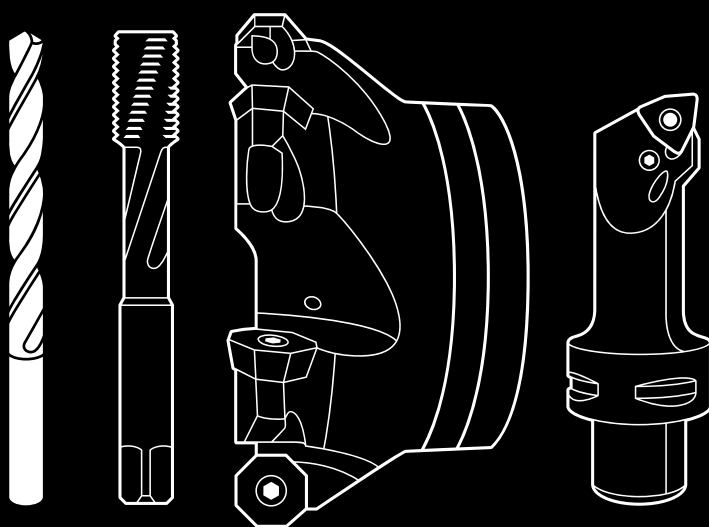


_ METAL É O NOSSO MUNDO.

Ferramentas para usinagem de perfuração



Como encontrar e encomendar a sua solução em ferramenta:



Pessoalmente – mundialmente

Você pode entrar em contato conosco por telefone ou por e-mail. Os dados do seu contato local podem ser consultados em nosso site em: **walter-tools.com**



Os catálogos e folhetos híbridos da Walter

incluem o programa standard completo de nossas marcas de competência Walter, Walter Titex e Walter Prototyp, Walter Multiply – tanto em versão impressa como digital: com resumos de programas, dados dos produtos, recomendações de dados de corte e muito mais. Com links ao nosso navegador de usinagem Walter GPS ou ao Walter TOOLSHOP com opção de colocação direta dos pedidos.

Em **walter-tools.com**, você pode acessar e encomendar seus produtos Walter online de forma rápida e confortável – via smartphone, tablet ou PC.

Sua vantagem: acesso direto a partir de qualquer dispositivo, em apresentação otimizada – a qualquer momento!

Catálogo online Walter



Pesquisa específica de ferramentas

No catálogo online da Walter, você encontrará produtos com o auxílio da estrutura conhecida de nosso catálogo de produtos, bem como através de funções de filtro e busca. Também integrada: uma função de compras, bem como links para desenhos e modelos.

Walter GPS



Pesquisa relacionada a aplicações

Com o Walter GPS, você pode encontrar a melhor solução de usinagem para seu componente em apenas alguns passos – online e offline – e transferi-la diretamente para o Walter TOOLSHOP, se necessário!

Walter Innotime®



Pesquisa baseada em componentes

Com Walter Innotime® você irá encontrar a solução de usinagem mais econômica para sua peça: incluindo todas as ferramentas, etapas e parâmetros de usinagem necessários. Simplesmente fazendo o upload do seu modelo 3D.

Canais de encomenda digitais



TOOLSHOP



EDI B2B

Walter TOOLSHOP e EDI

O Walter TOOLSHOP oferece aos clientes opções rápidas de informações e pedido.

Via EDI (Electronic Data Interchange) também é possível trocar documentos (por exemplo, ordens de serviço) – ferramentas especiais também podem ser encomendadas.

B - Furação/mandrilamento

B1 - Furação com brocas sólidas

Ferramentas para furação de metal duro	Programa	Pág. pedido
Brocas de metal duro – com refrigeração interna	B 10	B 25
Brocas de metal duro – sem refrigeração interna	B 21	B 148
Ferramentas para furação/chanfrar	Programa	Pág. pedido
Ferramentas para furação/chanfrar	B 194	B 195
Insertos intercambiáveis para furação/mandrilamento		Pág. pedido
Insertos intercambiáveis		B 198
Insertos intercambiáveis para furação/mandrilamento		B 214
Insertos intercambiáveis p/ alargamento		B 222
Ferramentas para furação com insertos intercambiáveis	Programa	Pág. pedido
Broca com insertos intercambiáveis	B 224	B 230
Ferramentas para furação de HSS	Programa	Pág. pedido
Ferramentas para furação de HSS	B 322	B 330
Brocas de centro NC de metal duro e HSS	Programa	Pág. pedido
Brocas de centro NC de metal duro e HSS	B 434	B 436
Brocas de centro de metal duro e HSS	Programa	Pág. pedido
Brocas de centro de metal duro e HSS	B 444	B 448

B2 - Calibração e mandrilamento de precisão

Insertos intercambiáveis para calibração e mandrilamento de precisão		Pág. pedido
Insertos intercambiáveis para calibração e mandrilamento de precisão		B 462
Ferramentas p/ mandril. e mandril. de prec.	Programa	Pág. pedido
Mandrilamento de precisão	B 478	B 482
Mandrilamento	B 480	B 550
Porta-ferramentas curto	Programa	Pág. pedido
Dispositivo de fixação curto ISO	B 578	B 584
Porta-ferramentas curto mini	B 580	B 595
Cápsula p/ mandrilamento de precisão	B 582	B 601
Brocas calibradoras e escareadores de HSS	Programa	Pág. pedido
Brocas calibradoras e escareadores de HSS	B 606	B 608

B3 - Alargamento

Alargadores de metal duro e HSS	Programa	Pág. pedido
Alargadores de metal duro e HSS	B 614	B 617

Tecnologias na Walter

Accure-tec®

A tecnologia Accure-tec® patenteada da Walter para barras de mandrilar para torneamento e adaptadores para fresamento garante um amortecimento máximo das vibrações. Ideal para torneamento, fresamento e usinagem de furos com balanço elevado da ferramenta.

Drion-tec®

Drion-tec® designa as soluções para ferramentas de furação da Walter com aresta de corte substituível – com insertos intercambiáveis. As brocas Drion-tec® caracterizam-se por seu custo-benefício, alta precisão e aplicabilidade universal. Graças a um amplo portfólio de produtos, elas são especializadas para a produção em massa, assim como para aplicações específicas e ideais para produção mista.

Groov-tec™

Groov-tec™ é a última geração de ferramentas de corte de alto desempenho da Walter. Estas caracterizam-se pela máxima estabilidade, o que permite elevados dados de corte e conduz à máxima maximiza a vida útil do Porta-ferramentas e dos insertos intercambiáveis. Ao mesmo tempo, os Sistemas maximizam a segurança de processo graças à quebra controlada de cavacos.

Krato-tec®

Krato-tec® é uma tecnologia única de revestimento Walter para ferramentas de metal duro. Ela consiste, principalmente, em um revestimento multicamadas AlTiN extraordinariamente resistente a quebras com uma camada superior texturizada. A arquitetura de camadas especiais é altamente resistente ao desgaste e à aderência, mesmo em altas velocidades de corte, e faz com que as ferramentas sejam universalmente aplicáveis.

Tiger-tec® Gold

Tiger-tec® Gold é a nova geração da Walter para revestimentos exclusivos de insertos intercambiáveis, que possibilita vida útil máxima e segurança de processo. As novas classes são baseadas em tecnologias PVD, CVD ou ULP, dependendo do caso de aplicação. Características de camada exclusivas, protegidas por várias patentes, garantem a melhor proteção contra formas de desgaste que definem a vida útil e garantem um desempenho excepcional.

Tiger-tec® Silver

Com o Tiger-tec® Silver, a Walter disponibiliza uma tecnologia de revestimento para insertos intercambiáveis exclusiva em todo o mundo. A camada de óxido de alumínio específica com microestrutura otimizada reduz o desgaste em torneamento, fresamento e furação/mandrilamento, bem como também aumenta a tenacidade e a resistência a altas temperaturas – para dados de corte significativamente mais elevados.

Thread-tec™

Thread-tec™ Designação das ferramentas de roscagem Walter com Alta de desempenho e fiabilidade de processo. Thread-tec™ combina os mais recentes desenvolvimentos técnicos e propriedades comprovadas em geometrias e Revestimentos de ferramentas para criar uma gama abrangente de produtos de todas as dimensões e Tolerâncias. Adequadas para todas as aplicações - seja para fresagem, Formato ou perfuração de roscas.

Thrill-tec™

A fresa circular de furação e rosqueamento Thrill-tec™ reúne três funções em uma ferramenta e uma operação: produção de chanfros, furos pré-usinados e roscas. Sua combinação especial de substrato, revestimento e geometria conferem à ferramenta uma longa vida útil. O resumo de várias etapas de usinagem possibilita tempos de usinagem extremamente curtos e poupa tanto ferramentas como também espaço de máquinas.

Walter BLAXX

Walter BLAXX é a referência para uma nova geração de fresas: o seu tratamento superficial específico faz com que o corpo da fresa seja extremamente robusto. Os sistemas de fresamento predominantemente tangenciais são equipados com insertos intercambiáveis Tiger-tec®. As ferramentas identificadas com "Walter BLAXX" combinam alta resistência ao desgaste com dados de desempenho imbatíveis.

Walter Xpress

Walter Xpress é o serviço de encomenda e entrega rápida da Walter Multiply para ferramentas especiais de alta qualidade: estão disponíveis aproximadamente 10 000 variantes de ferramentas; Prazo de entrega máximo de 2–4 semanas a partir da entrada do pedido! O processo de encomenda é estruturado de modo claro e garante segurança absoluta no planejamento. Todas as solicitações são calculadas e oferecidas dentro de 24 horas.

Walter Precision XT

As ferramentas para mandrilamento em acabamento são usadas sempre que for necessário finalizar um furo já existente ou para otimizar a precisão deste último: por exemplo, por meio da correção do posicionamento, uma tolerância mais estreita do furo ou otimização da qualidade superficial. O mandrilamento de precisão geralmente é realizado com profundidades de corte < 0,5 mm (0,020 polegadas).

Walter Boring XT

As ferramentas para mandrilamento em desbaste são utilizadas para alargar um furo existente. O foco está na remoção do material. O furo a ser alargado é previamente usinado ou criado por fundição ou forjamento. As ferramentas para mandrilamento em desbaste também podem ser usadas para mandrilamento com desvio radial ou escalonado.

Tecnologia XD

As ferramentas para furação de metal duro da Walter Titex são conhecidas por serem precisas, eficazes e econômicas na furação de quase qualquer material. A tecnologia XD da Walter Titex significa furação profunda sem ciclo intermitente ("pica-pau") até 70 × Dc com precisão e economia máximas.

Xill-tec®

Com Xill-tec®, as fresas de metal duro da família de produtos MC230 Advance, a Walter oferece um programa exclusivo abrangente: com diferentes tamanhos, números de cortes e tipos de hastes. Assim o usuário está bem posicionado para todas as operações de fresamento e materiais ISO imagináveis. Aplicação universal – com qualidade excelente.

Xtra-tec®

As fresas e brocas com insertos intercambiáveis Xtra-tec® permitem um corte extremamente suave e máxima qualidade superficial – em quase todos os materiais. Os insertos intercambiáveis com geometrias altamente positivas e revestimento Tiger-tec® apresentam uma relação dureza/tenacidade particularmente favorável. Para máximas produtividade e segurança de processo.

Xtra-tec® XT

Xtra-tec® XT é a nova geração de ferramentas para fresamento da Walter. A tecnologia "Xtended" da Xtra-tec® inaugura uma perspectiva completamente nova para produtividade e segurança de processo. São abrangidas quase todas as operações de fresamento em todos os grupos de materiais convencionais: mais estável, mais produtivo, mais econômico como nunca antes – e com compensação de CO₂ por Walter Green.

X-treme Evo

Brocas de metal duro X-treme Evo DC260 & DC160 Advance, assim como X-treme Evo Plus DC180 Supreme e X-treme Evo 3 DC183 Supreme incorporam a "furação da próxima geração" para Walter: versátil no uso para uma ampla gama de materiais e conceitos de máquinas – com excepcional vida útil da ferramenta, produtividade e segurança de processo.

Tecnologias na Walter (continuação)



Walter Capto™ é um sistema de adaptadores modulares para ferramentas. Ele pode ser usado em todas as operações de torneamento, fresamento, furação/mandrilamento e rosqueamento. O seu cone poligonal de padrão ISO absorve muito bem os momentos de torção e flexão, bem como também garante uma repetibilidade ideal.



Walter ConeFit é um sistema de fresamento de metal duro extremamente flexível com uma ampla gama de pontas intercambiáveis e tipos de haste de alto desempenho. A sua rosca cônica é autocentrante e, deste modo, garante estabilidade máxima e elevada concentricidade.



Os usuários do Walter ScrewFit se beneficiam da flexibilidade máxima. A interface modular pode ser usada nos mais diferentes adaptadores, bem como em vários diâmetros e comprimentos de ferramenta, para fresamento e furação/mandrilamento.



A interface QuadFit retificada com precisão com face cônica e de apoio caracteriza as barras de mandrilar com amortecimento das vibrações a serem usadas em torneamento e torneamento de roscas com a tecnologia Accure-tec® da Walter. O sistema de ponta intercambiável, que pode ser girada em 180°, permite que as ferramentas sejam trocadas rapidamente com o mais alto nível de precisão de troca.



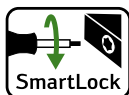
Em operações de torneamento e ranhuras, a refrigeração de precisão da Walter refrigera a formação de cavacos no centro. O seu jato duplo de refrigeração atinge exatamente a face lateral e a superfície de saída. Para as operações de furação, a saída do jato de refrigeração se aproxima da aresta de corte. Para uma vida útil significativamente mais longa, melhor quebra ou remoção de cavacos, além de mais eficiência e qualidade superior.



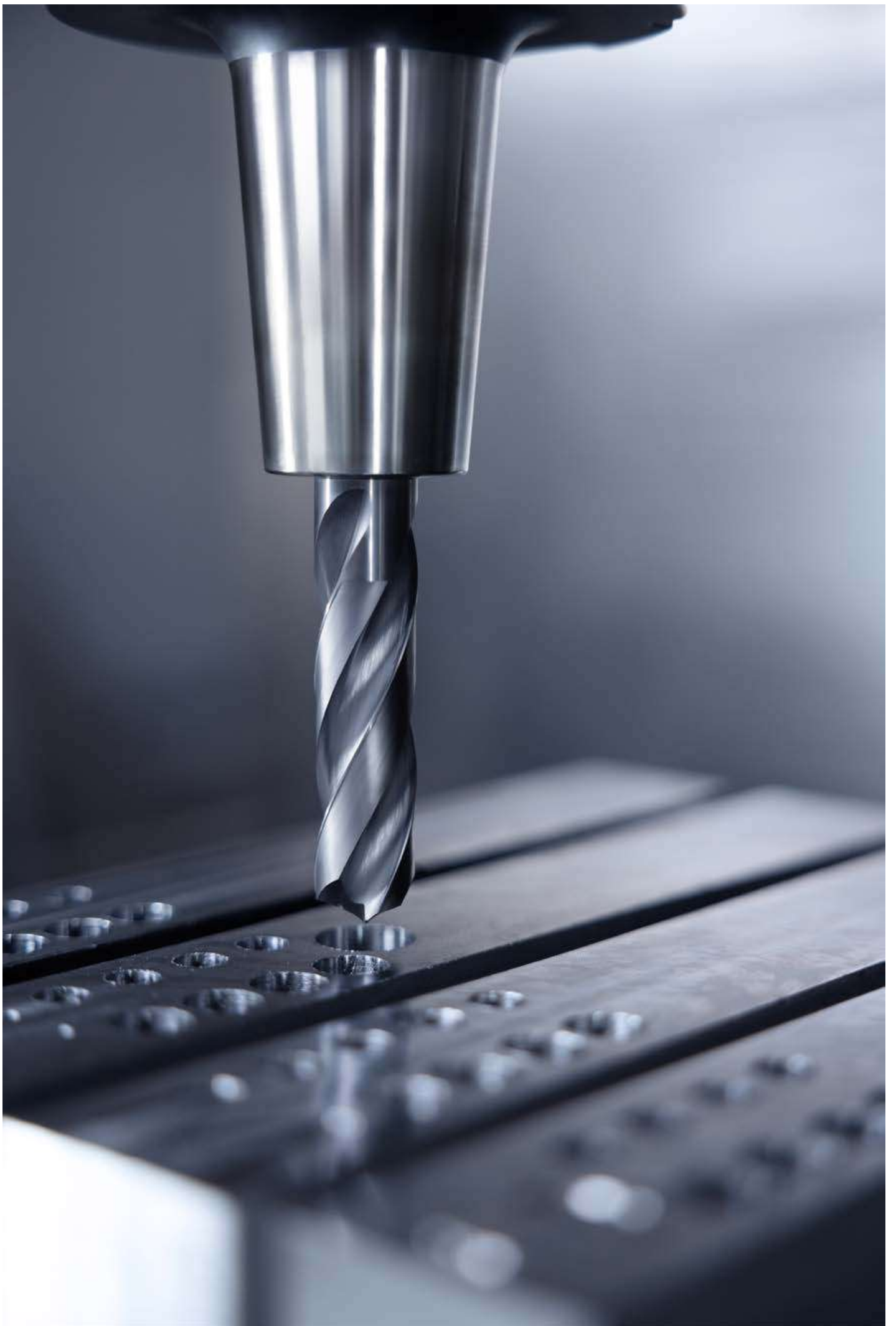
Walter DeVibe é uma tecnologia anti-vibração para fresas de rosca. Ela consiste em um "chanfro calmante" que reduz o ângulo de folga na face do flanco. Isto apoia a ferramenta; as vibrações são minimizadas. A DeVibe permite qualidades de superfície e dados de corte mais elevados, especialmente para roscas métricas finas - independentemente das condições de fixação, da alteração dos valores de corte ou da estratégia de fresagem.



"Flash" designa uma fresa de metal duro especial para o fresamento High-Feed. A sua geometria da face frontal reduz a espessura do cavaco "h" e, portanto, permite taxas de avanço muito elevadas por face. As forças originais são desviadas axialmente para o centro da ferramenta, o que estabiliza o processo de usinagem.



Nos porta-ferramentas para torneamento Walter com "SmartLock", o parafuso de fixação é acessado pela lateral, possibilitando a troca simples e rápida dos insertos na máquina. Fazendo com que tempos de troca sejam reduzidos de maneira significativa. Utilizados, de preferência, em máquinas de fusos longos e multifusos.



A estrutura do novo Catálogo Geral da Walter

O novo Catálogo Geral da Walter mostra informações abrangentes e claras sobre produtos e aplicações como um ePaper – com link direto para o catálogo online da Walter.

Drilling from solid

WALTER TITEX

Solid carbide drills with internal coolant

Drilling depth

3 x D_C

5 x D_C

5 x D_C

NEW

Designation	DC150 Perform	DC150 Perform	A3289DPL Xtreme Plus	DC175 Supreme	DC170 Supreme
Additional services					
Standard	DIN 6537 K	DIN 6537 K	DIN 6537 K	Walter	DIN 6537 L
Coating / grade	WJ30RE	WJ30RE	DPL	WJ30RZ	WJ30EJ
Shank	DIN 6535 HA	DIN 6535 HE, turned 180° DIN 6535 HB	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA
Diameter range [mm]	3–20	3–20	3–20	3–20	3–20
P Steel	●●	●●	●●	●	●●
M Stainless steel	●	●	●	●●	●
K Cast iron	●●	●●	●●	●	●●
N NF metals	●●	●●	●●	●	●
S Materials with difficult cutting properties	●●	●●	●●	●●	●
H Hard materials	●	●	●●	●	●
O Other	●	●	●	●	●
Page in catalogue	20	21	22	23	24
QR code					
www.walter-tools.com/woc/	DC150	DC150	A3289DPL	DC175	DC170

WALTER SELECT

●● Primary application

● Other application

Solid carbide drills – with internal coolant

9

Resumos do programa com aplicações, materiais e QR Code em um piscar de olhos

Esses resumos incluem ícones associados às aplicações, imagens dos produtos, a gama de materiais para os quais os produtos podem ser utilizados; se aplicável, também variantes de haste, sistemas de fixação e outras informações importantes. Desta forma, você identifica imediatamente qual produto você precisa – e pode obter informações detalhadas sobre ele diretamente através da leitura do respectivo QR Code ou inserindo o link em seu navegador.

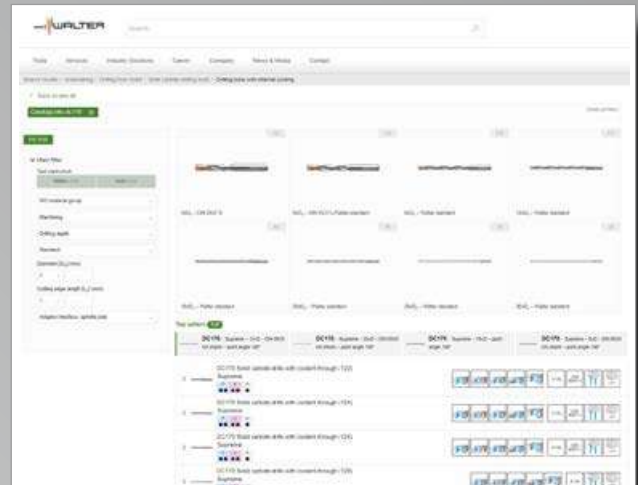
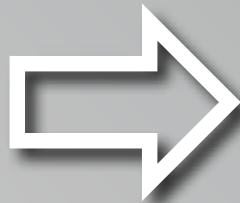
NEW

As ferramentas com esta marcação são inovações de produto e são apresentadas como tal nos resumos do programa.



Os inserts intercambiáveis e ferramentas com estes símbolos vermelhos são novos no programa e estão marcados como tal na página de códigos.

leva você diretamente para a subpágina do respectivo produto no catálogo online Walter. Na visualização geral, você pode ver a imagem da ferramenta/produto, aplicação e outros ícones, bem como as aplicações principais e secundárias na área de materiais ISO.

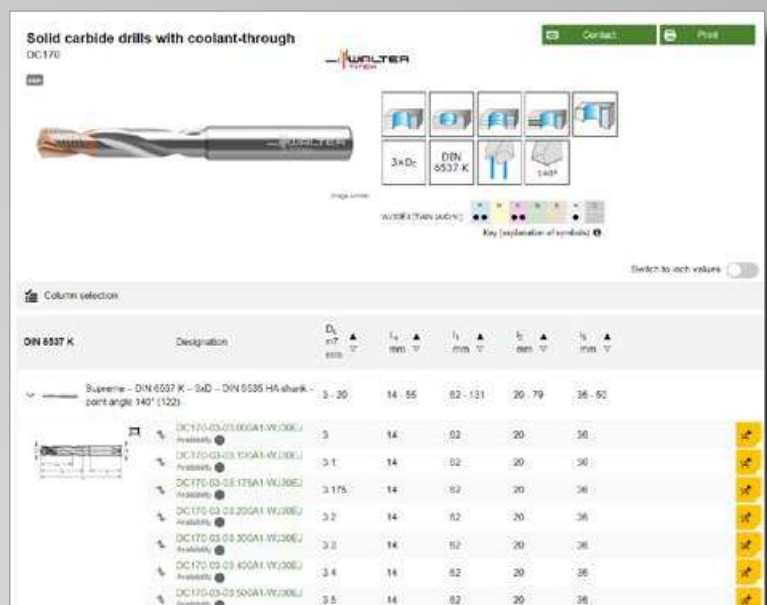


Como alternativa à leitura do QR Code, você também pode digitar o link diretamente no seu navegador:

No ePaper, também é possível clicar diretamente nos links.



Dependendo do produto, aqui ou na página de detalhes do produto a seguir, você encontrará informações sobre tamanhos, insertos intercambiáveis associados, adaptadores, acessórios e links diretos para informações complementares, por exemplo, recomendações de dados de corte via Walter GPS ou informações técnicas, tais como instruções de montagem, limite de rotações e muito mais.



Brocas de metal duro - com refrigeração interna

B1

Profundidade de furação	2 x D _C	2 x D _C	2 x D _C	3 x D _C



Descrição	K5191TFT X-treme Pilot 180 C	DC118 Supreme	DB131 Supreme	A6181TFT XD Pilot	DC260 Advance X-treme Evo
Outros serviços					
Norma	Walter	Walter	Walter	Walter	Walter
Revestimento / classe	TFT	WJ30ET	WJ30EL	TFT	WJ30ET
Haste	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	4-7	3-20	2-2,95	3-16	3,3-14
P Aço	●●	●●	●●	●●	●●
M Aço inoxidável	●●	●●	●●	●●	●
K Ferro fundido	●●	●●	●●	●●	●●
N Metais não ferrosos	●●	●●	●●	●●	●●
S Materiais de usinagem difícil	●●	●●	●●	●●	●●
H Materiais endurecidos	●	●	●	●	●
O Outros	●	●	●	●	●

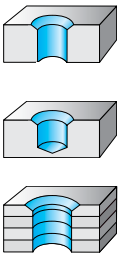
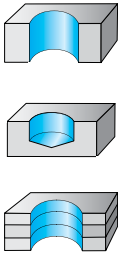
Página do catálogo	B 147	B 145	B 142	B 143	B 25
QR Code					
	K5191TFT	DC118	DB131	A6181TFT	DC260

www.walter-tools.com/woc/

WALTER SELECT

●● Aplicação principal ● Aplicação secundária

Brocas de metal duro - com refrigeração interna

			
Profundidade de furação	3 x D _C	3 x D _C	3 x D _C



Descrição	DC260 Advance X-treme Evo	DC180 Supreme X-treme Evo Plus	DC175 Supreme	DC170 Supreme	DC160 Advance X-treme Evo
Outros serviços					
Norma	Walter	DIN 6537 K	DIN 6537 K	DIN 6537 K	DIN 6537 K
Revestimento / classe	WJ30ET	WJ30EZ	WJ30RZ	WJ30EJ	WJ30ET
Haste	DIN 6535 HE	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	3,3–14	3–20	3–20	3–20	3–20
P Aço	●●	●●	●	●●	●●
M Aço inoxidável	●	●●	●●	●●	●
K Ferro fundido	●●	●●	●	●●	●●
N Metais não ferrosos	●●	●●	●	●●	●●
S Materiais de usinagem difícil	●●	●●	●●	●●	●●
H Materiais endurecidos	●	●●	●	●	●
O Outros	●	●	●	●	●
Página do catálogo	B 25	B 26	B 29	B 33	B 36

QR Code


www.walter-tools.com/woc/

DC260

DC180

DC175

DC170

DC160

Brocas de metal duro - com refrigeração interna

B1

Profundidade de furação	3 x D _C	3 x D _C	3 x D _C	5 x D _C	5 x D _C

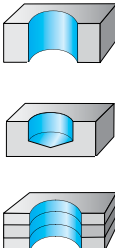
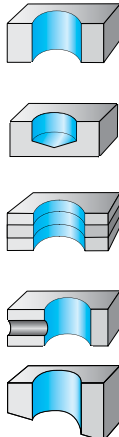


Descrição	DC160 Advance X-treme Evo	DC150 Perform	DC150 Perform	DC183 Supreme X-treme Evo 3	DC180 Supreme X-treme Evo Plus
Outros serviços					
Norma	DIN 6537 K	DIN 6537 K	DIN 6537 K	Walter	Walter
Revestimento / classe	WJ30ET	WJ30RE	WJ30RE	WJ30EZ	WJ30EZ
Haste	DIN 6535 HE	DIN 6535 HA	DIN 6535 HE, 180° girado em DIN 6535 HB	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	3–20	3–20	3–20	3–16	3–20
P Aço	●●	●●	●●	●●	●●
M Aço inoxidável	●	●	●	●	●●
K Ferro fundido	●●	●●	●●	●●	●●
N Metais não ferrosos	●●	●●	●●	●●	●●
S Materiais de usinagem difícil	●●	●●	●●	●	●●
H Materiais endurecidos	●	●	●		●●
O Outros	●	●	●		●

Página do catálogo	B 36	B 44	B 44	B 51	B 26
QR Code					
	DC160	DC150	DC150	DC183	DC180

www.walter-tools.com/woc/

Brocas de metal duro - com refrigeração interna

		
Profundidade de furação	5 x D _C	5 x D _C

					
Descrição	DC175 Supreme	DC170 Supreme	DC166 Supreme	DC165 Advance	DC160 Advance X-treme Evo
Outros serviços					
Norma	Walter	DIN 6537 L	DIN 6537 L	Walter	DIN 6537 L
Revestimento / classe	WJ30RZ	WJ30EJ	WJ30UU	WJ30UU	WJ30ET
Haste	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	3-20	3-20	3-12	4-16	3-25
P Aço	●	●●			●●
M Aço inoxidável	●●				●
K Ferro fundido		●●		●●	●●
N Metais não ferrosos	●		●●	●●	●●
S Materiais de usinagem difícil	●●				●●
H Materiais endurecidos		●			●
O Outros	●				●
Página do catálogo	B 29	B 33	B 65	B 66	B 36
QR Code					
	DC175	DC170	DC166	DC165	DC160

www.walter-tools.com/woc/

Brocas de metal duro - com refrigeração interna

B1

Profundidade de furação	5 x D _C	5 x D _C	8 x D _C



Descrição	DC160 Advance X-treme Evo	DC150 Perform	DC150 Perform	DB133 Supreme	DC183 Supreme X-treme Evo 3
Outros serviços					
Norma	DIN 6537 L	DIN 6537 L	DIN 6537 L	Walter	Walter
Revestimento / classe	WJ30ET	WJ30RE	WJ30RE	WJ30EL	WJ30EY
Haste	DIN 6535 HE	DIN 6535 HA	DIN 6535 HE, 180° girado em DIN 6535 HB	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	3–25	3–20	3–20	0,7–2,95	3–16
P Aço	●●	●●	●●	●●	●●
M Aço inoxidável	●	●	●	●●	●
K Ferro fundido	●●	●●	●●	●●	●●
N Metais não ferrosos	●●	●●	●●	●●	●●
S Materiais de usinagem difícil	●●	●●	●●	●●	●
H Materiais endurecidos	●	●	●	●	
O Outros	●	●	●	●	

Página do catálogo	B 40	B 44	B 47	B 49	B 52

QR Code


www.walter-tools.com/woc/

DC160

DC150

DC150

DB133

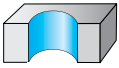
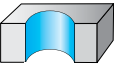
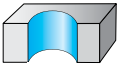
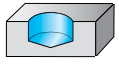
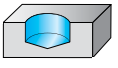
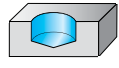
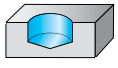
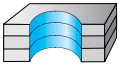
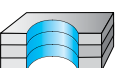
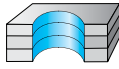
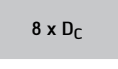
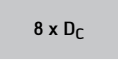
DC183

WALTER SELECT

●● Aplicação principal ● Aplicação secundária

Brocas de metal duro - com refrigeração interna

B1

				
				
				
				
				
Profundidade de furação	8 x D _C	8 x D _C	8 x D _C	8 x D _C

					
Descrição	DC180 Supreme X-treme Evo Plus	DC175 Supreme	DC170 Supreme	DC160 Advance X-treme Evo	DC150 Perform
Outros serviços					
Norma	Walter	Walter	Walter	Walter	Walter
Revestimento / classe	WJ30EY	WJ30RY	WJ30EJ	WJ30ET	WJ30TA
Haste	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	3–20	3–16	3–20	3–20	3–20
P Aço	●●	●	●●	●●	●●
M Aço inoxidável	●●	●●		●	●
K Ferro fundido	●●		●●	●●	●●
N Metais não ferrosos	●●	●		●●	●●
S Materiais de usinagem difícil	●●	●●		●●	●●
H Materiais endurecidos	●●		●	●	●
O Outros	●	●		●	●
Página do catálogo	B 27	B 30	B 34	B 37	B 45
QR Code					
	DC180	DC175	DC170	DC160	DC150

www.walter-tools.com/woc/

Brocas de metal duro - com refrigeração interna

B1

Profundidade de furação	8 x D _C	12 x D _C

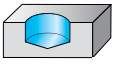
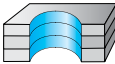
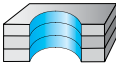
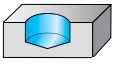


Descrição	DB133 Supreme	A3486TIP Alpha® 44	DC180 Supreme X-treme Evo Plus	DC170 Supreme	DC160 Advance X-treme Evo
Outros serviços					
Norma	Walter	Walter	Walter	Walter	Walter
Revestimento / classe	WJ30ER	TIP	WJ30EY	WJ30EJ	WJ30EU
Haste	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	0,7–2,95	5–8	3–20	3–20	3–20
P Aço	●●	●●	●●	●●	●●
M Aço inoxidável	●●	●	●●	●●	●
K Ferro fundido	●●	●	●●	●●	●●
N Metais não ferrosos	●●	●●	●●	●●	●●
S Materiais de usinagem difícil	●●	●	●●	●●	●●
H Materiais endurecidos	●	●	●●	●	●
O Outros	●	●	●	●	●

Página do catálogo	B 85	B 105	B 27	B 34	B 38
QR Code					
	DB133	A3486TIP	DC180	DC170	DC160

www.walter-tools.com/woc/

Brocas de metal duro - com refrigeração interna

				
				
				
				
				
Profundidade de furação	12 x D _C	12 x D _C	16 x D _C	16 x D _C



Descrição	DC150 Perform	DB133 Supreme	DC170 Supreme	DC160 Advance X-treme Evo	DB133 Supreme
Outros serviços					
Norma	Walter	Walter	Walter	Walter	Walter
Revestimento / classe	WJ30TA	WJ30ER	WJ30EJ	WJ30EU	WJ30ER
Haste	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	3–20	0,7–2,9	3–16	3–16	2–2,9
P Aço	●●	●●	●●	●●	●●
M Aço inoxidável	●	●●	●●	●	●●
K Ferro fundido	●●	●●	●●	●●	●●
N Metais não ferrosos	●●	●●	●●	●●	●●
S Materiais de usinagem difícil	●●	●●	●●	●●	●
H Materiais endurecidos	●●	●	●	●	●
O Outros	●	●	●	●	●
Página do catálogo	B 45	B 106	B 35	B 36	B 120

QR Code


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DC150

DB133

DC170

DC160

DB133

Brocas de metal duro - com refrigeração interna

B1

Profundidade de furação	20 x D _C	20 x D _C	20 x D _C	25 x D _C

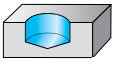
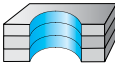
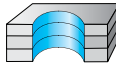
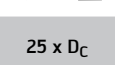
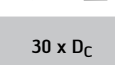


Descrição	DC170 Supreme	DC160 Advance X-treme Evo	DB133 Supreme	A6794TFP X-treme DH20	DC170 Supreme
Outros serviços					
Norma	Walter	Walter	Walter	Walter	Walter
Revestimento / classe	WJ30EJ	WJ30EU	WJ30ER	TFP	WJ30EJ
Haste	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	3-16	3-16	2-2,9	3-10	3-12
P Aço	●●	●●	●●	●●	●●
M Aço inoxidável		●	●●	●	
K Ferro fundido	●●	●●	●●	●	●●
N Metais não ferrosos		●●	●●	●	
S Materiais de usinagem difícil		●●	●	●	
H Materiais endurecidos	●	●	●	●	●
O Outros		●	●		

Página do catálogo	B 33	B 36	B 49	B 130	B 34
QR Code					
	DC170	DC160	DB133	A6794TFP	DC170

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Brocas de metal duro - com refrigeração interna

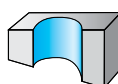
				
				
				
				
				
Profundidade de furação	25 x D _C	25 x D _C	30 x D _C	30 x D _C

					
Descrição	DC160 Advance X-treme Evo	DB133 Supreme	DC170 Supreme	DC160 Advance X-treme Evo	DB133 Supreme
Outros serviços					
Norma	Walter	Walter	Walter	Walter	Walter
Revestimento / classe	WJ30EU	WJ30ER	WJ30EJ	WJ30EU	WJ30ER
Haste	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	3-12	2-2,9	3-12	3-12	2-2,9
P Aço	●●	●●	●●	●●	●●
M Aço inoxidável	●	●●	●●	●	●●
K Ferro fundido	●●	●●	●●	●●	●●
N Metais não ferrosos	●●	●●	●●	●●	●●
S Materiais de usinagem difícil	●●	●	●●	●●	●
H Materiais endurecidos	●	●	●	●	●
O Outros	●	●	●	●	●
Página do catálogo	B 36	B 49	B 33	B 36	B 49
QR Code					
	DC160	DB133	DC170	DC160	DB133

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Brocas de metal duro - com refrigeração interna

B1



Profundidade de furação

30 x D_C

40 x D_C

50 x D_C


Descrição

A6994TFP
X-treme DH30

A7495TTP
X-treme D40

A7595TTP
X-treme D50

Outros serviços



Norma

Walter

Walter

Walter

Revestimento / classe

TFP

TTP

TTP

Haste

DIN 6535 HA

DIN 6535 HA

DIN 6535 HA

Faixa de Ø [mm]

3-10

3-11

3-9

P Aço

●●

●●

●●

M Aço inoxidável

●

●

●

K Ferro fundido

●

●●

●●

N Metais não ferrosos

●

●●

●●

S Materiais de usinagem difícil

●

●

●

H Materiais endurecidos

●

●

●

O Outros

●

●

●

Página do catálogo

B 139

B 140

B 141

QR Code



www.walter-tools.com/woc/

A6994TFP

A7495TTP

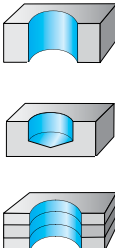
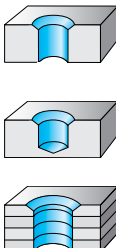
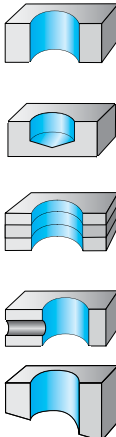
A7595TTP

WALTER SELECT

●● Aplicação principal

● Aplicação secundária

Brocas de metal duro - sem refrigeração interna

			
Profundidade de furação	2 x D _C	3 x D _C	3 x D _C

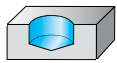
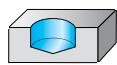
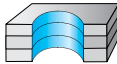


Descrição	DB131 Supreme	DC260 Advance X-treme Evo	DC260 Advance X-treme Evo	DC160 Advance X-treme Evo	DC160 Advance X-treme Evo
Outros serviços					
Norma	Walter	Walter	Walter	DIN 6537 K	DIN 6537 K
Revestimento / classe	WJ30EL	WJ30ET	WJ30ET	WJ30ET	WJ30ET
Haste	DIN 6535 HA	DIN 6535 HA	DIN 6535 HE	DIN 6535 HA	DIN 6535 HE
Faixa de Ø [mm]	0,5–1,984	3,3–14	3,3–14,5	3–20	3–20
P Aço	●●	●●	●●	●●	●●
M Aço inoxidável	●●	●●	●●	●●	●●
K Ferro fundido	●●	●●	●●	●●	●●
N Metais não ferrosos	●●	●	●	●	●
S Materiais de usinagem difícil	●	●	●	●	●
H Materiais endurecidos	●	●	●	●	●
O Outros	●	●	●	●	●
Página do catálogo	B 193	B 148	B 148	B 149	B 149
QR Code					
	DB131	DC260	DC260	DC160	DC160

www.walter-tools.com/woc/

Brocas de metal duro - sem refrigeração interna

B1

		
		
		
		
		
Profundidade de furação	3 x D _C	3 x D _C



Descrição	DC150 Perform	DC150 Perform	DC150 Perform	A1166TIN	A1166
Outros serviços					
Norma	DIN 6537 K	DIN 6537 K	DIN 6539	Walter	Walter
Revestimento / classe	WJ30RE	WJ30RE	WJ30RE	TIN	não revestido
Haste	DIN 6535 HA	DIN 6535 HE, 180° girado em DIN 6535 HB	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica
Faixa de Ø [mm]	3–20	3–20	1,5–2,9	3–14	3–18
P Aço	●●	●●	●●	●	●
M Aço inoxidável	●	●	●		
K Ferro fundido	●●	●●	●●		
N Metais não ferrosos	●	●	●		●
S Materiais de usinagem difícil	●	●	●		●
H Materiais endurecidos	●	●	●	●	●
O Outros	●	●	●		

Página do catálogo B 158 B 158 B 157 B 166 B 166

QR Code


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DC150

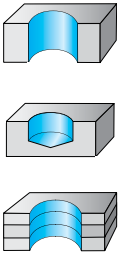
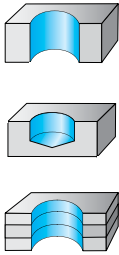
DC150

DC150

A1166TIN

A1166

Brocas de metal duro - sem refrigeração interna

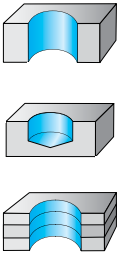
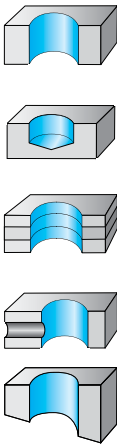
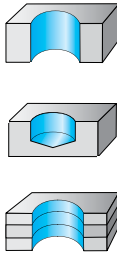
			
Profundidade de furação	3 x D _C	5 x D _C	5 x D _C

					
Descrição	A1163	DC160 Advance X-treme Evo	DC160 Advance X-treme Evo	DC150 Perform	DB133 Supreme
Outros serviços					
Norma	DIN 6539	DIN 6537 L	DIN 6537 L	DIN 6537 L	Walter
Revestimento / classe	não revestido	WJ30ET	WJ30ET	WJ30TA	WJ30EL
Haste	Haste cilíndrica	DIN 6535 HA	DIN 6535 HE	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	1-12	3-25	3-25	3-20	0,5-2,95
P Aço		●●	●●	●●	●●
M Aço inoxidável				●	
K Ferro fundido	●	●●	●●	●●	●●
N Metais não ferrosos	●●	●	●	●	●●
S Materiais de usinagem difícil	●	●	●	●	●
H Materiais endurecidos		●	●	●	●
O Outros	●●	●	●	●	●
Página do catálogo	B 164	B 149	B 153	B 158	B 168
QR Code					
	A1163	DC160	DC160	DC150	DB133

www.walter-tools.com/woc/

Brocas de metal duro - sem refrigeração interna

B1

			
Profundidade de furação	5 x D _C	5 x D _C	8 x D _C



Descrição	DB130 Advance	A3367 BSX	DB133 Supreme	A1276TFL Alpha® 22	A1263
Outros serviços					
Norma	DIN 1899	DIN 6537 L	Walter	DIN 338	DIN 338
Revestimento / classe	WJ30UU	não revestido	WJ30ER	TFL	não revestido
Haste	Haste cilíndrica	DIN 6535 HA	DIN 6535 HA	Haste cilíndrica	Haste cilíndrica
Faixa de Ø [mm]	0,1–1,45	3–16	0,5–2,95	3–10,2	0,6–12
P Aço	●●		●●	●●	
M Aço inoxidável	●●				
K Ferro fundido	●●	●●	●●	●●	●
N Metais não ferrosos	●●	●●	●●	●●	●●
S Materiais de usinagem difícil	●●	●	●	●	●
H Materiais endurecidos			●		
O Outros	●●	●	●		●●

Página do catálogo	B 170	B 186	B 168	B 189	B 190

QR Code


www.walter-tools.com/woc/

DB130

A3367

DB133

A1276TFL

A1263

WALTER SELECT

●● Aplicação principal ● Aplicação secundária

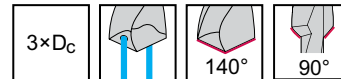
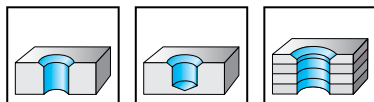
Broca de metal duro com canal de refrigeração

DC260 Advance

X-treme Evo

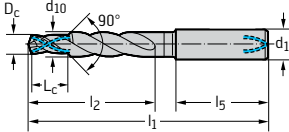
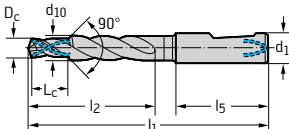


- Comprimento dos escalonamentos conforme a DIN 8378
- Para furos para roscas



	P	M	K	N	S	H	O
WJ30ET	●●	●	●●	●●	●●	●	●

B1

Ferramenta										
	Denominação	para roscas	D _c m7 mm	d ₁₀ mm	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
 DIN 6535 HA	DC260-03-03.300A1-	M 4	3,3	5	11	66	28	36	6	
	DC260-03-04.200A1-	M 5	4,2	6	14	66	28	36	6	
	DC260-03-05.000A1-	M 6	5	8	17	79	41	36	8	
	DC260-03-06.800A1-	M 8	6,8	10	21	89	47	40	10	
	DC260-03-08.500A1-	M 10	8,5	12	26	102	55	45	12	
	DC260-03-10.200A1-	M 12	10,2	14	30	107	60	45	14	
	DC260-03-12.000A1-	M 14	12	16	35	115	65	48	16	
	DC260-03-14.000A1-	M 16	14	18	39	123	73	48	18	
 DIN 6535 HE	DC260-03-03.300F1-	M 4	3,3	5	11	66	28	36	6	
	DC260-03-04.200F1-	M 5	4,2	6	14	66	28	36	6	
	DC260-03-05.000F1-	M 6	5	8	17	79	41	36	8	
	DC260-03-06.800F1-	M 8	6,8	10	21	89	47	40	10	
	DC260-03-08.500F1-	M 10	8,5	12	26	102	55	45	12	
	DC260-03-10.200F1-	M 12	10,2	14	30	107	60	45	14	
	DC260-03-12.000F1-	M 14	12	16	35	115	65	48	16	
	DC260-03-14.000F1-	M 16	14	18	39	123	73	48	18	

Exemplo de pedido para a classe WJ30ET: DC260-03-03.300A1-WJ30ET

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Broca de metal duro com canal de refrigeração

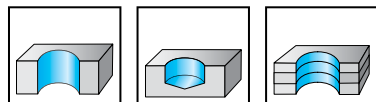
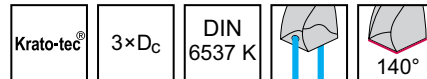
DC180 Supreme

X-treme Evo Plus

Powered by Krato-tec®

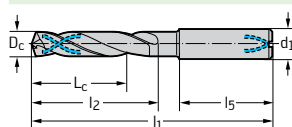


– com revestimento multicamada inovador Krato-tec®



	P	M	K	N	S	H	O
WJ30EZ	●	●	●	●	●	●	●

Ferramenta



DIN 6535 HA

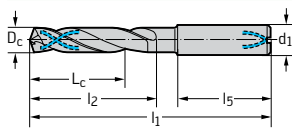
Denominação	D _c mm	D _c Inch/Nr	L _c mm	L ₁ mm	L ₂ mm	L ₅ mm	d ₁ h6 mm	WJ30EZ
DC180-03-03.000A1-	3		14	62	20	36	6	☺
DC180-03-03.100A1-	3,1		14	62	20	36	6	☺
DC180-03-03.175A1-	3,175	1/8"	14	62	20	36	6	☺
DC180-03-03.200A1-	3,2		14	62	20	36	6	☺
DC180-03-03.300A1-	3,3		14	62	20	36	6	☺
DC180-03-03.400A1-	3,4		14	62	20	36	6	☺
DC180-03-03.500A1-	3,5		14	62	20	36	6	☺
DC180-03-03.572A1-	3,572	9/64"	14	62	20	36	6	☺
DC180-03-03.600A1-	3,6		14	62	20	36	6	☺
DC180-03-03.700A1-	3,7		14	62	20	36	6	☺
DC180-03-03.800A1-	3,8		17	66	24	36	6	☺
DC180-03-03.900A1-	3,9		17	66	24	36	6	☺
DC180-03-03.969A1-	3,969	5/32"	17	66	24	36	6	☺
DC180-03-04.000A1-	4		17	66	24	36	6	☺
DC180-03-04.100A1-	4,1		17	66	24	36	6	☺
DC180-03-04.200A1-	4,2		17	66	24	36	6	☺
DC180-03-04.300A1-	4,3		17	66	24	36	6	☺
DC180-03-04.366A1-	4,366	11/64"	17	66	24	36	6	☺
DC180-03-04.400A1-	4,4		17	66	24	36	6	☺
DC180-03-04.500A1-	4,5		17	66	24	36	6	☺
DC180-03-04.600A1-	4,6		17	66	24	36	6	☺
DC180-03-04.650A1-	4,65		17	66	24	36	6	☺
DC180-03-04.700A1-	4,7		17	66	24	36	6	☺
DC180-03-04.763A1-	4,763	3/16"	20	66	28	36	6	☺
DC180-03-04.800A1-	4,8		20	66	28	36	6	☺
DC180-03-04.900A1-	4,9		20	66	28	36	6	☺
DC180-03-05.000A1-	5		20	66	28	36	6	☺
DC180-03-05.100A1-	5,1		20	66	28	36	6	☺
DC180-03-05.159A1-	5,159	13/64"	20	66	28	36	6	☺
DC180-03-05.200A1-	5,2		20	66	28	36	6	☺
DC180-03-05.300A1-	5,3		20	66	28	36	6	☺
DC180-03-05.400A1-	5,4		20	66	28	36	6	☺
DC180-03-05.500A1-	5,5		20	66	28	36	6	☺
DC180-03-05.550A1-	5,55		20	66	28	36	6	☺
DC180-03-05.556A1-	5,556	7/32"	20	66	28	36	6	☺
DC180-03-05.600A1-	5,6		20	66	28	36	6	☺

Exemplo de pedido para a classe WJ30EZ: DC180-03-03.000A1-WJ30EZ

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

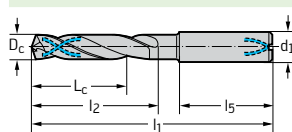
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EZ
	Denominação								
DIN 6535 HA	DC180-03-05.700A1-	5,7		20	66	28	36	6	☹
	DC180-03-05.800A1-	5,8		20	66	28	36	6	☹
	DC180-03-05.900A1-	5,9		20	66	28	36	6	☹
	DC180-03-05.953A1-	5,953	15/64"	20	66	28	36	6	☹
	DC180-03-06.000A1-	6		20	66	28	36	6	☹
	DC180-03-06.100A1-	6,1		24	79	34	36	8	☹
	DC180-03-06.200A1-	6,2		24	79	34	36	8	☹
	DC180-03-06.300A1-	6,3		24	79	34	36	8	☹
	DC180-03-06.350A1-	6,350	1/4"	24	79	34	36	8	☹
	DC180-03-06.400A1-	6,4		24	79	34	36	8	☹
	DC180-03-06.500A1-	6,5		24	79	34	36	8	☹
	DC180-03-06.600A1-	6,6		24	79	34	36	8	☹
	DC180-03-06.700A1-	6,7		24	79	34	36	8	☹
	DC180-03-06.747A1-	6,747	17/64"	24	79	34	36	8	☹
	DC180-03-06.800A1-	6,8		24	79	34	36	8	☹
	DC180-03-06.900A1-	6,9		24	79	34	36	8	☹
	DC180-03-07.000A1-	7		24	79	34	36	8	☹
	DC180-03-07.100A1-	7,1		29	79	41	36	8	☹
	DC180-03-07.144A1-	7,144	9/32"	29	79	41	36	8	☹
	DC180-03-07.200A1-	7,2		29	79	41	36	8	☹
	DC180-03-07.300A1-	7,3		29	79	41	36	8	☹
	DC180-03-07.400A1-	7,4		29	79	41	36	8	☹
	DC180-03-07.500A1-	7,5		29	79	41	36	8	☹
	DC180-03-07.541A1-	7,541	19/64"	29	79	41	36	8	☹
	DC180-03-07.800A1-	7,8		29	79	41	36	8	☹
	DC180-03-07.900A1-	7,9		29	79	41	36	8	☹
	DC180-03-07.938A1-	7,938	5/16"	29	79	41	36	8	☹
	DC180-03-08.000A1-	8		29	79	41	36	8	☹
	DC180-03-08.100A1-	8,1		35	89	47	40	10	☹
	DC180-03-08.200A1-	8,2		35	89	47	40	10	☹
	DC180-03-08.300A1-	8,3		35	89	47	40	10	☹
	DC180-03-08.334A1-	8,334	21/64"	35	89	47	40	10	☹
	DC180-03-08.400A1-	8,4		35	89	47	40	10	☹
	DC180-03-08.500A1-	8,5		35	89	47	40	10	☹
	DC180-03-08.600A1-	8,6		35	89	47	40	10	☹
	DC180-03-08.700A1-	8,7		35	89	47	40	10	☹
	DC180-03-08.731A1-	8,731	11/32"	35	89	47	40	10	☹
	DC180-03-08.800A1-	8,8		35	89	47	40	10	☹
	DC180-03-09.000A1-	9		35	89	47	40	10	☹
	DC180-03-09.128A1-	9,128	23/64"	35	89	47	40	10	☹
	DC180-03-09.200A1-	9,2		35	89	47	40	10	☹
	DC180-03-09.300A1-	9,3		35	89	47	40	10	☹
	DC180-03-09.500A1-	9,5		35	89	47	40	10	☹
	DC180-03-09.525A1-	9,525	3/8"	35	89	47	40	10	☹
	DC180-03-09.600A1-	9,6		35	89	47	40	10	☹
	DC180-03-09.700A1-	9,7		35	89	47	40	10	☹

Exemplo de pedido para a classe WJ30EZ: DC180-03-03.000A1-WJ30EZ

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30EZ
DC180-03-09.800A1-	9,8		35	89	47	40	10	☹
DC180-03-09.922A1-	9,922	25/64"	35	89	47	40	10	☹
DC180-03-10.000A1-	10		35	89	47	40	10	☹
DC180-03-10.100A1-	10,1		40	102	55	45	12	☹
DC180-03-10.200A1-	10,2		40	102	55	45	12	☹
DC180-03-10.300A1-	10,3		40	102	55	45	12	☹
DC180-03-10.319A1-	10,319	13/32"	40	102	55	45	12	☹
DC180-03-10.400A1-	10,4		40	102	55	45	12	☹
DC180-03-10.500A1-	10,5		40	102	55	45	12	☹
DC180-03-10.716A1-	10,716	27/64"	40	102	55	45	12	☹
DC180-03-10.800A1-	10,8		40	102	55	45	12	☹
DC180-03-11.000A1-	11		40	102	55	45	12	☹
DC180-03-11.100A1-	11,1		40	102	55	45	12	☹
DC180-03-11.113A1-	11,113	7/16"	40	102	55	45	12	☹
DC180-03-11.200A1-	11,2		40	102	55	45	12	☹
DC180-03-11.500A1-	11,5		40	102	55	45	12	☹
DC180-03-11.509A1-	11,509	29/64"	40	102	55	45	12	☹
DC180-03-11.700A1-	11,7		40	102	55	45	12	☹
DC180-03-11.800A1-	11,8		40	102	55	45	12	☹
DC180-03-11.906A1-	11,906	15/32"	40	102	55	45	12	☹
DC180-03-12.000A1-	12		40	102	55	45	12	☹
DC180-03-12.100A1-	12,1		43	107	60	45	14	☹
DC180-03-12.200A1-	12,2		43	107	60	45	14	☹
DC180-03-12.300A1-	12,3		43	107	60	45	14	☹
DC180-03-12.303A1-	12,303	31/64"	43	107	60	45	14	☹
DC180-03-12.500A1-	12,5		43	107	60	45	14	☹
DC180-03-12.600A1-	12,6		43	107	60	45	14	☹
DC180-03-12.700A1-	12,700	1/2"	43	107	60	45	14	☹
DC180-03-13.000A1-	13		43	107	60	45	14	☹
DC180-03-13.300A1-	13,3		43	107	60	45	14	☹
DC180-03-13.494A1-	13,494	17/32"	43	107	60	45	14	☹
DC180-03-13.500A1-	13,5		43	107	60	45	14	☹
DC180-03-14.000A1-	14		43	107	60	45	14	☹
DC180-03-14.288A1-	14,288	9/16"	45	115	65	48	16	☹
DC180-03-14.500A1-	14,5		45	115	65	48	16	☹
DC180-03-15.000A1-	15		45	115	65	48	16	☹
DC180-03-15.500A1-	15,5		45	115	65	48	16	☹
DC180-03-15.875A1-	15,875	5/8"	45	115	65	48	16	☹
DC180-03-16.000A1-	16		45	115	65	48	16	☹
DC180-03-16.500A1-	16,5		51	123	73	48	18	☹
DC180-03-17.000A1-	17		51	123	73	48	18	☹
DC180-03-17.500A1-	17,5		51	123	73	48	18	☹
DC180-03-18.000A1-	18		51	123	73	48	18	☹
DC180-03-19.050A1-	19,050	3/4"	55	131	79	50	20	☹
DC180-03-20.000A1-	20		55	131	79	50	20	☹

Exemplo de pedido para a classe WJ30EZ: DC180-03-03.000A1-WJ30EZ

WALTER
SELECT

Ferramenta ideal para condições de usinagem

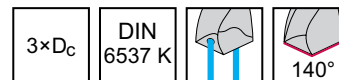
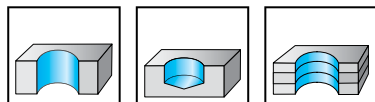
● ● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Broca helicoidal VHM

DC175 Supreme

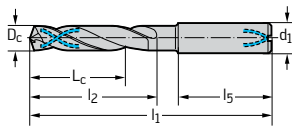


– Walter Refrigeração de precisão



	P	M	K	N	S	H	O
WJ30RZ	●	●●	●	●	●●	●	●

B1

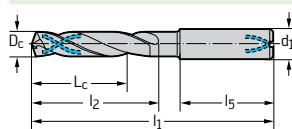
Ferramenta		D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RZ
 DIN 6535 HA	Denominação								
	DC175-03-03.000A1-	3		14	62	20	36	6	☺
	DC175-03-03.100A1-	3,1		14	62	20	36	6	☺
	DC175-03-03.175A1-	3,175	1/8"	14	62	20	36	6	☺
	DC175-03-03.200A1-	3,2		14	62	20	36	6	☺
	DC175-03-03.250A1-	3,25		14	62	20	36	6	☺
	DC175-03-03.300A1-	3,3		14	62	20	36	6	☺
	DC175-03-03.400A1-	3,4		14	62	20	36	6	☺
	DC175-03-03.500A1-	3,5		14	62	20	36	6	☺
	DC175-03-03.572A1-	3,572	9/64"	14	62	20	36	6	☺
	DC175-03-03.600A1-	3,6		14	62	20	36	6	☺
	DC175-03-03.700A1-	3,7		14	62	20	36	6	☺
	DC175-03-03.800A1-	3,8		17	66	24	36	6	☺
	DC175-03-03.900A1-	3,9		17	66	24	36	6	☺
	DC175-03-03.969A1-	3,969	5/32"	17	66	24	36	6	☺
	DC175-03-04.000A1-	4		17	66	24	36	6	☺
	DC175-03-04.100A1-	4,1		17	66	24	36	6	☺
	DC175-03-04.200A1-	4,2		17	66	24	36	6	☺
	DC175-03-04.300A1-	4,3		17	66	24	36	6	☺
	DC175-03-04.366A1-	4,366	11/64"	17	66	24	36	6	☺
	DC175-03-04.400A1-	4,4		17	66	24	36	6	☺
	DC175-03-04.500A1-	4,5		17	66	24	36	6	☺
	DC175-03-04.600A1-	4,6		17	66	24	36	6	☺
	DC175-03-04.650A1-	4,65		17	66	24	36	6	☺
	DC175-03-04.700A1-	4,7		17	66	24	36	6	☺
	DC175-03-04.763A1-	4,763	3/16"	20	66	28	36	6	☺
	DC175-03-04.800A1-	4,8		20	66	28	36	6	☺
	DC175-03-04.900A1-	4,9		20	66	28	36	6	☺
	DC175-03-05.000A1-	5		20	66	28	36	6	☺
	DC175-03-05.100A1-	5,1		20	66	28	36	6	☺
	DC175-03-05.159A1-	5,159	13/64"	20	66	28	36	6	☺
	DC175-03-05.200A1-	5,2		20	66	28	36	6	☺
	DC175-03-05.300A1-	5,3		20	66	28	36	6	☺
	DC175-03-05.400A1-	5,4		20	66	28	36	6	☺
	DC175-03-05.500A1-	5,5		20	66	28	36	6	☺
	DC175-03-05.550A1-	5,55		20	66	28	36	6	☺
	DC175-03-05.556A1-	5,556	7/32"	20	66	28	36	6	☺

Exemplo de pedido para a classe WJ30RZ: DC175-03-03.000A1-WJ30RZ

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

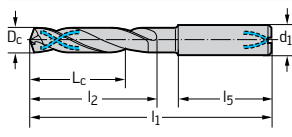
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30RZ
DC175-03-05.600A1-	5,6		20	66	28	36	6	☹
DC175-03-05.700A1-	5,7		20	66	28	36	6	☹
DC175-03-05.800A1-	5,8		20	66	28	36	6	☹
DC175-03-05.900A1-	5,9		20	66	28	36	6	☹
DC175-03-05.953A1-	5,953	15/64"	20	66	28	36	6	☹
DC175-03-06.000A1-	6		20	66	28	36	6	☹
DC175-03-06.100A1-	6,1		24	79	34	36	8	☹
DC175-03-06.200A1-	6,2		24	79	34	36	8	☹
DC175-03-06.300A1-	6,3		24	79	34	36	8	☹
DC175-03-06.350A1-	6,350	1/4"	24	79	34	36	8	☹
DC175-03-06.400A1-	6,4		24	79	34	36	8	☹
DC175-03-06.500A1-	6,5		24	79	34	36	8	☹
DC175-03-06.600A1-	6,6		24	79	34	36	8	☹
DC175-03-06.700A1-	6,7		24	79	34	36	8	☹
DC175-03-06.747A1-	6,747	17/64"	24	79	34	36	8	☹
DC175-03-06.800A1-	6,8		24	79	34	36	8	☹
DC175-03-06.900A1-	6,9		24	79	34	36	8	☹
DC175-03-07.000A1-	7		24	79	34	36	8	☹
DC175-03-07.100A1-	7,1		29	79	41	36	8	☹
DC175-03-07.144A1-	7,144	9/32"	29	79	41	36	8	☹
DC175-03-07.200A1-	7,2		29	79	41	36	8	☹
DC175-03-07.300A1-	7,3		29	79	41	36	8	☹
DC175-03-07.400A1-	7,4		29	79	41	36	8	☹
DC175-03-07.500A1-	7,5		29	79	41	36	8	☹
DC175-03-07.541A1-	7,541	19/64"	29	79	41	36	8	☹
DC175-03-07.600A1-	7,6		29	79	41	36	8	☹
DC175-03-07.700A1-	7,7		29	79	41	36	8	☹
DC175-03-07.800A1-	7,8		29	79	41	36	8	☹
DC175-03-07.900A1-	7,9		29	79	41	36	8	☹
DC175-03-07.938A1-	7,938	5/16"	29	79	41	36	8	☹
DC175-03-08.000A1-	8		29	79	41	36	8	☹
DC175-03-08.100A1-	8,1		35	89	47	40	10	☹
DC175-03-08.200A1-	8,2		35	89	47	40	10	☹
DC175-03-08.300A1-	8,3		35	89	47	40	10	☹
DC175-03-08.334A1-	8,334	21/64"	35	89	47	40	10	☹
DC175-03-08.400A1-	8,4		35	89	47	40	10	☹
DC175-03-08.500A1-	8,5		35	89	47	40	10	☹
DC175-03-08.600A1-	8,6		35	89	47	40	10	☹
DC175-03-08.700A1-	8,7		35	89	47	40	10	☹
DC175-03-08.731A1-	8,731	11/32"	35	89	47	40	10	☹
DC175-03-08.800A1-	8,8		35	89	47	40	10	☹
DC175-03-08.900A1-	8,9		35	89	47	40	10	☹
DC175-03-09.000A1-	9		35	89	47	40	10	☹
DC175-03-09.100A1-	9,1		35	89	47	40	10	☹
DC175-03-09.128A1-	9,128	23/64"	35	89	47	40	10	☹
DC175-03-09.200A1-	9,2		35	89	47	40	10	☹

Exemplo de pedido para a classe WJ30RZ: DC175-03-03.000A1-WJ30RZ

WALTER
SELECT

Ferramenta ideal para condições de usinagem

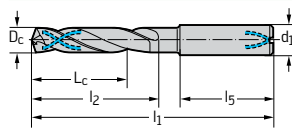
●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RZ
	Denominação								
	DC175-03-09.300A1-	9,3		35	89	47	40	10	☺
	DC175-03-09.400A1-	9,4		35	89	47	40	10	☺
	DC175-03-09.500A1-	9,5		35	89	47	40	10	☺
	DC175-03-09.525A1-	9,525	3/8"	35	89	47	40	10	☺
	DC175-03-09.600A1-	9,6		35	89	47	40	10	☺
	DC175-03-09.700A1-	9,7		35	89	47	40	10	☺
	DC175-03-09.800A1-	9,8		35	89	47	40	10	☺
	DC175-03-09.900A1-	9,9		35	89	47	40	10	☺
	DC175-03-09.922A1-	9,922	25/64"	35	89	47	40	10	☺
	DC175-03-10.000A1-	10		35	89	47	40	10	☺
	DC175-03-10.100A1-	10,1		40	102	55	45	12	☺
	DC175-03-10.200A1-	10,2		40	102	55	45	12	☺
	DC175-03-10.300A1-	10,3		40	102	55	45	12	☺
	DC175-03-10.319A1-	10,319	13/32"	40	102	55	45	12	☺
	DC175-03-10.400A1-	10,4		40	102	55	45	12	☺
	DC175-03-10.500A1-	10,5		40	102	55	45	12	☺
	DC175-03-10.600A1-	10,6		40	102	55	45	12	☺
	DC175-03-10.700A1-	10,7		40	102	55	45	12	☺
	DC175-03-10.716A1-	10,716	27/64"	40	102	55	45	12	☺
	DC175-03-10.800A1-	10,8		40	102	55	45	12	☺
	DC175-03-10.900A1-	10,9		40	102	55	45	12	☺
	DC175-03-11.000A1-	11		40	102	55	45	12	☺
	DC175-03-11.100A1-	11,1		40	102	55	45	12	☺
	DC175-03-11.113A1-	11,113	7/16"	40	102	55	45	12	☺
	DC175-03-11.200A1-	11,2		40	102	55	45	12	☺
	DC175-03-11.300A1-	11,3		40	102	55	45	12	☺
	DC175-03-11.400A1-	11,4		40	102	55	45	12	☺
	DC175-03-11.500A1-	11,5		40	102	55	45	12	☺
	DC175-03-11.509A1-	11,509	29/64"	40	102	55	45	12	☺
	DC175-03-11.600A1-	11,6		40	102	55	45	12	☺
	DC175-03-11.700A1-	11,7		40	102	55	45	12	☺
	DC175-03-11.800A1-	11,8		40	102	55	45	12	☺
	DC175-03-11.900A1-	11,9		40	102	55	45	12	☺
	DC175-03-12.000A1-	12		40	102	55	45	12	☺
	DC175-03-12.100A1-	12,1		43	107	60	45	14	☺
	DC175-03-12.200A1-	12,2		43	107	60	45	14	☺
	DC175-03-12.300A1-	12,3		43	107	60	45	14	☺
	DC175-03-12.303A1-	12,303	31/64"	43	107	60	45	14	☺
	DC175-03-12.500A1-	12,5		43	107	60	45	14	☺
	DC175-03-12.600A1-	12,6		43	107	60	45	14	☺
	DC175-03-12.700A1-	12,700	1/2"	43	107	60	45	14	☺
	DC175-03-12.900A1-	12,9		43	107	60	45	14	☺
	DC175-03-13.000A1-	13		43	107	60	45	14	☺
	DC175-03-13.100A1-	13,1		43	107	60	45	14	☺
	DC175-03-13.300A1-	13,3		43	107	60	45	14	☺
	DC175-03-13.494A1-	13,494	17/32"	43	107	60	45	14	☺

Exemplo de pedido para a classe WJ30RZ: DC175-03-03.000A1-WJ30RZ

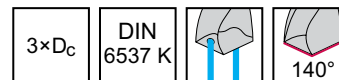
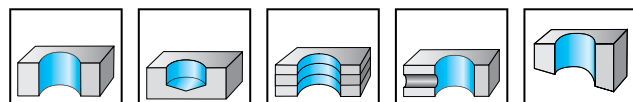
**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RZ
 DIN 6535 HA	Denominação								
	DC175-03-13.500A1-	13,5		43	107	60	45	14	☺
	DC175-03-13.800A1-	13,8		43	107	60	45	14	☺
	DC175-03-14.000A1-	14		43	107	60	45	14	☺
	DC175-03-14.200A1-	14,2		45	115	65	48	16	☺
	DC175-03-14.288A1-	14,288	9/16"	45	115	65	48	16	☺
	DC175-03-14.500A1-	14,5		45	115	65	48	16	☺
	DC175-03-14.750A1-	14,75		45	115	65	48	16	☺
	DC175-03-15.000A1-	15		45	115	65	48	16	☺
	DC175-03-15.100A1-	15,1		45	115	65	48	16	☺
	DC175-03-15.200A1-	15,2		45	115	65	48	16	☺
	DC175-03-15.300A1-	15,3		45	115	65	48	16	☺
	DC175-03-15.500A1-	15,5		45	115	65	48	16	☺
	DC175-03-15.800A1-	15,8		45	115	65	48	16	☺
	DC175-03-16.000A1-	16		45	115	65	48	16	☺
	DC175-03-16.500A1-	16,5		51	123	73	48	18	☺
	DC175-03-17.500A1-	17,5		51	123	73	48	18	☺
	DC175-03-18.000A1-	18		51	123	73	48	18	☺
	DC175-03-18.500A1-	18,5		55	131	79	50	20	☺
	DC175-03-19.000A1-	19		55	131	79	50	20	☺
	DC175-03-19.500A1-	19,5		55	131	79	50	20	☺
	DC175-03-20.000A1-	20		55	131	79	50	20	☺

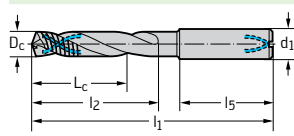
Exemplo de pedido para a classe WJ30RZ: DC175-03-03.000A1-WJ30RZ

Broca de metal duro com canal de refrigeração DC170 Supreme



	P	M	K	N	S	H	O
WJ30EJ	●●		●●			●	

B1

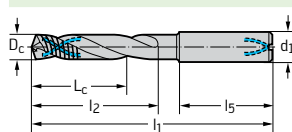
Ferramenta	Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
 DIN 6535 HA	DC170-03-03.000A1-	3		14	62	20	36	6	☺
	DC170-03-03.100A1-	3,1		14	62	20	36	6	☺
	DC170-03-03.175A1-	3,175	1/8"	14	62	20	36	6	☺
	DC170-03-03.200A1-	3,2		14	62	20	36	6	☺
	DC170-03-03.300A1-	3,3		14	62	20	36	6	☺
	DC170-03-03.400A1-	3,4		14	62	20	36	6	☺
	DC170-03-03.500A1-	3,5		14	62	20	36	6	☺
	DC170-03-03.572A1-	3,572	9/64"	14	62	20	36	6	☺
	DC170-03-03.600A1-	3,6		14	62	20	36	6	☺
	DC170-03-03.700A1-	3,7		14	62	20	36	6	☺
	DC170-03-03.800A1-	3,8		17	66	24	36	6	☺
	DC170-03-03.900A1-	3,9		17	66	24	36	6	☺
	DC170-03-03.969A1-	3,969	5/32"	17	66	24	36	6	☺
	DC170-03-04.000A1-	4		17	66	24	36	6	☺
	DC170-03-04.100A1-	4,1		17	66	24	36	6	☺
	DC170-03-04.200A1-	4,2		17	66	24	36	6	☺
	DC170-03-04.300A1-	4,3		17	66	24	36	6	☺
	DC170-03-04.366A1-	4,366	11/64"	17	66	24	36	6	☺
	DC170-03-04.400A1-	4,4		17	66	24	36	6	☺
	DC170-03-04.500A1-	4,5		17	66	24	36	6	☺
	DC170-03-04.600A1-	4,6		17	66	24	36	6	☺
	DC170-03-04.650A1-	4,65		17	66	24	36	6	☺
	DC170-03-04.700A1-	4,7		17	66	24	36	6	☺
	DC170-03-04.763A1-	4,763	3/16"	20	66	28	36	6	☺
	DC170-03-04.800A1-	4,8		20	66	28	36	6	☺
	DC170-03-04.900A1-	4,9		20	66	28	36	6	☺
	DC170-03-05.000A1-	5		20	66	28	36	6	☺
	DC170-03-05.100A1-	5,1		20	66	28	36	6	☺
	DC170-03-05.159A1-	5,159	13/64"	20	66	28	36	6	☺
	DC170-03-05.200A1-	5,2		20	66	28	36	6	☺
	DC170-03-05.300A1-	5,3		20	66	28	36	6	☺
	DC170-03-05.400A1-	5,4		20	66	28	36	6	☺
	DC170-03-05.500A1-	5,5		20	66	28	36	6	☺
	DC170-03-05.550A1-	5,55		20	66	28	36	6	☺
	DC170-03-05.556A1-	5,556	7/32"	20	66	28	36	6	☺
	DC170-03-05.600A1-	5,6		20	66	28	36	6	☺

Exemplo de pedido para a classe WJ30EJ: DC170-03-03.000A1-WJ30EJ

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

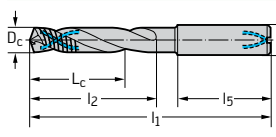
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30EJ
DC170-03-05.700A1-	5,7		20	66	28	36	6	☹
DC170-03-05.800A1-	5,8		20	66	28	36	6	☹
DC170-03-05.900A1-	5,9		20	66	28	36	6	☹
DC170-03-05.953A1-	5,953	15/64"	20	66	28	36	6	☹
DC170-03-06.000A1-	6		20	66	28	36	6	☹
DC170-03-06.100A1-	6,1		24	79	34	36	8	☹
DC170-03-06.200A1-	6,2		24	79	34	36	8	☹
DC170-03-06.300A1-	6,3		24	79	34	36	8	☹
DC170-03-06.350A1-	6,350	1/4"	24	79	34	36	8	☹
DC170-03-06.400A1-	6,4		24	79	34	36	8	☹
DC170-03-06.500A1-	6,5		24	79	34	36	8	☹
DC170-03-06.600A1-	6,6		24	79	34	36	8	☹
DC170-03-06.700A1-	6,7		24	79	34	36	8	☹
DC170-03-06.747A1-	6,747	17/64"	24	79	34	36	8	☹
DC170-03-06.800A1-	6,8		24	79	34	36	8	☹
DC170-03-06.900A1-	6,9		24	79	34	36	8	☹
DC170-03-07.000A1-	7		24	79	34	36	8	☹
DC170-03-07.100A1-	7,1		29	79	41	36	8	☹
DC170-03-07.144A1-	7,144	9/32"	29	79	41	36	8	☹
DC170-03-07.200A1-	7,2		29	79	41	36	8	☹
DC170-03-07.300A1-	7,3		29	79	41	36	8	☹
DC170-03-07.400A1-	7,4		29	79	41	36	8	☹
DC170-03-07.500A1-	7,5		29	79	41	36	8	☹
DC170-03-07.541A1-	7,541	19/64"	29	79	41	36	8	☹
DC170-03-07.800A1-	7,8		29	79	41	36	8	☹
DC170-03-07.900A1-	7,9		29	79	41	36	8	☹
DC170-03-07.938A1-	7,938	5/16"	29	79	41	36	8	☹
DC170-03-08.000A1-	8		29	79	41	36	8	☹
DC170-03-08.100A1-	8,1		35	89	47	40	10	☹
DC170-03-08.200A1-	8,2		35	89	47	40	10	☹
DC170-03-08.300A1-	8,3		35	89	47	40	10	☹
DC170-03-08.500A1-	8,5		35	89	47	40	10	☹
DC170-03-08.600A1-	8,6		35	89	47	40	10	☹
DC170-03-08.700A1-	8,7		35	89	47	40	10	☹
DC170-03-08.731A1-	8,731	11/32"	35	89	47	40	10	☹
DC170-03-08.800A1-	8,8		35	89	47	40	10	☹
DC170-03-09.000A1-	9		35	89	47	40	10	☹
DC170-03-09.128A1-	9,128	23/64"	35	89	47	40	10	☹
DC170-03-09.200A1-	9,2		35	89	47	40	10	☹
DC170-03-09.300A1-	9,3		35	89	47	40	10	☹
DC170-03-09.500A1-	9,5		35	89	47	40	10	☹
DC170-03-09.525A1-	9,525	3/8"	35	89	47	40	10	☹
DC170-03-09.600A1-	9,6		35	89	47	40	10	☹
DC170-03-09.700A1-	9,7		35	89	47	40	10	☹
DC170-03-09.800A1-	9,8		35	89	47	40	10	☹
DC170-03-09.922A1-	9,922	25/64"	35	89	47	40	10	☹

Exemplo de pedido para a classe WJ30EJ: DC170-03-03.000A1-WJ30EJ

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

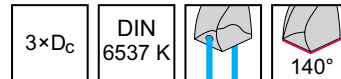
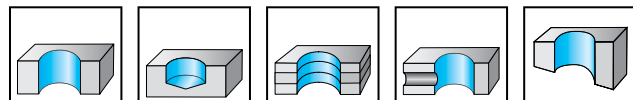
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
	DC170-03-10.000A1-	10		35	89	47	40	10	☺
	DC170-03-10.100A1-	10,1		40	102	55	45	12	☺
	DC170-03-10.200A1-	10,2		40	102	55	45	12	☺
	DC170-03-10.300A1-	10,3		40	102	55	45	12	☺
	DC170-03-10.319A1-	10,319	13/32"	40	102	55	45	12	☺
	DC170-03-10.400A1-	10,4		40	102	55	45	12	☺
	DC170-03-10.500A1-	10,5		40	102	55	45	12	☺
	DC170-03-10.716A1-	10,716	27/64"	40	102	55	45	12	☺
	DC170-03-10.800A1-	10,8		40	102	55	45	12	☺
	DC170-03-11.000A1-	11		40	102	55	45	12	☺
	DC170-03-11.100A1-	11,1		40	102	55	45	12	☺
	DC170-03-11.113A1-	11,113	7/16"	40	102	55	45	12	☺
	DC170-03-11.200A1-	11,2		40	102	55	45	12	☺
	DC170-03-11.500A1-	11,5		40	102	55	45	12	☺
	DC170-03-11.509A1-	11,509	29/64"	40	102	55	45	12	☺
	DC170-03-11.700A1-	11,7		40	102	55	45	12	☺
	DC170-03-11.800A1-	11,8		40	102	55	45	12	☺
	DC170-03-12.000A1-	12		40	102	55	45	12	☺
	DC170-03-12.100A1-	12,1		43	107	60	45	14	☺
	DC170-03-12.200A1-	12,2		43	107	60	45	14	☺
	DC170-03-12.300A1-	12,3		43	107	60	45	14	☺
	DC170-03-12.500A1-	12,5		43	107	60	45	14	☺
	DC170-03-12.600A1-	12,6		43	107	60	45	14	☺
	DC170-03-12.700A1-	12,700	1/2"	43	107	60	45	14	☺
	DC170-03-13.000A1-	13		43	107	60	45	14	☺
	DC170-03-13.300A1-	13,3		43	107	60	45	14	☺
	DC170-03-13.494A1-	13,494	17/32"	43	107	60	45	14	☺
	DC170-03-13.500A1-	13,5		43	107	60	45	14	☺
	DC170-03-14.000A1-	14		43	107	60	45	14	☺
	DC170-03-14.288A1-	14,288	9/16"	45	115	65	48	16	☺
	DC170-03-14.500A1-	14,5		45	115	65	48	16	☺
	DC170-03-15.000A1-	15		45	115	65	48	16	☺
	DC170-03-15.875A1-	15,875	5/8"	45	115	65	48	16	☺
	DC170-03-16.000A1-	16		45	115	65	48	16	☺
	DC170-03-16.500A1-	16,5		51	123	73	48	18	☺
	DC170-03-17.000A1-	17		51	123	73	48	18	☺
	DC170-03-17.500A1-	17,5		51	123	73	48	18	☺
	DC170-03-18.000A1-	18		51	123	73	48	18	☺
	DC170-03-19.050A1-	19,050	3/4"	55	131	79	50	20	☺
	DC170-03-20.000A1-	20		55	131	79	50	20	☺

Exemplo de pedido para a classe WJ30EJ: DC170-03-03.000A1-WJ30EJ

Broca de metal duro com canal de refrigeração

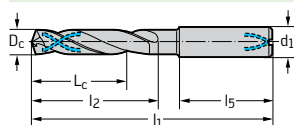
DC160 Advance

X-treme Evo



	P	M	K	N	S	H	O
WJ30ET	●	●	●	●	●	●	●

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-03-03.000A1-	3		14	62	20	36	6	☺
DC160-03-03.100A1-	3,1		14	62	20	36	6	☺
DC160-03-03.175A1-	3,175	1/8"	14	62	20	36	6	☺
DC160-03-03.200A1-	3,2		14	62	20	36	6	☺
DC160-03-03.250A1-	3,25		14	62	20	36	6	☺
DC160-03-03.300A1-	3,3		14	62	20	36	6	☺
DC160-03-03.400A1-	3,4		14	62	20	36	6	☺
DC160-03-03.500A1-	3,5		14	62	20	36	6	☺
DC160-03-03.572A1-	3,572	9/64"	14	62	20	36	6	☺
DC160-03-03.600A1-	3,6		14	62	20	36	6	☺
DC160-03-03.650A1-	3,65		14	62	20	36	6	☺
DC160-03-03.700A1-	3,7		14	62	20	36	6	☺
DC160-03-03.800A1-	3,8		17	66	24	36	6	☺
DC160-03-03.900A1-	3,9		17	66	24	36	6	☺
DC160-03-03.969A1-	3,969	5/32"	17	66	24	36	6	☺
DC160-03-04.000A1-	4		17	66	24	36	6	☺
DC160-03-04.100A1-	4,1		17	66	24	36	6	☺
DC160-03-04.200A1-	4,2		17	66	24	36	6	☺
DC160-03-04.300A1-	4,3		17	66	24	36	6	☺
DC160-03-04.366A1-	4,366	11/64"	17	66	24	36	6	☺
DC160-03-04.400A1-	4,4		17	66	24	36	6	☺
DC160-03-04.500A1-	4,5		17	66	24	36	6	☺
DC160-03-04.600A1-	4,6		17	66	24	36	6	☺
DC160-03-04.650A1-	4,65		17	66	24	36	6	☺
DC160-03-04.700A1-	4,7		17	66	24	36	6	☺
DC160-03-04.763A1-	4,763	3/16"	20	66	28	36	6	☺
DC160-03-04.800A1-	4,8		20	66	28	36	6	☺
DC160-03-04.900A1-	4,9		20	66	28	36	6	☺
DC160-03-05.000A1-	5		20	66	28	36	6	☺
DC160-03-05.100A1-	5,1		20	66	28	36	6	☺
DC160-03-05.159A1-	5,159	13/64"	20	66	28	36	6	☺
DC160-03-05.200A1-	5,2		20	66	28	36	6	☺
DC160-03-05.300A1-	5,3		20	66	28	36	6	☺
DC160-03-05.400A1-	5,4		20	66	28	36	6	☺
DC160-03-05.500A1-	5,5		20	66	28	36	6	☺
DC160-03-05.550A1-	5,55		20	66	28	36	6	☺

Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A1-WJ30ET

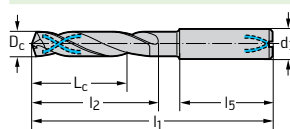
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

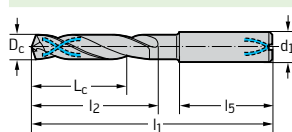
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-03-05.556A1-	5,556	7/32"	20	66	28	36	6	☹
DC160-03-05.600A1-	5,6		20	66	28	36	6	☹
DC160-03-05.700A1-	5,7		20	66	28	36	6	☹
DC160-03-05.800A1-	5,8		20	66	28	36	6	☹
DC160-03-05.900A1-	5,9		20	66	28	36	6	☹
DC160-03-05.953A1-	5,953	15/64"	20	66	28	36	6	☹
DC160-03-06.000A1-	6		20	66	28	36	6	☹
DC160-03-06.100A1-	6,1		24	79	34	36	8	☹
DC160-03-06.200A1-	6,2		24	79	34	36	8	☹
DC160-03-06.300A1-	6,3		24	79	34	36	8	☹
DC160-03-06.350A1-	6,350	1/4"	24	79	34	36	8	☹
DC160-03-06.400A1-	6,4		24	79	34	36	8	☹
DC160-03-06.500A1-	6,5		24	79	34	36	8	☹
DC160-03-06.600A1-	6,6		24	79	34	36	8	☹
DC160-03-06.700A1-	6,7		24	79	34	36	8	☹
DC160-03-06.747A1-	6,747	17/64"	24	79	34	36	8	☹
DC160-03-06.800A1-	6,8		24	79	34	36	8	☹
DC160-03-06.900A1-	6,9		24	79	34	36	8	☹
DC160-03-07.000A1-	7		24	79	34	36	8	☹
DC160-03-07.100A1-	7,1		29	79	41	36	8	☹
DC160-03-07.144A1-	7,144	9/32"	29	79	41	36	8	☹
DC160-03-07.200A1-	7,2		29	79	41	36	8	☹
DC160-03-07.300A1-	7,3		29	79	41	36	8	☹
DC160-03-07.400A1-	7,4		29	79	41	36	8	☹
DC160-03-07.500A1-	7,5		29	79	41	36	8	☹
DC160-03-07.541A1-	7,541	19/64"	29	79	41	36	8	☹
DC160-03-07.550A1-	7,55		29	79	41	36	8	☹
DC160-03-07.600A1-	7,6		29	79	41	36	8	☹
DC160-03-07.700A1-	7,7		29	79	41	36	8	☹
DC160-03-07.800A1-	7,8		29	79	41	36	8	☹
DC160-03-07.900A1-	7,9		29	79	41	36	8	☹
DC160-03-07.938A1-	7,938	5/16"	29	79	41	36	8	☹
DC160-03-08.000A1-	8		29	79	41	36	8	☹
DC160-03-08.100A1-	8,1		35	89	47	40	10	☹
DC160-03-08.200A1-	8,2		35	89	47	40	10	☹
DC160-03-08.300A1-	8,3		35	89	47	40	10	☹
DC160-03-08.334A1-	8,334	21/64"	35	89	47	40	10	☹
DC160-03-08.400A1-	8,4		35	89	47	40	10	☹
DC160-03-08.500A1-	8,5		35	89	47	40	10	☹
DC160-03-08.600A1-	8,6		35	89	47	40	10	☹
DC160-03-08.700A1-	8,7		35	89	47	40	10	☹
DC160-03-08.731A1-	8,731	11/32"	35	89	47	40	10	☹
DC160-03-08.800A1-	8,8		35	89	47	40	10	☹
DC160-03-08.900A1-	8,9		35	89	47	40	10	☹
DC160-03-09.000A1-	9		35	89	47	40	10	☹
DC160-03-09.100A1-	9,1		35	89	47	40	10	☹

Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A1-WJ30ET

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-03-09.128A1-	9,128	23/64"	35	89	47	40	10	☹
DC160-03-09.200A1-	9,2		35	89	47	40	10	☹
DC160-03-09.300A1-	9,3		35	89	47	40	10	☹
DC160-03-09.400A1-	9,4		35	89	47	40	10	☹
DC160-03-09.500A1-	9,5		35	89	47	40	10	☹
DC160-03-09.525A1-	9,525	3/8"	35	89	47	40	10	☹
DC160-03-09.550A1-	9,55		35	89	47	40	10	☹
DC160-03-09.600A1-	9,6		35	89	47	40	10	☹
DC160-03-09.700A1-	9,7		35	89	47	40	10	☹
DC160-03-09.800A1-	9,8		35	89	47	40	10	☹
DC160-03-09.900A1-	9,9		35	89	47	40	10	☹
DC160-03-09.922A1-	9,922	25/64"	35	89	47	40	10	☹
DC160-03-10.000A1-	10		35	89	47	40	10	☹
DC160-03-10.100A1-	10,1		40	102	55	45	12	☹
DC160-03-10.200A1-	10,2		40	102	55	45	12	☹
DC160-03-10.300A1-	10,3		40	102	55	45	12	☹
DC160-03-10.319A1-	10,319	13/32"	40	102	55	45	12	☹
DC160-03-10.400A1-	10,4		40	102	55	45	12	☹
DC160-03-10.500A1-	10,5		40	102	55	45	12	☹
DC160-03-10.600A1-	10,6		40	102	55	45	12	☹
DC160-03-10.700A1-	10,7		40	102	55	45	12	☹
DC160-03-10.716A1-	10,716	27/64"	40	102	55	45	12	☹
DC160-03-10.800A1-	10,8		40	102	55	45	12	☹
DC160-03-10.900A1-	10,9		40	102	55	45	12	☹
DC160-03-11.000A1-	11		40	102	55	45	12	☹
DC160-03-11.100A1-	11,1		40	102	55	45	12	☹
DC160-03-11.113A1-	11,113	7/16"	40	102	55	45	12	☹
DC160-03-11.200A1-	11,2		40	102	55	45	12	☹
DC160-03-11.300A1-	11,3		40	102	55	45	12	☹
DC160-03-11.400A1-	11,4		40	102	55	45	12	☹
DC160-03-11.500A1-	11,5		40	102	55	45	12	☹
DC160-03-11.509A1-	11,509	29/64"	40	102	55	45	12	☹
DC160-03-11.550A1-	11,55		40	102	55	45	12	☹
DC160-03-11.600A1-	11,6		40	102	55	45	12	☹
DC160-03-11.700A1-	11,7		40	102	55	45	12	☹
DC160-03-11.800A1-	11,8		40	102	55	45	12	☹
DC160-03-11.900A1-	11,9		40	102	55	45	12	☹
DC160-03-11.906A1-	11,906	15/32"	40	102	55	45	12	☹
DC160-03-12.000A1-	12		40	102	55	45	12	☹
DC160-03-12.100A1-	12,1		43	107	60	45	14	☹
DC160-03-12.200A1-	12,2		43	107	60	45	14	☹
DC160-03-12.250A1-	12,25		43	107	60	45	14	☹
DC160-03-12.300A1-	12,3		43	107	60	45	14	☹
DC160-03-12.303A1-	12,303	31/64"	43	107	60	45	14	☹
DC160-03-12.400A1-	12,4		43	107	60	45	14	☹
DC160-03-12.500A1-	12,5		43	107	60	45	14	☹

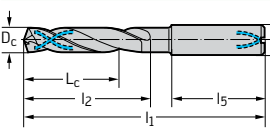
Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A1-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

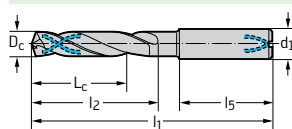
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Denominação								
	DC160-03-12.600A1-	12,6		43	107	60	45	14	☺
	DC160-03-12.700A1-	12,700	1/2"	43	107	60	45	14	☺
	DC160-03-12.750A1-	12,75		43	107	60	45	14	☺
	DC160-03-12.800A1-	12,8		43	107	60	45	14	☺
	DC160-03-12.900A1-	12,9		43	107	60	45	14	☺
	DC160-03-13.000A1-	13		43	107	60	45	14	☺
	DC160-03-13.100A1-	13,1		43	107	60	45	14	☺
	DC160-03-13.200A1-	13,2		43	107	60	45	14	☺
	DC160-03-13.300A1-	13,3		43	107	60	45	14	☺
	DC160-03-13.400A1-	13,4		43	107	60	45	14	☺
	DC160-03-13.494A1-	13,494	17/32"	43	107	60	45	14	☺
	DC160-03-13.500A1-	13,5		43	107	60	45	14	☺
	DC160-03-13.600A1-	13,6		43	107	60	45	14	☺
	DC160-03-13.700A1-	13,7		43	107	60	45	14	☺
	DC160-03-13.800A1-	13,8		43	107	60	45	14	☺
	DC160-03-13.900A1-	13,9		43	107	60	45	14	☺
	DC160-03-14.000A1-	14		43	107	60	45	14	☺
	DC160-03-14.100A1-	14,1		45	115	65	48	16	☺
	DC160-03-14.200A1-	14,2		45	115	65	48	16	☺
	DC160-03-14.288A1-	14,288	9/16"	45	115	65	48	16	☺
	DC160-03-14.300A1-	14,3		45	115	65	48	16	☺
	DC160-03-14.400A1-	14,4		45	115	65	48	16	☺
	DC160-03-14.500A1-	14,5		45	115	65	48	16	☺
	DC160-03-14.600A1-	14,6		45	115	65	48	16	☺
	DC160-03-14.700A1-	14,7		45	115	65	48	16	☺
	DC160-03-14.800A1-	14,8		45	115	65	48	16	☺
	DC160-03-15.000A1-	15		45	115	65	48	16	☺
	DC160-03-15.100A1-	15,1		45	115	65	48	16	☺
	DC160-03-15.200A1-	15,2		45	115	65	48	16	☺
	DC160-03-15.300A1-	15,3		45	115	65	48	16	☺
	DC160-03-15.500A1-	15,5		45	115	65	48	16	☺
	DC160-03-15.600A1-	15,6		45	115	65	48	16	☺
	DC160-03-15.700A1-	15,7		45	115	65	48	16	☺
	DC160-03-15.800A1-	15,8		45	115	65	48	16	☺
	DC160-03-15.875A1-	15,875	5/8"	45	115	65	48	16	☺
	DC160-03-15.900A1-	15,9		45	115	65	48	16	☺
	DC160-03-16.000A1-	16		45	115	65	48	16	☺
	DC160-03-16.100A1-	16,1		51	123	73	48	18	☺
	DC160-03-16.200A1-	16,2		51	123	73	48	18	☺
	DC160-03-16.300A1-	16,3		51	123	73	48	18	☺
	DC160-03-16.400A1-	16,4		51	123	73	48	18	☺
	DC160-03-16.500A1-	16,5		51	123	73	48	18	☺
	DC160-03-16.600A1-	16,6		51	123	73	48	18	☺
	DC160-03-16.700A1-	16,7		51	123	73	48	18	☺
	DC160-03-16.750A1-	16,75		51	123	73	48	18	☺
	DC160-03-16.800A1-	16,8		51	123	73	48	18	☺

Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A1-WJ30ET

WALTER
SELECT

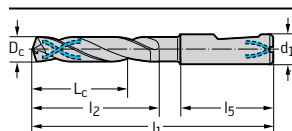
●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1



DIN 6535 HE

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-03-17.000A1-	17		51	123	73	48	18	☹
DC160-03-17.200A1-	17,2		51	123	73	48	18	☹
DC160-03-17.300A1-	17,3		51	123	73	48	18	☹
DC160-03-17.500A1-	17,5		51	123	73	48	18	☹
DC160-03-17.600A1-	17,6		51	123	73	48	18	☹
DC160-03-17.700A1-	17,7		51	123	73	48	18	☹
DC160-03-17.800A1-	17,8		51	123	73	48	18	☹
DC160-03-18.000A1-	18		51	123	73	48	18	☹
DC160-03-18.200A1-	18,2		55	131	79	50	20	☹
DC160-03-18.500A1-	18,5		55	131	79	50	20	☹
DC160-03-18.700A1-	18,7		55	131	79	50	20	☹
DC160-03-18.800A1-	18,8		55	131	79	50	20	☹
DC160-03-19.000A1-	19		55	131	79	50	20	☹
DC160-03-19.050A1-	19,050	3/4"	55	131	79	50	20	☹
DC160-03-19.500A1-	19,5		55	131	79	50	20	☹
DC160-03-19.700A1-	19,7		55	131	79	50	20	☹
DC160-03-19.800A1-	19,8		55	131	79	50	20	☹
DC160-03-20.000A1-	20		55	131	79	50	20	☹
DC160-03-03.000F1-	3		14	62	20	36	6	☹
DC160-03-03.100F1-	3,1		14	62	20	36	6	☹
DC160-03-03.200F1-	3,2		14	62	20	36	6	☹
DC160-03-03.250F1-	3,25		14	62	20	36	6	☹
DC160-03-03.300F1-	3,3		14	62	20	36	6	☹
DC160-03-03.400F1-	3,4		14	62	20	36	6	☹
DC160-03-03.500F1-	3,5		14	62	20	36	6	☹
DC160-03-03.600F1-	3,6		14	62	20	36	6	☹
DC160-03-03.650F1-	3,65		14	62	20	36	6	☹
DC160-03-03.700F1-	3,7		14	62	20	36	6	☹
DC160-03-03.800F1-	3,8		17	66	24	36	6	☹
DC160-03-03.900F1-	3,9		17	66	24	36	6	☹
DC160-03-04.000F1-	4		17	66	24	36	6	☹
DC160-03-04.100F1-	4,1		17	66	24	36	6	☹
DC160-03-04.200F1-	4,2		17	66	24	36	6	☹
DC160-03-04.300F1-	4,3		17	66	24	36	6	☹
DC160-03-04.400F1-	4,4		17	66	24	36	6	☹
DC160-03-04.500F1-	4,5		17	66	24	36	6	☹
DC160-03-04.600F1-	4,6		17	66	24	36	6	☹
DC160-03-04.650F1-	4,65		17	66	24	36	6	☹
DC160-03-04.700F1-	4,7		17	66	24	36	6	☹
DC160-03-04.800F1-	4,8		20	66	28	36	6	☹
DC160-03-04.900F1-	4,9		20	66	28	36	6	☹
DC160-03-05.000F1-	5		20	66	28	36	6	☹
DC160-03-05.100F1-	5,1		20	66	28	36	6	☹
DC160-03-05.200F1-	5,2		20	66	28	36	6	☹
DC160-03-05.300F1-	5,3		20	66	28	36	6	☹
DC160-03-05.400F1-	5,4		20	66	28	36	6	☹

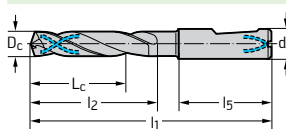
Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A1-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HE

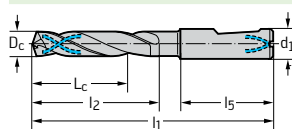
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-03-05.500F1-	5,5		20	66	28	36	6	☺
DC160-03-05.550F1-	5,55		20	66	28	36	6	☺
DC160-03-05.600F1-	5,6		20	66	28	36	6	☺
DC160-03-05.700F1-	5,7		20	66	28	36	6	☺
DC160-03-05.800F1-	5,8		20	66	28	36	6	☺
DC160-03-05.900F1-	5,9		20	66	28	36	6	☺
DC160-03-06.000F1-	6		20	66	28	36	6	☺
DC160-03-06.100F1-	6,1		24	79	34	36	8	☺
DC160-03-06.200F1-	6,2		24	79	34	36	8	☺
DC160-03-06.300F1-	6,3		24	79	34	36	8	☺
DC160-03-06.400F1-	6,4		24	79	34	36	8	☺
DC160-03-06.500F1-	6,5		24	79	34	36	8	☺
DC160-03-06.600F1-	6,6		24	79	34	36	8	☺
DC160-03-06.700F1-	6,7		24	79	34	36	8	☺
DC160-03-06.800F1-	6,8		24	79	34	36	8	☺
DC160-03-06.900F1-	6,9		24	79	34	36	8	☺
DC160-03-07.000F1-	7		24	79	34	36	8	☺
DC160-03-07.100F1-	7,1		29	79	41	36	8	☺
DC160-03-07.200F1-	7,2		29	79	41	36	8	☺
DC160-03-07.300F1-	7,3		29	79	41	36	8	☺
DC160-03-07.400F1-	7,4		29	79	41	36	8	☺
DC160-03-07.500F1-	7,5		29	79	41	36	8	☺
DC160-03-07.550F1-	7,55		29	79	41	36	8	☺
DC160-03-07.600F1-	7,6		29	79	41	36	8	☺
DC160-03-07.700F1-	7,7		29	79	41	36	8	☺
DC160-03-07.800F1-	7,8		29	79	41	36	8	☺
DC160-03-07.900F1-	7,9		29	79	41	36	8	☺
DC160-03-08.000F1-	8		29	79	41	36	8	☺
DC160-03-08.100F1-	8,1		35	89	47	40	10	☺
DC160-03-08.200F1-	8,2		35	89	47	40	10	☺
DC160-03-08.300F1-	8,3		35	89	47	40	10	☺
DC160-03-08.400F1-	8,4		35	89	47	40	10	☺
DC160-03-08.500F1-	8,5		35	89	47	40	10	☺
DC160-03-08.600F1-	8,6		35	89	47	40	10	☺
DC160-03-08.700F1-	8,7		35	89	47	40	10	☺
DC160-03-08.800F1-	8,8		35	89	47	40	10	☺
DC160-03-08.900F1-	8,9		35	89	47	40	10	☺
DC160-03-09.000F1-	9		35	89	47	40	10	☺
DC160-03-09.100F1-	9,1		35	89	47	40	10	☺
DC160-03-09.200F1-	9,2		35	89	47	40	10	☺
DC160-03-09.300F1-	9,3		35	89	47	40	10	☺
DC160-03-09.400F1-	9,4		35	89	47	40	10	☺
DC160-03-09.500F1-	9,5		35	89	47	40	10	☺
DC160-03-09.600F1-	9,6		35	89	47	40	10	☺
DC160-03-09.700F1-	9,7		35	89	47	40	10	☺
DC160-03-09.800F1-	9,8		35	89	47	40	10	☺

Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A1-WJ30ET

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HE

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-03-09.900F1-	9,9		35	89	47	40	10	☹
DC160-03-10.000F1-	10		35	89	47	40	10	☹
DC160-03-10.100F1-	10,1		40	102	55	45	12	☹
DC160-03-10.200F1-	10,2		40	102	55	45	12	☹
DC160-03-10.300F1-	10,3		40	102	55	45	12	☹
DC160-03-10.400F1-	10,4		40	102	55	45	12	☹
DC160-03-10.500F1-	10,5		40	102	55	45	12	☹
DC160-03-10.600F1-	10,6		40	102	55	45	12	☹
DC160-03-10.700F1-	10,7		40	102	55	45	12	☹
DC160-03-10.800F1-	10,8		40	102	55	45	12	☹
DC160-03-10.900F1-	10,9		40	102	55	45	12	☹
DC160-03-11.000F1-	11		40	102	55	45	12	☹
DC160-03-11.100F1-	11,1		40	102	55	45	12	☹
DC160-03-11.200F1-	11,2		40	102	55	45	12	☹
DC160-03-11.300F1-	11,3		40	102	55	45	12	☹
DC160-03-11.400F1-	11,4		40	102	55	45	12	☹
DC160-03-11.500F1-	11,5		40	102	55	45	12	☹
DC160-03-11.550F1-	11,55		40	102	55	45	12	☹
DC160-03-11.600F1-	11,6		40	102	55	45	12	☹
DC160-03-11.700F1-	11,7		40	102	55	45	12	☹
DC160-03-11.800F1-	11,8		40	102	55	45	12	☹
DC160-03-11.900F1-	11,9		40	102	55	45	12	☹
DC160-03-12.000F1-	12		40	102	55	45	12	☹
DC160-03-12.100F1-	12,1		43	107	60	45	14	☹
DC160-03-12.200F1-	12,2		43	107	60	45	14	☹
DC160-03-12.250F1-	12,25		43	107	60	45	14	☹
DC160-03-12.300F1-	12,3		43	107	60	45	14	☹
DC160-03-12.400F1-	12,4		43	107	60	45	14	☹
DC160-03-12.500F1-	12,5		43	107	60	45	14	☹
DC160-03-12.600F1-	12,6		43	107	60	45	14	☹
DC160-03-12.700F1-	12,700	1/2"	43	107	60	45	14	☹
DC160-03-12.800F1-	12,8		43	107	60	45	14	☹
DC160-03-12.900F1-	12,9		43	107	60	45	14	☹
DC160-03-13.000F1-	13		43	107	60	45	14	☹
DC160-03-13.100F1-	13,1		43	107	60	45	14	☹
DC160-03-13.200F1-	13,2		43	107	60	45	14	☹
DC160-03-13.300F1-	13,3		43	107	60	45	14	☹
DC160-03-13.400F1-	13,4		43	107	60	45	14	☹
DC160-03-13.500F1-	13,5		43	107	60	45	14	☹
DC160-03-13.600F1-	13,6		43	107	60	45	14	☹
DC160-03-13.700F1-	13,7		43	107	60	45	14	☹
DC160-03-13.800F1-	13,8		43	107	60	45	14	☹
DC160-03-13.900F1-	13,9		43	107	60	45	14	☹
DC160-03-14.000F1-	14		43	107	60	45	14	☹
DC160-03-14.100F1-	14,1		45	115	65	48	16	☹
DC160-03-14.200F1-	14,2		45	115	65	48	16	☹

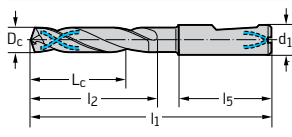
Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A1-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

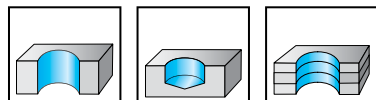
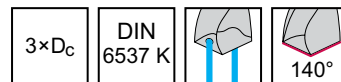
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Denominação								
	DC160-03-14.300F1-	14,3		45	115	65	48	16	☹
	DC160-03-14.400F1-	14,4		45	115	65	48	16	☹
	DC160-03-14.500F1-	14,5		45	115	65	48	16	☹
	DC160-03-14.600F1-	14,6		45	115	65	48	16	☹
	DC160-03-14.700F1-	14,7		45	115	65	48	16	☹
	DC160-03-14.800F1-	14,8		45	115	65	48	16	☹
	DC160-03-15.000F1-	15		45	115	65	48	16	☹
	DC160-03-15.100F1-	15,1		45	115	65	48	16	☹
	DC160-03-15.200F1-	15,2		45	115	65	48	16	☹
	DC160-03-15.300F1-	15,3		45	115	65	48	16	☹
	DC160-03-15.500F1-	15,5		45	115	65	48	16	☹
	DC160-03-15.600F1-	15,6		45	115	65	48	16	☹
	DC160-03-15.700F1-	15,7		45	115	65	48	16	☹
	DC160-03-15.800F1-	15,8		45	115	65	48	16	☹
	DC160-03-15.900F1-	15,9		45	115	65	48	16	☹
	DC160-03-16.000F1-	16		45	115	65	48	16	☹
	DC160-03-16.100F1-	16,1		51	123	73	48	18	☹
	DC160-03-16.200F1-	16,2		51	123	73	48	18	☹
	DC160-03-16.300F1-	16,3		51	123	73	48	18	☹
	DC160-03-16.400F1-	16,4		51	123	73	48	18	☹
	DC160-03-16.500F1-	16,5		51	123	73	48	18	☹
	DC160-03-16.600F1-	16,6		51	123	73	48	18	☹
	DC160-03-16.700F1-	16,7		51	123	73	48	18	☹
	DC160-03-16.800F1-	16,8		51	123	73	48	18	☹
	DC160-03-17.000F1-	17		51	123	73	48	18	☹
	DC160-03-17.200F1-	17,2		51	123	73	48	18	☹
	DC160-03-17.300F1-	17,3		51	123	73	48	18	☹
	DC160-03-17.500F1-	17,5		51	123	73	48	18	☹
	DC160-03-17.600F1-	17,6		51	123	73	48	18	☹
	DC160-03-17.700F1-	17,7		51	123	73	48	18	☹
	DC160-03-17.800F1-	17,8		51	123	73	48	18	☹
	DC160-03-18.000F1-	18		51	123	73	48	18	☹
	DC160-03-18.200F1-	18,2		55	131	79	50	20	☹
	DC160-03-18.500F1-	18,5		55	131	79	50	20	☹
	DC160-03-18.700F1-	18,7		55	131	79	50	20	☹
	DC160-03-18.800F1-	18,8		55	131	79	50	20	☹
	DC160-03-19.000F1-	19		55	131	79	50	20	☹
	DC160-03-19.500F1-	19,5		55	131	79	50	20	☹
	DC160-03-19.700F1-	19,7		55	131	79	50	20	☹
	DC160-03-19.800F1-	19,8		55	131	79	50	20	☹
	DC160-03-20.000F1-	20		55	131	79	50	20	☹

Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A1-WJ30ET

Broca de metal duro com canal de refrigeração

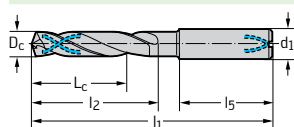
DC150 Perform



B1

	P	M	K	N	S	H	O
WJ30RE	●	●	●	●	●	●	●

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DC150-03-03.000A1-	3		14	62	20	36	6	☺
DC150-03-03.100A1-	3,1		14	62	20	36	6	☺
DC150-03-03.175A1-	3,175	1/8"	14	62	20	36	6	☺
DC150-03-03.200A1-	3,2		14	62	20	36	6	☺
DC150-03-03.250A1-	3,25		14	62	20	36	6	☺
DC150-03-03.300A1-	3,3		14	62	20	36	6	☺
DC150-03-03.400A1-	3,4		14	62	20	36	6	☺
DC150-03-03.500A1-	3,5		14	62	20	36	6	☺
DC150-03-03.572A1-	3,572	9/64"	14	62	20	36	6	☺
DC150-03-03.600A1-	3,6		14	62	20	36	6	☺
DC150-03-03.650A1-	3,65		14	62	20	36	6	☺
DC150-03-03.700A1-	3,7		14	62	20	36	6	☺
DC150-03-03.800A1-	3,8		17	66	24	36	6	☺
DC150-03-03.900A1-	3,9		17	66	24	36	6	☺
DC150-03-03.969A1-	3,969	5/32"	17	66	24	36	6	☺
DC150-03-04.000A1-	4		17	66	24	36	6	☺
DC150-03-04.100A1-	4,1		17	66	24	36	6	☺
DC150-03-04.200A1-	4,2		17	66	24	36	6	☺
DC150-03-04.300A1-	4,3		17	66	24	36	6	☺
DC150-03-04.366A1-	4,366	11/64"	17	66	24	36	6	☺
DC150-03-04.400A1-	4,4		17	66	24	36	6	☺
DC150-03-04.500A1-	4,5		17	66	24	36	6	☺
DC150-03-04.600A1-	4,6		17	66	24	36	6	☺
DC150-03-04.650A1-	4,65		17	66	24	36	6	☺
DC150-03-04.700A1-	4,7		17	66	24	36	6	☺
DC150-03-04.763A1-	4,763	3/16"	20	66	28	36	6	☺
DC150-03-04.800A1-	4,8		20	66	28	36	6	☺
DC150-03-04.900A1-	4,9		20	66	28	36	6	☺
DC150-03-05.000A1-	5		20	66	28	36	6	☺
DC150-03-05.100A1-	5,1		20	66	28	36	6	☺
DC150-03-05.159A1-	5,159	13/64"	20	66	28	36	6	☺
DC150-03-05.200A1-	5,2		20	66	28	36	6	☺
DC150-03-05.300A1-	5,3		20	66	28	36	6	☺
DC150-03-05.400A1-	5,4		20	66	28	36	6	☺
DC150-03-05.500A1-	5,5		20	66	28	36	6	☺
DC150-03-05.550A1-	5,55		20	66	28	36	6	☺

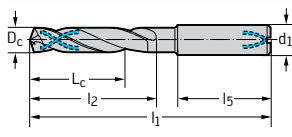
Exemplo de pedido para a classe WJ30RE: DC150-03-03.000A1-WJ30RE

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

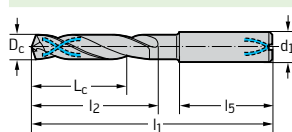
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
	Denominação								
	DC150-03-05.556A1-	5,556	7/32"	20	66	28	36	6	☹
	DC150-03-05.600A1-	5,6		20	66	28	36	6	☹
	DC150-03-05.700A1-	5,7		20	66	28	36	6	☹
	DC150-03-05.800A1-	5,8		20	66	28	36	6	☹
	DC150-03-05.900A1-	5,9		20	66	28	36	6	☹
	DC150-03-05.953A1-	5,953	15/64"	20	66	28	36	6	☹
	DC150-03-06.000A1-	6		20	66	28	36	6	☹
	DC150-03-06.100A1-	6,1		24	79	34	36	8	☹
	DC150-03-06.200A1-	6,2		24	79	34	36	8	☹
	DC150-03-06.300A1-	6,3		24	79	34	36	8	☹
	DC150-03-06.350A1-	6,350	1/4"	24	79	34	36	8	☹
	DC150-03-06.400A1-	6,4		24	79	34	36	8	☹
	DC150-03-06.500A1-	6,5		24	79	34	36	8	☹
	DC150-03-06.600A1-	6,6		24	79	34	36	8	☹
	DC150-03-06.700A1-	6,7		24	79	34	36	8	☹
	DC150-03-06.747A1-	6,747	17/64"	24	79	34	36	8	☹
	DC150-03-06.800A1-	6,8		24	79	34	36	8	☹
	DC150-03-06.900A1-	6,9		24	79	34	36	8	☹
	DC150-03-07.000A1-	7		24	79	34	36	8	☹
	DC150-03-07.100A1-	7,1		29	79	41	36	8	☹
	DC150-03-07.144A1-	7,144	9/32"	29	79	41	36	8	☹
	DC150-03-07.200A1-	7,2		29	79	41	36	8	☹
	DC150-03-07.300A1-	7,3		29	79	41	36	8	☹
	DC150-03-07.400A1-	7,4		29	79	41	36	8	☹
	DC150-03-07.500A1-	7,5		29	79	41	36	8	☹
	DC150-03-07.541A1-	7,541	19/64"	29	79	41	36	8	☹
	DC150-03-07.600A1-	7,6		29	79	41	36	8	☹
	DC150-03-07.700A1-	7,7		29	79	41	36	8	☹
	DC150-03-07.800A1-	7,8		29	79	41	36	8	☹
	DC150-03-07.900A1-	7,9		29	79	41	36	8	☹
	DC150-03-07.938A1-	7,938	5/16"	29	79	41	36	8	☹
	DC150-03-08.000A1-	8		29	79	41	36	8	☹
	DC150-03-08.100A1-	8,1		35	89	47	40	10	☹
	DC150-03-08.200A1-	8,2		35	89	47	40	10	☹
	DC150-03-08.300A1-	8,3		35	89	47	40	10	☹
	DC150-03-08.334A1-	8,334	21/64"	35	89	47	40	10	☹
	DC150-03-08.400A1-	8,4		35	89	47	40	10	☹
	DC150-03-08.500A1-	8,5		35	89	47	40	10	☹
	DC150-03-08.600A1-	8,6		35	89	47	40	10	☹
	DC150-03-08.700A1-	8,7		35	89	47	40	10	☹
	DC150-03-08.731A1-	8,731	11/32"	35	89	47	40	10	☹
	DC150-03-08.800A1-	8,8		35	89	47	40	10	☹
	DC150-03-08.900A1-	8,9		35	89	47	40	10	☹
	DC150-03-09.000A1-	9		35	89	47	40	10	☹
	DC150-03-09.100A1-	9,1		35	89	47	40	10	☹
	DC150-03-09.128A1-	9,128	23/64"	35	89	47	40	10	☹

Exemplo de pedido para a classe WJ30RE: DC150-03-03.000A1-WJ30RE

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30RE
DC150-03-09.200A1-	9,2		35	89	47	40	10	☹
DC150-03-09.300A1-	9,3		35	89	47	40	10	☹
DC150-03-09.400A1-	9,4		35	89	47	40	10	☹
DC150-03-09.500A1-	9,5		35	89	47	40	10	☹
DC150-03-09.525A1-	9,525	3/8"	35	89	47	40	10	☹
DC150-03-09.600A1-	9,6		35	89	47	40	10	☹
DC150-03-09.700A1-	9,7		35	89	47	40	10	☹
DC150-03-09.800A1-	9,8		35	89	47	40	10	☹
DC150-03-09.900A1-	9,9		35	89	47	40	10	☹
DC150-03-09.922A1-	9,922	25/64"	35	89	47	40	10	☹
DC150-03-10.000A1-	10		35	89	47	40	10	☹
DC150-03-10.100A1-	10,1		40	102	55	45	12	☹
DC150-03-10.200A1-	10,2		40	102	55	45	12	☹
DC150-03-10.300A1-	10,3		40	102	55	45	12	☹
DC150-03-10.319A1-	10,319	13/32"	40	102	55	45	12	☹
DC150-03-10.400A1-	10,4		40	102	55	45	12	☹
DC150-03-10.500A1-	10,5		40	102	55	45	12	☹
DC150-03-10.600A1-	10,6		40	102	55	45	12	☹
DC150-03-10.700A1-	10,7		40	102	55	45	12	☹
DC150-03-10.716A1-	10,716	27/64"	40	102	55	45	12	☹
DC150-03-10.800A1-	10,8		40	102	55	45	12	☹
DC150-03-10.900A1-	10,9		40	102	55	45	12	☹
DC150-03-11.000A1-	11		40	102	55	45	12	☹
DC150-03-11.100A1-	11,1		40	102	55	45	12	☹
DC150-03-11.113A1-	11,113	7/16"	40	102	55	45	12	☹
DC150-03-11.200A1-	11,2		40	102	55	45	12	☹
DC150-03-11.300A1-	11,3		40	102	55	45	12	☹
DC150-03-11.400A1-	11,4		40	102	55	45	12	☹
DC150-03-11.500A1-	11,5		40	102	55	45	12	☹
DC150-03-11.509A1-	11,509	29/64"	40	102	55	45	12	☹
DC150-03-11.600A1-	11,6		40	102	55	45	12	☹
DC150-03-11.700A1-	11,7		40	102	55	45	12	☹
DC150-03-11.800A1-	11,8		40	102	55	45	12	☹
DC150-03-11.900A1-	11,9		40	102	55	45	12	☹
DC150-03-11.906A1-	11,906	15/32"	40	102	55	45	12	☹
DC150-03-12.000A1-	12		40	102	55	45	12	☹
DC150-03-12.100A1-	12,1		43	107	60	45	14	☹
DC150-03-12.200A1-	12,2		43	107	60	45	14	☹
DC150-03-12.300A1-	12,3		43	107	60	45	14	☹
DC150-03-12.303A1-	12,303	31/64"	43	107	60	45	14	☹
DC150-03-12.500A1-	12,5		43	107	60	45	14	☹
DC150-03-12.600A1-	12,6		43	107	60	45	14	☹
DC150-03-12.700A1-	12,700	1/2"	43	107	60	45	14	☹
DC150-03-12.800A1-	12,8		43	107	60	45	14	☹
DC150-03-12.900A1-	12,9		43	107	60	45	14	☹
DC150-03-13.000A1-	13		43	107	60	45	14	☹

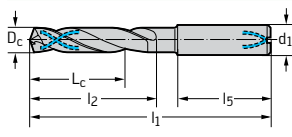
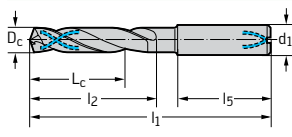
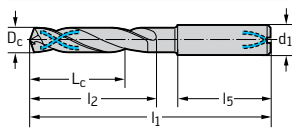
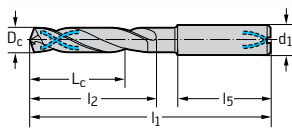
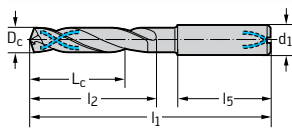
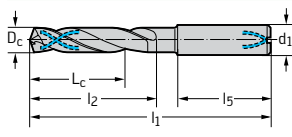
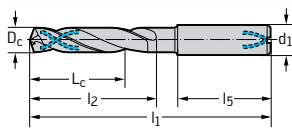
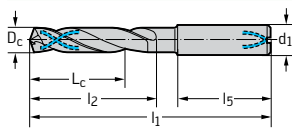
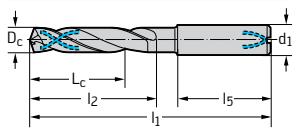
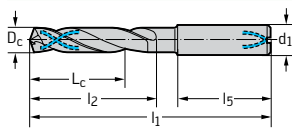
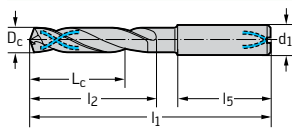
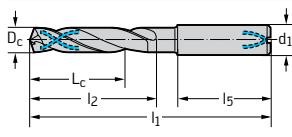
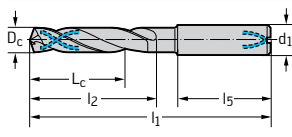
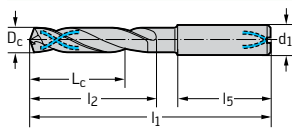
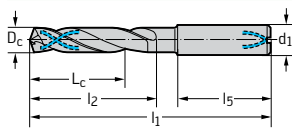
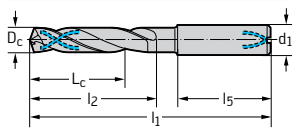
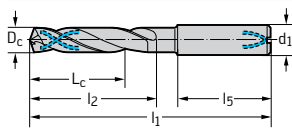
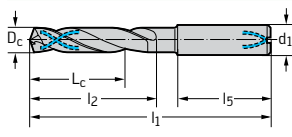
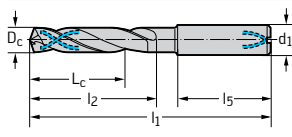
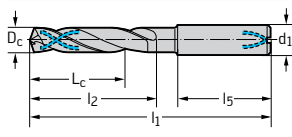
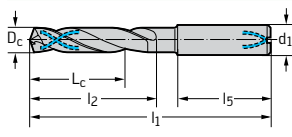
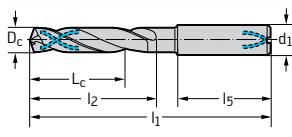
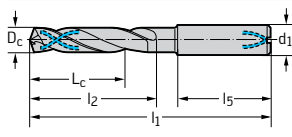
Exemplo de pedido para a classe WJ30RE: DC150-03-03.000A1-WJ30RE

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

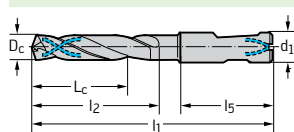
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
	DC150-03-13.100A1-	13,1		43	107	60	45	14	☺
	DC150-03-13.200A1-	13,2		43	107	60	45	14	☺
	DC150-03-13.300A1-	13,3		43	107	60	45	14	☺
	DC150-03-13.494A1-	13,494	17/32"	43	107	60	45	14	☺
	DC150-03-13.500A1-	13,5		43	107	60	45	14	☺
	DC150-03-13.800A1-	13,8		43	107	60	45	14	☺
	DC150-03-14.000A1-	14		43	107	60	45	14	☺
	DC150-03-14.100A1-	14,1		45	115	65	48	16	☺
	DC150-03-14.200A1-	14,2		45	115	65	48	16	☺
	DC150-03-14.288A1-	14,288	9/16"	45	115	65	48	16	☺
	DC150-03-14.500A1-	14,5		45	115	65	48	16	☺
	DC150-03-14.600A1-	14,6		45	115	65	48	16	☺
	DC150-03-14.700A1-	14,7		45	115	65	48	16	☺
	DC150-03-15.000A1-	15		45	115	65	48	16	☺
	DC150-03-15.100A1-	15,1		45	115	65	48	16	☺
	DC150-03-15.300A1-	15,3		45	115	65	48	16	☺
	DC150-03-15.500A1-	15,5		45	115	65	48	16	☺
	DC150-03-15.700A1-	15,7		45	115	65	48	16	☺
	DC150-03-15.800A1-	15,8		45	115	65	48	16	☺
	DC150-03-15.875A1-	15,875	5/8"	45	115	65	48	16	☺
	DC150-03-16.000A1-	16		45	115	65	48	16	☺
	DC150-03-16.300A1-	16,3		51	123	73	48	18	☺
	DC150-03-16.500A1-	16,5		51	123	73	48	18	☺
	DC150-03-16.700A1-	16,7		51	123	73	48	18	☺
	DC150-03-17.000A1-	17		51	123	73	48	18	☺
	DC150-03-17.500A1-	17,5		51	123	73	48	18	☺
	DC150-03-18.000A1-	18		51	123	73	48	18	☺
	DC150-03-18.500A1-	18,5		55	131	79	50	20	☺
	DC150-03-19.000A1-	19		55	131	79	50	20	☺
	DC150-03-19.050A1-	19,050	3/4"	55	131	79	50	20	☺
	DC150-03-20.000A1-	20		55	131	79	50	20	☺
	DC150-03-03.000D1-	3		14	62	20	36	6	☺
	DC150-03-03.300D1-	3,3		14	62	20	36	6	☺
	DC150-03-03.400D1-	3,4		14	62	20	36	6	☺
	DC150-03-03.500D1-	3,5		14	62	20	36	6	☺
	DC150-03-03.700D1-	3,7		14	62	20	36	6	☺
	DC150-03-03.800D1-	3,8		17	66	24	36	6	☺
	DC150-03-04.000D1-	4		17	66	24	36	6	☺
	DC150-03-04.200D1-	4,2		17	66	24	36	6	☺
	DC150-03-04.300D1-	4,3		17	66	24	36	6	☺
	DC150-03-04.500D1-	4,5		17	66	24	36	6	☺
	DC150-03-04.800D1-	4,8		20	66	28	36	6	☺
	DC150-03-05.000D1-	5		20	66	28	36	6	☺
	DC150-03-05.100D1-	5,1		20	66	28	36	6	☺
	DC150-03-05.300D1-	5,3		20	66	28	36	6	☺
	DC150-03-05.500D1-	5,5		20	66	28	36	6	☺

Exemplo de pedido para a classe WJ30RE: DC150-03-03.000A1-WJ30RE

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



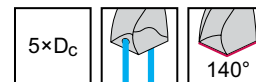
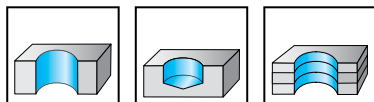
DIN 6535 HE, turned 180° DIN 6535 HB

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DC150-03-06.000D1-	6		20	66	28	36	6	☺
DC150-03-06.500D1-	6,5		24	79	34	36	8	☺
DC150-03-06.700D1-	6,7		24	79	34	36	8	☺
DC150-03-06.800D1-	6,8		24	79	34	36	8	☺
DC150-03-07.000D1-	7		24	79	34	36	8	☺
DC150-03-07.500D1-	7,5		29	79	41	36	8	☺
DC150-03-07.800D1-	7,8		29	79	41	36	8	☺
DC150-03-08.000D1-	8		29	79	41	36	8	☺
DC150-03-08.500D1-	8,5		35	89	47	40	10	☺
DC150-03-08.600D1-	8,6		35	89	47	40	10	☺
DC150-03-08.800D1-	8,8		35	89	47	40	10	☺
DC150-03-09.000D1-	9		35	89	47	40	10	☺
DC150-03-10.000D1-	10		35	89	47	40	10	☺
DC150-03-10.200D1-	10,2		40	102	55	45	12	☺
DC150-03-10.300D1-	10,3		40	102	55	45	12	☺
DC150-03-10.500D1-	10,5		40	102	55	45	12	☺
DC150-03-10.800D1-	10,8		40	102	55	45	12	☺
DC150-03-11.000D1-	11		40	102	55	45	12	☺
DC150-03-11.800D1-	11,8		40	102	55	45	12	☺
DC150-03-12.000D1-	12		40	102	55	45	12	☺
DC150-03-12.200D1-	12,2		43	107	60	45	14	☺
DC150-03-12.500D1-	12,5		43	107	60	45	14	☺
DC150-03-13.000D1-	13		43	107	60	45	14	☺
DC150-03-14.000D1-	14		43	107	60	45	14	☺
DC150-03-15.000D1-	15		45	115	65	48	16	☺
DC150-03-15.500D1-	15,5		45	115	65	48	16	☺
DC150-03-16.000D1-	16		45	115	65	48	16	☺
DC150-03-16.500D1-	16,5		51	123	73	48	18	☺
DC150-03-17.000D1-	17		51	123	73	48	18	☺
DC150-03-17.500D1-	17,5		51	123	73	48	18	☺
DC150-03-18.000D1-	18		51	123	73	48	18	☺
DC150-03-19.000D1-	19		55	131	79	50	20	☺
DC150-03-20.000D1-	20		55	131	79	50	20	☺

Exemplo de pedido para a classe WJ30RE: DC150-03-03.000A1-WJ30RE

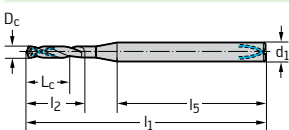
Microbrocas de metal duro com canal de refrigeração

DB133 Supreme



	P	M	K	N	S	H	O
WJ30EL	●	●	●	●	●	●	●

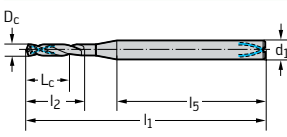
B1

Ferramenta									
	Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EL
 DIN 6535 HA	DB133-05-00.700A1-	0,7		4,9	48	6	35	3	
	DB133-05-00.750A1-	0,75		5,8	48	7	34	3	
	DB133-05-00.794A1-	0,794	1/32"	5,8	48	7	34	3	
	DB133-05-00.800A1-	0,8		5,8	48	7	34	3	
	DB133-05-00.850A1-	0,85		6,6	50	8	35	3	
	DB133-05-00.900A1-	0,9		6,6	50	8	35	3	
	DB133-05-00.950A1-	0,95		7,5	50	9	34	3	
	DB133-05-01.000A1-	1		7,5	50	9	34	3	
	DB133-05-01.050A1-	1,05		7	51	9	36	3	
	DB133-05-01.100A1-	1,1		7	51	9	36	3	
	DB133-05-01.150A1-	1,15		8	51	10	35	3	
	DB133-05-01.191A1-	1,191	3/64"	8	51	10	35	3	
	DB133-05-01.200A1-	1,2		8	51	10	35	3	
	DB133-05-01.250A1-	1,25		9	51	11	34	3	
	DB133-05-01.300A1-	1,3		9	53	11	36	3	
	DB133-05-01.350A1-	1,35		9	53	12	35	3	
	DB133-05-01.400A1-	1,4		9	53	12	35	3	
	DB133-05-01.450A1-	1,45		10	53	13	34	3	
	DB133-05-01.500A1-	1,5		10	53	13	34	3	
	DB133-05-01.550A1-	1,55		11	54	14	35	3	
	DB133-05-01.588A1-	1,588	1/16"	11	54	14	35	3	
	DB133-05-01.600A1-	1,6		11	54	14	35	3	
	DB133-05-01.650A1-	1,65		11	54	14	35	3	
	DB133-05-01.700A1-	1,7		11	54	14	35	3	
	DB133-05-01.750A1-	1,75		12	54	15	34	3	
	DB133-05-01.800A1-	1,8		12	54	15	34	3	
	DB133-05-01.850A1-	1,85		13	57	16	36	3	
	DB133-05-01.900A1-	1,9		13	57	16	36	3	
	DB133-05-01.950A1-	1,95		14	57	17	35	3	
	DB133-05-01.984A1-	1,984	5/64"	14	57	17	35	3	
	DB133-05-02.000A1-	2		14	57	17	35	3	
	DB133-05-02.050A1-	2,05		14	57	18	35	3	
	DB133-05-02.100A1-	2,1		14	57	18	35	3	
	DB133-05-02.150A1-	2,15		15	57	19	34	3	
	DB133-05-02.200A1-	2,2		15	57	19	34	3	
	DB133-05-02.250A1-	2,25		16	59	20	35	3	

Exemplo de pedido para a classe WJ30EL: DB133-05-00.700A1-WJ30EL

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EL
 DIN 6535 HA	DB133-05-02.300A1-	2,3		16	59	20	35	3	☺
	DB133-05-02.350A1-	2,35		16	59	20	35	3	☺
	DB133-05-02.381A1-	2,381	3/32"	16	59	20	35	3	☺
	DB133-05-02.400A1-	2,4		16	59	20	35	3	☺
	DB133-05-02.450A1-	2,45		17	59	21	34	3	☺
	DB133-05-02.500A1-	2,5		17	59	21	34	3	☺
	DB133-05-02.550A1-	2,55		18	62	22	36	3	☺
	DB133-05-02.600A1-	2,6		18	62	22	36	3	☺
	DB133-05-02.650A1-	2,65		18	62	23	36	3	☺
	DB133-05-02.700A1-	2,7		18	62	23	36	3	☺
	DB133-05-02.750A1-	2,75		19	62	24	35	3	☺
	DB133-05-02.778A1-	2,778	7/64"	19	62	24	35	3	☺
	DB133-05-02.800A1-	2,8		19	62	24	35	3	☺
	DB133-05-02.850A1-	2,85		20	62	25	34	3	☺
	DB133-05-02.900A1-	2,9		20	62	25	34	3	☺
	DB133-05-02.950A1-	2,95		20	62	25	34	3	☺

Exemplo de pedido para a classe WJ30EL: DB133-05-00.700A1-WJ30EL

Broca helicoidal de metal duro 3 canais

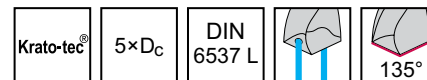
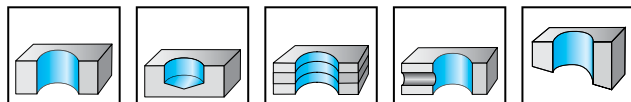
DC183 Supreme

X-treme Evo 3

Powered by Krato-tec®

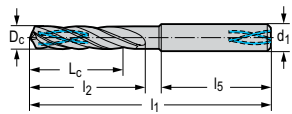


– com revestimento multicamada inovador Krato-tec®



	P	M	K	N	S	H	O
WJ30EZ	●●	●	●●	●●	●		

B1

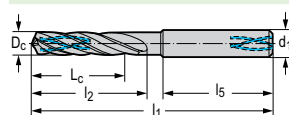
Ferramenta	Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EZ
 DIN 6535 HA	DC183-05-03.000A1-	3		19	66	24	36	6	☺
	DC183-05-03.175A1-	3,175	1/8"	19	66	24	36	6	☺
	DC183-05-03.300A1-	3,3		19	66	24	36	6	☺
	DC183-05-03.500A1-	3,5		19	66	24	36	6	☺
	DC183-05-03.700A1-	3,7		19	66	24	36	6	☺
	DC183-05-03.900A1-	3,9		29	74	36	36	6	☺
	DC183-05-04.000A1-	4		29	74	36	36	6	☺
	DC183-05-04.100A1-	4,1		29	74	36	36	6	☺
	DC183-05-04.200A1-	4,2		29	74	36	36	6	☺
	DC183-05-04.300A1-	4,3		29	74	36	36	6	☺
	DC183-05-04.366A1-	4,366	11/64"	29	74	36	36	6	☺
	DC183-05-04.500A1-	4,5		29	74	36	36	6	☺
	DC183-05-04.763A1-	4,763	3/16"	35	82	44	36	6	☺
	DC183-05-04.800A1-	4,8		35	82	44	36	6	☺
	DC183-05-05.000A1-	5		35	82	44	36	6	☺
	DC183-05-05.100A1-	5,1		35	82	44	36	6	☺
	DC183-05-05.200A1-	5,2		35	82	44	36	6	☺
	DC183-05-05.500A1-	5,5		35	82	44	36	6	☺
	DC183-05-05.550A1-	5,5		35	82	44	36	6	☺
	DC183-05-05.556A1-	5,556	7/32"	35	82	44	36	6	☺
	DC183-05-05.800A1-	5,8		35	82	44	36	6	☺
	DC183-05-06.000A1-	6		35	82	44	36	6	☺
	DC183-05-06.100A1-	6,1		43	91	53	36	8	☺
	DC183-05-06.200A1-	6,2		43	91	53	36	8	☺
	DC183-05-06.350A1-	6,350	1/4"	43	91	53	36	8	☺
	DC183-05-06.500A1-	6,5		43	91	53	36	8	☺
	DC183-05-06.700A1-	6,7		43	91	53	36	8	☺
	DC183-05-06.747A1-	6,747	17/64"	43	91	53	36	8	☺
	DC183-05-06.800A1-	6,8		43	91	53	36	8	☺
	DC183-05-07.000A1-	7		43	91	53	36	8	☺
	DC183-05-07.144A1-	7,144	9/32"	43	91	53	36	8	☺
	DC183-05-07.400A1-	7,4		43	91	53	36	8	☺
	DC183-05-07.500A1-	7,5		43	91	53	36	8	☺
	DC183-05-07.541A1-	7,541	19/64"	43	91	53	36	8	☺
	DC183-05-07.800A1-	7,8		43	91	53	36	8	☺
	DC183-05-07.938A1-	7,938	5/16"	43	91	53	36	8	☺

Exemplo de pedido para a classe WJ30EZ: DC183-05-03.000A1-WJ30EZ

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

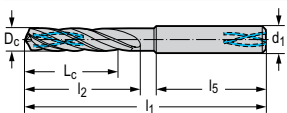
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EZ
DC183-05-08.000A1-	8		43	91	53	36	8	☺
DC183-05-08.100A1-	8,1		49	103	61	40	10	☺
DC183-05-08.500A1-	8,5		49	103	61	40	10	☺
DC183-05-08.600A1-	8,6		49	103	61	40	10	☺
DC183-05-08.700A1-	8,7		49	103	61	40	10	☺
DC183-05-08.731A1-	8,731	11/32"	49	103	61	40	10	☺
DC183-05-08.800A1-	8,8		49	103	61	40	10	☺
DC183-05-09.000A1-	9		49	103	61	40	10	☺
DC183-05-09.100A1-	9,1		49	103	61	40	10	☺
DC183-05-09.128A1-	9,128	23/64"	49	103	61	40	10	☺
DC183-05-09.300A1-	9,3		49	103	61	40	10	☺
DC183-05-09.500A1-	9,5		49	103	61	40	10	☺
DC183-05-09.525A1-	9,525	3/8"	49	103	61	40	10	☺
DC183-05-09.800A1-	9,8		49	103	61	40	10	☺
DC183-05-09.922A1-	9,922	25/64"	49	103	61	40	10	☺
DC183-05-10.000A1-	10		49	103	61	40	10	☺
DC183-05-10.100A1-	10,1		56	118	71	45	12	☺
DC183-05-10.200A1-	10,2		56	118	71	45	12	☺
DC183-05-10.300A1-	10,3		56	118	71	45	12	☺
DC183-05-10.319A1-	10,319	13/32"	56	118	71	45	12	☺
DC183-05-10.500A1-	10,5		56	118	71	45	12	☺
DC183-05-10.716A1-	10,716	27/64"	56	118	71	45	12	☺
DC183-05-10.800A1-	10,8		56	118	71	45	12	☺
DC183-05-11.000A1-	11		56	118	71	45	12	☺
DC183-05-11.100A1-	11,1		56	118	71	45	12	☺
DC183-05-11.113A1-	11,113	7/16"	56	118	71	45	12	☺
DC183-05-11.200A1-	11,2		56	118	71	45	12	☺
DC183-05-11.500A1-	11,5		56	118	71	45	12	☺
DC183-05-11.509A1-	11,509	29/64"	56	118	71	45	12	☺
DC183-05-11.800A1-	11,8		56	118	71	45	12	☺
DC183-05-11.906A1-	11,906	15/32"	56	118	71	45	12	☺
DC183-05-12.000A1-	12		56	118	71	45	12	☺
DC183-05-12.100A1-	12,1		60	124	77	45	14	☺
DC183-05-12.303A1-	12,303	31/64"	60	124	77	45	14	☺
DC183-05-12.500A1-	12,5		60	124	77	45	14	☺
DC183-05-12.700A1-	12,700	1/2"	60	124	77	45	14	☺
DC183-05-13.000A1-	13		60	124	77	45	14	☺
DC183-05-13.100A1-	13,1		60	124	77	45	14	☺
DC183-05-13.494A1-	13,494	17/32"	60	124	77	45	14	☺
DC183-05-13.500A1-	13,5		60	124	77	45	14	☺
DC183-05-13.800A1-	13,8		60	124	77	45	14	☺
DC183-05-14.000A1-	14		60	124	77	45	14	☺
DC183-05-14.288A1-	14,288	9/16"	63	133	83	48	16	☺
DC183-05-14.500A1-	14,5		63	133	83	48	16	☺
DC183-05-15.000A1-	15		63	133	83	48	16	☺
DC183-05-15.100A1-	15,1		63	133	83	48	16	☺

Exemplo de pedido para a classe WJ30EZ: DC183-05-03.000A1-WJ30EZ

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EZ
	DC183-05-15.300A1-	15,3		63	133	83	48	16	☺
	DC183-05-15.500A1-	15,5		63	133	83	48	16	☺
	DC183-05-15.800A1-	15,8		63	133	83	48	16	☺
	DC183-05-15.875A1-	15,875	5/8"	63	133	83	48	16	☺
	DC183-05-16.000A1-	16		63	133	83	48	16	☺

DIN 6535 HA

Exemplo de pedido para a classe WJ30EZ: DC183-05-03.000A1-WJ30EZ

B1

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Broca de metal duro com canal de refrigeração

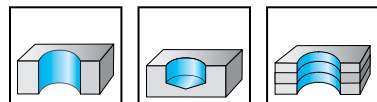
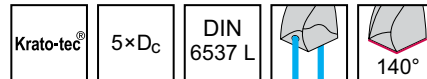
DC180 Supreme

X-treme Evo Plus

Powered by Krato-tec®



– com revestimento multicamada inovador Krato-tec®



B1

	P	M	K	N	S	H	O
WJ30EZ	●	●	●	●	●	●	●

Ferramenta	Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EZ
DIN 6535 HA	DC180-05-03.000A1-	3		19	66	24	36	6	☺
	DC180-05-03.100A1-	3,1		19	66	24	36	6	☺
	DC180-05-03.175A1-	3,175	1/8"	19	66	24	36	6	☺
	DC180-05-03.200A1-	3,2		19	66	24	36	6	☺
	DC180-05-03.250A1-	3,25		19	66	24	36	6	☺
	DC180-05-03.300A1-	3,3		19	66	24	36	6	☺
	DC180-05-03.400A1-	3,4		19	66	24	36	6	☺
	DC180-05-03.500A1-	3,5		19	66	24	36	6	☺
	DC180-05-03.572A1-	3,572	9/64"	19	66	24	36	6	☺
	DC180-05-03.600A1-	3,6		19	66	24	36	6	☺
	DC180-05-03.700A1-	3,7		19	66	24	36	6	☺
	DC180-05-03.800A1-	3,8		29	74	36	36	6	☺
	DC180-05-03.900A1-	3,9		29	74	36	36	6	☺
	DC180-05-03.969A1-	3,969	5/32"	29	74	36	36	6	☺
	DC180-05-04.000A1-	4		29	74	36	36	6	☺
	DC180-05-04.100A1-	4,1		29	74	36	36	6	☺
	DC180-05-04.200A1-	4,2		29	74	36	36	6	☺
	DC180-05-04.300A1-	4,3		29	74	36	36	6	☺
	DC180-05-04.366A1-	4,366	11/64"	29	74	36	36	6	☺
	DC180-05-04.400A1-	4,4		29	74	36	36	6	☺
	DC180-05-04.500A1-	4,5		29	74	36	36	6	☺
	DC180-05-04.600A1-	4,6		29	74	36	36	6	☺
	DC180-05-04.650A1-	4,65		29	74	36	36	6	☺
	DC180-05-04.700A1-	4,7		29	74	36	36	6	☺
	DC180-05-04.763A1-	4,763	3/16"	35	82	44	36	6	☺
	DC180-05-04.800A1-	4,8		35	82	44	36	6	☺
	DC180-05-04.900A1-	4,9		35	82	44	36	6	☺
	DC180-05-05.000A1-	5		35	82	44	36	6	☺
	DC180-05-05.100A1-	5,1		35	82	44	36	6	☺
	DC180-05-05.159A1-	5,159	13/64"	35	82	44	36	6	☺
	DC180-05-05.200A1-	5,2		35	82	44	36	6	☺
	DC180-05-05.300A1-	5,3		35	82	44	36	6	☺
	DC180-05-05.400A1-	5,4		35	82	44	36	6	☺
	DC180-05-05.500A1-	5,5		35	82	44	36	6	☺
	DC180-05-05.550A1-	5,55		35	82	44	36	6	☺
	DC180-05-05.556A1-	5,556	7/32"	35	82	44	36	6	☺

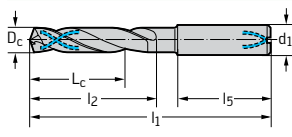
Exemplo de pedido para a classe WJ30EZ: DC180-05-03.000A1-WJ30EZ

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

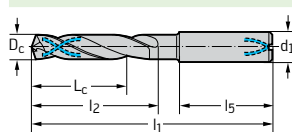
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EZ
	Denominação								
	DIN 6535 HA								
	DC180-05-05.600A1-	5,6		35	82	44	36	6	☺
	DC180-05-05.700A1-	5,7		35	82	44	36	6	☺
	DC180-05-05.800A1-	5,8		35	82	44	36	6	☺
	DC180-05-05.900A1-	5,9		35	82	44	36	6	☺
	DC180-05-05.953A1-	5,953	15/64"	35	82	44	36	6	☺
	DC180-05-06.000A1-	6		35	82	44	36	6	☺
	DC180-05-06.100A1-	6,1		43	91	53	36	8	☺
	DC180-05-06.200A1-	6,2		43	91	53	36	8	☺
	DC180-05-06.300A1-	6,3		43	91	53	36	8	☺
	DC180-05-06.350A1-	6,350	1/4"	43	91	53	36	8	☺
	DC180-05-06.400A1-	6,4		43	91	53	36	8	☺
	DC180-05-06.500A1-	6,5		43	91	53	36	8	☺
	DC180-05-06.600A1-	6,6		43	91	53	36	8	☺
	DC180-05-06.700A1-	6,7		43	91	53	36	8	☺
	DC180-05-06.747A1-	6,747	17/64"	43	91	53	36	8	☺
	DC180-05-06.800A1-	6,8		43	91	53	36	8	☺
	DC180-05-06.900A1-	6,9		43	91	53	36	8	☺
	DC180-05-07.000A1-	7		43	91	53	36	8	☺
	DC180-05-07.100A1-	7,1		43	91	53	36	8	☺
	DC180-05-07.144A1-	7,144	9/32"	43	91	53	36	8	☺
	DC180-05-07.200A1-	7,2		43	91	53	36	8	☺
	DC180-05-07.300A1-	7,3		43	91	53	36	8	☺
	DC180-05-07.400A1-	7,4		43	91	53	36	8	☺
	DC180-05-07.500A1-	7,5		43	91	53	36	8	☺
	DC180-05-07.541A1-	7,541	19/64"	43	91	53	36	8	☺
	DC180-05-07.800A1-	7,8		43	91	53	36	8	☺
	DC180-05-07.900A1-	7,9		43	91	53	36	8	☺
	DC180-05-07.938A1-	7,938	5/16"	43	91	53	36	8	☺
	DC180-05-08.000A1-	8		43	91	53	36	8	☺
	DC180-05-08.100A1-	8,1		49	103	61	40	10	☺
	DC180-05-08.200A1-	8,2		49	103	61	40	10	☺
	DC180-05-08.300A1-	8,3		49	103	61	40	10	☺
	DC180-05-08.334A1-	8,334	21/64"	49	103	61	40	10	☺
	DC180-05-08.400A1-	8,4		49	103	61	40	10	☺
	DC180-05-08.500A1-	8,5		49	103	61	40	10	☺
	DC180-05-08.600A1-	8,6		49	103	61	40	10	☺
	DC180-05-08.700A1-	8,7		49	103	61	40	10	☺
	DC180-05-08.731A1-	8,731	11/32"	49	103	61	40	10	☺
	DC180-05-08.750A1-	8,75		49	103	61	40	10	☺
	DC180-05-08.800A1-	8,8		49	103	61	40	10	☺
	DC180-05-09.000A1-	9		49	103	61	40	10	☺
	DC180-05-09.128A1-	9,128	23/64"	49	103	61	40	10	☺
	DC180-05-09.200A1-	9,2		49	103	61	40	10	☺
	DC180-05-09.300A1-	9,3		49	103	61	40	10	☺
	DC180-05-09.500A1-	9,5		49	103	61	40	10	☺
	DC180-05-09.525A1-	9,525	3/8"	49	103	61	40	10	☺

Exemplo de pedido para a classe WJ30EZ: DC180-05-03.000A1-WJ30EZ

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

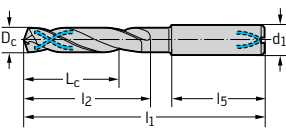
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30EZ
DC180-05-09.600A1-	9,6		49	103	61	40	10	☹
DC180-05-09.700A1-	9,7		49	103	61	40	10	☹
DC180-05-09.800A1-	9,8		49	103	61	40	10	☹
DC180-05-09.900A1-	9,9		49	103	61	40	10	☹
DC180-05-09.922A1-	9,922	25/64"	49	103	61	40	10	☹
DC180-05-10.000A1-	10		49	103	61	40	10	☹
DC180-05-10.100A1-	10,1		56	118	71	45	12	☹
DC180-05-10.200A1-	10,2		56	118	71	45	12	☹
DC180-05-10.300A1-	10,3		56	118	71	45	12	☹
DC180-05-10.319A1-	10,319	13/32"	56	118	71	45	12	☹
DC180-05-10.400A1-	10,4		56	118	71	45	12	☹
DC180-05-10.500A1-	10,5		56	118	71	45	12	☹
DC180-05-10.716A1-	10,716	27/64"	56	118	71	45	12	☹
DC180-05-10.800A1-	10,8		56	118	71	45	12	☹
DC180-05-11.000A1-	11		56	118	71	45	12	☹
DC180-05-11.100A1-	11,1		56	118	71	45	12	☹
DC180-05-11.113A1-	11,113	7/16"	56	118	71	45	12	☹
DC180-05-11.200A1-	11,2		56	118	71	45	12	☹
DC180-05-11.300A1-	11,3		56	118	71	45	12	☹
DC180-05-11.400A1-	11,4		56	118	71	45	12	☹
DC180-05-11.500A1-	11,5		56	118	71	45	12	☹
DC180-05-11.509A1-	11,509	29/64"	56	118	71	45	12	☹
DC180-05-11.700A1-	11,7		56	118	71	45	12	☹
DC180-05-11.800A1-	11,8		56	118	71	45	12	☹
DC180-05-11.906A1-	11,906	15/32"	56	118	71	45	12	☹
DC180-05-12.000A1-	12		56	118	71	45	12	☹
DC180-05-12.100A1-	12,1		60	124	77	45	14	☹
DC180-05-12.200A1-	12,2		60	124	77	45	14	☹
DC180-05-12.300A1-	12,3		60	124	77	45	14	☹
DC180-05-12.303A1-	12,303	31/64"	60	124	77	45	14	☹
DC180-05-12.500A1-	12,5		60	124	77	45	14	☹
DC180-05-12.600A1-	12,6		60	124	77	45	14	☹
DC180-05-12.700A1-	12,700	1/2"	60	124	77	45	14	☹
DC180-05-13.000A1-	13		60	124	77	45	14	☹
DC180-05-13.100A1-	13,1		60	124	77	45	14	☹
DC180-05-13.300A1-	13,3		60	124	77	45	14	☹
DC180-05-13.494A1-	13,494	17/32"	60	124	77	45	14	☹
DC180-05-13.500A1-	13,5		60	124	77	45	14	☹
DC180-05-14.000A1-	14		60	124	77	45	14	☹
DC180-05-14.288A1-	14,288	9/16"	63	133	83	48	16	☹
DC180-05-14.500A1-	14,5		63	133	83	48	16	☹
DC180-05-15.000A1-	15		63	133	83	48	16	☹
DC180-05-15.100A1-	15,1		63	133	83	48	16	☹
DC180-05-15.300A1-	15,3		63	133	83	48	16	☹
DC180-05-15.500A1-	15,5		63	133	83	48	16	☹
DC180-05-15.875A1-	15,875	5/8"	63	133	83	48	16	☹

Exemplo de pedido para a classe WJ30EZ: DC180-05-03.000A1-WJ30EZ

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EZ
 DIN 6535 HA	Denominação								
	DC180-05-16.000A1-	16		63	133	83	48	16	☺
	DC180-05-16.500A1-	16,5		71	143	93	48	18	☺
	DC180-05-17.000A1-	17		71	143	93	48	18	☺
	DC180-05-17.500A1-	17,5		71	143	93	48	18	☺
	DC180-05-18.000A1-	18		71	143	93	48	18	☺
	DC180-05-18.500A1-	18,5		77	153	101	50	20	☺
	DC180-05-19.000A1-	19		77	153	101	50	20	☺
	DC180-05-19.050A1-	19,050	3/4"	77	153	101	50	20	☺
	DC180-05-20.000A1-	20		77	153	101	50	20	☺

Exemplo de pedido para a classe WJ30EZ: DC180-05-03.000A1-WJ30EZ

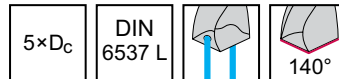
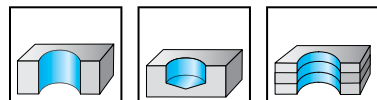
B1

Broca helicoidal VHM

DC175 Supreme

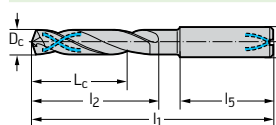


– Walter Refrigeração de precisão



	P	M	K	N	S	H	O
WJ30RZ	●	●●	●	●	●●	●	●

Ferramenta



DIN 6535 HA

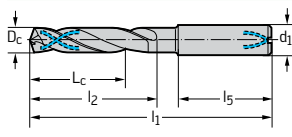
Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RZ
DC175-05-03.000A1-	3		19	66	24	36	6	☺
DC175-05-03.100A1-	3,1		19	66	24	36	6	☺
DC175-05-03.175A1-	3,175	1/8"	19	66	24	36	6	☺
DC175-05-03.200A1-	3,2		19	66	24	36	6	☺
DC175-05-03.250A1-	3,25		19	66	24	36	6	☺
DC175-05-03.300A1-	3,3		19	66	24	36	6	☺
DC175-05-03.400A1-	3,4		19	66	24	36	6	☺
DC175-05-03.500A1-	3,5		19	66	24	36	6	☺
DC175-05-03.572A1-	3,572	9/64"	19	66	24	36	6	☺
DC175-05-03.600A1-	3,6		19	66	24	36	6	☺
DC175-05-03.700A1-	3,7		19	66	24	36	6	☺
DC175-05-03.800A1-	3,8		29	74	36	36	6	☺
DC175-05-03.900A1-	3,9		29	74	36	36	6	☺
DC175-05-03.969A1-	3,969	5/32"	29	74	36	36	6	☺
DC175-05-04.000A1-	4		29	74	36	36	6	☺
DC175-05-04.100A1-	4,1		29	74	36	36	6	☺
DC175-05-04.200A1-	4,2		29	74	36	36	6	☺
DC175-05-04.300A1-	4,3		29	74	36	36	6	☺
DC175-05-04.366A1-	4,366	11/64"	29	74	36	36	6	☺
DC175-05-04.400A1-	4,4		29	74	36	36	6	☺
DC175-05-04.500A1-	4,5		29	74	36	36	6	☺
DC175-05-04.600A1-	4,6		29	74	36	36	6	☺
DC175-05-04.650A1-	4,65		29	74	36	36	6	☺
DC175-05-04.700A1-	4,7		29	74	36	36	6	☺
DC175-05-04.763A1-	4,763	3/16"	35	82	44	36	6	☺
DC175-05-04.800A1-	4,8		35	82	44	36	6	☺
DC175-05-04.900A1-	4,9		35	82	44	36	6	☺
DC175-05-05.000A1-	5		35	82	44	36	6	☺
DC175-05-05.100A1-	5,1		35	82	44	36	6	☺
DC175-05-05.159A1-	5,159	13/64"	35	82	44	36	6	☺
DC175-05-05.200A1-	5,2		35	82	44	36	6	☺
DC175-05-05.300A1-	5,3		35	82	44	36	6	☺
DC175-05-05.400A1-	5,4		35	82	44	36	6	☺
DC175-05-05.500A1-	5,5		35	82	44	36	6	☺
DC175-05-05.550A1-	5,55		35	82	44	36	6	☺

Para Ø3 - 3,75, comprimento total de acordo com a DIN 6537 L, ranhuras encurtadas em comparação com a DIN 6537 L | Exemplo de pedido para a classe WJ30RZ:
DC175-05-03.000A1-WJ30RZ

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

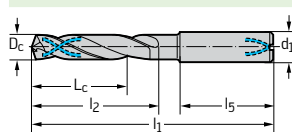
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RZ
	Denominação								
	DC175-05-05.556A1-	5,556	7/32"	35	82	44	36	6	☺
	DC175-05-05.600A1-	5,6		35	82	44	36	6	☺
	DC175-05-05.700A1-	5,7		35	82	44	36	6	☺
	DC175-05-05.800A1-	5,8		35	82	44	36	6	☺
	DC175-05-05.900A1-	5,9		35	82	44	36	6	☺
	DC175-05-05.953A1-	5,953	15/64"	35	82	44	36	6	☺
	DC175-05-06.000A1-	6		35	82	44	36	6	☺
	DC175-05-06.100A1-	6,1		43	91	53	36	8	☺
	DC175-05-06.200A1-	6,2		43	91	53	36	8	☺
	DC175-05-06.300A1-	6,3		43	91	53	36	8	☺
	DC175-05-06.350A1-	6,350	1/4"	43	91	53	36	8	☺
	DC175-05-06.400A1-	6,4		43	91	53	36	8	☺
	DC175-05-06.500A1-	6,5		43	91	53	36	8	☺
	DC175-05-06.600A1-	6,6		43	91	53	36	8	☺
	DC175-05-06.700A1-	6,7		43	91	53	36	8	☺
	DC175-05-06.747A1-	6,747	17/64"	43	91	53	36	8	☺
	DC175-05-06.800A1-	6,8		43	91	53	36	8	☺
	DC175-05-06.900A1-	6,9		43	91	53	36	8	☺
	DC175-05-07.000A1-	7		43	91	53	36	8	☺
	DC175-05-07.100A1-	7,1		43	91	53	36	8	☺
	DC175-05-07.144A1-	7,144	9/32"	43	91	53	36	8	☺
	DC175-05-07.200A1-	7,2		43	91	53	36	8	☺
	DC175-05-07.300A1-	7,3		43	91	53	36	8	☺
	DC175-05-07.400A1-	7,4		43	91	53	36	8	☺
	DC175-05-07.500A1-	7,5		43	91	53	36	8	☺
	DC175-05-07.541A1-	7,541	19/64"	43	91	53	36	8	☺
	DC175-05-07.600A1-	7,6		43	91	53	36	8	☺
	DC175-05-07.700A1-	7,7		43	91	53	36	8	☺
	DC175-05-07.800A1-	7,8		43	91	53	36	8	☺
	DC175-05-07.900A1-	7,9		43	91	53	36	8	☺
	DC175-05-07.938A1-	7,938	5/16"	43	91	53	36	8	☺
	DC175-05-08.000A1-	8		43	91	53	36	8	☺
	DC175-05-08.100A1-	8,1		49	103	61	40	10	☺
	DC175-05-08.200A1-	8,2		49	103	61	40	10	☺
	DC175-05-08.300A1-	8,3		49	103	61	40	10	☺
	DC175-05-08.334A1-	8,334	21/64"	49	103	61	40	10	☺
	DC175-05-08.400A1-	8,4		49	103	61	40	10	☺
	DC175-05-08.500A1-	8,5		49	103	61	40	10	☺
	DC175-05-08.600A1-	8,6		49	103	61	40	10	☺
	DC175-05-08.700A1-	8,7		49	103	61	40	10	☺
	DC175-05-08.731A1-	8,731	11/32"	49	103	61	40	10	☺
	DC175-05-08.800A1-	8,8		49	103	61	40	10	☺
	DC175-05-08.900A1-	8,9		49	103	61	40	10	☺
	DC175-05-09.000A1-	9		49	103	61	40	10	☺
	DC175-05-09.100A1-	9,1		49	103	61	40	10	☺

Para Ø3 - 3,75, comprimento total de acordo com a DIN 6537 L, ranhuras encurtadas em comparação com a DIN 6537 L | Exemplo de pedido para a classe WJ30RZ:
DC175-05-03.000A1-WJ30RZ

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

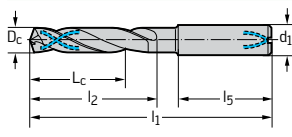
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RZ
DC175-05-09.128A1-	9,128	23/64"	49	103	61	40	10	☹
DC175-05-09.200A1-	9,2		49	103	61	40	10	☹
DC175-05-09.300A1-	9,3		49	103	61	40	10	☹
DC175-05-09.400A1-	9,4		49	103	61	40	10	☹
DC175-05-09.500A1-	9,5		49	103	61	40	10	☹
DC175-05-09.525A1-	9,525	3/8"	49	103	61	40	10	☹
DC175-05-09.600A1-	9,6		49	103	61	40	10	☹
DC175-05-09.700A1-	9,7		49	103	61	40	10	☹
DC175-05-09.800A1-	9,8		49	103	61	40	10	☹
DC175-05-09.900A1-	9,9		49	103	61	40	10	☹
DC175-05-09.922A1-	9,922	25/64"	49	103	61	40	10	☹
DC175-05-10.000A1-	10		49	103	61	40	10	☹
DC175-05-10.100A1-	10,1		56	118	71	45	12	☹
DC175-05-10.200A1-	10,2		56	118	71	45	12	☹
DC175-05-10.300A1-	10,3		56	118	71	45	12	☹
DC175-05-10.319A1-	10,319	13/32"	56	118	71	45	12	☹
DC175-05-10.400A1-	10,4		56	118	71	45	12	☹
DC175-05-10.500A1-	10,5		56	118	71	45	12	☹
DC175-05-10.600A1-	10,6		56	118	71	45	12	☹
DC175-05-10.700A1-	10,7		56	118	71	45	12	☹
DC175-05-10.716A1-	10,716	27/64"	56	118	71	45	12	☹
DC175-05-10.800A1-	10,8		56	118	71	45	12	☹
DC175-05-10.900A1-	10,9		56	118	71	45	12	☹
DC175-05-11.000A1-	11		56	118	71	45	12	☹
DC175-05-11.100A1-	11,1		56	118	71	45	12	☹
DC175-05-11.113A1-	11,113	7/16"	56	118	71	45	12	☹
DC175-05-11.200A1-	11,2		56	118	71	45	12	☹
DC175-05-11.300A1-	11,3		56	118	71	45	12	☹
DC175-05-11.400A1-	11,4		56	118	71	45	12	☹
DC175-05-11.500A1-	11,5		56	118	71	45	12	☹
DC175-05-11.509A1-	11,509	29/64"	56	118	71	45	12	☹
DC175-05-11.600A1-	11,6		56	118	71	45	12	☹
DC175-05-11.700A1-	11,7		56	118	71	45	12	☹
DC175-05-11.800A1-	11,8		56	118	71	45	12	☹
DC175-05-11.900A1-	11,9		56	118	71	45	12	☹
DC175-05-12.000A1-	12		56	118	71	45	12	☹
DC175-05-12.100A1-	12,1		60	124	77	45	14	☹
DC175-05-12.200A1-	12,2		60	124	77	45	14	☹
DC175-05-12.300A1-	12,3		60	124	77	45	14	☹
DC175-05-12.303A1-	12,303	31/64"	60	124	77	45	14	☹
DC175-05-12.500A1-	12,5		60	124	77	45	14	☹
DC175-05-12.600A1-	12,6		60	124	77	45	14	☹
DC175-05-12.700A1-	12,700	1/2"	60	124	77	45	14	☹
DC175-05-12.800A1-	12,8		60	124	77	45	14	☹
DC175-05-13.000A1-	13		60	124	77	45	14	☹

Para Ø3 - 3,75, comprimento total de acordo com a DIN 6537 L, ranhuras encurtadas em comparação com a DIN 6537 L | Exemplo de pedido para a classe WJ30RZ:
DC175-05-03.000A1-WJ30RZ

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RZ
	Denominação								
DIN 6535 HA	DC175-05-13.100A1-	13,1		60	124	77	45	14	☹
	DC175-05-13.300A1-	13,3		60	124	77	45	14	☹
	DC175-05-13.494A1-	13,494	17/32"	60	124	77	45	14	☹
	DC175-05-13.500A1-	13,5		60	124	77	45	14	☹
	DC175-05-13.800A1-	13,8		60	124	77	45	14	☹
	DC175-05-14.000A1-	14		60	124	77	45	14	☹
	DC175-05-14.200A1-	14,2		63	133	83	48	16	☹
	DC175-05-14.288A1-	14,288	9/16"	63	133	83	48	16	☹
	DC175-05-14.400A1-	14,4		63	133	83	48	16	☹
	DC175-05-14.500A1-	14,5		63	133	83	48	16	☹
	DC175-05-14.800A1-	14,8		63	133	83	48	16	☹
	DC175-05-15.000A1-	15		63	133	83	48	16	☹
	DC175-05-15.100A1-	15,1		63	133	83	48	16	☹
	DC175-05-15.300A1-	15,3		63	133	83	48	16	☹
	DC175-05-15.500A1-	15,5		63	133	83	48	16	☹
	DC175-05-15.800A1-	15,8		63	133	83	48	16	☹
	DC175-05-15.875A1-	15,875	5/8"	63	133	83	48	16	☹
	DC175-05-16.000A1-	16		63	133	83	48	16	☹
	DC175-05-16.500A1-	16,5		71	143	93	48	18	☹
	DC175-05-17.000A1-	17		71	143	93	48	18	☹
	DC175-05-17.500A1-	17,5		71	143	93	48	18	☹
	DC175-05-18.000A1-	18		71	143	93	48	18	☹
	DC175-05-18.500A1-	18,5		77	153	101	50	20	☹
	DC175-05-19.000A1-	19		77	153	101	50	20	☹
	DC175-05-19.500A1-	19,5		77	153	101	50	20	☹
	DC175-05-20.000A1-	20		77	153	101	50	20	☹

Para Ø3 - 3,75, comprimento total de acordo com a DIN 6537 L, ranhuras encurtadas em comparação com a DIN 6537 L | Exemplo de pedido para a classe WJ30RZ:
DC175-05-03.000A1-WJ30RZ

B1

**WALTER
SELECT**

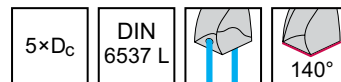
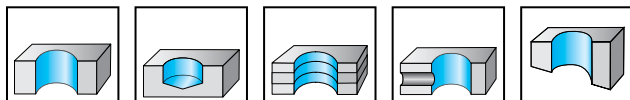
●● Aplicação principal ● Aplicação secundária
Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Broca de metal duro com canal de refrigeração

DC170 Supreme

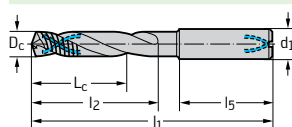


B1



	P	M	K	N	S	H	O
WJ30EJ	●●		●●			●	

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
DC170-05-03.000A1-	3		23	66	28	36	6	☹
DC170-05-03.100A1-	3,1		23	66	28	36	6	☹
DC170-05-03.175A1-	3,175	1/8"	23	66	28	36	6	☹
DC170-05-03.200A1-	3,2		23	66	28	36	6	☹
DC170-05-03.300A1-	3,3		23	66	28	36	6	☹
DC170-05-03.400A1-	3,4		23	66	28	36	6	☹
DC170-05-03.500A1-	3,5		23	66	28	36	6	☹
DC170-05-03.600A1-	3,6		23	66	28	36	6	☹
DC170-05-03.700A1-	3,7		23	66	28	36	6	☹
DC170-05-03.800A1-	3,8		29	74	36	36	6	☹
DC170-05-03.900A1-	3,9		29	74	36	36	6	☹
DC170-05-03.969A1-	3,969	5/32"	29	74	36	36	6	☹
DC170-05-04.000A1-	4		29	74	36	36	6	☹
DC170-05-04.100A1-	4,1		29	74	36	36	6	☹
DC170-05-04.200A1-	4,2		29	74	36	36	6	☹
DC170-05-04.300A1-	4,3		29	74	36	36	6	☹
DC170-05-04.366A1-	4,366	11/64"	29	74	36	36	6	☹
DC170-05-04.400A1-	4,4		29	74	36	36	6	☹
DC170-05-04.500A1-	4,5		29	74	36	36	6	☹
DC170-05-04.600A1-	4,6		29	74	36	36	6	☹
DC170-05-04.650A1-	4,65		29	74	36	36	6	☹
DC170-05-04.700A1-	4,7		29	74	36	36	6	☹
DC170-05-04.763A1-	4,763	3/16"	35	82	44	36	6	☹
DC170-05-04.800A1-	4,8		35	82	44	36	6	☹
DC170-05-04.900A1-	4,9		35	82	44	36	6	☹
DC170-05-05.000A1-	5		35	82	44	36	6	☹
DC170-05-05.100A1-	5,1		35	82	44	36	6	☹
DC170-05-05.159A1-	5,159	13/64"	35	82	44	36	6	☹
DC170-05-05.200A1-	5,2		35	82	44	36	6	☹
DC170-05-05.300A1-	5,3		35	82	44	36	6	☹
DC170-05-05.500A1-	5,5		35	82	44	36	6	☹
DC170-05-05.550A1-	5,55		35	82	44	36	6	☹
DC170-05-05.556A1-	5,556	7/32"	35	82	44	36	6	☹
DC170-05-05.600A1-	5,6		35	82	44	36	6	☹
DC170-05-05.700A1-	5,7		35	82	44	36	6	☹
DC170-05-05.800A1-	5,8		35	82	44	36	6	☹

Exemplo de pedido para a classe WJ30EJ: DC170-05-03.000A1-WJ30EJ

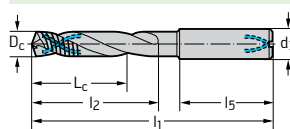
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

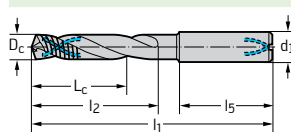
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
DC170-05-05.900A1-	5,9		35	82	44	36	6	☺
DC170-05-05.953A1-	5,953	15/64"	35	82	44	36	6	☺
DC170-05-06.000A1-	6		35	82	44	36	6	☺
DC170-05-06.100A1-	6,1		43	91	53	36	8	☺
DC170-05-06.200A1-	6,2		43	91	53	36	8	☺
DC170-05-06.300A1-	6,3		43	91	53	36	8	☺
DC170-05-06.350A1-	6,350	1/4"	43	91	53	36	8	☺
DC170-05-06.400A1-	6,4		43	91	53	36	8	☺
DC170-05-06.500A1-	6,5		43	91	53	36	8	☺
DC170-05-06.600A1-	6,6		43	91	53	36	8	☺
DC170-05-06.700A1-	6,7		43	91	53	36	8	☺
DC170-05-06.747A1-	6,747	17/64"	43	91	53	36	8	☺
DC170-05-06.800A1-	6,8		43	91	53	36	8	☺
DC170-05-06.900A1-	6,9		43	91	53	36	8	☺
DC170-05-07.000A1-	7		43	91	53	36	8	☺
DC170-05-07.100A1-	7,1		43	91	53	36	8	☺
DC170-05-07.144A1-	7,144	9/32"	43	91	53	36	8	☺
DC170-05-07.200A1-	7,2		43	91	53	36	8	☺
DC170-05-07.300A1-	7,3		43	91	53	36	8	☺
DC170-05-07.400A1-	7,4		43	91	53	36	8	☺
DC170-05-07.500A1-	7,5		43	91	53	36	8	☺
DC170-05-07.800A1-	7,8		43	91	53	36	8	☺
DC170-05-07.900A1-	7,9		43	91	53	36	8	☺
DC170-05-07.938A1-	7,938	5/16"	43	91	53	36	8	☺
DC170-05-08.000A1-	8		43	91	53	36	8	☺
DC170-05-08.100A1-	8,1		49	103	61	40	10	☺
DC170-05-08.200A1-	8,2		49	103	61	40	10	☺
DC170-05-08.300A1-	8,3		49	103	61	40	10	☺
DC170-05-08.334A1-	8,334	21/64"	49	103	61	40	10	☺
DC170-05-08.400A1-	8,4		49	103	61	40	10	☺
DC170-05-08.500A1-	8,5		49	103	61	40	10	☺
DC170-05-08.600A1-	8,6		49	103	61	40	10	☺
DC170-05-08.700A1-	8,7		49	103	61	40	10	☺
DC170-05-08.731A1-	8,731	11/32"	49	103	61	40	10	☺
DC170-05-08.800A1-	8,8		49	103	61	40	10	☺
DC170-05-09.000A1-	9		49	103	61	40	10	☺
DC170-05-09.128A1-	9,128	23/64"	49	103	61	40	10	☺
DC170-05-09.200A1-	9,2		49	103	61	40	10	☺
DC170-05-09.300A1-	9,3		49	103	61	40	10	☺
DC170-05-09.500A1-	9,5		49	103	61	40	10	☺
DC170-05-09.525A1-	9,525	3/8"	49	103	61	40	10	☺
DC170-05-09.600A1-	9,6		49	103	61	40	10	☺
DC170-05-09.700A1-	9,7		49	103	61	40	10	☺
DC170-05-09.800A1-	9,8		49	103	61	40	10	☺
DC170-05-09.900A1-	9,9		49	103	61	40	10	☺
DC170-05-10.000A1-	10		49	103	61	40	10	☺

Exemplo de pedido para a classe WJ30EJ: DC170-05-03.000A1-WJ30EJ

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30EJ
DC170-05-10.100A1-	10,1		56	118	71	45	12	☹
DC170-05-10.200A1-	10,2		56	118	71	45	12	☹
DC170-05-10.300A1-	10,3		56	118	71	45	12	☹
DC170-05-10.319A1-	10,319	13/32"	56	118	71	45	12	☹
DC170-05-10.400A1-	10,4		56	118	71	45	12	☹
DC170-05-10.500A1-	10,5		56	118	71	45	12	☹
DC170-05-10.716A1-	10,716	27/64"	56	118	71	45	12	☹
DC170-05-10.800A1-	10,8		56	118	71	45	12	☹
DC170-05-11.000A1-	11		56	118	71	45	12	☹
DC170-05-11.100A1-	11,1		56	118	71	45	12	☹
DC170-05-11.113A1-	11,113	7/16"	56	118	71	45	12	☹
DC170-05-11.200A1-	11,2		56	118	71	45	12	☹
DC170-05-11.500A1-	11,5		56	118	71	45	12	☹
DC170-05-11.509A1-	11,509	29/64"	56	118	71	45	12	☹
DC170-05-11.800A1-	11,8		56	118	71	45	12	☹
DC170-05-11.906A1-	11,906	15/32"	56	118	71	45	12	☹
DC170-05-12.000A1-	12		56	118	71	45	12	☹
DC170-05-12.100A1-	12,1		60	124	77	45	14	☹
DC170-05-12.200A1-	12,2		60	124	77	45	14	☹
DC170-05-12.300A1-	12,3		60	124	77	45	14	☹
DC170-05-12.303A1-	12,303	31/64"	60	124	77	45	14	☹
DC170-05-12.500A1-	12,5		60	124	77	45	14	☹
DC170-05-12.700A1-	12,700	1/2"	60	124	77	45	14	☹
DC170-05-13.000A1-	13		60	124	77	45	14	☹
DC170-05-13.300A1-	13,3		60	124	77	45	14	☹
DC170-05-13.494A1-	13,494	17/32"	60	124	77	45	14	☹
DC170-05-13.500A1-	13,5		60	124	77	45	14	☹
DC170-05-14.000A1-	14		60	124	77	45	14	☹
DC170-05-14.288A1-	14,288	9/16"	63	133	83	48	16	☹
DC170-05-14.500A1-	14,5		63	133	83	48	16	☹
DC170-05-15.000A1-	15		63	133	83	48	16	☹
DC170-05-15.500A1-	15,5		63	133	83	48	16	☹
DC170-05-15.875A1-	15,875	5/8"	63	133	83	48	16	☹
DC170-05-16.000A1-	16		63	133	83	48	16	☹
DC170-05-16.500A1-	16,5		71	143	93	48	18	☹
DC170-05-17.000A1-	17		71	143	93	48	18	☹
DC170-05-17.500A1-	17,5		71	143	93	48	18	☹
DC170-05-18.000A1-	18		71	143	93	48	18	☹
DC170-05-18.500A1-	18,5		77	153	101	50	20	☹
DC170-05-19.000A1-	19		77	153	101	50	20	☹
DC170-05-19.050A1-	19,050	3/4"	77	153	101	50	20	☹
DC170-05-20.000A1-	20		77	153	101	50	20	☹

Exemplo de pedido para a classe WJ30EJ: DC170-05-03.000A1-WJ30EJ

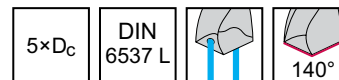
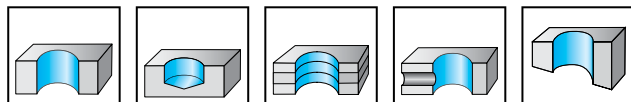
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

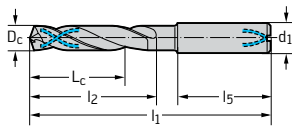
Broca helicoidal VHM

DC166 Supreme



	P	M	K	N	S	H	O
WJ30UU				●●			

B1

Ferramenta		D _c m7 mm	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30UU
 DIN 6535 HA	Denominação							
	DC166-05-03.000A1-	3	23	66	28	36	6	☺
	DC166-05-04.000A1-	4	29	74	36	36	6	☺
	DC166-05-04.200A1-	4,2	29	74	36	36	6	☺
	DC166-05-05.000A1-	5	35	82	44	36	6	☺
	DC166-05-06.000A1-	6	35	82	44	36	6	☺
	DC166-05-06.800A1-	6,8	43	91	53	36	8	☺
	DC166-05-07.500A1-	7,5	43	91	53	36	8	☺
	DC166-05-08.000A1-	8	43	91	53	36	8	☺
	DC166-05-08.500A1-	8,5	49	103	61	40	10	☺
	DC166-05-09.300A1-	9,3	49	103	61	40	10	☺
	DC166-05-10.000A1-	10	49	103	61	40	10	☺
	DC166-05-10.200A1-	10,2	56	118	71	45	12	☺
	DC166-05-12.000A1-	12	56	118	71	45	12	☺

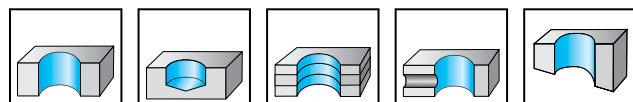
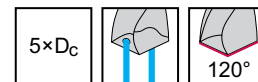
Exemplo de pedido para a classe WJ30UU: DC166-05-03.000A1-WJ30UU

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

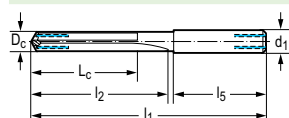
Brocas de metal duro com canal de refrigeração, retas.

DC165 Advance



	P	M	K	N	S	H	O
WJ30UU			●●	●●			

Ferramenta



DIN 6535 HA

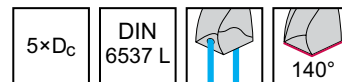
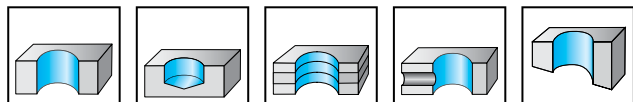
Denominação	D _c k6 mm	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ mm	WJ30UU
DC165-05-04.000A1-	4	16	74	31	36	6	☺
DC165-05-05.000A1-	5	22	82	40	36	6	☺
DC165-05-06.000A1-	6	22	82	40	36	6	☺
DC165-05-08.000A1-	8	29	91	49	36	8	☺
DC165-05-08.500A1-	8,5	37	103	57	40	10	☺
DC165-05-10.000A1-	10	37	103	57	40	10	☺
DC165-05-10.200A1-	10,2	43	118	67	45	12	☺
DC165-05-11.000A1-	11	43	118	67	45	12	☺
DC165-05-12.000A1-	12	43	118	67	45	12	☺
DC165-05-14.000A1-	14	45	124	73	45	14	☺
DC165-05-15.000A1-	15	55	133	79	48	16	☺
DC165-05-16.000A1-	16	55	133	79	48	16	☺

Exemplo de pedido para a classe WJ30UU: DC165-05-04.000A1-WJ30UU

Broca de metal duro com canal de refrigeração

DC160 Advance

X-treme Evo



	P	M	K	N	S	H	O
WJ30ET	●●	●	●●	●●	●●	●	●

B1

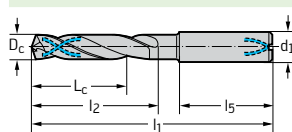
Ferramenta	Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
 DIN 6535 HA	DC160-05-03.000A1-	3		23	66	28	36	6	☺
	DC160-05-03.100A1-	3,1		23	66	28	36	6	☺
	DC160-05-03.175A1-	3,175	1/8"	23	66	28	36	6	☺
	DC160-05-03.200A1-	3,2		23	66	28	36	6	☺
	DC160-05-03.250A1-	3,25		23	66	28	36	6	☺
	DC160-05-03.300A1-	3,3		23	66	28	36	6	☺
	DC160-05-03.400A1-	3,4		23	66	28	36	6	☺
	DC160-05-03.500A1-	3,5		23	66	28	36	6	☺
	DC160-05-03.572A1-	3,572	9/64"	23	66	28	36	6	☺
	DC160-05-03.600A1-	3,6		23	66	28	36	6	☺
	DC160-05-03.650A1-	3,65		23	66	28	36	6	☺
	DC160-05-03.700A1-	3,7		23	66	28	36	6	☺
	DC160-05-03.800A1-	3,8		29	74	36	36	6	☺
	DC160-05-03.900A1-	3,9		29	74	36	36	6	☺
	DC160-05-03.969A1-	3,969	5/32"	29	74	36	36	6	☺
	DC160-05-04.000A1-	4		29	74	36	36	6	☺
	DC160-05-04.100A1-	4,1		29	74	36	36	6	☺
	DC160-05-04.200A1-	4,2		29	74	36	36	6	☺
	DC160-05-04.300A1-	4,3		29	74	36	36	6	☺
	DC160-05-04.366A1-	4,366	11/64"	29	74	36	36	6	☺
	DC160-05-04.400A1-	4,4		29	74	36	36	6	☺
	DC160-05-04.500A1-	4,5		29	74	36	36	6	☺
	DC160-05-04.600A1-	4,6		29	74	36	36	6	☺
	DC160-05-04.650A1-	4,65		29	74	36	36	6	☺
	DC160-05-04.700A1-	4,7		29	74	36	36	6	☺
	DC160-05-04.763A1-	4,763	3/16"	35	82	44	36	6	☺
	DC160-05-04.800A1-	4,8		35	82	44	36	6	☺
	DC160-05-04.900A1-	4,9		35	82	44	36	6	☺
	DC160-05-05.000A1-	5		35	82	44	36	6	☺
	DC160-05-05.100A1-	5,1		35	82	44	36	6	☺
	DC160-05-05.159A1-	5,159	13/64"	35	82	44	36	6	☺
	DC160-05-05.200A1-	5,2		35	82	44	36	6	☺
	DC160-05-05.300A1-	5,3		35	82	44	36	6	☺
	DC160-05-05.400A1-	5,4		35	82	44	36	6	☺
	DC160-05-05.500A1-	5,5		35	82	44	36	6	☺
	DC160-05-05.550A1-	5,55		35	82	44	36	6	☺

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A1-WJ30ET

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-05-05.556A1-	5,556	7/32"	35	82	44	36	6	☺
DC160-05-05.600A1-	5,6		35	82	44	36	6	☺
DC160-05-05.700A1-	5,7		35	82	44	36	6	☺
DC160-05-05.800A1-	5,8		35	82	44	36	6	☺
DC160-05-05.900A1-	5,9		35	82	44	36	6	☺
DC160-05-05.953A1-	5,953	15/64"	35	82	44	36	6	☺
DC160-05-06.000A1-	6		35	82	44	36	6	☺
DC160-05-06.100A1-	6,1		43	91	53	36	8	☺
DC160-05-06.200A1-	6,2		43	91	53	36	8	☺
DC160-05-06.300A1-	6,3		43	91	53	36	8	☺
DC160-05-06.350A1-	6,350	1/4"	43	91	53	36	8	☺
DC160-05-06.400A1-	6,4		43	91	53	36	8	☺
DC160-05-06.500A1-	6,5		43	91	53	36	8	☺
DC160-05-06.600A1-	6,6		43	91	53	36	8	☺
DC160-05-06.700A1-	6,7		43	91	53	36	8	☺
DC160-05-06.747A1-	6,747	17/64"	43	91	53	36	8	☺
DC160-05-06.800A1-	6,8		43	91	53	36	8	☺
DC160-05-06.900A1-	6,9		43	91	53	36	8	☺
DC160-05-07.000A1-	7		43	91	53	36	8	☺
DC160-05-07.100A1-	7,1		43	91	53	36	8	☺
DC160-05-07.144A1-	7,144	9/32"	43	91	53	36	8	☺
DC160-05-07.200A1-	7,2		43	91	53	36	8	☺
DC160-05-07.300A1-	7,3		43	91	53	36	8	☺
DC160-05-07.400A1-	7,4		43	91	53	36	8	☺
DC160-05-07.500A1-	7,5		43	91	53	36	8	☺
DC160-05-07.541A1-	7,541	19/64"	43	91	53	36	8	☺
DC160-05-07.550A1-	7,55		43	91	53	36	8	☺
DC160-05-07.600A1-	7,6		43	91	53	36	8	☺
DC160-05-07.700A1-	7,7		43	91	53	36	8	☺
DC160-05-07.800A1-	7,8		43	91	53	36	8	☺
DC160-05-07.900A1-	7,9		43	91	53	36	8	☺
DC160-05-07.938A1-	7,938	5/16"	43	91	53	36	8	☺
DC160-05-08.000A1-	8		43	91	53	36	8	☺
DC160-05-08.100A1-	8,1		49	103	61	40	10	☺
DC160-05-08.200A1-	8,2		49	103	61	40	10	☺
DC160-05-08.300A1-	8,3		49	103	61	40	10	☺
DC160-05-08.334A1-	8,334	21/64"	49	103	61	40	10	☺
DC160-05-08.400A1-	8,4		49	103	61	40	10	☺
DC160-05-08.500A1-	8,5		49	103	61	40	10	☺
DC160-05-08.600A1-	8,6		49	103	61	40	10	☺
DC160-05-08.700A1-	8,7		49	103	61	40	10	☺
DC160-05-08.731A1-	8,731	11/32"	49	103	61	40	10	☺
DC160-05-08.800A1-	8,8		49	103	61	40	10	☺
DC160-05-08.900A1-	8,9		49	103	61	40	10	☺
DC160-05-09.000A1-	9		49	103	61	40	10	☺
DC160-05-09.100A1-	9,1		49	103	61	40	10	☺

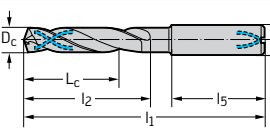
Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A1-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

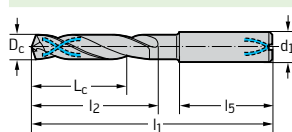
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Denominação								
	DC160-05-09.128A1-	9,128	23/64"	49	103	61	40	10	☹
	DC160-05-09.200A1-	9,2		49	103	61	40	10	☹
	DC160-05-09.300A1-	9,3		49	103	61	40	10	☹
	DC160-05-09.400A1-	9,4		49	103	61	40	10	☹
	DC160-05-09.500A1-	9,5		49	103	61	40	10	☹
	DC160-05-09.525A1-	9,525	3/8"	49	103	61	40	10	☹
	DC160-05-09.550A1-	9,55		49	103	61	40	10	☹
	DC160-05-09.600A1-	9,6		49	103	61	40	10	☹
	DC160-05-09.700A1-	9,7		49	103	61	40	10	☹
	DC160-05-09.800A1-	9,8		49	103	61	40	10	☹
	DC160-05-09.900A1-	9,9		49	103	61	40	10	☹
	DC160-05-09.922A1-	9,922	25/64"	49	103	61	40	10	☹
	DC160-05-10.000A1-	10		49	103	61	40	10	☹
	DC160-05-10.100A1-	10,1		56	118	71	45	12	☹
	DC160-05-10.200A1-	10,2		56	118	71	45	12	☹
	DC160-05-10.300A1-	10,3		56	118	71	45	12	☹
	DC160-05-10.319A1-	10,319	13/32"	56	118	71	45	12	☹
	DC160-05-10.400A1-	10,4		56	118	71	45	12	☹
	DC160-05-10.500A1-	10,5		56	118	71	45	12	☹
	DC160-05-10.600A1-	10,6		56	118	71	45	12	☹
	DC160-05-10.700A1-	10,7		56	118	71	45	12	☹
	DC160-05-10.716A1-	10,716	27/64"	56	118	71	45	12	☹
	DC160-05-10.800A1-	10,8		56	118	71	45	12	☹
	DC160-05-10.900A1-	10,9		56	118	71	45	12	☹
	DC160-05-11.000A1-	11		56	118	71	45	12	☹
	DC160-05-11.100A1-	11,1		56	118	71	45	12	☹
	DC160-05-11.113A1-	11,113	7/16"	56	118	71	45	12	☹
	DC160-05-11.200A1-	11,2		56	118	71	45	12	☹
	DC160-05-11.300A1-	11,3		56	118	71	45	12	☹
	DC160-05-11.400A1-	11,4		56	118	71	45	12	☹
	DC160-05-11.500A1-	11,5		56	118	71	45	12	☹
	DC160-05-11.509A1-	11,509	29/64"	56	118	71	45	12	☹
	DC160-05-11.550A1-	11,55		56	118	71	45	12	☹
	DC160-05-11.600A1-	11,6		56	118	71	45	12	☹
	DC160-05-11.700A1-	11,7		56	118	71	45	12	☹
	DC160-05-11.800A1-	11,8		56	118	71	45	12	☹
	DC160-05-11.900A1-	11,9		56	118	71	45	12	☹
	DC160-05-11.906A1-	11,906	15/32"	56	118	71	45	12	☹
	DC160-05-12.000A1-	12		56	118	71	45	12	☹
	DC160-05-12.100A1-	12,1		60	124	77	45	14	☹
	DC160-05-12.200A1-	12,2		60	124	77	45	14	☹
	DC160-05-12.250A1-	12,25		60	124	77	45	14	☹
	DC160-05-12.300A1-	12,3		60	124	77	45	14	☹
	DC160-05-12.303A1-	12,303	31/64"	60	124	77	45	14	☹
	DC160-05-12.400A1-	12,4		60	124	77	45	14	☹
	DC160-05-12.500A1-	12,5		60	124	77	45	14	☹

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A1-WJ30ET

WALTER
SELECT

● ● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

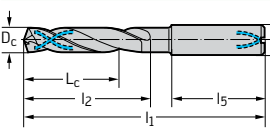
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-05-12.600A1-	12,6		60	124	77	45	14	☹
DC160-05-12.700A1-	12,700	1/2"	60	124	77	45	14	☹
DC160-05-12.750A1-	12,75		60	124	77	45	14	☹
DC160-05-12.800A1-	12,8		60	124	77	45	14	☹
DC160-05-12.900A1-	12,9		60	124	77	45	14	☹
DC160-05-13.000A1-	13		60	124	77	45	14	☹
DC160-05-13.100A1-	13,1		60	124	77	45	14	☹
DC160-05-13.200A1-	13,2		60	124	77	45	14	☹
DC160-05-13.300A1-	13,3		60	124	77	45	14	☹
DC160-05-13.400A1-	13,4		60	124	77	45	14	☹
DC160-05-13.494A1-	13,494	17/32"	60	124	77	45	14	☹
DC160-05-13.500A1-	13,5		60	124	77	45	14	☹
DC160-05-13.600A1-	13,6		60	124	77	45	14	☹
DC160-05-13.700A1-	13,7		60	124	77	45	14	☹
DC160-05-13.800A1-	13,8		60	124	77	45	14	☹
DC160-05-13.900A1-	13,9		60	124	77	45	14	☹
DC160-05-14.000A1-	14		60	124	77	45	14	☹
DC160-05-14.100A1-	14,1		63	133	83	48	16	☹
DC160-05-14.200A1-	14,2		63	133	83	48	16	☹
DC160-05-14.288A1-	14,288	9/16"	63	133	83	48	16	☹
DC160-05-14.300A1-	14,3		63	133	83	48	16	☹
DC160-05-14.400A1-	14,4		63	133	83	48	16	☹
DC160-05-14.500A1-	14,5		63	133	83	48	16	☹
DC160-05-14.600A1-	14,6		63	133	83	48	16	☹
DC160-05-14.700A1-	14,7		63	133	83	48	16	☹
DC160-05-14.750A1-	14,75		63	133	83	48	16	☹
DC160-05-14.800A1-	14,8		63	133	83	48	16	☹
DC160-05-14.900A1-	14,9		63	133	83	48	16	☹
DC160-05-15.000A1-	15		63	133	83	48	16	☹
DC160-05-15.100A1-	15,1		63	133	83	48	16	☹
DC160-05-15.200A1-	15,2		63	133	83	48	16	☹
DC160-05-15.300A1-	15,3		63	133	83	48	16	☹
DC160-05-15.400A1-	15,4		63	133	83	48	16	☹
DC160-05-15.500A1-	15,5		63	133	83	48	16	☹
DC160-05-15.600A1-	15,6		63	133	83	48	16	☹
DC160-05-15.700A1-	15,7		63	133	83	48	16	☹
DC160-05-15.800A1-	15,8		63	133	83	48	16	☹
DC160-05-15.875A1-	15,875	5/8"	63	133	83	48	16	☹
DC160-05-15.900A1-	15,9		63	133	83	48	16	☹
DC160-05-16.000A1-	16		63	133	83	48	16	☹
DC160-05-16.100A1-	16,1		71	143	93	48	18	☹
DC160-05-16.200A1-	16,2		71	143	93	48	18	☹
DC160-05-16.300A1-	16,3		71	143	93	48	18	☹
DC160-05-16.400A1-	16,4		71	143	93	48	18	☹
DC160-05-16.500A1-	16,5		71	143	93	48	18	☹
DC160-05-16.600A1-	16,6		71	143	93	48	18	☹

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A1-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

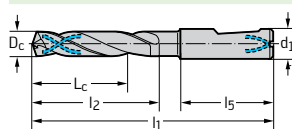
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Denominação								
	DC160-05-16.700A1-	16,7		71	143	93	48	18	☹
	DC160-05-16.750A1-	16,75		71	143	93	48	18	☹
	DC160-05-16.800A1-	16,8		71	143	93	48	18	☹
	DC160-05-16.900A1-	16,9		71	143	93	48	18	☹
	DC160-05-17.000A1-	17		71	143	93	48	18	☹
	DC160-05-17.100A1-	17,1		71	143	93	48	18	☹
	DC160-05-17.200A1-	17,2		71	143	93	48	18	☹
	DC160-05-17.300A1-	17,3		71	143	93	48	18	☹
	DC160-05-17.400A1-	17,4		71	143	93	48	18	☹
	DC160-05-17.500A1-	17,5		71	143	93	48	18	☹
	DC160-05-17.600A1-	17,6		71	143	93	48	18	☹
	DC160-05-17.700A1-	17,7		71	143	93	48	18	☹
	DC160-05-17.800A1-	17,8		71	143	93	48	18	☹
	DC160-05-17.900A1-	17,9		71	143	93	48	18	☹
	DC160-05-18.000A1-	18		71	143	93	48	18	☹
	DC160-05-18.100A1-	18,1		77	153	101	50	20	☹
	DC160-05-18.200A1-	18,2		77	153	101	50	20	☹
	DC160-05-18.300A1-	18,3		77	153	101	50	20	☹
	DC160-05-18.400A1-	18,4		77	153	101	50	20	☹
	DC160-05-18.500A1-	18,5		77	153	101	50	20	☹
	DC160-05-18.600A1-	18,6		77	153	101	50	20	☹
	DC160-05-18.700A1-	18,7		77	153	101	50	20	☹
	DC160-05-18.800A1-	18,8		77	153	101	50	20	☹
	DC160-05-18.900A1-	18,9		77	153	101	50	20	☹
	DC160-05-19.000A1-	19		77	153	101	50	20	☹
	DC160-05-19.050A1-	19,050	3/4"	77	153	101	50	20	☹
	DC160-05-19.100A1-	19,1		77	153	101	50	20	☹
	DC160-05-19.200A1-	19,2		77	153	101	50	20	☹
	DC160-05-19.300A1-	19,3		77	153	101	50	20	☹
	DC160-05-19.400A1-	19,4		77	153	101	50	20	☹
	DC160-05-19.500A1-	19,5		77	153	101	50	20	☹
	DC160-05-19.600A1-	19,6		77	153	101	50	20	☹
	DC160-05-19.700A1-	19,7		77	153	101	50	20	☹
	DC160-05-19.800A1-	19,8		77	153	101	50	20	☹
	DC160-05-19.900A1-	19,9		77	153	101	50	20	☹
	DC160-05-20.000A1-	20		77	153	101	50	20	☹
	DC160-05-20.500A1-	20,5		86	166	108	56	25	☹
	DC160-05-21.000A1-	21		86	166	108	56	25	☹
	DC160-05-21.500A1-	21,5		86	166	108	56	25	☹
	DC160-05-22.000A1-	22		86	166	108	56	25	☹
	DC160-05-22.500A1-	22,5		91	173	115	56	25	☹
	DC160-05-23.000A1-	23		91	173	115	56	25	☹
	DC160-05-23.500A1-	23,5		91	173	115	56	25	☹
	DC160-05-24.000A1-	24		91	173	115	56	25	☹
	DC160-05-24.500A1-	24,5		97	180	122	56	25	☹
	DC160-05-25.000A1-	25		97	180	122	56	25	☹

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A1-WJ30ET

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HE

B1

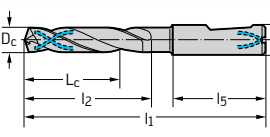
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-05-03.000F1-	3		23	66	28	36	6	☹
DC160-05-03.100F1-	3,1		23	66	28	36	6	☹
DC160-05-03.200F1-	3,2		23	66	28	36	6	☹
DC160-05-03.250F1-	3,25		23	66	28	36	6	☹
DC160-05-03.300F1-	3,3		23	66	28	36	6	☹
DC160-05-03.400F1-	3,4		23	66	28	36	6	☹
DC160-05-03.500F1-	3,5		23	66	28	36	6	☹
DC160-05-03.600F1-	3,6		23	66	28	36	6	☹
DC160-05-03.650F1-	3,65		23	66	28	36	6	☹
DC160-05-03.700F1-	3,7		23	66	28	36	6	☹
DC160-05-03.800F1-	3,8		29	74	36	36	6	☹
DC160-05-03.900F1-	3,9		29	74	36	36	6	☹
DC160-05-04.000F1-	4		29	74	36	36	6	☹
DC160-05-04.100F1-	4,1		29	74	36	36	6	☹
DC160-05-04.200F1-	4,2		29	74	36	36	6	☹
DC160-05-04.300F1-	4,3		29	74	36	36	6	☹
DC160-05-04.400F1-	4,4		29	74	36	36	6	☹
DC160-05-04.500F1-	4,5		29	74	36	36	6	☹
DC160-05-04.600F1-	4,6		29	74	36	36	6	☹
DC160-05-04.650F1-	4,65		29	74	36	36	6	☹
DC160-05-04.700F1-	4,7		29	74	36	36	6	☹
DC160-05-04.800F1-	4,8		35	82	44	36	6	☹
DC160-05-04.900F1-	4,9		35	82	44	36	6	☹
DC160-05-05.000F1-	5		35	82	44	36	6	☹
DC160-05-05.100F1-	5,1		35	82	44	36	6	☹
DC160-05-05.200F1-	5,2		35	82	44	36	6	☹
DC160-05-05.300F1-	5,3		35	82	44	36	6	☹
DC160-05-05.400F1-	5,4		35	82	44	36	6	☹
DC160-05-05.500F1-	5,5		35	82	44	36	6	☹
DC160-05-05.550F1-	5,55		35	82	44	36	6	☹
DC160-05-05.600F1-	5,6		35	82	44	36	6	☹
DC160-05-05.700F1-	5,7		35	82	44	36	6	☹
DC160-05-05.800F1-	5,8		35	82	44	36	6	☹
DC160-05-05.900F1-	5,9		35	82	44	36	6	☹
DC160-05-06.000F1-	6		35	82	44	36	6	☹
DC160-05-06.100F1-	6,1		43	91	53	36	8	☹
DC160-05-06.200F1-	6,2		43	91	53	36	8	☹
DC160-05-06.300F1-	6,3		43	91	53	36	8	☹
DC160-05-06.400F1-	6,4		43	91	53	36	8	☹
DC160-05-06.500F1-	6,5		43	91	53	36	8	☹
DC160-05-06.600F1-	6,6		43	91	53	36	8	☹
DC160-05-06.700F1-	6,7		43	91	53	36	8	☹
DC160-05-06.800F1-	6,8		43	91	53	36	8	☹
DC160-05-06.900F1-	6,9		43	91	53	36	8	☹
DC160-05-07.000F1-	7		43	91	53	36	8	☹
DC160-05-07.100F1-	7,1		43	91	53	36	8	☹

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A1-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

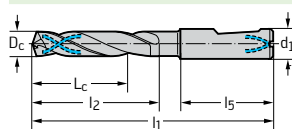
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Denominação								
	DC160-05-07.200F1-	7,2		43	91	53	36	8	☹
	DC160-05-07.300F1-	7,3		43	91	53	36	8	☹
	DC160-05-07.400F1-	7,4		43	91	53	36	8	☹
	DC160-05-07.500F1-	7,5		43	91	53	36	8	☹
	DC160-05-07.550F1-	7,55		43	91	53	36	8	☹
	DC160-05-07.600F1-	7,6		43	91	53	36	8	☹
	DC160-05-07.700F1-	7,7		43	91	53	36	8	☹
	DC160-05-07.800F1-	7,8		43	91	53	36	8	☹
	DC160-05-07.900F1-	7,9		43	91	53	36	8	☹
	DC160-05-08.000F1-	8		43	91	53	36	8	☹
	DC160-05-08.100F1-	8,1		49	103	61	40	10	☹
	DC160-05-08.200F1-	8,2		49	103	61	40	10	☹
	DC160-05-08.300F1-	8,3		49	103	61	40	10	☹
	DC160-05-08.400F1-	8,4		49	103	61	40	10	☹
	DC160-05-08.500F1-	8,5		49	103	61	40	10	☹
	DC160-05-08.600F1-	8,6		49	103	61	40	10	☹
	DC160-05-08.700F1-	8,7		49	103	61	40	10	☹
	DC160-05-08.800F1-	8,8		49	103	61	40	10	☹
	DC160-05-08.900F1-	8,9		49	103	61	40	10	☹
	DC160-05-09.000F1-	9		49	103	61	40	10	☹
	DC160-05-09.100F1-	9,1		49	103	61	40	10	☹
	DC160-05-09.200F1-	9,2		49	103	61	40	10	☹
	DC160-05-09.300F1-	9,3		49	103	61	40	10	☹
	DC160-05-09.400F1-	9,4		49	103	61	40	10	☹
	DC160-05-09.500F1-	9,5		49	103	61	40	10	☹
	DC160-05-09.550F1-	9,55		49	103	61	40	10	☹
	DC160-05-09.600F1-	9,6		49	103	61	40	10	☹
	DC160-05-09.700F1-	9,7		49	103	61	40	10	☹
	DC160-05-09.800F1-	9,8		49	103	61	40	10	☹
	DC160-05-09.900F1-	9,9		49	103	61	40	10	☹
	DC160-05-10.000F1-	10		49	103	61	40	10	☹
	DC160-05-10.100F1-	10,1		56	118	71	45	12	☹
	DC160-05-10.200F1-	10,2		56	118	71	45	12	☹
	DC160-05-10.300F1-	10,3		56	118	71	45	12	☹
	DC160-05-10.400F1-	10,4		56	118	71	45	12	☹
	DC160-05-10.500F1-	10,5		56	118	71	45	12	☹
	DC160-05-10.600F1-	10,6		56	118	71	45	12	☹
	DC160-05-10.700F1-	10,7		56	118	71	45	12	☹
	DC160-05-10.800F1-	10,8		56	118	71	45	12	☹
	DC160-05-10.900F1-	10,9		56	118	71	45	12	☹
	DC160-05-11.000F1-	11		56	118	71	45	12	☹
	DC160-05-11.100F1-	11,1		56	118	71	45	12	☹
	DC160-05-11.200F1-	11,2		56	118	71	45	12	☹
	DC160-05-11.300F1-	11,3		56	118	71	45	12	☹
	DC160-05-11.400F1-	11,4		56	118	71	45	12	☹
	DC160-05-11.500F1-	11,5		56	118	71	45	12	☹

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A1-WJ30ET

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹☹

Ferramenta



DIN 6535 HE

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-05-11.550F1-	11,55		56	118	71	45	12	☹
DC160-05-11.600F1-	11,6		56	118	71	45	12	☹
DC160-05-11.700F1-	11,7		56	118	71	45	12	☹
DC160-05-11.800F1-	11,8		56	118	71	45	12	☹
DC160-05-11.900F1-	11,9		56	118	71	45	12	☹
DC160-05-12.000F1-	12		56	118	71	45	12	☹
DC160-05-12.100F1-	12,1		60	124	77	45	14	☹
DC160-05-12.200F1-	12,2		60	124	77	45	14	☹
DC160-05-12.250F1-	12,25		60	124	77	45	14	☹
DC160-05-12.300F1-	12,3		60	124	77	45	14	☹
DC160-05-12.400F1-	12,4		60	124	77	45	14	☹
DC160-05-12.500F1-	12,5		60	124	77	45	14	☹
DC160-05-12.600F1-	12,6		60	124	77	45	14	☹
DC160-05-12.700F1-	12,700	1/2"	60	124	77	45	14	☹
DC160-05-12.800F1-	12,8		60	124	77	45	14	☹
DC160-05-12.900F1-	12,9		60	124	77	45	14	☹
DC160-05-13.000F1-	13		60	124	77	45	14	☹
DC160-05-13.100F1-	13,1		60	124	77	45	14	☹
DC160-05-13.200F1-	13,2		60	124	77	45	14	☹
DC160-05-13.300F1-	13,3		60	124	77	45	14	☹
DC160-05-13.400F1-	13,4		60	124	77	45	14	☹
DC160-05-13.500F1-	13,5		60	124	77	45	14	☹
DC160-05-13.600F1-	13,6		60	124	77	45	14	☹
DC160-05-13.700F1-	13,7		60	124	77	45	14	☹
DC160-05-13.800F1-	13,8		60	124	77	45	14	☹
DC160-05-13.900F1-	13,9		60	124	77	45	14	☹
DC160-05-14.000F1-	14		60	124	77	45	14	☹
DC160-05-14.100F1-	14,1		63	133	83	48	16	☹
DC160-05-14.200F1-	14,2		63	133	83	48	16	☹
DC160-05-14.300F1-	14,3		63	133	83	48	16	☹
DC160-05-14.400F1-	14,4		63	133	83	48	16	☹
DC160-05-14.500F1-	14,5		63	133	83	48	16	☹
DC160-05-14.600F1-	14,6		63	133	83	48	16	☹
DC160-05-14.700F1-	14,7		63	133	83	48	16	☹
DC160-05-14.750F1-	14,75		63	133	83	48	16	☹
DC160-05-14.800F1-	14,8		63	133	83	48	16	☹
DC160-05-14.900F1-	14,9		63	133	83	48	16	☹
DC160-05-15.000F1-	15		63	133	83	48	16	☹
DC160-05-15.100F1-	15,1		63	133	83	48	16	☹
DC160-05-15.200F1-	15,2		63	133	83	48	16	☹
DC160-05-15.300F1-	15,3		63	133	83	48	16	☹
DC160-05-15.400F1-	15,4		63	133	83	48	16	☹
DC160-05-15.500F1-	15,5		63	133	83	48	16	☹
DC160-05-15.600F1-	15,6		63	133	83	48	16	☹
DC160-05-15.700F1-	15,7		63	133	83	48	16	☹
DC160-05-15.800F1-	15,8		63	133	83	48	16	☹

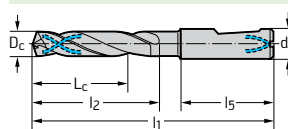
Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A1-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



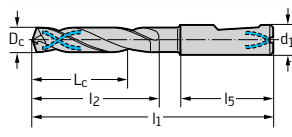
DIN 6535 HE

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-05-15.900F1-	15,9		63	133	83	48	16	☹
DC160-05-16.000F1-	16		63	133	83	48	16	☹
DC160-05-16.100F1-	16,1		71	143	93	48	18	☹
DC160-05-16.200F1-	16,2		71	143	93	48	18	☹
DC160-05-16.300F1-	16,3		71	143	93	48	18	☹
DC160-05-16.400F1-	16,4		71	143	93	48	18	☹
DC160-05-16.500F1-	16,5		71	143	93	48	18	☹
DC160-05-16.600F1-	16,6		71	143	93	48	18	☹
DC160-05-16.700F1-	16,7		71	143	93	48	18	☹
DC160-05-16.750F1-	16,75		71	143	93	48	18	☹
DC160-05-16.800F1-	16,8		71	143	93	48	18	☹
DC160-05-16.900F1-	16,9		71	143	93	48	18	☹
DC160-05-17.000F1-	17		71	143	93	48	18	☹
DC160-05-17.100F1-	17,1		71	143	93	48	18	☹
DC160-05-17.200F1-	17,2		71	143	93	48	18	☹
DC160-05-17.300F1-	17,3		71	143	93	48	18	☹
DC160-05-17.400F1-	17,4		71	143	93	48	18	☹
DC160-05-17.500F1-	17,5		71	143	93	48	18	☹
DC160-05-17.600F1-	17,6		71	143	93	48	18	☹
DC160-05-17.700F1-	17,7		71	143	93	48	18	☹
DC160-05-17.800F1-	17,8		71	143	93	48	18	☹
DC160-05-17.900F1-	17,9		71	143	93	48	18	☹
DC160-05-18.000F1-	18		71	143	93	48	18	☹
DC160-05-18.100F1-	18,1		77	153	101	50	20	☹
DC160-05-18.200F1-	18,2		77	153	101	50	20	☹
DC160-05-18.300F1-	18,3		77	153	101	50	20	☹
DC160-05-18.400F1-	18,4		77	153	101	50	20	☹
DC160-05-18.500F1-	18,5		77	153	101	50	20	☹
DC160-05-18.600F1-	18,6		77	153	101	50	20	☹
DC160-05-18.700F1-	18,7		77	153	101	50	20	☹
DC160-05-18.800F1-	18,8		77	153	101	50	20	☹
DC160-05-18.900F1-	18,9		77	153	101	50	20	☹
DC160-05-19.000F1-	19		77	153	101	50	20	☹
DC160-05-19.100F1-	19,1		77	153	101	50	20	☹
DC160-05-19.200F1-	19,2		77	153	101	50	20	☹
DC160-05-19.300F1-	19,3		77	153	101	50	20	☹
DC160-05-19.400F1-	19,4		77	153	101	50	20	☹
DC160-05-19.500F1-	19,5		77	153	101	50	20	☹
DC160-05-19.600F1-	19,6		77	153	101	50	20	☹
DC160-05-19.700F1-	19,7		77	153	101	50	20	☹
DC160-05-19.800F1-	19,8		77	153	101	50	20	☹
DC160-05-19.900F1-	19,9		77	153	101	50	20	☹
DC160-05-20.000F1-	20		77	153	101	50	20	☹
DC160-05-20.500F1-	20,5		86	166	108	56	25	☹
DC160-05-21.000F1-	21		86	166	108	56	25	☹
DC160-05-21.500F1-	21,5		86	166	108	56	25	☹

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A1-WJ30ET

**WALTER
SELECT**

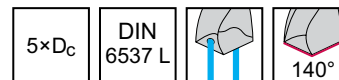
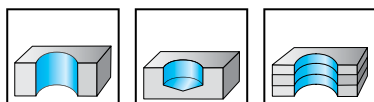
●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹☹

Ferramenta		D _c m7 mm	D _c inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
 DIN 6535 HE	DC160-05-22.000F1-	22		86	166	108	56	25	☺
	DC160-05-22.500F1-	22,5		91	173	115	56	25	☺
	DC160-05-23.000F1-	23		91	173	115	56	25	☺
	DC160-05-23.500F1-	23,5		91	173	115	56	25	☺
	DC160-05-24.000F1-	24		91	173	115	56	25	☺
	DC160-05-24.500F1-	24,5		97	180	122	56	25	☺
	DC160-05-25.000F1-	25		97	180	122	56	25	☺

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A1-WJ30ET

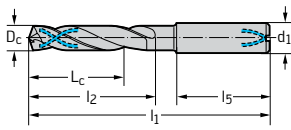
Broca de metal duro com canal de refrigeração

DC150 Perform



	P	M	K	N	S	H	O
WJ30RE	●●	●	●●	●●	●●	●	●

B1

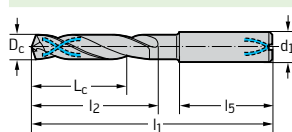
Ferramenta		D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
 DIN 6535 HA	Denominação								
	DC150-05-03.000A1-	3		23	66	28	36	6	☹
	DC150-05-03.100A1-	3,1		23	66	28	36	6	☹
	DC150-05-03.175A1-	3,175	1/8"	23	66	28	36	6	☹
	DC150-05-03.200A1-	3,2		23	66	28	36	6	☹
	DC150-05-03.250A1-	3,25		23	66	28	36	6	☹
	DC150-05-03.300A1-	3,3		23	66	28	36	6	☹
	DC150-05-03.400A1-	3,4		23	66	28	36	6	☹
	DC150-05-03.500A1-	3,5		23	66	28	36	6	☹
	DC150-05-03.572A1-	3,572	9/64"	23	66	28	36	6	☹
	DC150-05-03.600A1-	3,6		23	66	28	36	6	☹
	DC150-05-03.650A1-	3,65		23	66	28	36	6	☹
	DC150-05-03.700A1-	3,7		23	66	28	36	6	☹
	DC150-05-03.800A1-	3,8		29	74	36	36	6	☹
	DC150-05-03.900A1-	3,9		29	74	36	36	6	☹
	DC150-05-03.969A1-	3,969	5/32"	29	74	36	36	6	☹
	DC150-05-04.000A1-	4		29	74	36	36	6	☹
	DC150-05-04.100A1-	4,1		29	74	36	36	6	☹
	DC150-05-04.200A1-	4,2		29	74	36	36	6	☹
	DC150-05-04.300A1-	4,3		29	74	36	36	6	☹
	DC150-05-04.366A1-	4,366	11/64"	29	74	36	36	6	☹
	DC150-05-04.400A1-	4,4		29	74	36	36	6	☹
	DC150-05-04.500A1-	4,5		29	74	36	36	6	☹
	DC150-05-04.600A1-	4,6		29	74	36	36	6	☹
	DC150-05-04.650A1-	4,65		29	74	36	36	6	☹
	DC150-05-04.700A1-	4,7		29	74	36	36	6	☹
	DC150-05-04.763A1-	4,763	3/16"	35	82	44	36	6	☹
	DC150-05-04.800A1-	4,8		35	82	44	36	6	☹
	DC150-05-04.900A1-	4,9		35	82	44	36	6	☹
	DC150-05-05.000A1-	5		35	82	44	36	6	☹
	DC150-05-05.100A1-	5,1		35	82	44	36	6	☹
	DC150-05-05.159A1-	5,159	13/64"	35	82	44	36	6	☹
	DC150-05-05.200A1-	5,2		35	82	44	36	6	☹
	DC150-05-05.300A1-	5,3		35	82	44	36	6	☹
	DC150-05-05.400A1-	5,4		35	82	44	36	6	☹
	DC150-05-05.500A1-	5,5		35	82	44	36	6	☹
	DC150-05-05.550A1-	5,55		35	82	44	36	6	☹

Exemplo de pedido para a classe WJ30RE: DC150-05-03.000A1-WJ30RE

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

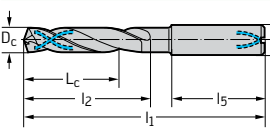
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30RE
DC150-05-05.556A1-	5,556	7/32"	35	82	44	36	6	☺
DC150-05-05.600A1-	5,6		35	82	44	36	6	☺
DC150-05-05.700A1-	5,7		35	82	44	36	6	☺
DC150-05-05.800A1-	5,8		35	82	44	36	6	☺
DC150-05-05.900A1-	5,9		35	82	44	36	6	☺
DC150-05-05.953A1-	5,953	15/64"	35	82	44	36	6	☺
DC150-05-06.000A1-	6		35	82	44	36	6	☺
DC150-05-06.100A1-	6,1		43	91	53	36	8	☺
DC150-05-06.200A1-	6,2		43	91	53	36	8	☺
DC150-05-06.300A1-	6,3		43	91	53	36	8	☺
DC150-05-06.350A1-	6,350	1/4"	43	91	53	36	8	☺
DC150-05-06.400A1-	6,4		43	91	53	36	8	☺
DC150-05-06.500A1-	6,5		43	91	53	36	8	☺
DC150-05-06.600A1-	6,6		43	91	53	36	8	☺
DC150-05-06.700A1-	6,7		43	91	53	36	8	☺
DC150-05-06.747A1-	6,747	17/64"	43	91	53	36	8	☺
DC150-05-06.800A1-	6,8		43	91	53	36	8	☺
DC150-05-06.900A1-	6,9		43	91	53	36	8	☺
DC150-05-07.000A1-	7		43	91	53	36	8	☺
DC150-05-07.100A1-	7,1		43	91	53	36	8	☺
DC150-05-07.144A1-	7,144	9/32"	43	91	53	36	8	☺
DC150-05-07.200A1-	7,2		43	91	53	36	8	☺
DC150-05-07.300A1-	7,3		43	91	53	36	8	☺
DC150-05-07.400A1-	7,4		43	91	53	36	8	☺
DC150-05-07.500A1-	7,5		43	91	53	36	8	☺
DC150-05-07.541A1-	7,541	19/64"	43	91	53	36	8	☺
DC150-05-07.550A1-	7,55		43	91	53	36	8	☺
DC150-05-07.600A1-	7,6		43	91	53	36	8	☺
DC150-05-07.700A1-	7,7		43	91	53	36	8	☺
DC150-05-07.800A1-	7,8		43	91	53	36	8	☺
DC150-05-07.900A1-	7,9		43	91	53	36	8	☺
DC150-05-07.938A1-	7,938	5/16"	43	91	53	36	8	☺
DC150-05-08.000A1-	8		43	91	53	36	8	☺
DC150-05-08.100A1-	8,1		49	103	61	40	10	☺
DC150-05-08.200A1-	8,2		49	103	61	40	10	☺
DC150-05-08.300A1-	8,3		49	103	61	40	10	☺
DC150-05-08.334A1-	8,334	21/64"	49	103	61	40	10	☺
DC150-05-08.400A1-	8,4		49	103	61	40	10	☺
DC150-05-08.500A1-	8,5		49	103	61	40	10	☺
DC150-05-08.600A1-	8,6		49	103	61	40	10	☺
DC150-05-08.700A1-	8,7		49	103	61	40	10	☺
DC150-05-08.731A1-	8,731	11/32"	49	103	61	40	10	☺
DC150-05-08.800A1-	8,8		49	103	61	40	10	☺
DC150-05-08.900A1-	8,9		49	103	61	40	10	☺
DC150-05-09.000A1-	9		49	103	61	40	10	☺
DC150-05-09.100A1-	9,1		49	103	61	40	10	☺

Exemplo de pedido para a classe WJ30RE: DC150-05-03.000A1-WJ30RE

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹☹

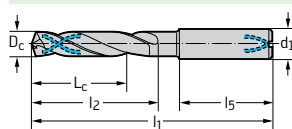
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
	Denominação								
	DC150-05-09.128A1-	9,128	23/64"	49	103	61	40	10	☹
	DC150-05-09.200A1-	9,2		49	103	61	40	10	☹
	DC150-05-09.300A1-	9,3		49	103	61	40	10	☹
	DC150-05-09.400A1-	9,4		49	103	61	40	10	☹
	DC150-05-09.500A1-	9,5		49	103	61	40	10	☹
	DC150-05-09.525A1-	9,525	3/8"	49	103	61	40	10	☹
	DC150-05-09.550A1-	9,55		49	103	61	40	10	☹
	DC150-05-09.600A1-	9,6		49	103	61	40	10	☹
	DC150-05-09.700A1-	9,7		49	103	61	40	10	☹
	DC150-05-09.800A1-	9,8		49	103	61	40	10	☹
	DC150-05-09.900A1-	9,9		49	103	61	40	10	☹
	DC150-05-09.922A1-	9,922	25/64"	49	103	61	40	10	☹
	DC150-05-10.000A1-	10		49	103	61	40	10	☹
	DC150-05-10.100A1-	10,1		56	118	71	45	12	☹
	DC150-05-10.200A1-	10,2		56	118	71	45	12	☹
	DC150-05-10.300A1-	10,3		56	118	71	45	12	☹
	DC150-05-10.319A1-	10,319	13/32"	56	118	71	45	12	☹
	DC150-05-10.400A1-	10,4		56	118	71	45	12	☹
	DC150-05-10.500A1-	10,5		56	118	71	45	12	☹
	DC150-05-10.600A1-	10,6		56	118	71	45	12	☹
	DC150-05-10.700A1-	10,7		56	118	71	45	12	☹
	DC150-05-10.716A1-	10,716	27/64"	56	118	71	45	12	☹
	DC150-05-10.800A1-	10,8		56	118	71	45	12	☹
	DC150-05-10.900A1-	10,9		56	118	71	45	12	☹
	DC150-05-11.000A1-	11		56	118	71	45	12	☹
	DC150-05-11.100A1-	11,1		56	118	71	45	12	☹
	DC150-05-11.113A1-	11,113	7/16"	56	118	71	45	12	☹
	DC150-05-11.200A1-	11,2		56	118	71	45	12	☹
	DC150-05-11.300A1-	11,3		56	118	71	45	12	☹
	DC150-05-11.400A1-	11,4		56	118	71	45	12	☹
	DC150-05-11.500A1-	11,5		56	118	71	45	12	☹
	DC150-05-11.509A1-	11,509	29/64"	56	118	71	45	12	☹
	DC150-05-11.600A1-	11,6		56	118	71	45	12	☹
	DC150-05-11.700A1-	11,7		56	118	71	45	12	☹
	DC150-05-11.800A1-	11,8		56	118	71	45	12	☹
	DC150-05-11.900A1-	11,9		56	118	71	45	12	☹
	DC150-05-11.906A1-	11,906	15/32"	56	118	71	45	12	☹
	DC150-05-12.000A1-	12		56	118	71	45	12	☹
	DC150-05-12.100A1-	12,1		60	124	77	45	14	☹
	DC150-05-12.200A1-	12,2		60	124	77	45	14	☹
	DC150-05-12.250A1-	12,25		60	124	77	45	14	☹
	DC150-05-12.300A1-	12,3		60	124	77	45	14	☹
	DC150-05-12.303A1-	12,303	31/64"	60	124	77	45	14	☹
	DC150-05-12.400A1-	12,4		60	124	77	45	14	☹
	DC150-05-12.500A1-	12,5		60	124	77	45	14	☹
	DC150-05-12.600A1-	12,6		60	124	77	45	14	☹

Exemplo de pedido para a classe WJ30RE: DC150-05-03.000A1-WJ30RE

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

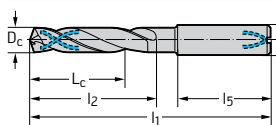
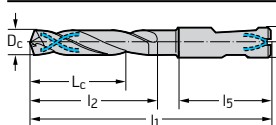
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30RE
DC150-05-12.700A1-	12,700	1/2"	60	124	77	45	14	☺
DC150-05-12.800A1-	12,8		60	124	77	45	14	☺
DC150-05-12.900A1-	12,9		60	124	77	45	14	☺
DC150-05-13.000A1-	13		60	124	77	45	14	☺
DC150-05-13.100A1-	13,1		60	124	77	45	14	☺
DC150-05-13.200A1-	13,2		60	124	77	45	14	☺
DC150-05-13.300A1-	13,3		60	124	77	45	14	☺
DC150-05-13.400A1-	13,4		60	124	77	45	14	☺
DC150-05-13.494A1-	13,494	17/32"	60	124	77	45	14	☺
DC150-05-13.500A1-	13,5		60	124	77	45	14	☺
DC150-05-13.600A1-	13,6		60	124	77	45	14	☺
DC150-05-13.700A1-	13,7		60	124	77	45	14	☺
DC150-05-13.800A1-	13,8		60	124	77	45	14	☺
DC150-05-13.900A1-	13,9		60	124	77	45	14	☺
DC150-05-14.000A1-	14		60	124	77	45	14	☺
DC150-05-14.100A1-	14,1		63	133	83	48	16	☺
DC150-05-14.200A1-	14,2		63	133	83	48	16	☺
DC150-05-14.288A1-	14,288	9/16"	63	133	83	48	16	☺
DC150-05-14.300A1-	14,3		63	133	83	48	16	☺
DC150-05-14.500A1-	14,5		63	133	83	48	16	☺
DC150-05-14.600A1-	14,6		63	133	83	48	16	☺
DC150-05-14.700A1-	14,7		63	133	83	48	16	☺
DC150-05-14.750A1-	14,75		63	133	83	48	16	☺
DC150-05-14.800A1-	14,8		63	133	83	48	16	☺
DC150-05-15.000A1-	15		63	133	83	48	16	☺
DC150-05-15.100A1-	15,1		63	133	83	48	16	☺
DC150-05-15.200A1-	15,2		63	133	83	48	16	☺
DC150-05-15.300A1-	15,3		63	133	83	48	16	☺
DC150-05-15.500A1-	15,5		63	133	83	48	16	☺
DC150-05-15.600A1-	15,6		63	133	83	48	16	☺
DC150-05-15.700A1-	15,7		63	133	83	48	16	☺
DC150-05-15.800A1-	15,8		63	133	83	48	16	☺
DC150-05-15.875A1-	15,875	5/8"	63	133	83	48	16	☺
DC150-05-16.000A1-	16		63	133	83	48	16	☺
DC150-05-16.100A1-	16,1		71	143	93	48	18	☺
DC150-05-16.200A1-	16,2		71	143	93	48	18	☺
DC150-05-16.300A1-	16,3		71	143	93	48	18	☺
DC150-05-16.500A1-	16,5		71	143	93	48	18	☺
DC150-05-16.700A1-	16,7		71	143	93	48	18	☺
DC150-05-16.750A1-	16,75		71	143	93	48	18	☺
DC150-05-17.000A1-	17		71	143	93	48	18	☺
DC150-05-17.100A1-	17,1		71	143	93	48	18	☺
DC150-05-17.200A1-	17,2		71	143	93	48	18	☺
DC150-05-17.300A1-	17,3		71	143	93	48	18	☺
DC150-05-17.500A1-	17,5		71	143	93	48	18	☺
DC150-05-17.600A1-	17,6		71	143	93	48	18	☺

Exemplo de pedido para a classe WJ30RE: DC150-05-03.000A1-WJ30RE

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

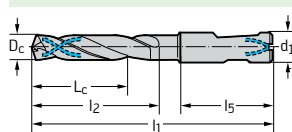
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
 DIN 6535 HA	DC150-05-17.700A1-	17,7		71	143	93	48	18	☺
	DC150-05-17.800A1-	17,8		71	143	93	48	18	☺
	DC150-05-17.900A1-	17,9		71	143	93	48	18	☺
	DC150-05-18.000A1-	18		71	143	93	48	18	☺
	DC150-05-18.500A1-	18,5		77	153	101	50	20	☺
	DC150-05-18.900A1-	18,9		77	153	101	50	20	☺
	DC150-05-19.000A1-	19		77	153	101	50	20	☺
	DC150-05-19.050A1-	19,050	3/4"	77	153	101	50	20	☺
	DC150-05-19.300A1-	19,3		77	153	101	50	20	☺
	DC150-05-19.500A1-	19,5		77	153	101	50	20	☺
	DC150-05-19.700A1-	19,7		77	153	101	50	20	☺
	DC150-05-19.800A1-	19,8		77	153	101	50	20	☺
	DC150-05-20.000A1-	20		77	153	101	50	20	☺
	DC150-05-03.000D1-	3		23	66	28	36	6	☺
 DIN 6535 HE, turned 180° DIN 6535 HB	DC150-05-03.100D1-	3,1		23	66	28	36	6	☺
	DC150-05-03.200D1-	3,2		23	66	28	36	6	☺
	DC150-05-03.300D1-	3,3		23	66	28	36	6	☺
	DC150-05-03.400D1-	3,4		23	66	28	36	6	☺
	DC150-05-03.500D1-	3,5		23	66	28	36	6	☺
	DC150-05-03.600D1-	3,6		23	66	28	36	6	☺
	DC150-05-03.700D1-	3,7		23	66	28	36	6	☺
	DC150-05-03.800D1-	3,8		29	74	36	36	6	☺
	DC150-05-03.900D1-	3,9		29	74	36	36	6	☺
	DC150-05-04.000D1-	4		29	74	36	36	6	☺
	DC150-05-04.100D1-	4,1		29	74	36	36	6	☺
	DC150-05-04.200D1-	4,2		29	74	36	36	6	☺
	DC150-05-04.300D1-	4,3		29	74	36	36	6	☺
	DC150-05-04.400D1-	4,4		29	74	36	36	6	☺
	DC150-05-04.500D1-	4,5		29	74	36	36	6	☺
	DC150-05-04.600D1-	4,6		29	74	36	36	6	☺
	DC150-05-04.650D1-	4,65		29	74	36	36	6	☺
	DC150-05-04.700D1-	4,7		29	74	36	36	6	☺
	DC150-05-04.800D1-	4,8		35	82	44	36	6	☺
	DC150-05-04.900D1-	4,9		35	82	44	36	6	☺
	DC150-05-05.000D1-	5		35	82	44	36	6	☺
	DC150-05-05.100D1-	5,1		35	82	44	36	6	☺
	DC150-05-05.200D1-	5,2		35	82	44	36	6	☺
	DC150-05-05.300D1-	5,3		35	82	44	36	6	☺
	DC150-05-05.400D1-	5,4		35	82	44	36	6	☺
	DC150-05-05.500D1-	5,5		35	82	44	36	6	☺
	DC150-05-05.550D1-	5,55		35	82	44	36	6	☺
	DC150-05-05.600D1-	5,6		35	82	44	36	6	☺
	DC150-05-05.700D1-	5,7		35	82	44	36	6	☺
	DC150-05-05.800D1-	5,8		35	82	44	36	6	☺
	DC150-05-05.900D1-	5,9		35	82	44	36	6	☺
	DC150-05-06.000D1-	6		35	82	44	36	6	☺

Exemplo de pedido para a classe WJ30RE: DC150-05-03.000A1-WJ30RE

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HE, turned 180° DIN 6535 HB

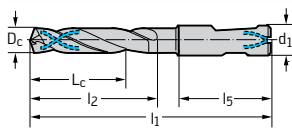
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30RE
DC150-05-06.100D1-	6,1		43	91	53	36	8	☹
DC150-05-06.200D1-	6,2		43	91	53	36	8	☹
DC150-05-06.300D1-	6,2		43	91	53	36	8	☹
DC150-05-06.400D1-	6,4		43	91	53	36	8	☹
DC150-05-06.500D1-	6,5		43	91	53	36	8	☹
DC150-05-06.600D1-	6,6		43	91	53	36	8	☹
DC150-05-06.700D1-	6,7		43	91	53	36	8	☹
DC150-05-06.800D1-	6,8		43	91	53	36	8	☹
DC150-05-06.900D1-	6,9		43	91	53	36	8	☹
DC150-05-07.000D1-	7		43	91	53	36	8	☹
DC150-05-07.100D1-	7,1		43	91	53	36	8	☹
DC150-05-07.200D1-	7,2		43	91	53	36	8	☹
DC150-05-07.300D1-	7,3		43	91	53	36	8	☹
DC150-05-07.400D1-	7,4		43	91	53	36	8	☹
DC150-05-07.500D1-	7,5		43	91	53	36	8	☹
DC150-05-07.600D1-	7,6		43	91	53	36	8	☹
DC150-05-07.700D1-	7,7		43	91	53	36	8	☹
DC150-05-07.800D1-	7,8		43	91	53	36	8	☹
DC150-05-07.900D1-	7,9		43	91	53	36	8	☹
DC150-05-08.000D1-	8		43	91	53	36	8	☹
DC150-05-08.100D1-	8,1		49	103	61	40	10	☹
DC150-05-08.200D1-	8,2		49	103	61	40	10	☹
DC150-05-08.300D1-	8,3		49	103	61	40	10	☹
DC150-05-08.400D1-	8,4		49	103	61	40	10	☹
DC150-05-08.500D1-	8,5		49	103	61	40	10	☹
DC150-05-08.600D1-	8,6		49	103	61	40	10	☹
DC150-05-08.700D1-	8,7		49	103	61	40	10	☹
DC150-05-08.800D1-	8,8		49	103	61	40	10	☹
DC150-05-09.000D1-	9		49	103	61	40	10	☹
DC150-05-09.100D1-	9,1		49	103	61	40	10	☹
DC150-05-09.200D1-	9,2		49	103	61	40	10	☹
DC150-05-09.300D1-	9,3		49	103	61	40	10	☹
DC150-05-09.400D1-	9,4		49	103	61	40	10	☹
DC150-05-09.500D1-	9,5		49	103	61	40	10	☹
DC150-05-09.600D1-	9,6		49	103	61	40	10	☹
DC150-05-09.700D1-	9,7		49	103	61	40	10	☹
DC150-05-09.800D1-	9,8		49	103	61	40	10	☹
DC150-05-09.900D1-	9,9		49	103	61	40	10	☹
DC150-05-10.000D1-	10		49	103	61	40	10	☹
DC150-05-10.100D1-	10,1		56	118	71	45	12	☹
DC150-05-10.200D1-	10,2		56	118	71	45	12	☹
DC150-05-10.300D1-	10,3		56	118	71	45	12	☹
DC150-05-10.400D1-	10,4		56	118	71	45	12	☹
DC150-05-10.500D1-	10,5		56	118	71	45	12	☹
DC150-05-10.600D1-	10,6		56	118	71	45	12	☹
DC150-05-10.800D1-	10,8		56	118	71	45	12	☹

Exemplo de pedido para a classe WJ30RE: DC150-05-03.000A1-WJ30RE

WALTER
SELECT

Ferramenta ideal para condições de usinagem

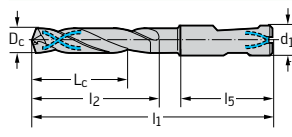
●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
	Denominação								
DIN 6535 HE, turned 180° DIN 6535 HB	DC150-05-11.000D1-	11		56	118	71	45	12	☺
	DC150-05-11.100D1-	11,1		56	118	71	45	12	☺
	DC150-05-11.200D1-	11,2		56	118	71	45	12	☺
	DC150-05-11.300D1-	11,3		56	118	71	45	12	☺
	DC150-05-11.500D1-	11,5		56	118	71	45	12	☺
	DC150-05-11.600D1-	11,6		56	118	71	45	12	☺
	DC150-05-11.700D1-	11,7		56	118	71	45	12	☺
	DC150-05-11.800D1-	11,8		56	118	71	45	12	☺
	DC150-05-11.900D1-	11,9		56	118	71	45	12	☺
	DC150-05-12.000D1-	12		56	118	71	45	12	☺
	DC150-05-12.100D1-	12,1		60	124	77	45	14	☺
	DC150-05-12.200D1-	12,2		60	124	77	45	14	☺
	DC150-05-12.300D1-	12,3		60	124	77	45	14	☺
	DC150-05-12.400D1-	12,4		60	124	77	45	14	☺
	DC150-05-12.500D1-	12,5		60	124	77	45	14	☺
	DC150-05-12.700D1-	12,700	1/2"	60	124	77	45	14	☺
	DC150-05-12.800D1-	12,8		60	124	77	45	14	☺
	DC150-05-13.000D1-	13		60	124	77	45	14	☺
	DC150-05-13.100D1-	13,1		60	124	77	45	14	☺
	DC150-05-13.200D1-	13,2		60	124	77	45	14	☺
	DC150-05-13.500D1-	13,5		60	124	77	45	14	☺
	DC150-05-13.800D1-	13,8		60	124	77	45	14	☺
	DC150-05-14.000D1-	14		60	124	77	45	14	☺
	DC150-05-14.100D1-	14,1		63	133	83	48	16	☺
	DC150-05-14.200D1-	14,2		63	133	83	48	16	☺
	DC150-05-14.300D1-	14,3		63	133	83	48	16	☺
	DC150-05-14.500D1-	14,5		63	133	83	48	16	☺
	DC150-05-14.600D1-	14,6		63	133	83	48	16	☺
	DC150-05-14.800D1-	14,8		63	133	83	48	16	☺
	DC150-05-15.000D1-	15		63	133	83	48	16	☺
	DC150-05-15.100D1-	15,1		63	133	83	48	16	☺
	DC150-05-15.200D1-	15,2		63	133	83	48	16	☺
	DC150-05-15.300D1-	15,3		63	133	83	48	16	☺
	DC150-05-15.500D1-	15,5		63	133	83	48	16	☺
	DC150-05-15.600D1-	15,6		63	133	83	48	16	☺
	DC150-05-15.700D1-	15,7		63	133	83	48	16	☺
	DC150-05-15.800D1-	15,8		63	133	83	48	16	☺
	DC150-05-16.000D1-	16		63	133	83	48	16	☺
	DC150-05-16.500D1-	16,5		71	143	93	48	18	☺
	DC150-05-16.600D1-	16,6		71	143	93	48	18	☺
	DC150-05-17.000D1-	17		71	143	93	48	18	☺
	DC150-05-17.200D1-	17,2		71	143	93	48	18	☺
	DC150-05-17.300D1-	17,3		71	143	93	48	18	☺
	DC150-05-17.500D1-	17,5		71	143	93	48	18	☺
	DC150-05-17.700D1-	17,7		71	143	93	48	18	☺
	DC150-05-17.800D1-	17,8		71	143	93	48	18	☺

Exemplo de pedido para a classe WJ30RE: DC150-05-03.000A1-WJ30RE

WALTER
SELECT

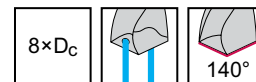
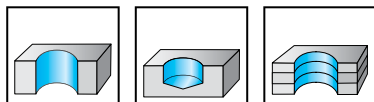
●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
	DC150-05-18.000D1-	18		71	143	93	48	18	☺☺
	DC150-05-18.100D1-	18,1		77	153	101	50	20	☺☺
	DC150-05-18.500D1-	18,5		77	153	101	50	20	☺☺
	DC150-05-18.800D1-	18,8		77	153	101	50	20	☺☺
	DC150-05-19.000D1-	19		77	153	101	50	20	☺☺
	DC150-05-19.500D1-	19,5		77	153	101	50	20	☺☺
	DC150-05-19.700D1-	19,7		77	153	101	50	20	☺☺
	DC150-05-20.000D1-	20		77	153	101	50	20	☺☺

Exemplo de pedido para a classe WJ30RE: DC150-05-03.000A1-WJ30RE

Microbrocas de metal duro com canal de refrigeração

DB133 Supreme



	P	M	K	N	S	H	O
WJ30ER	●●	●●	●●	●●	●●	●	●

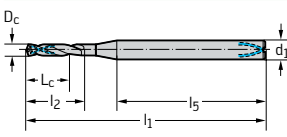
B1

Ferramenta									
	Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ER
DIN 6535 HA	DB133-08-00.700A1-	0,7		6,9	50	8	35	3	
	DB133-08-00.750A1-	0,75		7,8	50	9	34	3	
	DB133-08-00.794A1-	0,794	1/32"	7,8	50	9	34	3	
	DB133-08-00.800A1-	0,8		7,8	50	9	34	3	
	DB133-08-00.850A1-	0,85		8,6	53	10	36	3	
	DB133-08-00.900A1-	0,9		8,6	53	10	36	3	
	DB133-08-00.950A1-	0,95		10,5	53	12	34	3	
	DB133-08-01.000A1-	1		10,5	53	12	34	3	
	DB133-08-01.050A1-	1,05		11	54	13	35	3	
	DB133-08-01.100A1-	1,1		11	54	13	35	3	
	DB133-08-01.150A1-	1,15		12	54	14	34	3	
	DB133-08-01.191A1-	1,191	3/64"	12	54	14	34	3	
	DB133-08-01.200A1-	1,2		12	54	14	34	3	
	DB133-08-01.250A1-	1,25		12	54	14	34	3	
	DB133-08-01.300A1-	1,3		13	57	15	36	3	
	DB133-08-01.350A1-	1,35		13	57	16	35	3	
	DB133-08-01.400A1-	1,4		13	57	16	35	3	
	DB133-08-01.450A1-	1,45		14	57	17	34	3	
	DB133-08-01.500A1-	1,5		14	57	17	34	3	
	DB133-08-01.550A1-	1,55		15	60	18	37	3	
	DB133-08-01.588A1-	1,588	1/16"	15	60	18	37	3	
	DB133-08-01.600A1-	1,6		15	60	18	37	3	
	DB133-08-01.650A1-	1,65		17	60	20	35	3	
	DB133-08-01.700A1-	1,7		17	60	20	35	3	
	DB133-08-01.750A1-	1,75		18	60	21	34	3	
	DB133-08-01.800A1-	1,8		18	60	21	34	3	
	DB133-08-01.820A1-	1,82		19	63	22	36	3	
	DB133-08-01.850A1-	1,85		19	63	22	36	3	
	DB133-08-01.900A1-	1,9		19	63	22	36	3	
	DB133-08-01.950A1-	1,95		20	63	23	35	3	
	DB133-08-01.984A1-	1,984	5/64"	20	63	23	35	3	
	DB133-08-02.000A1-	2		20	63	23	35	3	
	DB133-08-02.050A1-	2,05		20	63	24	35	3	
	DB133-08-02.100A1-	2,1		20	63	24	35	3	
	DB133-08-02.150A1-	2,15		21	63	25	34	3	
	DB133-08-02.200A1-	2,2		21	63	25	34	3	

Exemplo de pedido para a classe WJ30ER: DB133-08-00.700A1-WJ30ER

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ER
 DIN 6535 HA	DB133-08-02.250A1-	2,25		22	67	26	37	3	☺
	DB133-08-02.300A1-	2,3		22	67	26	37	3	☺
	DB133-08-02.350A1-	2,35		24	67	28	35	3	☺
	DB133-08-02.381A1-	2,381	3/32"	24	67	28	35	3	☺
	DB133-08-02.400A1-	2,4		24	67	28	35	3	☺
	DB133-08-02.450A1-	2,45		25	67	29	34	3	☺
	DB133-08-02.500A1-	2,5		25	67	29	34	3	☺
	DB133-08-02.550A1-	2,55		26	71	30	37	3	☺
	DB133-08-02.600A1-	2,6		26	71	30	37	3	☺
	DB133-08-02.650A1-	2,65		26	71	31	37	3	☺
	DB133-08-02.700A1-	2,7		26	71	31	37	3	☺
	DB133-08-02.750A1-	2,75		27	71	32	36	3	☺
	DB133-08-02.778A1-	2,778	7/64"	27	71	32	36	3	☺
	DB133-08-02.800A1-	2,8		27	71	32	36	3	☺
	DB133-08-02.850A1-	2,85		28	71	33	35	3	☺
	DB133-08-02.900A1-	2,9		28	71	33	35	3	☺
	DB133-08-02.950A1-	2,95		29	71	34	34	3	☺

Exemplo de pedido para a classe WJ30ER: DB133-08-00.700A1-WJ30ER

Broca helicoidal de metal duro 3 canais

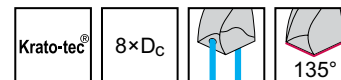
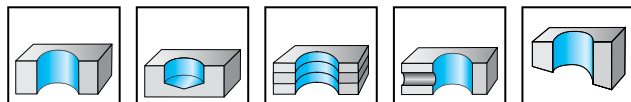
DC183 Supreme

X-treme Evo 3

Powered by Krato-tec®



– com revestimento multicamada inovador Krato-tec®



	P	M	K	N	S	H	O
WJ30EY	●●	●	●●	●●	●		

B1

Ferramenta	Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EY
DIN 6535 HA	DC183-08-03.000A1-	3		28	74	34	36	6	☺
	DC183-08-03.300A1-	3,3		28	74	34	36	6	☺
	DC183-08-03.500A1-	3,5		28	74	34	36	6	☺
	DC183-08-04.000A1-	4		37	85	45	36	6	☺
	DC183-08-04.200A1-	4,2		37	85	45	36	6	☺
	DC183-08-04.500A1-	4,5		37	85	45	36	6	☺
	DC183-08-04.763A1-	4,763	3/16"	48	97	57	36	6	☺
	DC183-08-05.000A1-	5		48	97	57	36	6	☺
	DC183-08-05.100A1-	5,1		48	97	57	36	6	☺
	DC183-08-05.500A1-	5,5		48	97	57	36	6	☺
	DC183-08-05.800A1-	5,8		48	97	57	36	6	☺
	DC183-08-06.000A1-	6		48	97	57	36	6	☺
	DC183-08-06.350A1-	6,350	1/4"	55	106	66	36	8	☺
	DC183-08-06.500A1-	6,5		55	106	66	36	8	☺
	DC183-08-06.800A1-	6,8		55	106	66	36	8	☺
	DC183-08-07.000A1-	7		55	106	66	36	8	☺
	DC183-08-07.800A1-	7,8		64	116	76	36	8	☺
	DC183-08-08.000A1-	8		64	116	76	36	8	☺
	DC183-08-08.500A1-	8,5		80	139	95	40	10	☺
	DC183-08-09.000A1-	9		80	139	95	40	10	☺
	DC183-08-09.800A1-	9,8		80	139	95	40	10	☺
	DC183-08-10.000A1-	10		80	139	95	40	10	☺
	DC183-08-10.500A1-	10,5		96	163	114	45	12	☺
	DC183-08-11.000A1-	11		96	163	114	45	12	☺
	DC183-08-11.113A1-	11,113	7/16"	96	163	114	45	12	☺
	DC183-08-12.000A1-	12		96	163	114	45	12	☺
	DC183-08-12.700A1-	12,700	1/2"	119	182	133	45	14	☺
	DC183-08-13.000A1-	13		119	182	133	45	14	☺
	DC183-08-13.500A1-	13,5		119	182	133	45	14	☺
	DC183-08-14.000A1-	14		119	182	133	45	14	☺
	DC183-08-15.000A1-	15		136	204	152	48	16	☺
	DC183-08-16.000A1-	16		136	204	152	48	16	☺

Exemplo de pedido para a classe WJ30EY: DC183-08-03.000A1-WJ30EY

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Broca de metal duro com canal de refrigeração

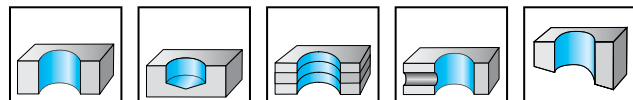
DC180 Supreme

X-treme Evo Plus

Powered by Krato-tec®

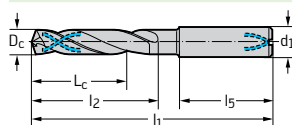


– com revestimento multicamada inovador Krato-tec®



	P	M	K	N	S	H	O
WJ30EY	●●	●●	●●	●●	●●	●●	●

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EY
DC180-08-03.000A1-	3		28	74	34	36	6	☹
DC180-08-03.100A1-	3,1		28	74	34	36	6	☹
DC180-08-03.175A1-	3,175	1/8"	28	74	34	36	6	☹
DC180-08-03.200A1-	3,2		28	74	34	36	6	☹
DC180-08-03.300A1-	3,3		28	74	34	36	6	☹
DC180-08-03.400A1-	3,4		28	74	34	36	6	☹
DC180-08-03.500A1-	3,5		28	74	34	36	6	☹
DC180-08-03.572A1-	3,572	9/64"	28	74	34	36	6	☹
DC180-08-03.600A1-	3,6		28	74	34	36	6	☹
DC180-08-03.700A1-	3,7		28	74	34	36	6	☹
DC180-08-03.800A1-	3,8		37	85	45	36	6	☹
DC180-08-03.900A1-	3,9		37	85	45	36	6	☹
DC180-08-03.969A1-	3,969	5/32"	37	85	45	36	6	☹
DC180-08-04.000A1-	4		37	85	45	36	6	☹
DC180-08-04.100A1-	4,1		37	85	45	36	6	☹
DC180-08-04.200A1-	4,2		37	85	45	36	6	☹
DC180-08-04.300A1-	4,3		37	85	45	36	6	☹
DC180-08-04.366A1-	4,366	11/64"	37	85	45	36	6	☹
DC180-08-04.400A1-	4,4		37	85	45	36	6	☹
DC180-08-04.500A1-	4,5		37	85	45	36	6	☹
DC180-08-04.600A1-	4,6		37	85	45	36	6	☹
DC180-08-04.700A1-	4,7		37	85	45	36	6	☹
DC180-08-04.763A1-	4,763	3/16"	48	97	57	36	6	☹
DC180-08-04.800A1-	4,8		48	97	57	36	6	☹
DC180-08-04.900A1-	4,9		48	97	57	36	6	☹
DC180-08-05.000A1-	5		48	97	57	36	6	☹
DC180-08-05.100A1-	5,1		48	97	57	36	6	☹
DC180-08-05.159A1-	5,159	13/64"	48	97	57	36	6	☹
DC180-08-05.200A1-	5,2		48	97	57	36	6	☹
DC180-08-05.300A1-	5,3		48	97	57	36	6	☹
DC180-08-05.400A1-	5,4		48	97	57	36	6	☹
DC180-08-05.500A1-	5,5		48	97	57	36	6	☹
DC180-08-05.556A1-	5,556	7/32"	48	97	57	36	6	☹
DC180-08-05.600A1-	5,6		48	97	57	36	6	☹
DC180-08-05.700A1-	5,7		48	97	57	36	6	☹
DC180-08-05.800A1-	5,8		48	97	57	36	6	☹

Exemplo de pedido para a classe WJ30EY: DC180-08-03.000A1-WJ30EY

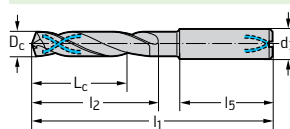
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

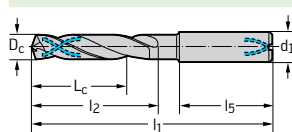
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EY
DC180-08-05.900A1-	5,9		48	97	57	36	6	☹
DC180-08-05.953A1-	5,953	15/64"	48	97	57	36	6	☹
DC180-08-06.000A1-	6		48	97	57	36	6	☹
DC180-08-06.100A1-	6,1		55	106	66	36	8	☹
DC180-08-06.200A1-	6,2		55	106	66	36	8	☹
DC180-08-06.300A1-	6,3		55	106	66	36	8	☹
DC180-08-06.350A1-	6,350	1/4"	55	106	66	36	8	☹
DC180-08-06.400A1-	6,4		55	106	66	36	8	☹
DC180-08-06.500A1-	6,5		55	106	66	36	8	☹
DC180-08-06.600A1-	6,6		55	106	66	36	8	☹
DC180-08-06.700A1-	6,7		55	106	66	36	8	☹
DC180-08-06.747A1-	6,747	17/64"	55	106	66	36	8	☹
DC180-08-06.800A1-	6,8		55	106	66	36	8	☹
DC180-08-06.900A1-	6,9		55	106	66	36	8	☹
DC180-08-07.000A1-	7		55	106	66	36	8	☹
DC180-08-07.100A1-	7,1		64	116	76	36	8	☹
DC180-08-07.144A1-	7,144	9/32"	64	116	76	36	8	☹
DC180-08-07.200A1-	7,2		64	116	76	36	8	☹
DC180-08-07.300A1-	7,3		64	116	76	36	8	☹
DC180-08-07.400A1-	7,4		64	116	76	36	8	☹
DC180-08-07.500A1-	7,5		64	116	76	36	8	☹
DC180-08-07.541A1-	7,541	19/64"	64	116	76	36	8	☹
DC180-08-07.600A1-	7,6		64	116	76	36	8	☹
DC180-08-07.700A1-	7,7		64	116	76	36	8	☹
DC180-08-07.800A1-	7,8		64	116	76	36	8	☹
DC180-08-07.900A1-	7,9		64	116	76	36	8	☹
DC180-08-07.938A1-	7,938	5/16"	64	116	76	36	8	☹
DC180-08-08.000A1-	8		64	116	76	36	8	☹
DC180-08-08.100A1-	8,1		80	139	95	40	10	☹
DC180-08-08.200A1-	8,2		80	139	95	40	10	☹
DC180-08-08.300A1-	8,3		80	139	95	40	10	☹
DC180-08-08.334A1-	8,334	21/64"	80	139	95	40	10	☹
DC180-08-08.400A1-	8,4		80	139	95	40	10	☹
DC180-08-08.500A1-	8,5		80	139	95	40	10	☹
DC180-08-08.600A1-	8,6		80	139	95	40	10	☹
DC180-08-08.700A1-	8,7		80	139	95	40	10	☹
DC180-08-08.731A1-	8,731	11/32"	80	139	95	40	10	☹
DC180-08-08.800A1-	8,8		80	139	95	40	10	☹
DC180-08-08.900A1-	8,9		80	139	95	40	10	☹
DC180-08-09.000A1-	9		80	139	95	40	10	☹
DC180-08-09.100A1-	9,1		80	139	95	40	10	☹
DC180-08-09.128A1-	9,128	23/64"	80	139	95	40	10	☹
DC180-08-09.200A1-	9,2		80	139	95	40	10	☹
DC180-08-09.300A1-	9,3		80	139	95	40	10	☹
DC180-08-09.400A1-	9,4		80	139	95	40	10	☹
DC180-08-09.500A1-	9,5		80	139	95	40	10	☹

Exemplo de pedido para a classe WJ30EY: DC180-08-03.000A1-WJ30EY

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

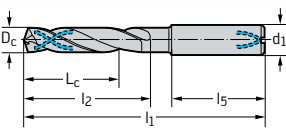
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30EY
DC180-08-09.525A1-	9,525	3/8"	80	139	95	40	10	☺
DC180-08-09.600A1-	9,6		80	139	95	40	10	☺
DC180-08-09.700A1-	9,7		80	139	95	40	10	☺
DC180-08-09.800A1-	9,8		80	139	95	40	10	☺
DC180-08-09.900A1-	9,9		80	139	95	40	10	☺
DC180-08-09.922A1-	9,922	25/64"	80	139	95	40	10	☺
DC180-08-10.000A1-	10		80	139	95	40	10	☺
DC180-08-10.100A1-	10,1		96	163	114	45	12	☺
DC180-08-10.200A1-	10,2		96	163	114	45	12	☺
DC180-08-10.300A1-	10,3		96	163	114	45	12	☺
DC180-08-10.319A1-	10,319	13/32"	96	163	114	45	12	☺
DC180-08-10.400A1-	10,4		96	163	114	45	12	☺
DC180-08-10.500A1-	10,5		96	163	114	45	12	☺
DC180-08-10.600A1-	10,6		96	163	114	45	12	☺
DC180-08-10.700A1-	10,7		96	163	114	45	12	☺
DC180-08-10.716A1-	10,716	27/64"	96	163	114	45	12	☺
DC180-08-10.800A1-	10,8		96	163	114	45	12	☺
DC180-08-10.900A1-	10,9		96	163	114	45	12	☺
DC180-08-11.000A1-	11		96	163	114	45	12	☺
DC180-08-11.100A1-	11,1		96	163	114	45	12	☺
DC180-08-11.113A1-	11,113	7/16"	96	163	114	45	12	☺
DC180-08-11.200A1-	11,2		96	163	114	45	12	☺
DC180-08-11.300A1-	11,3		96	163	114	45	12	☺
DC180-08-11.400A1-	11,4		96	163	114	45	12	☺
DC180-08-11.500A1-	11,5		96	163	114	45	12	☺
DC180-08-11.509A1-	11,509	29/64"	96	163	114	45	12	☺
DC180-08-11.600A1-	11,6		96	163	114	45	12	☺
DC180-08-11.700A1-	11,7		96	163	114	45	12	☺
DC180-08-11.800A1-	11,8		96	163	114	45	12	☺
DC180-08-11.900A1-	11,9		96	163	114	45	12	☺
DC180-08-11.906A1-	11,906	15/32"	96	163	114	45	12	☺
DC180-08-12.000A1-	12		96	163	114	45	12	☺
DC180-08-12.303A1-	12,303	31/64"	119	182	133	45	14	☺
DC180-08-12.500A1-	12,5		119	182	133	45	14	☺
DC180-08-12.700A1-	12,700	1/2"	119	182	133	45	14	☺
DC180-08-13.000A1-	13		119	182	133	45	14	☺
DC180-08-13.494A1-	13,494	17/32"	119	182	133	45	14	☺
DC180-08-13.500A1-	13,5		119	182	133	45	14	☺
DC180-08-14.000A1-	14		119	182	133	45	14	☺
DC180-08-14.288A1-	14,288	9/16"	136	204	152	48	16	☺
DC180-08-14.500A1-	14,5		136	204	152	48	16	☺
DC180-08-15.000A1-	15		136	204	152	48	16	☺
DC180-08-15.500A1-	15,5		136	204	152	48	16	☺
DC180-08-15.875A1-	15,875	5/8"	136	204	152	48	16	☺
DC180-08-16.000A1-	16		136	204	152	48	16	☺
DC180-08-16.500A1-	16,5		153	223	171	48	18	☺

Exemplo de pedido para a classe WJ30EY: DC180-08-03.000A1-WJ30EY

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EY
 DIN 6535 HA	Denominação								
	DC180-08-17.000A1-	17		153	223	171	48	18	☺
	DC180-08-17.500A1-	17,5		153	223	171	48	18	☺
	DC180-08-18.000A1-	18		153	223	171	48	18	☺
	DC180-08-18.500A1-	18,5		170	244	190	50	20	☺
	DC180-08-19.000A1-	19		170	244	190	50	20	☺
	DC180-08-19.050A1-	19,050	3/4"	170	244	190	50	20	☺
	DC180-08-19.500A1-	19,5		170	244	190	50	20	☺
	DC180-08-20.000A1-	20		170	244	190	50	20	☺

Exemplo de pedido para a classe WJ30EY: DC180-08-03.000A1-WJ30EY

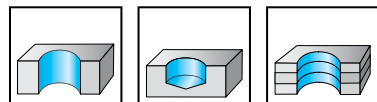
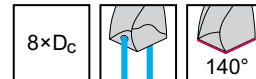
B1

Broca helicoidal VHM

DC175 Supreme

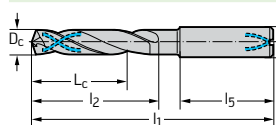


– Walter Refrigeração de precisão



	P	M	K	N	S	H	O
WJ30RY	●	●●	●	●	●●	●	●

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RY
DC175-08-03.000A1-	3		28	74	34	36	6	☺
DC175-08-03.100A1-	3,1		28	74	34	36	6	☺
DC175-08-03.175A1-	3,175	1/8"	28	74	34	36	6	☺
DC175-08-03.200A1-	3,2		28	74	34	36	6	☺
DC175-08-03.300A1-	3,3		28	74	34	36	6	☺
DC175-08-03.400A1-	3,4		28	74	34	36	6	☺
DC175-08-03.500A1-	3,5		28	74	34	36	6	☺
DC175-08-03.700A1-	3,7		28	74	34	36	6	☺
DC175-08-03.800A1-	3,8		37	85	45	36	6	☺
DC175-08-03.900A1-	3,9		37	85	45	36	6	☺
DC175-08-04.000A1-	4		37	85	45	36	6	☺
DC175-08-04.100A1-	4,1		37	85	45	36	6	☺
DC175-08-04.200A1-	4,2		37	85	45	36	6	☺
DC175-08-04.300A1-	4,3		37	85	45	36	6	☺
DC175-08-04.500A1-	4,5		37	85	45	36	6	☺
DC175-08-04.700A1-	4,7		37	85	45	36	6	☺
DC175-08-04.763A1-	4,763	3/16"	48	97	57	36	6	☺
DC175-08-04.800A1-	4,8		48	97	57	36	6	☺
DC175-08-05.000A1-	5		48	97	57	36	6	☺
DC175-08-05.100A1-	5,1		48	97	57	36	6	☺
DC175-08-05.200A1-	5,2		48	97	57	36	6	☺
DC175-08-05.500A1-	5,5		48	97	57	36	6	☺
DC175-08-05.600A1-	5,6		48	97	57	36	6	☺
DC175-08-05.800A1-	5,8		48	97	57	36	6	☺
DC175-08-06.000A1-	6		48	97	57	36	6	☺
DC175-08-06.100A1-	6,1		55	106	66	36	8	☺
DC175-08-06.200A1-	6,2		55	106	66	36	8	☺
DC175-08-06.300A1-	6,3		55	106	66	36	8	☺
DC175-08-06.350A1-	6,350	1/4"	55	106	66	36	8	☺
DC175-08-06.400A1-	6,4		55	106	66	36	8	☺
DC175-08-06.500A1-	6,5		55	106	66	36	8	☺
DC175-08-06.600A1-	6,6		55	106	66	36	8	☺
DC175-08-06.700A1-	6,7		55	106	66	36	8	☺
DC175-08-06.800A1-	6,8		55	106	66	36	8	☺
DC175-08-06.900A1-	6,9		55	106	66	36	8	☺
DC175-08-07.000A1-	7		55	106	66	36	8	☺

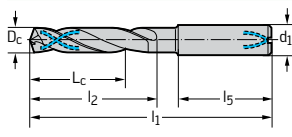
Exemplo de pedido para a classe WJ30RY: DC175-08-03.000A1-WJ30RY

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹☹

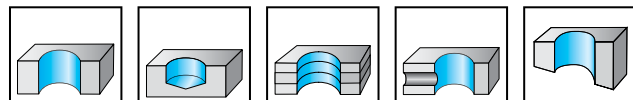
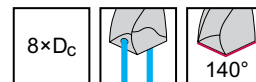
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RY
 DIN 6535 HA	DC175-08-07.144A1-	7,144	9/32"	64	116	76	36	8	☹
	DC175-08-07.500A1-	7,5		64	116	76	36	8	☹
	DC175-08-07.600A1-	7,6		64	116	76	36	8	☹
	DC175-08-07.700A1-	7,7		64	116	76	36	8	☹
	DC175-08-08.000A1-	8		64	116	76	36	8	☹
	DC175-08-08.100A1-	8,1		80	139	95	40	10	☹
	DC175-08-08.200A1-	8,2		80	139	95	40	10	☹
	DC175-08-08.400A1-	8,4		80	139	95	40	10	☹
	DC175-08-08.500A1-	8,5		80	139	95	40	10	☹
	DC175-08-08.600A1-	8,6		80	139	95	40	10	☹
	DC175-08-08.700A1-	8,7		80	139	95	40	10	☹
	DC175-08-08.800A1-	8,8		80	139	95	40	10	☹
	DC175-08-09.000A1-	9		80	139	95	40	10	☹
	DC175-08-09.200A1-	9,2		80	139	95	40	10	☹
	DC175-08-09.300A1-	9,3		80	139	95	40	10	☹
	DC175-08-09.500A1-	9,5		80	139	95	40	10	☹
	DC175-08-09.800A1-	9,8		80	139	95	40	10	☹
	DC175-08-10.000A1-	10		80	139	95	40	10	☹
	DC175-08-10.200A1-	10,2		96	163	114	45	12	☹
	DC175-08-10.500A1-	10,5		96	163	114	45	12	☹
	DC175-08-11.000A1-	11		96	163	114	45	12	☹
	DC175-08-11.500A1-	11,5		96	163	114	45	12	☹
	DC175-08-12.000A1-	12		96	163	114	45	12	☹
	DC175-08-12.500A1-	12,5		119	182	133	45	14	☹
	DC175-08-13.000A1-	13		119	182	133	45	14	☹
	DC175-08-14.000A1-	14		119	182	133	45	14	☹
	DC175-08-15.000A1-	15		136	204	152	48	16	☹
	DC175-08-16.000A1-	16		136	204	152	48	16	☹

Exemplo de pedido para a classe WJ30RY: DC175-08-03.000A1-WJ30RY

B1

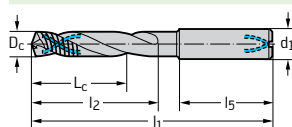
Broca de metal duro com canal de refrigeração

DC170 Supreme



	P	M	K	N	S	H	O
WJ30EJ	●●		●●			●	

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
DC170-08-03.000A1-	3		28	74	34	36	6	☺
DC170-08-03.100A1-	3,1		28	74	34	36	6	☺
DC170-08-03.175A1-	3,175	1/8"	28	74	34	36	6	☺
DC170-08-03.200A1-	3,2		28	74	34	36	6	☺
DC170-08-03.300A1-	3,3		28	74	34	36	6	☺
DC170-08-03.400A1-	3,4		28	74	34	36	6	☺
DC170-08-03.500A1-	3,5		28	74	34	36	6	☺
DC170-08-03.572A1-	3,572	9/64"	28	74	34	36	6	☺
DC170-08-03.600A1-	3,6		28	74	34	36	6	☺
DC170-08-03.700A1-	3,7		28	74	34	36	6	☺
DC170-08-03.800A1-	3,8		37	85	45	36	6	☺
DC170-08-03.900A1-	3,9		37	85	45	36	6	☺
DC170-08-03.969A1-	3,969	5/32"	37	85	45	36	6	☺
DC170-08-04.000A1-	4		37	85	45	36	6	☺
DC170-08-04.100A1-	4,1		37	85	45	36	6	☺
DC170-08-04.200A1-	4,2		37	85	45	36	6	☺
DC170-08-04.300A1-	4,3		37	85	45	36	6	☺
DC170-08-04.366A1-	4,366	11/64"	37	85	45	36	6	☺
DC170-08-04.400A1-	4,4		37	85	45	36	6	☺
DC170-08-04.500A1-	4,5		37	85	45	36	6	☺
DC170-08-04.600A1-	4,6		37	85	45	36	6	☺
DC170-08-04.763A1-	4,763	3/16"	48	97	57	36	6	☺
DC170-08-04.800A1-	4,8		48	97	57	36	6	☺
DC170-08-04.900A1-	4,9		48	97	57	36	6	☺
DC170-08-05.000A1-	5		48	97	57	36	6	☺
DC170-08-05.100A1-	5,1		48	97	57	36	6	☺
DC170-08-05.159A1-	5,159	13/64"	48	97	57	36	6	☺
DC170-08-05.200A1-	5,2		48	97	57	36	6	☺
DC170-08-05.300A1-	5,3		48	97	57	36	6	☺
DC170-08-05.400A1-	5,4		48	97	57	36	6	☺
DC170-08-05.500A1-	5,5		48	97	57	36	6	☺
DC170-08-05.556A1-	5,556	7/32"	48	97	57	36	6	☺
DC170-08-05.600A1-	5,6		48	97	57	36	6	☺
DC170-08-05.700A1-	5,7		48	97	57	36	6	☺
DC170-08-05.800A1-	5,8		48	97	57	36	6	☺
DC170-08-05.900A1-	5,9		48	97	57	36	6	☺

Exemplo de pedido para a classe WJ30EJ: DC170-08-03.000A1-WJ30EJ

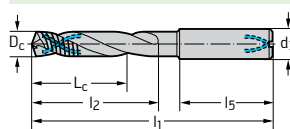
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



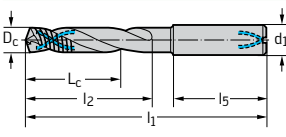
DIN 6535 HA

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
DC170-08-05.953A1-	5,953	15/64"	48	97	57	36	6	☹
DC170-08-06.000A1-	6		48	97	57	36	6	☹
DC170-08-06.100A1-	6,1		55	106	66	36	8	☹
DC170-08-06.200A1-	6,2		55	106	66	36	8	☹
DC170-08-06.300A1-	6,3		55	106	66	36	8	☹
DC170-08-06.350A1-	6,350	1/4"	55	106	66	36	8	☹
DC170-08-06.400A1-	6,4		55	106	66	36	8	☹
DC170-08-06.500A1-	6,5		55	106	66	36	8	☹
DC170-08-06.600A1-	6,6		55	106	66	36	8	☹
DC170-08-06.700A1-	6,7		55	106	66	36	8	☹
DC170-08-06.747A1-	6,747	17/64"	55	106	66	36	8	☹
DC170-08-06.800A1-	6,8		55	106	66	36	8	☹
DC170-08-06.900A1-	6,9		55	106	66	36	8	☹
DC170-08-07.000A1-	7		55	106	66	36	8	☹
DC170-08-07.144A1-	7,144	9/32"	64	116	76	36	8	☹
DC170-08-07.400A1-	7,4		64	116	76	36	8	☹
DC170-08-07.500A1-	7,5		64	116	76	36	8	☹
DC170-08-07.541A1-	7,541	19/64"	64	116	76	36	8	☹
DC170-08-07.600A1-	7,6		64	116	76	36	8	☹
DC170-08-07.700A1-	7,7		64	116	76	36	8	☹
DC170-08-07.800A1-	7,8		64	116	76	36	8	☹
DC170-08-07.900A1-	7,9		64	116	76	36	8	☹
DC170-08-07.938A1-	7,938	5/16"	64	116	76	36	8	☹
DC170-08-08.000A1-	8		64	116	76	36	8	☹
DC170-08-08.100A1-	8,1		80	139	95	40	10	☹
DC170-08-08.200A1-	8,2		80	139	95	40	10	☹
DC170-08-08.300A1-	8,3		80	139	95	40	10	☹
DC170-08-08.334A1-	8,334	21/64"	80	139	95	40	10	☹
DC170-08-08.400A1-	8,4		80	139	95	40	10	☹
DC170-08-08.500A1-	8,5		80	139	95	40	10	☹
DC170-08-08.600A1-	8,6		80	139	95	40	10	☹
DC170-08-08.700A1-	8,7		80	139	95	40	10	☹
DC170-08-08.731A1-	8,731	11/32"	80	139	95	40	10	☹
DC170-08-08.800A1-	8,8		80	139	95	40	10	☹
DC170-08-09.000A1-	9		80	139	95	40	10	☹
DC170-08-09.100A1-	9,1		80	139	95	40	10	☹
DC170-08-09.128A1-	9,128	23/64"	80	139	95	40	10	☹
DC170-08-09.200A1-	9,2		80	139	95	40	10	☹
DC170-08-09.300A1-	9,3		80	139	95	40	10	☹
DC170-08-09.400A1-	9,4		80	139	95	40	10	☹
DC170-08-09.500A1-	9,5		80	139	95	40	10	☹
DC170-08-09.525A1-	9,525	3/8"	80	139	95	40	10	☹
DC170-08-09.600A1-	9,6		80	139	95	40	10	☹
DC170-08-09.700A1-	9,7		80	139	95	40	10	☹
DC170-08-09.800A1-	9,8		80	139	95	40	10	☹
DC170-08-09.900A1-	9,9		80	139	95	40	10	☹

Exemplo de pedido para a classe WJ30EJ: DC170-08-03.000A1-WJ30EJ

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

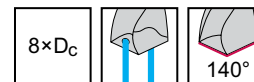
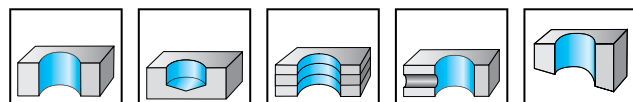
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
 DIN 6535 HA	DC170-08-09.922A1-	9,922	25/64"	80	139	95	40	10	☺
	DC170-08-10.000A1-	10		80	139	95	40	10	☺
	DC170-08-10.100A1-	10,1		96	163	114	45	12	☺
	DC170-08-10.200A1-	10,2		96	163	114	45	12	☺
	DC170-08-10.300A1-	10,3		96	163	114	45	12	☺
	DC170-08-10.319A1-	10,319	13/32"	96	163	114	45	12	☺
	DC170-08-10.500A1-	10,5		96	163	114	45	12	☺
	DC170-08-10.716A1-	10,716	27/64"	96	163	114	45	12	☺
	DC170-08-10.800A1-	10,8		96	163	114	45	12	☺
	DC170-08-11.000A1-	11		96	163	114	45	12	☺
	DC170-08-11.100A1-	11,1		96	163	114	45	12	☺
	DC170-08-11.113A1-	11,113	7/16"	96	163	114	45	12	☺
	DC170-08-11.200A1-	11,2		96	163	114	45	12	☺
	DC170-08-11.300A1-	11,3		96	163	114	45	12	☺
	DC170-08-11.400A1-	11,4		96	163	114	45	12	☺
	DC170-08-11.500A1-	11,5		96	163	114	45	12	☺
	DC170-08-11.700A1-	11,7		96	163	114	45	12	☺
	DC170-08-11.800A1-	11,8		96	163	114	45	12	☺
	DC170-08-11.900A1-	11,9		96	163	114	45	12	☺
	DC170-08-12.000A1-	12		96	163	114	45	12	☺
	DC170-08-12.303A1-	12,303	31/64"	119	182	133	45	14	☺
	DC170-08-12.500A1-	12,5		119	182	133	45	14	☺
	DC170-08-12.700A1-	12,700	1/2"	119	182	133	45	14	☺
	DC170-08-13.000A1-	13		119	182	133	45	14	☺
	DC170-08-13.494A1-	13,494	17/32"	119	182	133	45	14	☺
	DC170-08-13.500A1-	13,5		119	182	133	45	14	☺
	DC170-08-14.000A1-	14		119	182	133	45	14	☺
	DC170-08-14.288A1-	14,288	9/16"	136	204	152	48	16	☺
	DC170-08-14.500A1-	14,5		136	204	152	48	16	☺
	DC170-08-15.000A1-	15		136	204	152	48	16	☺
	DC170-08-15.500A1-	15,5		136	204	152	48	16	☺
	DC170-08-15.875A1-	15,875	5/8"	136	204	152	48	16	☺
	DC170-08-16.000A1-	16		136	204	152	48	16	☺
	DC170-08-16.500A1-	16,5		153	223	171	48	18	☺
	DC170-08-17.000A1-	17		153	223	171	48	18	☺
	DC170-08-17.500A1-	17,5		153	223	171	48	18	☺
	DC170-08-18.000A1-	18		153	223	171	48	18	☺
	DC170-08-20.000A1-	20		170	244	190	50	20	☺

Exemplo de pedido para a classe WJ30EJ: DC170-08-03.000A1-WJ30EJ

Broca de metal duro com canal de refrigeração

DC160 Advance

X-treme Evo



	P	M	K	N	S	H	O
WJ30ET	●●	●	●●	●●	●●	●	●

B1

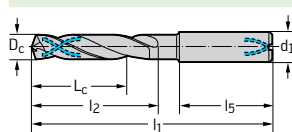
Ferramenta	Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
 DIN 6535 HA	DC160-08-03.000A1-	3		28	74	34	36	6	☺
	DC160-08-03.100A1-	3,1		28	74	34	36	6	☺
	DC160-08-03.175A1-	3,175	1/8"	28	74	34	36	6	☺
	DC160-08-03.200A1-	3,2		28	74	34	36	6	☺
	DC160-08-03.300A1-	3,3		28	74	34	36	6	☺
	DC160-08-03.400A1-	3,4		28	74	34	36	6	☺
	DC160-08-03.500A1-	3,5		28	74	34	36	6	☺
	DC160-08-03.572A1-	3,572	9/64"	28	74	34	36	6	☺
	DC160-08-03.600A1-	3,6		28	74	34	36	6	☺
	DC160-08-03.700A1-	3,7		28	74	34	36	6	☺
	DC160-08-03.800A1-	3,8		37	85	45	36	6	☺
	DC160-08-03.900A1-	3,9		37	85	45	36	6	☺
	DC160-08-03.969A1-	3,969	5/32"	37	85	45	36	6	☺
	DC160-08-04.000A1-	4		37	85	45	36	6	☺
	DC160-08-04.100A1-	4,1		37	85	45	36	6	☺
	DC160-08-04.200A1-	4,2		37	85	45	36	6	☺
	DC160-08-04.300A1-	4,3		37	85	45	36	6	☺
	DC160-08-04.366A1-	4,366	11/64"	37	85	45	36	6	☺
	DC160-08-04.400A1-	4,4		37	85	45	36	6	☺
	DC160-08-04.500A1-	4,5		37	85	45	36	6	☺
	DC160-08-04.600A1-	4,6		37	85	45	36	6	☺
	DC160-08-04.700A1-	4,7		37	85	45	36	6	☺
	DC160-08-04.763A1-	4,763	3/16"	48	97	57	36	6	☺
	DC160-08-04.800A1-	4,8		48	97	57	36	6	☺
	DC160-08-04.900A1-	4,9		48	97	57	36	6	☺
	DC160-08-05.000A1-	5		48	97	57	36	6	☺
	DC160-08-05.100A1-	5,1		48	97	57	36	6	☺
	DC160-08-05.159A1-	5,159	13/64"	48	97	57	36	6	☺
	DC160-08-05.200A1-	5,2		48	97	57	36	6	☺
	DC160-08-05.300A1-	5,3		48	97	57	36	6	☺
	DC160-08-05.400A1-	5,4		48	97	57	36	6	☺
	DC160-08-05.500A1-	5,5		48	97	57	36	6	☺
	DC160-08-05.556A1-	5,556	7/32"	48	97	57	36	6	☺
	DC160-08-05.600A1-	5,6		48	97	57	36	6	☺
	DC160-08-05.700A1-	5,7		48	97	57	36	6	☺
	DC160-08-05.800A1-	5,8		48	97	57	36	6	☺

Exemplo de pedido para a classe WJ30ET: DC160-08-03.000A1-WJ30ET

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-08-05.900A1-	5,9		48	97	57	36	6	☹
DC160-08-05.953A1-	5,953	15/64"	48	97	57	36	6	☹
DC160-08-06.000A1-	6		48	97	57	36	6	☹
DC160-08-06.100A1-	6,1		55	106	66	36	8	☹
DC160-08-06.200A1-	6,2		55	106	66	36	8	☹
DC160-08-06.300A1-	6,3		55	106	66	36	8	☹
DC160-08-06.350A1-	6,350	1/4"	55	106	66	36	8	☹
DC160-08-06.400A1-	6,4		55	106	66	36	8	☹
DC160-08-06.500A1-	6,5		55	106	66	36	8	☹
DC160-08-06.600A1-	6,6		55	106	66	36	8	☹
DC160-08-06.700A1-	6,7		55	106	66	36	8	☹
DC160-08-06.747A1-	6,747	17/64"	55	106	66	36	8	☹
DC160-08-06.800A1-	6,8		55	106	66	36	8	☹
DC160-08-06.900A1-	6,9		55	106	66	36	8	☹
DC160-08-07.000A1-	7		55	106	66	36	8	☹
DC160-08-07.100A1-	7,1		64	116	76	36	8	☹
DC160-08-07.144A1-	7,144	9/32"	64	116	76	36	8	☹
DC160-08-07.200A1-	7,2		64	116	76	36	8	☹
DC160-08-07.300A1-	7,3		64	116	76	36	8	☹
DC160-08-07.400A1-	7,4		64	116	76	36	8	☹
DC160-08-07.500A1-	7,5		64	116	76	36	8	☹
DC160-08-07.541A1-	7,541	19/64"	64	116	76	36	8	☹
DC160-08-07.600A1-	7,6		64	116	76	36	8	☹
DC160-08-07.700A1-	7,7		64	116	76	36	8	☹
DC160-08-07.800A1-	7,8		64	116	76	36	8	☹
DC160-08-07.900A1-	7,9		64	116	76	36	8	☹
DC160-08-07.938A1-	7,938	5/16"	64	116	76	36	8	☹
DC160-08-08.000A1-	8		64	116	76	36	8	☹
DC160-08-08.100A1-	8,1		80	139	95	40	10	☹
DC160-08-08.200A1-	8,2		80	139	95	40	10	☹
DC160-08-08.300A1-	8,3		80	139	95	40	10	☹
DC160-08-08.334A1-	8,334	21/64"	80	139	95	40	10	☹
DC160-08-08.400A1-	8,4		80	139	95	40	10	☹
DC160-08-08.500A1-	8,5		80	139	95	40	10	☹
DC160-08-08.600A1-	8,6		80	139	95	40	10	☹
DC160-08-08.700A1-	8,7		80	139	95	40	10	☹
DC160-08-08.731A1-	8,731	11/32"	80	139	95	40	10	☹
DC160-08-08.800A1-	8,8		80	139	95	40	10	☹
DC160-08-08.900A1-	8,9		80	139	95	40	10	☹
DC160-08-09.000A1-	9		80	139	95	40	10	☹
DC160-08-09.100A1-	9,1		80	139	95	40	10	☹
DC160-08-09.128A1-	9,128	23/64"	80	139	95	40	10	☹
DC160-08-09.200A1-	9,2		80	139	95	40	10	☹
DC160-08-09.300A1-	9,3		80	139	95	40	10	☹
DC160-08-09.400A1-	9,4		80	139	95	40	10	☹
DC160-08-09.500A1-	9,5		80	139	95	40	10	☹

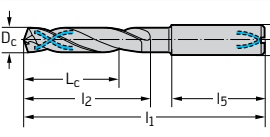
Exemplo de pedido para a classe WJ30ET: DC160-08-03.000A1-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

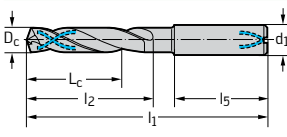
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Denominação								
	DIN 6535 HA								
	DC160-08-09.525A1-	9,525	3/8"	80	139	95	40	10	☹
	DC160-08-09.600A1-	9,6		80	139	95	40	10	☹
	DC160-08-09.700A1-	9,7		80	139	95	40	10	☹
	DC160-08-09.800A1-	9,8		80	139	95	40	10	☹
	DC160-08-09.900A1-	9,9		80	139	95	40	10	☹
	DC160-08-09.922A1-	9,922	25/64"	80	139	95	40	10	☹
	DC160-08-10.000A1-	10		80	139	95	40	10	☹
	DC160-08-10.100A1-	10,1		96	163	114	45	12	☹
	DC160-08-10.200A1-	10,2		96	163	114	45	12	☹
	DC160-08-10.300A1-	10,3		96	163	114	45	12	☹
	DC160-08-10.319A1-	10,319	13/32"	96	163	114	45	12	☹
	DC160-08-10.400A1-	10,4		96	163	114	45	12	☹
	DC160-08-10.500A1-	10,5		96	163	114	45	12	☹
	DC160-08-10.600A1-	10,6		96	163	114	45	12	☹
	DC160-08-10.700A1-	10,7		96	163	114	45	12	☹
	DC160-08-10.716A1-	10,716	27/64"	96	163	114	45	12	☹
	DC160-08-10.800A1-	10,8		96	163	114	45	12	☹
	DC160-08-10.900A1-	10,9		96	163	114	45	12	☹
	DC160-08-11.000A1-	11		96	163	114	45	12	☹
	DC160-08-11.100A1-	11,1		96	163	114	45	12	☹
	DC160-08-11.113A1-	11,113	7/16"	96	163	114	45	12	☹
	DC160-08-11.200A1-	11,2		96	163	114	45	12	☹
	DC160-08-11.300A1-	11,3		96	163	114	45	12	☹
	DC160-08-11.400A1-	11,4		96	163	114	45	12	☹
	DC160-08-11.500A1-	11,5		96	163	114	45	12	☹
	DC160-08-11.509A1-	11,509	29/64"	96	163	114	45	12	☹
	DC160-08-11.600A1-	11,6		96	163	114	45	12	☹
	DC160-08-11.700A1-	11,7		96	163	114	45	12	☹
	DC160-08-11.800A1-	11,8		96	163	114	45	12	☹
	DC160-08-11.900A1-	11,9		96	163	114	45	12	☹
	DC160-08-11.906A1-	11,906	15/32"	96	163	114	45	12	☹
	DC160-08-12.000A1-	12		96	163	114	45	12	☹
	DC160-08-12.303A1-	12,303	31/64"	119	182	133	45	14	☹
	DC160-08-12.500A1-	12,5		119	182	133	45	14	☹
	DC160-08-12.700A1-	12,700	1/2"	119	182	133	45	14	☹
	DC160-08-13.000A1-	13		119	182	133	45	14	☹
	DC160-08-13.494A1-	13,494	17/32"	119	182	133	45	14	☹
	DC160-08-13.500A1-	13,5		119	182	133	45	14	☹
	DC160-08-14.000A1-	14		119	182	133	45	14	☹
	DC160-08-14.288A1-	14,288	9/16"	136	204	152	48	16	☹
	DC160-08-14.500A1-	14,5		136	204	152	48	16	☹
	DC160-08-15.000A1-	15		136	204	152	48	16	☹
	DC160-08-15.500A1-	15,5		136	204	152	48	16	☹
	DC160-08-15.875A1-	15,875	5/8"	136	204	152	48	16	☹
	DC160-08-16.000A1-	16		136	204	152	48	16	☹
	DC160-08-16.500A1-	16,5		153	223	171	48	18	☹

Exemplo de pedido para a classe WJ30ET: DC160-08-03.000A1-WJ30ET

**WALTER
SELECT**

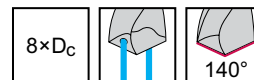
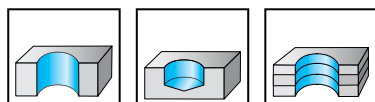
●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
 DIN 6535 HA	Denominação								
	DC160-08-17.000A1-	17		153	223	171	48	18	☺
	DC160-08-17.500A1-	17,5		153	223	171	48	18	☺
	DC160-08-18.000A1-	18		153	223	171	48	18	☺
	DC160-08-18.500A1-	18,5		170	244	190	50	20	☺
	DC160-08-19.000A1-	19		170	244	190	50	20	☺
	DC160-08-19.050A1-	19,050	3/4"	170	244	190	50	20	☺
	DC160-08-19.500A1-	19,5		170	244	190	50	20	☺
	DC160-08-20.000A1-	20		170	244	190	50	20	☺

Exemplo de pedido para a classe WJ30ET: DC160-08-03.000A1-WJ30ET

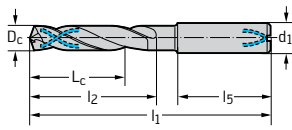
Broca de metal duro com canal de refrigeração

DC150 Perform



	P	M	K	N	S	H	O
WJ30TA	●●	●	●●	●●	●●	●	●

B1

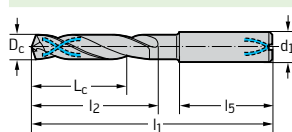
Ferramenta		D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
 DIN 6535 HA	Denominação								
	DC150-08-03.000A1-	3		28	74	34	36	6	☺
	DC150-08-03.100A1-	3,1		28	74	34	36	6	☺
	DC150-08-03.175A1-	3,175	1/8"	28	74	34	36	6	☺
	DC150-08-03.200A1-	3,2		28	74	34	36	6	☺
	DC150-08-03.300A1-	3,3		28	74	34	36	6	☺
	DC150-08-03.400A1-	3,4		28	74	34	36	6	☺
	DC150-08-03.500A1-	3,5		28	74	34	36	6	☺
	DC150-08-03.572A1-	3,572	9/64"	28	74	34	36	6	☺
	DC150-08-03.600A1-	3,6		28	74	34	36	6	☺
	DC150-08-03.700A1-	3,7		28	74	34	36	6	☺
	DC150-08-03.800A1-	3,8		37	85	45	36	6	☺
	DC150-08-03.900A1-	3,9		37	85	45	36	6	☺
	DC150-08-03.969A1-	3,969	5/32"	37	85	45	36	6	☺
	DC150-08-04.000A1-	4		37	85	45	36	6	☺
	DC150-08-04.100A1-	4,1		37	85	45	36	6	☺
	DC150-08-04.200A1-	4,2		37	85	45	36	6	☺
	DC150-08-04.300A1-	4,3		37	85	45	36	6	☺
	DC150-08-04.366A1-	4,366	11/64"	37	85	45	36	6	☺
	DC150-08-04.400A1-	4,4		37	85	45	36	6	☺
	DC150-08-04.500A1-	4,5		37	85	45	36	6	☺
	DC150-08-04.600A1-	4,6		37	85	45	36	6	☺
	DC150-08-04.700A1-	4,7		37	85	45	36	6	☺
	DC150-08-04.763A1-	4,763	3/16"	48	97	57	36	6	☺
	DC150-08-04.800A1-	4,8		48	97	57	36	6	☺
	DC150-08-04.900A1-	4,9		48	97	57	36	6	☺
	DC150-08-05.000A1-	5		48	97	57	36	6	☺
	DC150-08-05.100A1-	5,1		48	97	57	36	6	☺
	DC150-08-05.159A1-	5,159	13/64"	48	97	57	36	6	☺
	DC150-08-05.200A1-	5,2		48	97	57	36	6	☺
	DC150-08-05.300A1-	5,3		48	97	57	36	6	☺
	DC150-08-05.400A1-	5,4		48	97	57	36	6	☺
	DC150-08-05.500A1-	5,5		48	97	57	36	6	☺
	DC150-08-05.556A1-	5,556	7/32"	48	97	57	36	6	☺
	DC150-08-05.600A1-	5,6		48	97	57	36	6	☺
	DC150-08-05.700A1-	5,7		48	97	57	36	6	☺
	DC150-08-05.800A1-	5,8		48	97	57	36	6	☺

Exemplo de pedido para a classe WJ30TA: DC150-08-03.000A1-WJ30TA

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30TA
DC150-08-05.900A1-	5,9		48	97	57	36	6	☹
DC150-08-05.953A1-	5,953	15/64"	48	97	57	36	6	☹
DC150-08-06.000A1-	6		48	97	57	36	6	☹
DC150-08-06.100A1-	6,1		55	106	66	36	8	☹
DC150-08-06.200A1-	6,2		55	106	66	36	8	☹
DC150-08-06.300A1-	6,3		55	106	66	36	8	☹
DC150-08-06.350A1-	6,350	1/4"	55	106	66	36	8	☹
DC150-08-06.400A1-	6,4		55	106	66	36	8	☹
DC150-08-06.500A1-	6,5		55	106	66	36	8	☹
DC150-08-06.600A1-	6,6		55	106	66	36	8	☹
DC150-08-06.700A1-	6,7		55	106	66	36	8	☹
DC150-08-06.747A1-	6,747	17/64"	55	106	66	36	8	☹
DC150-08-06.800A1-	6,8		55	106	66	36	8	☹
DC150-08-06.900A1-	6,9		55	106	66	36	8	☹
DC150-08-07.000A1-	7		55	106	66	36	8	☹
DC150-08-07.100A1-	7,1		64	116	76	36	8	☹
DC150-08-07.144A1-	7,144	9/32"	64	116	76	36	8	☹
DC150-08-07.200A1-	7,2		64	116	76	36	8	☹
DC150-08-07.300A1-	7,3		64	116	76	36	8	☹
DC150-08-07.400A1-	7,4		64	116	76	36	8	☹
DC150-08-07.500A1-	7,5		64	116	76	36	8	☹
DC150-08-07.541A1-	7,541	19/64"	64	116	76	36	8	☹
DC150-08-07.600A1-	7,6		64	116	76	36	8	☹
DC150-08-07.700A1-	7,7		64	116	76	36	8	☹
DC150-08-07.800A1-	7,8		64	116	76	36	8	☹
DC150-08-07.900A1-	7,9		64	116	76	36	8	☹
DC150-08-07.938A1-	7,938	5/16"	64	116	76	36	8	☹
DC150-08-08.000A1-	8		64	116	76	36	8	☹
DC150-08-08.100A1-	8,1		80	139	95	40	10	☹
DC150-08-08.200A1-	8,2		80	139	95	40	10	☹
DC150-08-08.300A1-	8,3		80	139	95	40	10	☹
DC150-08-08.334A1-	8,334	21/64"	80	139	95	40	10	☹
DC150-08-08.400A1-	8,4		80	139	95	40	10	☹
DC150-08-08.500A1-	8,5		80	139	95	40	10	☹
DC150-08-08.600A1-	8,6		80	139	95	40	10	☹
DC150-08-08.700A1-	8,7		80	139	95	40	10	☹
DC150-08-08.731A1-	8,731	11/32"	80	139	95	40	10	☹
DC150-08-08.800A1-	8,8		80	139	95	40	10	☹
DC150-08-08.900A1-	8,9		80	139	95	40	10	☹
DC150-08-09.000A1-	9		80	139	95	40	10	☹
DC150-08-09.100A1-	9,1		80	139	95	40	10	☹
DC150-08-09.128A1-	9,128	23/64"	80	139	95	40	10	☹
DC150-08-09.200A1-	9,2		80	139	95	40	10	☹
DC150-08-09.300A1-	9,3		80	139	95	40	10	☹
DC150-08-09.400A1-	9,4		80	139	95	40	10	☹
DC150-08-09.500A1-	9,5		80	139	95	40	10	☹

Exemplo de pedido para a classe WJ30TA: DC150-08-03.000A1-WJ30TA

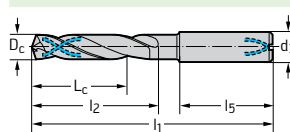
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹☹

Ferramenta



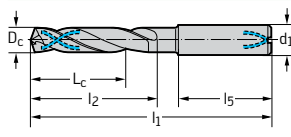
DIN 6535 HA

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
DC150-08-09.525A1-	9,525	3/8"	80	139	95	40	10	☺
DC150-08-09.600A1-	9,6		80	139	95	40	10	☺
DC150-08-09.700A1-	9,7		80	139	95	40	10	☺
DC150-08-09.800A1-	9,8		80	139	95	40	10	☺
DC150-08-09.900A1-	9,9		80	139	95	40	10	☺
DC150-08-09.922A1-	9,922	25/64"	80	139	95	40	10	☺
DC150-08-10.000A1-	10		80	139	95	40	10	☺
DC150-08-10.100A1-	10,1		96	163	114	45	12	☺
DC150-08-10.200A1-	10,2		96	163	114	45	12	☺
DC150-08-10.300A1-	10,3		96	163	114	45	12	☺
DC150-08-10.319A1-	10,319	13/32"	96	163	114	45	12	☺
DC150-08-10.400A1-	10,4		96	163	114	45	12	☺
DC150-08-10.500A1-	10,5		96	163	114	45	12	☺
DC150-08-10.700A1-	10,7		96	163	114	45	12	☺
DC150-08-10.716A1-	10,716	27/64"	96	163	114	45	12	☺
DC150-08-10.800A1-	10,8		96	163	114	45	12	☺
DC150-08-10.900A1-	10,9		96	163	114	45	12	☺
DC150-08-11.000A1-	11		96	163	114	45	12	☺
DC150-08-11.100A1-	11,1		96	163	114	45	12	☺
DC150-08-11.113A1-	11,113	7/16"	96	163	114	45	12	☺
DC150-08-11.200A1-	11,2		96	163	114	45	12	☺
DC150-08-11.300A1-	11,3		96	163	114	45	12	☺
DC150-08-11.500A1-	11,5		96	163	114	45	12	☺
DC150-08-11.600A1-	11,6		96	163	114	45	12	☺
DC150-08-11.700A1-	11,7		96	163	114	45	12	☺
DC150-08-11.800A1-	11,8		96	163	114	45	12	☺
DC150-08-11.900A1-	11,9		96	163	114	45	12	☺
DC150-08-11.906A1-	11,906	15/32"	96	163	114	45	12	☺
DC150-08-12.000A1-	12		96	163	114	45	12	☺
DC150-08-12.303A1-	12,303	31/64"	119	182	133	45	14	☺
DC150-08-12.500A1-	12,5		119	182	133	45	14	☺
DC150-08-12.700A1-	12,700	1/2"	119	182	133	45	14	☺
DC150-08-13.000A1-	13		119	182	133	45	14	☺
DC150-08-13.494A1-	13,494	17/32"	119	182	133	45	14	☺
DC150-08-13.500A1-	13,5		119	182	133	45	14	☺
DC150-08-14.000A1-	14		119	182	133	45	14	☺
DC150-08-14.288A1-	14,288	9/16"	136	204	152	48	16	☺
DC150-08-14.500A1-	14,5		136	204	152	48	16	☺
DC150-08-15.000A1-	15		136	204	152	48	16	☺
DC150-08-15.500A1-	15,5		136	204	152	48	16	☺
DC150-08-15.875A1-	15,875	5/8"	136	204	152	48	16	☺
DC150-08-16.000A1-	16		136	204	152	48	16	☺
DC150-08-16.500A1-	16,5		153	223	171	48	18	☺
DC150-08-17.000A1-	17		153	223	171	48	18	☺
DC150-08-17.500A1-	17,5		153	223	171	48	18	☺
DC150-08-18.000A1-	18		153	223	171	48	18	☺

Exemplo de pedido para a classe WJ30TA: DC150-08-03.000A1-WJ30TA

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D_c m7 mm	D_c inch/Nr	L_c mm	l_1 mm	l_2 mm	l_5 mm	d_1 h6 mm	WJ30TA
	DC150-08-18.500A1-	18,5		170	244	190	50	20	☺
	DC150-08-19.000A1-	19		170	244	190	50	20	☺
	DC150-08-19.050A1-	19,050	3/4"	170	244	190	50	20	☺
	DC150-08-19.500A1-	19,5		170	244	190	50	20	☺
	DC150-08-20.000A1-	20		170	244	190	50	20	☺

DIN 6535 HA

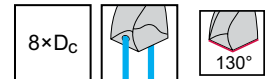
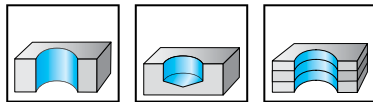
Exemplo de pedido para a classe WJ30TA: DC150-08-03.000A1-WJ30TA

B1

Broca de metal duro com canal de refrigeração

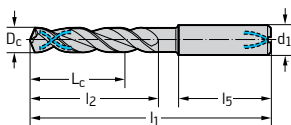
A3486TIP

Alpha® 44



	P	M	K	N	S	H	O
TIP	●●	●	●	●●	●		●

B1

Ferramenta		D _c m7 mm	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm
 DIN 6535 HA	Denominação						
	A3486TIP-5	5	54	101	63	36	6
	A3486TIP-5.5	5,5	54	101	63	36	6
	A3486TIP-6	6	54	101	63	36	6
	A3486TIP-6.1	6,1	67	117	79	36	8
	A3486TIP-6.5	6,5	67	117	79	36	8
	A3486TIP-6.8	6,8	67	117	79	36	8
	A3486TIP-7	7	67	117	79	36	8
	A3486TIP-8	8	67	117	79	36	8

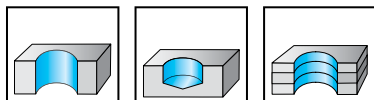
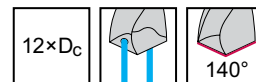
WALTER
SELECT

●● Aplicação principal ● Aplicação secundária

Ferramenta ideal para condições de usinagem → boas = 😊 → medianas = 😐 → ruins = 😞

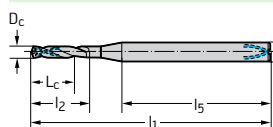
Microbrocas de metal duro com canal de refrigeração

DB133 Supreme



	P	M	K	N	S	H	O
WJ30ER	●	●	●	●	●	●	●

Ferramenta



DIN 6535 HA

Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ER
DB133-12-00.700A1-	0,7		9,9	53	11	35	3	☹
DB133-12-00.750A1-	0,75		10,8	53	12	34	3	☹
DB133-12-00.794A1-	0,794	1/32"	10,8	53	12	34	3	☹
DB133-12-00.800A1-	0,8		10,8	53	12	34	3	☹
DB133-12-00.850A1-	0,85		12,6	57	14	36	3	☹
DB133-12-00.900A1-	0,9		12,6	57	14	36	3	☹
DB133-12-00.950A1-	0,95		14,5	57	16	34	3	☹
DB133-12-01.000A1-	1		14,5	57	16	34	3	☹
DB133-12-01.050A1-	1,05		15	59	17	36	3	☹
DB133-12-01.100A1-	1,1		15	59	17	36	3	☹
DB133-12-01.150A1-	1,15		17	59	19	34	3	☹
DB133-12-01.191A1-	1,191	3/64"	17	59	19	34	3	☹
DB133-12-01.200A1-	1,2		17	59	19	34	3	☹
DB133-12-01.250A1-	1,25		17	59	19	34	3	☹
DB133-12-01.300A1-	1,3		18	63	20	37	3	☹
DB133-12-01.350A1-	1,35		19	63	22	35	3	☹
DB133-12-01.400A1-	1,4		19	63	22	35	3	☹
DB133-12-01.450A1-	1,45		20	63	23	34	3	☹
DB133-12-01.500A1-	1,5		20	63	23	34	3	☹
DB133-12-01.550A1-	1,55		22	67	25	37	3	☹
DB133-12-01.588A1-	1,588	1/16"	22	67	25	37	3	☹
DB133-12-01.600A1-	1,6		22	67	25	37	3	☹
DB133-12-01.650A1-	1,65		23	67	26	36	3	☹
DB133-12-01.700A1-	1,7		23	67	26	36	3	☹
DB133-12-01.750A1-	1,75		25	67	28	34	3	☹
DB133-12-01.800A1-	1,8		25	67	28	34	3	☹
DB133-12-01.850A1-	1,85		26	72	29	38	3	☹
DB133-12-01.900A1-	1,9		26	72	29	38	3	☹
DB133-12-01.950A1-	1,95		28	72	31	36	3	☹
DB133-12-01.984A1-	1,984	5/64"	28	72	31	36	3	☹
DB133-12-02.000A1-	2		28	72	31	36	3	☹
DB133-12-02.100A1-	2,1		29	72	33	35	3	☹
DB133-12-02.200A1-	2,2		30	72	34	34	3	☹
DB133-12-02.300A1-	2,3		32	77	36	37	3	☹
DB133-12-02.381A1-	2,381	3/32"	33	77	37	36	3	☹
DB133-12-02.400A1-	2,4		33	77	37	36	3	☹

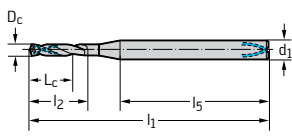
Exemplo de pedido para a classe WJ30ER: DB133-12-00.700A1-WJ30ER

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ER
 DIN 6535 HA	DB133-12-02.500A1-	2,5		35	77	39	34	3	☺
	DB133-12-02.600A1-	2,6		36	83	40	39	3	☺
	DB133-12-02.700A1-	2,7		37	83	42	38	3	☺
	DB133-12-02.778A1-	2,778	7/64"	38	83	43	37	3	☺
	DB133-12-02.800A1-	2,8		38	83	43	37	3	☺
	DB133-12-02.900A1-	2,9		40	83	45	35	3	☺

Exemplo de pedido para a classe WJ30ER: DB133-12-00.700A1-WJ30ER

B1

Broca de metal duro com canal de refrigeração

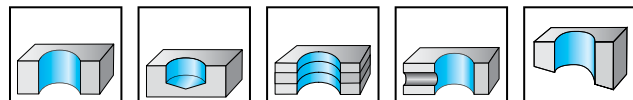
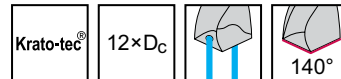
DC180 Supreme

X-treme Evo Plus

Powered by Krato-tec®

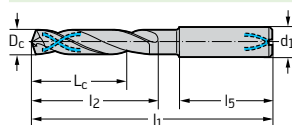


– com revestimento multicamada inovador Krato-tec®



	P	M	K	N	S	H	O
WJ30EY	●	●	●	●	●	●	●

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EY
DC180-12-03.000A1-	3		48	92	54	36	6	☹
DC180-12-03.100A1-	3,1		48	92	54	36	6	☹
DC180-12-03.175A1-	3,175	1/8"	48	92	54	36	6	☹
DC180-12-03.200A1-	3,2		48	92	54	36	6	☹
DC180-12-03.300A1-	3,3		48	92	54	36	6	☹
DC180-12-03.400A1-	3,4		48	92	54	36	6	☹
DC180-12-03.500A1-	3,5		48	92	54	36	6	☹
DC180-12-03.572A1-	3,572	9/64"	48	92	54	36	6	☹
DC180-12-03.600A1-	3,6		48	92	54	36	6	☹
DC180-12-03.700A1-	3,7		48	92	54	36	6	☹
DC180-12-03.800A1-	3,8		56	102	64	36	6	☹
DC180-12-03.900A1-	3,9		56	102	64	36	6	☹
DC180-12-03.969A1-	3,969	5/32"	56	102	64	36	6	☹
DC180-12-04.000A1-	4		56	102	64	36	6	☹
DC180-12-04.100A1-	4,1		56	102	64	36	6	☹
DC180-12-04.200A1-	4,2		56	102	64	36	6	☹
DC180-12-04.300A1-	4,3		56	102	64	36	6	☹
DC180-12-04.366A1-	4,366	11/64"	56	102	64	36	6	☹
DC180-12-04.400A1-	4,4		56	102	64	36	6	☹
DC180-12-04.500A1-	4,5		56	102	64	36	6	☹
DC180-12-04.600A1-	4,6		56	102	64	36	6	☹
DC180-12-04.700A1-	4,7		56	102	64	36	6	☹
DC180-12-04.763A1-	4,763	3/16"	74	121	83	36	6	☹
DC180-12-04.800A1-	4,8		74	121	83	36	6	☹
DC180-12-04.900A1-	4,9		74	121	83	36	6	☹
DC180-12-05.000A1-	5		74	121	83	36	6	☹
DC180-12-05.100A1-	5,1		74	121	83	36	6	☹
DC180-12-05.159A1-	5,159	13/64"	74	121	83	36	6	☹
DC180-12-05.200A1-	5,2		74	121	83	36	6	☹
DC180-12-05.300A1-	5,3		74	121	83	36	6	☹
DC180-12-05.400A1-	5,4		74	121	83	36	6	☹
DC180-12-05.500A1-	5,5		74	121	83	36	6	☹
DC180-12-05.550A1-	5,5		74	121	83	36	6	☹
DC180-12-05.556A1-	5,556	7/32"	74	121	83	36	6	☹
DC180-12-05.600A1-	5,6		74	121	83	36	6	☹
DC180-12-05.700A1-	5,7		74	121	83	36	6	☹

Exemplo de pedido para a classe WJ30EY: DC180-12-03.000A1-WJ30EY

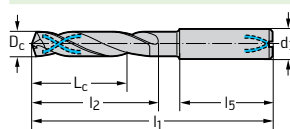
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

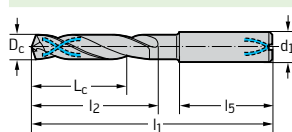
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EY
DC180-12-05.800A1-	5,8		74	121	83	36	6	☹
DC180-12-05.900A1-	5,9		74	121	83	36	6	☹
DC180-12-06.000A1-	6		74	121	83	36	6	☹
DC180-12-06.100A1-	6,1		98	148	110	36	8	☹
DC180-12-06.200A1-	6,2		98	148	110	36	8	☹
DC180-12-06.300A1-	6,3		98	148	110	36	8	☹
DC180-12-06.350A1-	6,350	1/4"	98	148	110	36	8	☹
DC180-12-06.400A1-	6,4		98	148	110	36	8	☹
DC180-12-06.500A1-	6,5		98	148	110	36	8	☹
DC180-12-06.600A1-	6,6		98	148	110	36	8	☹
DC180-12-06.700A1-	6,7		98	148	110	36	8	☹
DC180-12-06.747A1-	6,747	17/64"	98	148	110	36	8	☹
DC180-12-06.800A1-	6,8		98	148	110	36	8	☹
DC180-12-06.900A1-	6,9		98	148	110	36	8	☹
DC180-12-07.000A1-	7		98	148	110	36	8	☹
DC180-12-07.100A1-	7,1		98	148	110	36	8	☹
DC180-12-07.144A1-	7,144	9/32"	98	148	110	36	8	☹
DC180-12-07.200A1-	7,2		98	148	110	36	8	☹
DC180-12-07.300A1-	7,3		98	148	110	36	8	☹
DC180-12-07.400A1-	7,4		98	148	110	36	8	☹
DC180-12-07.500A1-	7,5		98	148	110	36	8	☹
DC180-12-07.541A1-	7,541	19/64"	98	148	110	36	8	☹
DC180-12-07.800A1-	7,8		98	148	110	36	8	☹
DC180-12-07.900A1-	7,9		98	148	110	36	8	☹
DC180-12-07.938A1-	7,938	5/16"	98	148	110	36	8	☹
DC180-12-08.000A1-	8		98	148	110	36	8	☹
DC180-12-08.100A1-	8,1		123	180	138	40	10	☹
DC180-12-08.200A1-	8,2		123	180	138	40	10	☹
DC180-12-08.300A1-	8,3		123	180	138	40	10	☹
DC180-12-08.400A1-	8,4		123	180	138	40	10	☹
DC180-12-08.500A1-	8,5		123	180	138	40	10	☹
DC180-12-08.600A1-	8,6		123	180	138	40	10	☹
DC180-12-08.700A1-	8,7		123	180	138	40	10	☹
DC180-12-08.731A1-	8,731	11/32"	123	180	138	40	10	☹
DC180-12-08.800A1-	8,8		123	180	138	40	10	☹
DC180-12-09.000A1-	9		123	180	138	40	10	☹
DC180-12-09.128A1-	9,128	23/64"	123	180	138	40	10	☹
DC180-12-09.200A1-	9,2		123	180	138	40	10	☹
DC180-12-09.300A1-	9,3		123	180	138	40	10	☹
DC180-12-09.500A1-	9,5		123	180	138	40	10	☹
DC180-12-09.525A1-	9,525	3/8"	123	180	138	40	10	☹
DC180-12-09.600A1-	9,6		123	180	138	40	10	☹
DC180-12-09.700A1-	9,7		123	180	138	40	10	☹
DC180-12-09.800A1-	9,8		123	180	138	40	10	☹
DC180-12-09.922A1-	9,922	25/64"	123	180	138	40	10	☹
DC180-12-10.000A1-	10		123	180	138	40	10	☹

Exemplo de pedido para a classe WJ30EY: DC180-12-03.000A1-WJ30EY

**WALTER
SELECT**

● ● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30EY
DC180-12-10.100A1-	10,1		140	206	158	45	12	☹
DC180-12-10.200A1-	10,2		140	206	158	45	12	☹
DC180-12-10.300A1-	10,3		140	206	158	45	12	☹
DC180-12-10.319A1-	10,319	13/32"	140	206	158	45	12	☹
DC180-12-10.400A1-	10,4		140	206	158	45	12	☹
DC180-12-10.500A1-	10,5		140	206	158	45	12	☹
DC180-12-10.716A1-	10,716	27/64"	140	206	158	45	12	☹
DC180-12-10.800A1-	10,8		140	206	158	45	12	☹
DC180-12-11.000A1-	11		140	206	158	45	12	☹
DC180-12-11.100A1-	11,1		140	206	158	45	12	☹
DC180-12-11.113A1-	11,113	7/16"	140	206	158	45	12	☹
DC180-12-11.200A1-	11,2		140	206	158	45	12	☹
DC180-12-11.500A1-	11,5		140	206	158	45	12	☹
DC180-12-11.509A1-	11,509	29/64"	140	206	158	45	12	☹
DC180-12-11.700A1-	11,7		140	206	158	45	12	☹
DC180-12-11.800A1-	11,8		140	206	158	45	12	☹
DC180-12-11.906A1-	11,906	15/32"	140	206	158	45	12	☹
DC180-12-12.000A1-	12		140	206	158	45	12	☹
DC180-12-12.100A1-	12,1		168	230	182	45	14	☹
DC180-12-12.200A1-	12,2		168	230	182	45	14	☹
DC180-12-12.300A1-	12,3		168	230	182	45	14	☹
DC180-12-12.303A1-	12,303	31/64"	168	230	182	45	14	☹
DC180-12-12.500A1-	12,5		168	230	182	45	14	☹
DC180-12-12.600A1-	12,6		168	230	182	45	14	☹
DC180-12-12.700A1-	12,700	1/2"	168	230	182	45	14	☹
DC180-12-13.000A1-	13		168	230	182	45	14	☹
DC180-12-13.494A1-	13,494	17/32"	168	230	182	45	14	☹
DC180-12-13.500A1-	13,5		168	230	182	45	14	☹
DC180-12-14.000A1-	14		168	230	182	45	14	☹
DC180-12-14.288A1-	14,288	9/16"	192	260	208	48	16	☹
DC180-12-14.500A1-	14,5		192	260	208	48	16	☹
DC180-12-15.000A1-	15		192	260	208	48	16	☹
DC180-12-15.500A1-	15,5		192	260	208	48	16	☹
DC180-12-15.875A1-	15,875	5/8"	192	260	208	48	16	☹
DC180-12-16.000A1-	16		192	260	208	48	16	☹
DC180-12-16.500A1-	16,5		216	285	234	48	18	☹
DC180-12-17.000A1-	17		216	285	234	48	18	☹
DC180-12-17.500A1-	17,5		216	285	234	48	18	☹
DC180-12-18.000A1-	18		216	285	234	48	18	☹
DC180-12-18.500A1-	18,5		238	310	258	50	20	☹
DC180-12-19.000A1-	19		238	310	258	50	20	☹
DC180-12-19.500A1-	19,5		238	310	258	50	20	☹
DC180-12-20.000A1-	20		238	310	258	50	20	☹

Exemplo de pedido para a classe WJ30EY: DC180-12-03.000A1-WJ30EY

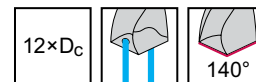
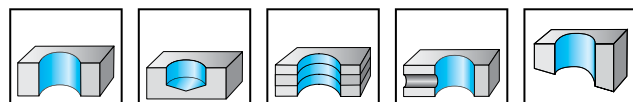
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Broca de metal duro com canal de refrigeração

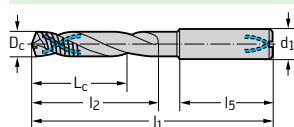
DC170 Supreme



	P	M	K	N	S	H	O
WJ30EJ	●●		●●			●	

B1

Ferramenta



DIN 6535 HA

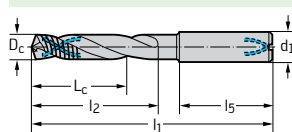
Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
DC170-12-03.000A1-	3		48	92	54	36	6	☺
DC170-12-03.100A1-	3,1		48	92	54	36	6	☺
DC170-12-03.175A1-	3,175	1/8"	48	92	54	36	6	☺
DC170-12-03.200A1-	3,2		48	92	54	36	6	☺
DC170-12-03.300A1-	3,3		48	92	54	36	6	☺
DC170-12-03.400A1-	3,4		48	92	54	36	6	☺
DC170-12-03.500A1-	3,5		48	92	54	36	6	☺
DC170-12-03.572A1-	3,572	9/64"	48	92	54	36	6	☺
DC170-12-03.600A1-	3,6		48	92	54	36	6	☺
DC170-12-03.700A1-	3,7		48	92	54	36	6	☺
DC170-12-03.800A1-	3,8		56	102	64	36	6	☺
DC170-12-03.900A1-	3,9		56	102	64	36	6	☺
DC170-12-03.969A1-	3,969	5/32"	56	102	64	36	6	☺
DC170-12-04.000A1-	4		56	102	64	36	6	☺
DC170-12-04.100A1-	4,1		56	102	64	36	6	☺
DC170-12-04.200A1-	4,2		56	102	64	36	6	☺
DC170-12-04.300A1-	4,3		56	102	64	36	6	☺
DC170-12-04.366A1-	4,366	11/64"	56	102	64	36	6	☺
DC170-12-04.400A1-	4,4		56	102	64	36	6	☺
DC170-12-04.500A1-	4,5		56	102	64	36	6	☺
DC170-12-04.600A1-	4,6		56	102	64	36	6	☺
DC170-12-04.700A1-	4,7		56	102	64	36	6	☺
DC170-12-04.763A1-	4,763	3/16"	74	121	83	36	6	☺
DC170-12-04.800A1-	4,8		74	121	83	36	6	☺
DC170-12-04.900A1-	4,9		74	121	83	36	6	☺
DC170-12-05.000A1-	5		74	121	83	36	6	☺
DC170-12-05.100A1-	5,1		74	121	83	36	6	☺
DC170-12-05.159A1-	5,159	13/64"	74	121	83	36	6	☺
DC170-12-05.200A1-	5,2		74	121	83	36	6	☺
DC170-12-05.300A1-	5,3		74	121	83	36	6	☺
DC170-12-05.400A1-	5,4		74	121	83	36	6	☺
DC170-12-05.500A1-	5,5		74	121	83	36	6	☺
DC170-12-05.550A1-	5,55		74	121	83	36	6	☺
DC170-12-05.556A1-	5,556	7/32"	74	121	83	36	6	☺
DC170-12-05.600A1-	5,6		74	121	83	36	6	☺
DC170-12-05.700A1-	5,7		74	121	83	36	6	☺

Exemplo de pedido para a classe WJ30EJ: DC170-12-03.000A1-WJ30EJ

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30EJ
DC170-12-05.800A1-	5,8		74	121	83	36	6	☹
DC170-12-05.900A1-	5,9		74	121	83	36	6	☹
DC170-12-06.000A1-	6		74	121	83	36	6	☹
DC170-12-06.100A1-	6,1		98	148	110	36	8	☹
DC170-12-06.200A1-	6,2		98	148	110	36	8	☹
DC170-12-06.300A1-	6,3		98	148	110	36	8	☹
DC170-12-06.350A1-	6,350	1/4"	98	148	110	36	8	☹
DC170-12-06.400A1-	6,4		98	148	110	36	8	☹
DC170-12-06.500A1-	6,5		98	148	110	36	8	☹
DC170-12-06.600A1-	6,6		98	148	110	36	8	☹
DC170-12-06.747A1-	6,747	17/64"	98	148	110	36	8	☹
DC170-12-06.800A1-	6,8		98	148	110	36	8	☹
DC170-12-06.900A1-	6,9		98	148	110	36	8	☹
DC170-12-07.000A1-	7		98	148	110	36	8	☹
DC170-12-07.100A1-	7,1		98	148	110	36	8	☹
DC170-12-07.144A1-	7,144	9/32"	98	148	110	36	8	☹
DC170-12-07.300A1-	7,3		98	148	110	36	8	☹
DC170-12-07.400A1-	7,4		98	148	110	36	8	☹
DC170-12-07.500A1-	7,5		98	148	110	36	8	☹
DC170-12-07.541A1-	7,541	19/64"	98	148	110	36	8	☹
DC170-12-07.800A1-	7,8		98	148	110	36	8	☹
DC170-12-07.900A1-	7,9		98	148	110	36	8	☹
DC170-12-07.938A1-	7,938	5/16"	98	148	110	36	8	☹
DC170-12-08.000A1-	8		98	148	110	36	8	☹
DC170-12-08.100A1-	8,1		123	180	138	40	10	☹
DC170-12-08.200A1-	8,2		123	180	138	40	10	☹
DC170-12-08.300A1-	8,3		123	180	138	40	10	☹
DC170-12-08.400A1-	8,4		123	180	138	40	10	☹
DC170-12-08.500A1-	8,5		123	180	138	40	10	☹
DC170-12-08.600A1-	8,6		123	180	138	40	10	☹
DC170-12-08.700A1-	8,7		123	180	138	40	10	☹
DC170-12-08.731A1-	8,731	11/32"	123	180	138	40	10	☹
DC170-12-08.800A1-	8,8		123	180	138	40	10	☹
DC170-12-09.000A1-	9		123	180	138	40	10	☹
DC170-12-09.128A1-	9,128	23/64"	123	180	138	40	10	☹
DC170-12-09.300A1-	9,3		123	180	138	40	10	☹
DC170-12-09.500A1-	9,5		123	180	138	40	10	☹
DC170-12-09.525A1-	9,525	3/8"	123	180	138	40	10	☹
DC170-12-09.600A1-	9,6		123	180	138	40	10	☹
DC170-12-09.700A1-	9,7		123	180	138	40	10	☹
DC170-12-09.800A1-	9,8		123	180	138	40	10	☹
DC170-12-09.922A1-	9,922	25/64"	123	180	138	40	10	☹
DC170-12-10.000A1-	10		123	180	138	40	10	☹
DC170-12-10.100A1-	10,1		140	206	158	45	12	☹
DC170-12-10.200A1-	10,2		140	206	158	45	12	☹
DC170-12-10.300A1-	10,3		140	206	158	45	12	☹

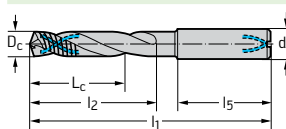
Exemplo de pedido para a classe WJ30EJ: DC170-12-03.000A1-WJ30EJ

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
DC170-12-10.319A1-	10,319	13/32"	140	206	158	45	12	☹
DC170-12-10.400A1-	10,4		140	206	158	45	12	☹
DC170-12-10.500A1-	10,5		140	206	158	45	12	☹
DC170-12-11.000A1-	11		140	206	158	45	12	☹
DC170-12-11.100A1-	11,1		140	206	158	45	12	☹
DC170-12-11.113A1-	11,113	7/16"	140	206	158	45	12	☹
DC170-12-11.200A1-	11,2		140	206	158	45	12	☹
DC170-12-11.500A1-	11,5		140	206	158	45	12	☹
DC170-12-11.509A1-	11,509	29/64"	140	206	158	45	12	☹
DC170-12-11.700A1-	11,7		140	206	158	45	12	☹
DC170-12-11.800A1-	11,8		140	206	158	45	12	☹
DC170-12-11.906A1-	11,906	15/32"	140	206	158	45	12	☹
DC170-12-12.000A1-	12		140	206	158	45	12	☹
DC170-12-12.200A1-	12,2		168	230	182	45	14	☹
DC170-12-12.303A1-	12,303	31/64"	168	230	182	45	14	☹
DC170-12-12.500A1-	12,5		168	230	182	45	14	☹
DC170-12-12.600A1-	12,6		168	230	182	45	14	☹
DC170-12-12.700A1-	12,700	1/2"	168	230	182	45	14	☹
DC170-12-13.000A1-	13		168	230	182	45	14	☹
DC170-12-13.494A1-	13,494	17/32"	168	230	182	45	14	☹
DC170-12-13.500A1-	13,5		168	230	182	45	14	☹
DC170-12-14.000A1-	14		168	230	182	45	14	☹
DC170-12-14.288A1-	14,288	9/16"	192	260	208	48	16	☹
DC170-12-14.500A1-	14,5		192	260	208	48	16	☹
DC170-12-15.000A1-	15		192	260	208	48	16	☹
DC170-12-15.500A1-	15,5		192	260	208	48	16	☹
DC170-12-15.875A1-	15,875	5/8"	192	260	208	48	16	☹
DC170-12-16.000A1-	16		192	260	208	48	16	☹
DC170-12-16.500A1-	16,5		216	285	234	48	18	☹
DC170-12-17.000A1-	17		216	285	234	48	18	☹
DC170-12-17.500A1-	17,5		216	285	234	48	18	☹
DC170-12-18.000A1-	18		216	285	234	48	18	☹
DC170-12-19.000A1-	19		238	310	258	50	20	☹
DC170-12-19.500A1-	19,5		238	310	258	50	20	☹
DC170-12-20.000A1-	20		238	310	258	50	20	☹

Exemplo de pedido para a classe WJ30EJ: DC170-12-03.000A1-WJ30EJ

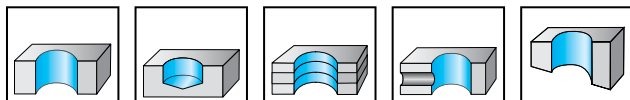
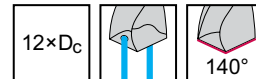
WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Broca de metal duro com canal de refrigeração

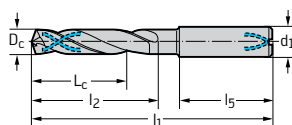
DC160 Advance

X-treme Evo



	P	M	K	N	S	H	O
WJ30EU	●●	●	●●	●●	●●	●	●

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EU
DC160-12-03.000A1-	3		48	92	54	36	6	☺
DC160-12-03.100A1-	3,1		48	92	54	36	6	☺
DC160-12-03.175A1-	3,175	1/8"	48	92	54	36	6	☺
DC160-12-03.200A1-	3,2		48	92	54	36	6	☺
DC160-12-03.300A1-	3,3		48	92	54	36	6	☺
DC160-12-03.400A1-	3,4		48	92	54	36	6	☺
DC160-12-03.500A1-	3,5		48	92	54	36	6	☺
DC160-12-03.572A1-	3,572	9/64"	48	92	54	36	6	☺
DC160-12-03.600A1-	3,6		48	92	54	36	6	☺
DC160-12-03.700A1-	3,7		48	92	54	36	6	☺
DC160-12-03.800A1-	3,8		56	102	64	36	6	☺
DC160-12-03.900A1-	3,9		56	102	64	36	6	☺
DC160-12-03.969A1-	3,969	5/32"	56	102	64	36	6	☺
DC160-12-04.000A1-	4		56	102	64	36	6	☺
DC160-12-04.100A1-	4,1		56	102	64	36	6	☺
DC160-12-04.200A1-	4,2		56	102	64	36	6	☺
DC160-12-04.300A1-	4,3		56	102	64	36	6	☺
DC160-12-04.366A1-	4,366	11/64"	56	102	64	36	6	☺
DC160-12-04.400A1-	4,4		56	102	64	36	6	☺
DC160-12-04.500A1-	4,5		56	102	64	36	6	☺
DC160-12-04.600A1-	4,6		56	102	64	36	6	☺
DC160-12-04.700A1-	4,7		56	102	64	36	6	☺
DC160-12-04.763A1-	4,763	3/16"	74	121	83	36	6	☺
DC160-12-04.800A1-	4,8		74	121	83	36	6	☺
DC160-12-04.900A1-	4,9		74	121	83	36	6	☺
DC160-12-05.000A1-	5		74	121	83	36	6	☺
DC160-12-05.100A1-	5,1		74	121	83	36	6	☺
DC160-12-05.159A1-	5,159	13/64"	74	121	83	36	6	☺
DC160-12-05.200A1-	5,2		74	121	83	36	6	☺
DC160-12-05.300A1-	5,3		74	121	83	36	6	☺
DC160-12-05.400A1-	5,4		74	121	83	36	6	☺
DC160-12-05.500A1-	5,5		74	121	83	36	6	☺
DC160-12-05.550A1-	5,55		74	121	83	36	6	☺
DC160-12-05.556A1-	5,556	7/32"	74	121	83	36	6	☺
DC160-12-05.600A1-	5,6		74	121	83	36	6	☺
DC160-12-05.700A1-	5,7		74	121	83	36	6	☺

Exemplo de pedido para a classe WJ30EU: DC160-12-03.000A1-WJ30EU

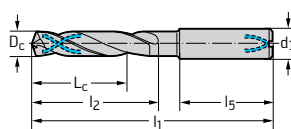
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹☹

Ferramenta



DIN 6535 HA

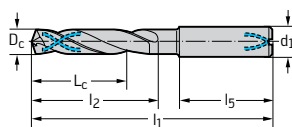
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EU
DC160-12-05.800A1-	5,8		74	121	83	36	6	☺
DC160-12-05.900A1-	5,9		74	121	83	36	6	☺
DC160-12-06.000A1-	6		74	121	83	36	6	☺
DC160-12-06.100A1-	6,1		98	148	110	36	8	☺
DC160-12-06.200A1-	6,2		98	148	110	36	8	☺
DC160-12-06.300A1-	6,3		98	148	110	36	8	☺
DC160-12-06.350A1-	6,350	1/4"	98	148	110	36	8	☺
DC160-12-06.400A1-	6,4		98	148	110	36	8	☺
DC160-12-06.500A1-	6,5		98	148	110	36	8	☺
DC160-12-06.600A1-	6,6		98	148	110	36	8	☺
DC160-12-06.700A1-	6,7		98	148	110	36	8	☺
DC160-12-06.747A1-	6,747	17/64"	98	148	110	36	8	☺
DC160-12-06.800A1-	6,8		98	148	110	36	8	☺
DC160-12-06.900A1-	6,9		98	148	110	36	8	☺
DC160-12-07.000A1-	7		98	148	110	36	8	☺
DC160-12-07.100A1-	7,1		98	148	110	36	8	☺
DC160-12-07.144A1-	7,144	9/32"	98	148	110	36	8	☺
DC160-12-07.200A1-	7,2		98	148	110	36	8	☺
DC160-12-07.300A1-	7,3		98	148	110	36	8	☺
DC160-12-07.400A1-	7,4		98	148	110	36	8	☺
DC160-12-07.500A1-	7,5		98	148	110	36	8	☺
DC160-12-07.541A1-	7,541	19/64"	98	148	110	36	8	☺
DC160-12-07.800A1-	7,8		98	148	110	36	8	☺
DC160-12-07.900A1-	7,9		98	148	110	36	8	☺
DC160-12-07.938A1-	7,938	5/16"	98	148	110	36	8	☺
DC160-12-08.000A1-	8		98	148	110	36	8	☺
DC160-12-08.100A1-	8,1		123	180	138	40	10	☺
DC160-12-08.200A1-	8,2		123	180	138	40	10	☺
DC160-12-08.300A1-	8,3		123	180	138	40	10	☺
DC160-12-08.400A1-	8,4		123	180	138	40	10	☺
DC160-12-08.500A1-	8,5		123	180	138	40	10	☺
DC160-12-08.600A1-	8,6		123	180	138	40	10	☺
DC160-12-08.700A1-	8,7		123	180	138	40	10	☺
DC160-12-08.731A1-	8,731	11/32"	123	180	138	40	10	☺
DC160-12-08.800A1-	8,8		123	180	138	40	10	☺
DC160-12-09.000A1-	9		123	180	138	40	10	☺
DC160-12-09.128A1-	9,128	23/64"	123	180	138	40	10	☺
DC160-12-09.200A1-	9,2		123	180	138	40	10	☺
DC160-12-09.300A1-	9,3		123	180	138	40	10	☺
DC160-12-09.500A1-	9,5		123	180	138	40	10	☺
DC160-12-09.525A1-	9,525	3/8"	123	180	138	40	10	☺
DC160-12-09.600A1-	9,6		123	180	138	40	10	☺
DC160-12-09.700A1-	9,7		123	180	138	40	10	☺
DC160-12-09.800A1-	9,8		123	180	138	40	10	☺
DC160-12-09.922A1-	9,922	25/64"	123	180	138	40	10	☺
DC160-12-10.000A1-	10		123	180	138	40	10	☺

Exemplo de pedido para a classe WJ30EU: DC160-12-03.000A1-WJ30EU

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EU
DC160-12-10.100A1-	10,1		140	206	158	45	12	☹
DC160-12-10.200A1-	10,2		140	206	158	45	12	☹
DC160-12-10.300A1-	10,3		140	206	158	45	12	☹
DC160-12-10.319A1-	10,319	13/32"	140	206	158	45	12	☹
DC160-12-10.400A1-	10,4		140	206	158	45	12	☹
DC160-12-10.500A1-	10,5		140	206	158	45	12	☹
DC160-12-10.716A1-	10,716	27/64"	140	206	158	45	12	☹
DC160-12-10.800A1-	10,8		140	206	158	45	12	☹
DC160-12-11.000A1-	11		140	206	158	45	12	☹
DC160-12-11.100A1-	11,1		140	206	158	45	12	☹
DC160-12-11.113A1-	11,113	7/16"	140	206	158	45	12	☹
DC160-12-11.200A1-	11,2		140	206	158	45	12	☹
DC160-12-11.500A1-	11,5		140	206	158	45	12	☹
DC160-12-11.509A1-	11,509	29/64"	140	206	158	45	12	☹
DC160-12-11.700A1-	11,7		140	206	158	45	12	☹
DC160-12-11.800A1-	11,8		140	206	158	45	12	☹
DC160-12-11.906A1-	11,906	15/32"	140	206	158	45	12	☹
DC160-12-12.000A1-	12		140	206	158	45	12	☹
DC160-12-12.100A1-	12,1		168	230	182	45	14	☹
DC160-12-12.200A1-	12,2		168	230	182	45	14	☹
DC160-12-12.300A1-	12,3		168	230	182	45	14	☹
DC160-12-12.303A1-	12,303	31/64"	168	230	182	45	14	☹
DC160-12-12.500A1-	12,5		168	230	182	45	14	☹
DC160-12-12.600A1-	12,6		168	230	182	45	14	☹
DC160-12-12.700A1-	12,700	1/2"	168	230	182	45	14	☹
DC160-12-13.000A1-	13		168	230	182	45	14	☹
DC160-12-13.494A1-	13,494	17/32"	168	230	182	45	14	☹
DC160-12-13.500A1-	13,5		168	230	182	45	14	☹
DC160-12-14.000A1-	14		168	230	182	45	14	☹
DC160-12-14.288A1-	14,288	9/16"	192	260	208	48	16	☹
DC160-12-14.500A1-	14,5		192	260	208	48	16	☹
DC160-12-15.000A1-	15		192	260	208	48	16	☹
DC160-12-15.500A1-	15,5		192	260	208	48	16	☹
DC160-12-15.875A1-	15,875	5/8"	192	260	208	48	16	☹
DC160-12-16.000A1-	16		192	260	208	48	16	☹
DC160-12-16.500A1-	16,5		216	285	234	48	18	☹
DC160-12-17.000A1-	17		216	285	234	48	18	☹
DC160-12-17.500A1-	17,5		216	285	234	48	18	☹
DC160-12-18.000A1-	18		216	285	234	48	18	☹
DC160-12-18.500A1-	18,5		238	310	258	50	20	☹
DC160-12-19.000A1-	19		238	310	258	50	20	☹
DC160-12-19.500A1-	19,5		238	310	258	50	20	☹
DC160-12-20.000A1-	20		238	310	258	50	20	☹

Exemplo de pedido para a classe WJ30EU: DC160-12-03.000A1-WJ30EU

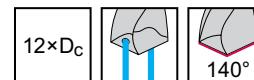
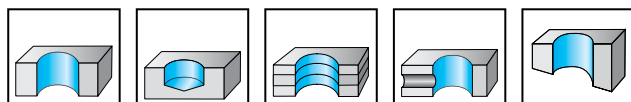
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Broca de metal duro com canal de refrigeração

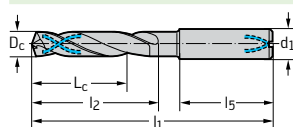
DC150 Perform



	P	M	K	N	S	H	O
WJ30TA	●●	●	●●	●●	●●	●●	●

B1

Ferramenta



DIN 6535 HA

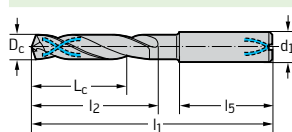
Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
DC150-12-03.000A1-	3		48	92	54	36	6	☹
DC150-12-03.100A1-	3,1		48	92	54	36	6	☹
DC150-12-03.175A1-	3,175	1/8"	48	92	54	36	6	☹
DC150-12-03.200A1-	3,2		48	92	54	36	6	☹
DC150-12-03.300A1-	3,3		48	92	54	36	6	☹
DC150-12-03.400A1-	3,4		48	92	54	36	6	☹
DC150-12-03.500A1-	3,5		48	92	54	36	6	☹
DC150-12-03.572A1-	3,572	9/64"	48	92	54	36	6	☹
DC150-12-03.600A1-	3,6		48	92	54	36	6	☹
DC150-12-03.700A1-	3,7		48	92	54	36	6	☹
DC150-12-03.800A1-	3,8		56	102	64	36	6	☹
DC150-12-03.900A1-	3,9		56	102	64	36	6	☹
DC150-12-03.969A1-	3,969	5/32"	56	102	64	36	6	☹
DC150-12-04.000A1-	4		56	102	64	36	6	☹
DC150-12-04.100A1-	4,1		56	102	64	36	6	☹
DC150-12-04.200A1-	4,2		56	102	64	36	6	☹
DC150-12-04.300A1-	4,3		56	102	64	36	6	☹
DC150-12-04.366A1-	4,366	11/64"	56	102	64	36	6	☹
DC150-12-04.400A1-	4,4		56	102	64	36	6	☹
DC150-12-04.500A1-	4,5		56	102	64	36	6	☹
DC150-12-04.600A1-	4,6		56	102	64	36	6	☹
DC150-12-04.700A1-	4,7		56	102	64	36	6	☹
DC150-12-04.763A1-	4,763	3/16"	74	121	83	36	6	☹
DC150-12-04.800A1-	4,8		74	121	83	36	6	☹
DC150-12-04.900A1-	4,9		74	121	83	36	6	☹
DC150-12-05.000A1-	5		74	121	83	36	6	☹
DC150-12-05.100A1-	5,1		74	121	83	36	6	☹
DC150-12-05.159A1-	5,159	13/64"	74	121	83	36	6	☹
DC150-12-05.200A1-	5,2		74	121	83	36	6	☹
DC150-12-05.300A1-	5,3		74	121	83	36	6	☹
DC150-12-05.400A1-	5,4		74	121	83	36	6	☹
DC150-12-05.500A1-	5,5		74	121	83	36	6	☹
DC150-12-05.550A1-	5,55		74	121	83	36	6	☹
DC150-12-05.556A1-	5,556	7/32"	74	121	83	36	6	☹
DC150-12-05.600A1-	5,6		74	121	83	36	6	☹
DC150-12-05.700A1-	5,7		74	121	83	36	6	☹

Exemplo de pedido para a classe WJ30TA: DC150-12-03.000A1-WJ30TA

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹☹

Ferramenta



DIN 6535 HA

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30TA
DC150-12-05.800A1-	5,8		74	121	83	36	6	☹
DC150-12-05.900A1-	5,9		74	121	83	36	6	☹
DC150-12-06.000A1-	6		74	121	83	36	6	☹
DC150-12-06.100A1-	6,1		98	148	110	36	8	☹
DC150-12-06.200A1-	6,2		98	148	110	36	8	☹
DC150-12-06.300A1-	6,3		98	148	110	36	8	☹
DC150-12-06.350A1-	6,350	1/4"	98	148	110	36	8	☹
DC150-12-06.400A1-	6,4		98	148	110	36	8	☹
DC150-12-06.500A1-	6,5		98	148	110	36	8	☹
DC150-12-06.600A1-	6,6		98	148	110	36	8	☹
DC150-12-06.700A1-	6,7		98	148	110	36	8	☹
DC150-12-06.747A1-	6,747	17/64"	98	148	110	36	8	☹
DC150-12-06.800A1-	6,8		98	148	110	36	8	☹
DC150-12-06.900A1-	6,9		98	148	110	36	8	☹
DC150-12-07.000A1-	7		98	148	110	36	8	☹
DC150-12-07.100A1-	7,1		98	148	110	36	8	☹
DC150-12-07.144A1-	7,144	9/32"	98	148	110	36	8	☹
DC150-12-07.200A1-	7,2		98	148	110	36	8	☹
DC150-12-07.300A1-	7,3		98	148	110	36	8	☹
DC150-12-07.400A1-	7,4		98	148	110	36	8	☹
DC150-12-07.500A1-	7,5		98	148	110	36	8	☹
DC150-12-07.541A1-	7,541	19/64"	98	148	110	36	8	☹
DC150-12-07.800A1-	7,8		98	148	110	36	8	☹
DC150-12-07.900A1-	7,9		98	148	110	36	8	☹
DC150-12-07.938A1-	7,938	5/16"	98	148	110	36	8	☹
DC150-12-08.000A1-	8		98	148	110	36	8	☹
DC150-12-08.100A1-	8,1		123	180	138	40	10	☹
DC150-12-08.200A1-	8,2		123	180	138	40	10	☹
DC150-12-08.300A1-	8,3		123	180	138	40	10	☹
DC150-12-08.400A1-	8,4		123	180	138	40	10	☹
DC150-12-08.500A1-	8,5		123	180	138	40	10	☹
DC150-12-08.600A1-	8,6		123	180	138	40	10	☹
DC150-12-08.700A1-	8,7		123	180	138	40	10	☹
DC150-12-08.731A1-	8,731	11/32"	123	180	138	40	10	☹
DC150-12-08.800A1-	8,8		123	180	138	40	10	☹
DC150-12-09.000A1-	9		123	180	138	40	10	☹
DC150-12-09.128A1-	9,128	23/64"	123	180	138	40	10	☹
DC150-12-09.200A1-	9,2		123	180	138	40	10	☹
DC150-12-09.300A1-	9,3		123	180	138	40	10	☹
DC150-12-09.500A1-	9,5		123	180	138	40	10	☹
DC150-12-09.525A1-	9,525	3/8"	123	180	138	40	10	☹
DC150-12-09.600A1-	9,6		123	180	138	40	10	☹
DC150-12-09.700A1-	9,7		123	180	138	40	10	☹
DC150-12-09.800A1-	9,8		123	180	138	40	10	☹
DC150-12-09.922A1-	9,922	25/64"	123	180	138	40	10	☹
DC150-12-10.000A1-	10		123	180	138	40	10	☹

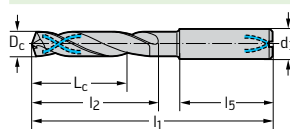
Exemplo de pedido para a classe WJ30TA: DC150-12-03.000A1-WJ30TA

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
DC150-12-10.100A1-	10,1		140	206	158	45	12	☹
DC150-12-10.200A1-	10,2		140	206	158	45	12	☹
DC150-12-10.300A1-	10,3		140	206	158	45	12	☹
DC150-12-10.319A1-	10,319	13/32"	140	206	158	45	12	☹
DC150-12-10.500A1-	10,5		140	206	158	45	12	☹
DC150-12-10.716A1-	10,716	27/64"	140	206	158	45	12	☹
DC150-12-10.800A1-	10,8		140	206	158	45	12	☹
DC150-12-11.000A1-	11		140	206	158	45	12	☹
DC150-12-11.100A1-	11,1		140	206	158	45	12	☹
DC150-12-11.113A1-	11,113	7/16"	140	206	158	45	12	☹
DC150-12-11.200A1-	11,2		140	206	158	45	12	☹
DC150-12-11.500A1-	11,5		140	206	158	45	12	☹
DC150-12-11.509A1-	11,509	29/64"	140	206	158	45	12	☹
DC150-12-11.700A1-	11,7		140	206	158	45	12	☹
DC150-12-11.800A1-	11,8		140	206	158	45	12	☹
DC150-12-11.906A1-	11,906	15/32"	140	206	158	45	12	☹
DC150-12-12.000A1-	12		140	206	158	45	12	☹
DC150-12-12.100A1-	12,1		168	230	182	45	14	☹
DC150-12-12.200A1-	12,2		168	230	182	45	14	☹
DC150-12-12.300A1-	12,3		168	230	182	45	14	☹
DC150-12-12.303A1-	12,303	31/64"	168	230	182	45	14	☹
DC150-12-12.500A1-	12,5		168	230	182	45	14	☹
DC150-12-12.600A1-	12,6		168	230	182	45	14	☹
DC150-12-12.700A1-	12,700	1/2"	168	230	182	45	14	☹
DC150-12-13.000A1-	13		168	230	182	45	14	☹
DC150-12-13.494A1-	13,494	17/32"	168	230	182	45	14	☹
DC150-12-13.500A1-	13,5		168	230	182	45	14	☹
DC150-12-14.000A1-	14		168	230	182	45	14	☹
DC150-12-14.288A1-	14,288	9/16"	192	260	208	48	16	☹
DC150-12-14.500A1-	14,5		192	260	208	48	16	☹
DC150-12-15.000A1-	15		192	260	208	48	16	☹
DC150-12-15.500A1-	15,5		192	260	208	48	16	☹
DC150-12-15.875A1-	15,875	5/8"	192	260	208	48	16	☹
DC150-12-16.000A1-	16		192	260	208	48	16	☹
DC150-12-16.500A1-	16,5		216	285	234	48	18	☹
DC150-12-17.000A1-	17		216	285	234	48	18	☹
DC150-12-17.500A1-	17,5		216	285	234	48	18	☹
DC150-12-18.000A1-	18		216	285	234	48	18	☹
DC150-12-19.000A1-	19		238	310	258	50	20	☹
DC150-12-20.000A1-	20		238	310	258	50	20	☹

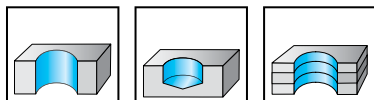
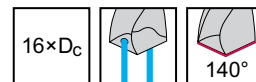
Exemplo de pedido para a classe WJ30TA: DC150-12-03.000A1-WJ30TA

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹☹

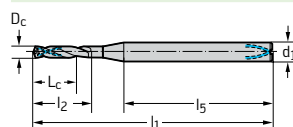
Microbrocas de metal duro com canal de refrigeração

DB133 Supreme



	P	M	K	N	S	H	O
WJ30ER	●●	●●	●●	●●	●	●	●

Ferramenta



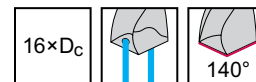
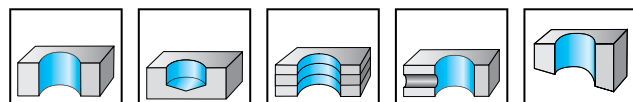
DIN 6535 HA

Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ER
DB133-16-02.000A1-	2		36	81	39	37	3	☺
DB133-16-02.100A1-	2,1		37	81	41	36	3	☺
DB133-16-02.200A1-	2,2		39	81	43	34	3	☺
DB133-16-02.300A1-	2,3		41	87	45	38	3	☺
DB133-16-02.381A1-	2,381	3/32"	43	87	47	36	3	☺
DB133-16-02.400A1-	2,4		43	87	47	36	3	☺
DB133-16-02.500A1-	2,5		45	87	49	34	3	☺
DB133-16-02.600A1-	2,6		47	95	51	40	3	☺
DB133-16-02.700A1-	2,7		48	95	53	39	3	☺
DB133-16-02.778A1-	2,778	7/64"	50	95	55	37	3	☺
DB133-16-02.800A1-	2,8		50	95	55	37	3	☺
DB133-16-02.900A1-	2,9		52	95	57	35	3	☺

Exemplo de pedido para a classe WJ30ER: DB133-16-02.000A1-WJ30ER

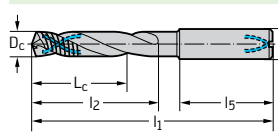
Broca de metal duro com canal de refrigeração

DC170 Supreme



	P	M	K	N	S	H	O
WJ30EJ	●●		●●			●	

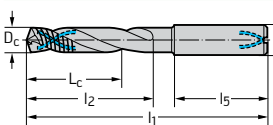
B1

Ferramenta	Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
 DIN 6535 HA	DC170-16-03.000A1-	3		52	89	57	28	4	☺
	DC170-16-03.175A1-	3,175	1/8"	60	98	66	28	4	☺
	DC170-16-03.500A1-	3,5		72	110	78	28	4	☺
	DC170-16-03.572A1-	3,572	9/64"	72	110	78	28	4	☺
	DC170-16-03.969A1-	3,969	5/32"	72	110	78	28	4	☺
	DC170-16-04.000A1-	4		72	110	78	28	4	☺
	DC170-16-04.500A1-	4,5		93	132	100	28	5	☺
	DC170-16-04.763A1-	4,763	3/16"	92	132	100	28	5	☺
	DC170-16-04.800A1-	4,8		92	132	100	28	5	☺
	DC170-16-05.000A1-	5		92	132	100	28	5	☺
	DC170-16-05.500A1-	5,5		101	150	110	36	6	☺
	DC170-16-05.556A1-	5,556	7/32"	111	160	120	36	6	☺
	DC170-16-05.800A1-	5,8		111	160	120	36	6	☺
	DC170-16-06.000A1-	6		111	160	120	36	6	☺
	DC170-16-06.100A1-	6,1		124	175	135	36	8	☺
	DC170-16-06.350A1-	6,350	1/4"	124	175	135	36	8	☺
	DC170-16-06.500A1-	6,5		124	175	135	36	8	☺
	DC170-16-06.800A1-	6,8		124	175	135	36	8	☺
	DC170-16-07.000A1-	7		124	175	135	36	8	☺
	DC170-16-07.144A1-	7,144	9/32"	140	192	152	36	8	☺
	DC170-16-07.400A1-	7,4		140	192	152	36	8	☺
	DC170-16-07.500A1-	7,5		140	192	152	36	8	☺
	DC170-16-07.938A1-	7,938	5/16"	140	192	152	36	8	☺
	DC170-16-08.000A1-	8		140	192	152	36	8	☺
	DC170-16-08.500A1-	8,5		148	206	162	40	10	☺
	DC170-16-08.731A1-	8,731	11/32"	148	206	162	40	10	☺
	DC170-16-09.000A1-	9		148	206	162	40	10	☺
	DC170-16-09.525A1-	9,525	3/8"	165	224	180	40	10	☺
	DC170-16-09.800A1-	9,8		165	224	180	40	10	☺
	DC170-16-10.000A1-	10		165	224	180	40	10	☺
	DC170-16-10.200A1-	10,2		181	247	198	45	12	☺
	DC170-16-10.319A1-	10,319	13/32"	181	247	198	45	12	☺
	DC170-16-11.000A1-	11		181	247	198	45	12	☺
	DC170-16-11.113A1-	11,113	7/16"	198	265	216	45	12	☺
	DC170-16-11.500A1-	11,5		198	265	216	45	12	☺
	DC170-16-11.800A1-	11,8		198	265	216	45	12	☺

Exemplo de pedido para a classe WJ30EJ: DC170-16-03.000A1-WJ30EJ

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

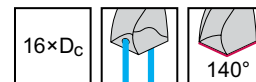
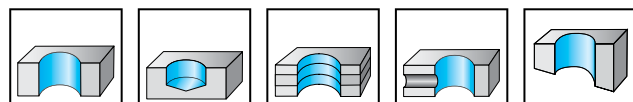
Ferramenta		D_c h7 mm	D_c inch/Nr	L_c mm	l_1 mm	l_2 mm	l_5 mm	d_1 h6 mm	WJ30EJ
 DIN 6535 HA	DC170-16-11.906A1-	11,906	15/32"	198	265	216	45	12	☺
	DC170-16-12.000A1-	12		198	265	216	45	12	☺
	DC170-16-12.700A1-	12,700	1/2"	238	301	252	45	14	☺
	DC170-16-13.000A1-	13		238	301	252	45	14	☺
	DC170-16-14.000A1-	14		238	301	252	45	14	☺
	DC170-16-14.288A1-	14,288	9/16"	272	340	288	48	16	☺
	DC170-16-15.000A1-	15		272	340	288	48	16	☺
	DC170-16-16.000A1-	16		272	340	288	48	16	☺

Exemplo de pedido para a classe WJ30EJ: DC170-16-03.000A1-WJ30EJ

Broca de metal duro com canal de refrigeração

DC160 Advance

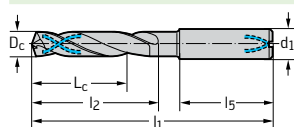
X-treme Evo



	P	M	K	N	S	H	O
WJ30EU	●●	●	●●	●●	●●	●	●

B1

Ferramenta



DIN 6535 HA

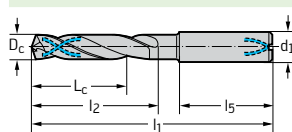
Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EU
DC160-16-03.000A1-	3		52	89	57	28	4	☺
DC160-16-03.175A1-	3,175	1/8"	60	98	66	28	4	☺
DC160-16-03.500A1-	3,5		72	110	78	28	4	☺
DC160-16-03.572A1-	3,572	9/64"	72	110	78	28	4	☺
DC160-16-03.969A1-	3,969	5/32"	72	110	78	28	4	☺
DC160-16-04.000A1-	4		72	110	78	28	4	☺
DC160-16-04.500A1-	4,5		93	132	100	28	5	☺
DC160-16-04.763A1-	4,763	3/16"	92	132	100	28	5	☺
DC160-16-04.800A1-	4,8		92	132	100	28	5	☺
DC160-16-05.000A1-	5		92	132	100	28	5	☺
DC160-16-05.500A1-	5,5		101	150	110	36	6	☺
DC160-16-05.556A1-	5,556	7/32"	111	160	120	36	6	☺
DC160-16-05.800A1-	5,8		111	160	120	36	6	☺
DC160-16-06.000A1-	6		111	160	120	36	6	☺
DC160-16-06.100A1-	6,1		124	175	135	36	8	☺
DC160-16-06.350A1-	6,350	1/4"	124	175	135	36	8	☺
DC160-16-06.500A1-	6,5		124	175	135	36	8	☺
DC160-16-06.800A1-	6,8		124	175	135	36	8	☺
DC160-16-07.000A1-	7		124	175	135	36	8	☺
DC160-16-07.144A1-	7,144	9/32"	140	192	152	36	8	☺
DC160-16-07.400A1-	7,4		140	192	152	36	8	☺
DC160-16-07.500A1-	7,5		140	192	152	36	8	☺
DC160-16-07.938A1-	7,938	5/16"	140	192	152	36	8	☺
DC160-16-08.000A1-	8		140	192	152	36	8	☺
DC160-16-08.300A1-	8,3		148	206	162	40	10	☺
DC160-16-08.500A1-	8,5		148	206	162	40	10	☺
DC160-16-08.731A1-	8,731	11/32"	148	206	162	40	10	☺
DC160-16-09.000A1-	9		148	206	162	40	10	☺
DC160-16-09.525A1-	9,525	3/8"	165	224	180	40	10	☺
DC160-16-09.800A1-	9,8		165	224	180	40	10	☺
DC160-16-10.000A1-	10		165	224	180	40	10	☺
DC160-16-10.200A1-	10,2		181	247	198	45	12	☺
DC160-16-10.319A1-	10,319	13/32"	181	247	198	45	12	☺
DC160-16-11.000A1-	11		181	247	198	45	12	☺
DC160-16-11.113A1-	11,113	7/16"	198	265	216	45	12	☺
DC160-16-11.500A1-	11,5		198	265	216	45	12	☺

Exemplo de pedido para a classe WJ30EU: DC160-16-03.000A1-WJ30EU

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



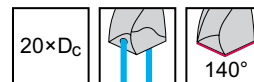
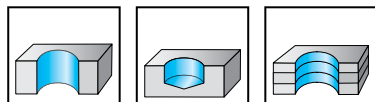
DIN 6535 HA

Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EU
DC160-16-11.800A1-	11,8		198	265	216	45	12	☺
DC160-16-11.906A1-	11,906	15/32"	198	265	216	45	12	☺
DC160-16-12.000A1-	12		198	265	216	45	12	☺
DC160-16-12.700A1-	12,700	1/2"	238	301	252	45	14	☺
DC160-16-13.000A1-	13		238	301	252	45	14	☺
DC160-16-14.000A1-	14		238	301	252	45	14	☺
DC160-16-14.288A1-	14,288	9/16"	272	340	288	48	16	☺
DC160-16-15.000A1-	15		272	340	288	48	16	☺
DC160-16-16.000A1-	16		272	340	288	48	16	☺

Exemplo de pedido para a classe WJ30EU: DC160-16-03.000A1-WJ30EU

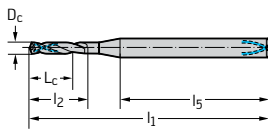
Microbrocas de metal duro com canal de refrigeração

DB133 Supreme



	P	M	K	N	S	H	O
WJ30ER	●●	●●	●●	●●	●	●	●

B1

Ferramenta		D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ER
 DIN 6535 HA	Denominação	DB133-20-02.000A1-	2	44	90	47	38	3	☺
		DB133-20-02.100A1-	2,1	45	90	49	37	3	☺
		DB133-20-02.200A1-	2,2	48	90	52	34	3	☺
		DB133-20-02.300A1-	2,3	50	97	54	39	3	☺
		DB133-20-02.381A1-	2,381	52	97	56	37	3	☺
		DB133-20-02.400A1-	2,4	52	97	56	37	3	☺
		DB133-20-02.500A1-	2,5	55	97	59	34	3	☺
		DB133-20-02.600A1-	2,6	57	107	61	42	3	☺
		DB133-20-02.700A1-	2,7	58	107	63	41	3	☺
		DB133-20-02.778A1-	2,778	61	107	66	38	3	☺
		DB133-20-02.800A1-	2,8	61	107	66	38	3	☺
		DB133-20-02.900A1-	2,9	63	107	68	36	3	☺

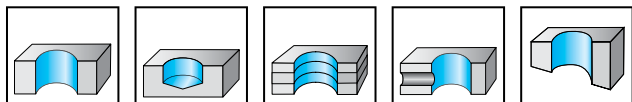
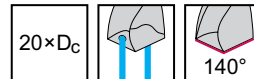
Exemplo de pedido para a classe WJ30ER: DB133-20-02.000A1-WJ30ER

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

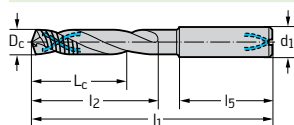
Broca de metal duro com canal de refrigeração

DC170 Supreme



	P	M	K	N	S	H	O
WJ30EJ	●●		●●			●	

Ferramenta



DIN 6535 HA

Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
DC170-20-03.000A1-	3		60	97	65	28	4	☺
DC170-20-03.175A1-	3,175	1/8"	74	112	80	28	4	☺
DC170-20-03.500A1-	3,5		86	124	92	28	4	☺
DC170-20-03.572A1-	3,572	9/64"	86	124	92	28	4	☺
DC170-20-03.969A1-	3,969	5/32"	86	124	92	28	4	☺
DC170-20-04.000A1-	4		86	124	92	28	4	☺
DC170-20-04.500A1-	4,5		111	150	118	28	5	☺
DC170-20-04.763A1-	4,763	3/16"	110	150	118	28	5	☺
DC170-20-04.800A1-	4,8		110	150	118	28	5	☺
DC170-20-05.000A1-	5		110	150	118	28	5	☺
DC170-20-05.500A1-	5,5		123	170	132	36	6	☺
DC170-20-05.556A1-	5,556	7/32"	135	182	144	36	6	☺
DC170-20-05.800A1-	5,8		135	182	144	36	6	☺
DC170-20-06.000A1-	6		135	182	144	36	6	☺
DC170-20-06.100A1-	6,1		151	200	162	36	8	☺
DC170-20-06.350A1-	6,350	1/4"	151	200	162	36	8	☺
DC170-20-06.500A1-	6,5		151	200	162	36	8	☺
DC170-20-06.800A1-	6,8		151	200	162	36	8	☺
DC170-20-07.000A1-	7		151	200	162	36	8	☺
DC170-20-07.144A1-	7,144	9/32"	172	222	184	36	8	☺
DC170-20-07.400A1-	7,4		172	222	184	36	8	☺
DC170-20-07.500A1-	7,5		172	222	184	36	8	☺
DC170-20-07.938A1-	7,938	5/16"	172	222	184	36	8	☺
DC170-20-08.000A1-	8		172	222	184	36	8	☺
DC170-20-08.300A1-	8,3		184	240	198	40	10	☺
DC170-20-08.500A1-	8,5		184	240	198	40	10	☺
DC170-20-08.731A1-	8,731	11/32"	184	240	198	40	10	☺
DC170-20-09.000A1-	9		184	240	198	40	10	☺
DC170-20-09.525A1-	9,525	3/8"	205	262	220	40	10	☺
DC170-20-09.800A1-	9,8		205	262	220	40	10	☺
DC170-20-10.000A1-	10		205	262	220	40	10	☺
DC170-20-10.200A1-	10,2		225	289	242	45	12	☺
DC170-20-10.319A1-	10,319	13/32"	225	289	242	45	12	☺
DC170-20-11.000A1-	11		225	289	242	45	12	☺
DC170-20-11.113A1-	11,113	7/16"	246	311	264	45	12	☺
DC170-20-11.500A1-	11,5		246	311	264	45	12	☺

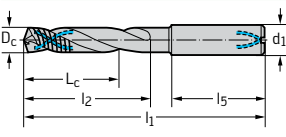
Exemplo de pedido para a classe WJ30EJ: DC170-20-03.000A1-WJ30EJ

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹☹

Ferramenta		D_c h7 mm	D_c Inch/Nr	L_c mm	l_1 mm	l_2 mm	l_5 mm	d_1 h6 mm	WJ30EJ
 DIN 6535 HA	Denominação								
	DC170-20-11.800A1-	11,8		246	311	264	45	12	☺
	DC170-20-12.000A1-	12		246	311	264	45	12	☺
	DC170-20-12.700A1-	12,700	1/2"	294	357	308	45	14	☺
	DC170-20-13.000A1-	13		294	357	308	45	14	☺
	DC170-20-14.000A1-	14		294	357	308	45	14	☺
	DC170-20-14.288A1-	14,288	9/16"	336	404	352	48	16	☺
	DC170-20-15.000A1-	15		336	404	352	48	16	☺
	DC170-20-16.000A1-	16		336	404	352	48	16	☺

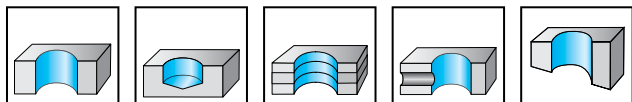
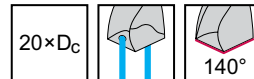
Exemplo de pedido para a classe WJ30EJ: DC170-20-03.000A1-WJ30EJ

B1

Broca de metal duro com canal de refrigeração

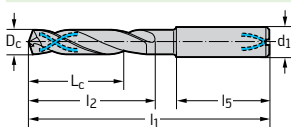
DC160 Advance

X-treme Evo



	P	M	K	N	S	H	O
WJ30EU	●	●	●	●	●	●	●

Ferramenta



DIN 6535 HA

Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EU
DC160-20-03.000A1-	3		60	97	65	28	4	☺
DC160-20-03.175A1-	3,175	1/8"	74	112	80	28	4	☺
DC160-20-03.500A1-	3,5		86	124	92	28	4	☺
DC160-20-03.572A1-	3,572	9/64"	86	124	92	28	4	☺
DC160-20-03.969A1-	3,969	5/32"	86	124	92	28	4	☺
DC160-20-04.000A1-	4		86	124	92	28	4	☺
DC160-20-04.500A1-	4,5		111	150	118	28	5	☺
DC160-20-04.763A1-	4,763	3/16"	110	150	118	28	5	☺
DC160-20-04.800A1-	4,8		110	150	118	28	5	☺
DC160-20-05.000A1-	5		110	150	118	28	5	☺
DC160-20-05.500A1-	5,5		123	170	132	36	6	☺
DC160-20-05.556A1-	5,556	7/32"	135	182	144	36	6	☺
DC160-20-05.800A1-	5,8		135	182	144	36	6	☺
DC160-20-06.000A1-	6		135	182	144	36	6	☺
DC160-20-06.100A1-	6,1		151	200	162	36	8	☺
DC160-20-06.350A1-	6,350	1/4"	151	200	162	36	8	☺
DC160-20-06.500A1-	6,5		151	200	162	36	8	☺
DC160-20-06.800A1-	6,8		151	200	162	36	8	☺
DC160-20-07.000A1-	7		151	200	162	36	8	☺
DC160-20-07.144A1-	7,144	9/32"	172	222	184	36	8	☺
DC160-20-07.400A1-	7,4		172	222	184	36	8	☺
DC160-20-07.500A1-	7,5		172	222	184	36	8	☺
DC160-20-07.938A1-	7,938	5/16"	172	222	184	36	8	☺
DC160-20-08.000A1-	8		172	222	184	36	8	☺
DC160-20-08.300A1-	8,3		184	240	198	40	10	☺
DC160-20-08.500A1-	8,5		184	240	198	40	10	☺
DC160-20-08.731A1-	8,731	11/32"	184	240	198	40	10	☺
DC160-20-09.000A1-	9		184	240	198	40	10	☺
DC160-20-09.525A1-	9,525	3/8"	205	262	220	40	10	☺
DC160-20-09.800A1-	9,8		205	262	220	40	10	☺
DC160-20-10.000A1-	10		205	262	220	40	10	☺
DC160-20-10.200A1-	10,2		225	289	242	45	12	☺
DC160-20-10.319A1-	10,319	13/32"	225	289	242	45	12	☺
DC160-20-11.000A1-	11		225	289	242	45	12	☺
DC160-20-11.113A1-	11,113	7/16"	246	311	264	45	12	☺
DC160-20-11.500A1-	11,5		246	311	264	45	12	☺

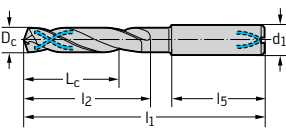
Exemplo de pedido para a classe WJ30EU: DC160-20-03.000A1-WJ30EU

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EU
 DIN 6535 HA	Denominação								
	DC160-20-11.800A1-	11,8		246	311	264	45	12	☺
	DC160-20-11.906A1-	11,906	15/32"	246	311	264	45	12	☺
	DC160-20-12.000A1-	12		246	311	264	45	12	☺
	DC160-20-12.700A1-	12,700	1/2"	294	357	308	45	14	☺
	DC160-20-13.000A1-	13		294	357	308	45	14	☺
	DC160-20-14.000A1-	14		294	357	308	45	14	☺
	DC160-20-14.288A1-	14,288	9/16"	336	404	352	48	16	☺
	DC160-20-15.000A1-	15		336	404	352	48	16	☺
	DC160-20-16.000A1-	16		336	404	352	48	16	☺

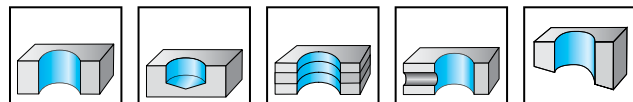
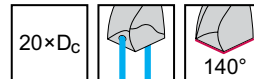
Exemplo de pedido para a classe WJ30EU: DC160-20-03.000A1-WJ30EU

B1

Broca de metal duro com canal de refrigeração

A6794TFP

X-treme DH20



	P	M	K	N	S	H	O
TFP	●●	●	●	●	●	●	●

Ferramenta		D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm
DIN 6535 HA	A6794TFP-3	3		60	107	65	36	6
	A6794TFP-1/8IN	3,175	1/8"	86	134	92	36	6
	A6794TFP-3.5	3,5		86	134	92	36	6
	A6794TFP-9/64IN	3,572	9/64"	86	134	92	36	6
	A6794TFP-5/32IN	3,969	5/32"	86	134	92	36	6
	A6794TFP-4	4		86	134	92	36	6
	A6794TFP-4.5	4,5		110	158	118	36	6
	A6794TFP-3/16IN	4,763	3/16"	110	158	118	36	6
	A6794TFP-4.8	4,8		110	158	118	36	6
	A6794TFP-5	5		110	158	118	36	6
	A6794TFP-5.5	5,5		123	170	132	36	6
	A6794TFP-7/32IN	5,556	7/32"	135	182	144	36	6
	A6794TFP-6	6		135	182	144	36	6
	A6794TFP-6.1	6,1		151	200	162	36	8
	A6794TFP-1/4IN	6,350	1/4"	151	200	162	36	8
	A6794TFP-6.5	6,5		151	200	162	36	8
	A6794TFP-6.8	6,8		151	200	162	36	8
	A6794TFP-7	7		151	200	162	36	8
	A6794TFP-9/32IN	7,144	9/32"	172	222	184	36	8
	A6794TFP-7.5	7,5		172	222	184	36	8
	A6794TFP-5/16IN	7,938	5/16"	172	222	184	36	8
	A6794TFP-8	8		172	222	184	36	8
	A6794TFP-8.3	8,3		184	240	198	40	10
	A6794TFP-8.5	8,5		184	240	198	40	10
	A6794TFP-11/32IN	8,731	11/32"	184	240	198	40	10
	A6794TFP-9	9		184	240	198	40	10
	A6794TFP-3/8IN	9,525	3/8"	205	262	220	40	10
	A6794TFP-9.8	9,8		205	262	220	40	10
	A6794TFP-10	10		205	262	220	40	10

WALTER
SELECT

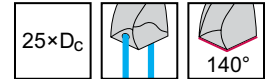
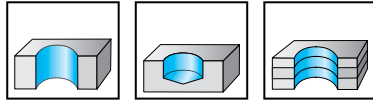
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

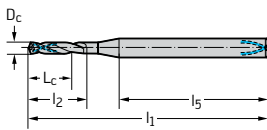
Microbrocas de metal duro com canal de refrigeração

DB133 Supreme



	P	M	K	N	S	H	O
WJ30ER	●●	●●	●●	●●	●	●	●

B1

Ferramenta		D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ER
 DIN 6535 HA	Denominação	DB133-25-02.000A1-	2	54	101	57	39	3	☺
		DB133-25-02.100A1-	2,1	56	101	60	37	3	☺
		DB133-25-02.200A1-	2,2	59	101	63	34	3	☺
		DB133-25-02.300A1-	2,3	62	107	66	37	3	☺
		DB133-25-02.381A1-	2,381	64	107	68	35	3	☺
		DB133-25-02.400A1-	2,4	64	107	68	35	3	☺
		DB133-25-02.500A1-	2,5	67	107	71	32	3	☺
		DB133-25-02.600A1-	2,6	70	122	74	44	3	☺
		DB133-25-02.700A1-	2,7	72	122	77	41	3	☺
		DB133-25-02.778A1-	2,778	75	122	80	38	3	☺
		DB133-25-02.800A1-	2,8	75	122	80	38	3	☺
		DB133-25-02.900A1-	2,9	78	122	83	36	3	☺

Exemplo de pedido para a classe WJ30ER: DB133-25-02.000A1-WJ30ER

**WALTER
SELECT**

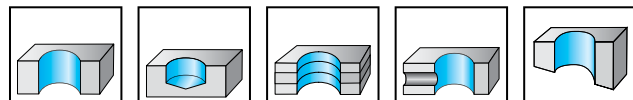
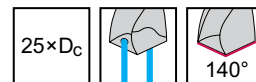
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

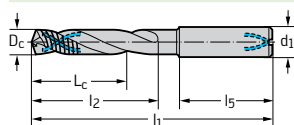
Broca de metal duro com canal de refrigeração

DC170 Supreme



	P	M	K	N	S	H	O
WJ30EJ	●●		●●			●	

Ferramenta



DIN 6535 HA

Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
DC170-25-03.000A1-	3		79	119	84	28	4	☹
DC170-25-03.175A1-	3,175	1/8"	96	148	102	28	4	☹
DC170-25-03.500A1-	3,5		108	148	114	28	4	☹
DC170-25-03.572A1-	3,572	9/64"	108	148	114	28	4	☹
DC170-25-03.969A1-	3,969	5/32"	108	148	114	28	4	☹
DC170-25-04.000A1-	4		108	148	114	28	4	☹
DC170-25-04.500A1-	4,5		138	177	145	28	5	☹
DC170-25-04.763A1-	4,763	3/16"	137	177	145	28	5	☹
DC170-25-04.800A1-	4,8		137	177	145	28	5	☹
DC170-25-05.000A1-	5		137	177	145	28	5	☹
DC170-25-05.500A1-	5,5		151	200	160	36	6	☹
DC170-25-05.556A1-	5,556	7/32"	165	214	174	36	6	☹
DC170-25-06.000A1-	6		165	214	174	36	6	☹
DC170-25-06.350A1-	6,350	1/4"	183	234	194	36	8	☹
DC170-25-06.500A1-	6,5		183	234	194	36	8	☹
DC170-25-06.800A1-	6,8		183	234	194	36	8	☹
DC170-25-07.000A1-	7		183	234	194	36	8	☹
DC170-25-07.144A1-	7,144	9/32"	208	260	220	36	8	☹
DC170-25-07.938A1-	7,938	5/16"	208	260	220	36	8	☹
DC170-25-08.000A1-	8		208	260	220	36	8	☹
DC170-25-08.500A1-	8,5		229	289	243	40	10	☹
DC170-25-08.731A1-	8,731	11/32"	229	289	243	40	10	☹
DC170-25-09.000A1-	9		229	289	243	40	10	☹
DC170-25-09.525A1-	9,525	3/8"	255	314	270	40	10	☹
DC170-25-10.000A1-	10		255	314	270	40	10	☹
DC170-25-10.200A1-	10,2		280	346	297	45	12	☹
DC170-25-11.000A1-	11		280	346	297	45	12	☹
DC170-25-11.113A1-	11,113	7/16"	306	373	324	45	12	☹
DC170-25-12.000A1-	12		306	373	324	45	12	☹

Exemplo de pedido para a classe WJ30EJ: DC170-25-03.000A1-WJ30EJ

WALTER
SELECT

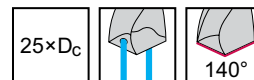
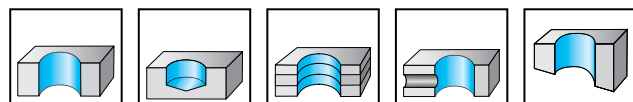
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

Broca de metal duro com canal de refrigeração

DC160 Advance

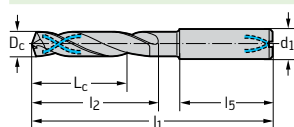
X-treme Evo



	P	M	K	N	S	H	O
WJ30EU	●●	●	●●	●●	●●	●	●

B1

Ferramenta



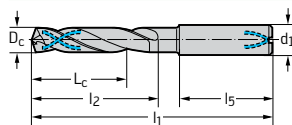
DIN 6535 HA

Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EU
DC160-25-03.000A1-	3		79	119	84	28	4	☺
DC160-25-03.175A1-	3,175	1/8"	96	148	102	28	4	☺
DC160-25-03.500A1-	3,5		108	148	114	28	4	☺
DC160-25-03.572A1-	3,572	9/64"	108	148	114	28	4	☺
DC160-25-03.969A1-	3,969	5/32"	108	148	114	28	4	☺
DC160-25-04.000A1-	4		108	148	114	28	4	☺
DC160-25-04.500A1-	4,5		138	177	145	28	5	☺
DC160-25-04.763A1-	4,763	3/16"	137	177	145	28	5	☺
DC160-25-04.800A1-	4,8		137	177	145	28	5	☺
DC160-25-05.000A1-	5		137	177	145	28	5	☺
DC160-25-05.500A1-	5,5		151	200	160	36	6	☺
DC160-25-05.556A1-	5,556	7/32"	165	214	174	36	6	☺
DC160-25-05.800A1-	5,8		165	214	174	36	6	☺
DC160-25-06.000A1-	6		165	214	174	36	6	☺
DC160-25-06.100A1-	6,1		183	234	194	36	8	☺
DC160-25-06.350A1-	6,350	1/4"	183	234	194	36	8	☺
DC160-25-06.500A1-	6,5		183	234	194	36	8	☺
DC160-25-06.800A1-	6,8		183	234	194	36	8	☺
DC160-25-07.000A1-	7		183	234	194	36	8	☺
DC160-25-07.144A1-	7,144	9/32"	208	260	220	36	8	☺
DC160-25-07.400A1-	7,4		208	260	220	36	8	☺
DC160-25-07.500A1-	7,5		208	260	220	36	8	☺
DC160-25-07.938A1-	7,938	5/16"	208	260	220	36	8	☺
DC160-25-08.000A1-	8		208	260	220	36	8	☺
DC160-25-08.300A1-	8,3		229	289	243	40	10	☺
DC160-25-08.500A1-	8,5		229	289	243	40	10	☺
DC160-25-08.731A1-	8,731	11/32"	229	289	243	40	10	☺
DC160-25-09.000A1-	9		229	289	243	40	10	☺
DC160-25-09.525A1-	9,525	3/8"	255	314	270	40	10	☺
DC160-25-09.800A1-	9,8		255	314	270	40	10	☺
DC160-25-10.000A1-	10		255	314	270	40	10	☺
DC160-25-10.200A1-	10,2		280	346	297	45	12	☺
DC160-25-10.319A1-	10,319	13/32"	280	346	297	45	12	☺
DC160-25-11.000A1-	11		280	346	297	45	12	☺
DC160-25-11.113A1-	11,113	7/16"	306	373	324	45	12	☺
DC160-25-11.500A1-	11,5		306	373	324	45	12	☺

Exemplo de pedido para a classe WJ30EU: DC160-25-03.000A1-WJ30EU

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

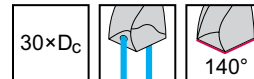
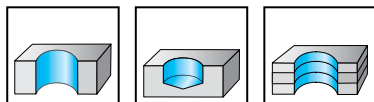
Ferramenta		D_c h7 mm	D_c inch/Nr	L_c mm	l_1 mm	l_2 mm	l_5 mm	d_1 h6 mm	WJ30EU
	DC160-25-11.800A1-	11,8		306	373	324	45	12	☺
	DC160-25-11.906A1-	11,906	15/32"	306	373	324	45	12	☺
	DC160-25-12.000A1-	12		306	373	324	45	12	☺
DIN 6535 HA									

Exemplo de pedido para a classe WJ30EU: DC160-25-03.000A1-WJ30EU

B1

Microbrocas de metal duro com canal de refrigeração

DB133 Supreme



	P	M	K	N	S	H	O
WJ30ER	●●	●●	●●	●●	●	●	●

B1

Ferramenta		D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ER
 DIN 6535 HA	Denominação	DB133-30-02.000A1-	2	64	112	67	40	3	☺
		DB133-30-02.100A1-	2,1	66	112	70	38	3	☺
		DB133-30-02.200A1-	2,2	70	112	74	34	3	☺
		DB133-30-02.300A1-	2,3	73	122	77	41	3	☺
		DB133-30-02.381A1-	2,381	76	122	80	38	3	☺
		DB133-30-02.400A1-	2,4	76	122	80	38	3	☺
		DB133-30-02.500A1-	2,5	80	122	84	34	3	☺
		DB133-30-02.600A1-	2,6	83	136	87	45	3	☺
		DB133-30-02.700A1-	2,7	85	136	90	42	3	☺
		DB133-30-02.778A1-	2,778	89	136	94	38	3	☺
		DB133-30-02.800A1-	2,8	89	136	94	38	3	☺
		DB133-30-02.900A1-	2,9	92	136	97	36	3	☺

Exemplo de pedido para a classe WJ30ER: DB133-30-02.000A1-WJ30ER

**WALTER
SELECT**

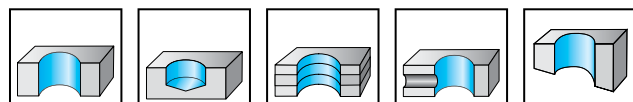
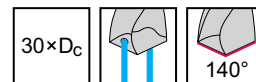
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

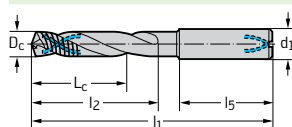
Broca de metal duro com canal de refrigeração

DC170 Supreme



	P	M	K	N	S	H	O
WJ30EJ	●●		●●			●	

Ferramenta



DIN 6535 HA

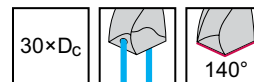
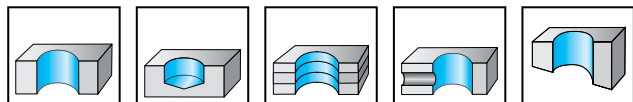
Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EJ
DC170-30-03.000A1-	3		92	132	97	28	4	☹
DC170-30-03.175A1-	3,175	1/8"	114	166	120	28	4	☹
DC170-30-03.500A1-	3,5		127	166	133	28	4	☹
DC170-30-04.000A1-	4		127	166	133	28	4	☹
DC170-30-04.500A1-	4,5		162	200	169	28	5	☹
DC170-30-04.763A1-	4,763	3/16"	161	200	169	28	5	☹
DC170-30-04.800A1-	4,8		161	200	169	28	5	☹
DC170-30-05.000A1-	5		161	200	169	28	5	☹
DC170-30-05.500A1-	5,5		178	225	187	36	6	☹
DC170-30-06.000A1-	6		195	242	204	36	6	☹
DC170-30-06.350A1-	6,350	1/4"	217	268	228	36	8	☹
DC170-30-06.500A1-	6,5		217	268	228	36	8	☹
DC170-30-06.800A1-	6,8		217	268	228	36	8	☹
DC170-30-07.000A1-	7		217	268	228	36	8	☹
DC170-30-07.400A1-	7,4		244	294	256	36	8	☹
DC170-30-07.938A1-	7,938	5/16"	244	294	256	36	8	☹
DC170-30-08.000A1-	8		244	294	256	36	8	☹
DC170-30-08.500A1-	8,5		273	330	287	40	10	☹
DC170-30-08.731A1-	8,731	11/32"	273	330	287	40	10	☹
DC170-30-09.000A1-	9		273	330	287	40	10	☹
DC170-30-09.525A1-	9,525	3/8"	305	364	320	40	10	☹
DC170-30-10.000A1-	10		305	364	320	40	10	☹
DC170-30-10.200A1-	10,2		335	401	352	45	12	☹
DC170-30-11.000A1-	11		335	401	352	45	12	☹
DC170-30-11.113A1-	11,113	7/16"	364	430	382	45	12	☹
DC170-30-12.000A1-	12		364	430	382	45	12	☹

Exemplo de pedido para a classe WJ30EJ: DC170-30-03.000A1-WJ30EJ

Broca de metal duro com canal de refrigeração

DC160 Advance

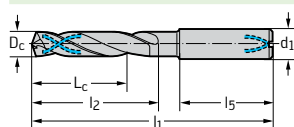
X-treme Evo



	P	M	K	N	S	H	O
WJ30EU	●●	●	●●	●●	●●	●	●

B1

Ferramenta



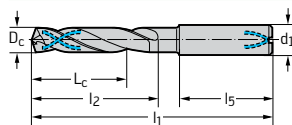
DIN 6535 HA

Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EU
DC160-30-03.000A1-	3		92	132	97	28	4	☺
DC160-30-03.175A1-	3,175	1/8"	114	166	120	28	4	☺
DC160-30-03.500A1-	3,5		127	166	133	28	4	☺
DC160-30-03.572A1-	3,572	9/64"	127	166	133	28	4	☺
DC160-30-03.969A1-	3,969	5/32"	127	166	133	28	4	☺
DC160-30-04.000A1-	4		127	166	133	28	4	☺
DC160-30-04.500A1-	4,5		162	200	169	28	5	☺
DC160-30-04.763A1-	4,763	3/16"	161	200	169	28	5	☺
DC160-30-04.800A1-	4,8		161	200	169	28	5	☺
DC160-30-05.000A1-	5		161	200	169	28	5	☺
DC160-30-05.500A1-	5,5		178	225	187	36	6	☺
DC160-30-05.556A1-	5,556	7/32"	195	242	204	36	6	☺
DC160-30-05.800A1-	5,8		195	242	204	36	6	☺
DC160-30-06.000A1-	6		195	242	204	36	6	☺
DC160-30-06.100A1-	6,1		217	268	228	36	8	☺
DC160-30-06.350A1-	6,350	1/4"	217	268	228	36	8	☺
DC160-30-06.500A1-	6,5		217	268	228	36	8	☺
DC160-30-06.800A1-	6,8		217	268	228	36	8	☺
DC160-30-07.000A1-	7		217	268	228	36	8	☺
DC160-30-07.144A1-	7,144	9/32"	244	294	256	36	8	☺
DC160-30-07.400A1-	7,4		244	294	256	36	8	☺
DC160-30-07.500A1-	7,5		244	294	256	36	8	☺
DC160-30-07.938A1-	7,938	5/16"	244	294	256	36	8	☺
DC160-30-08.000A1-	8		244	294	256	36	8	☺
DC160-30-08.300A1-	8,3		273	330	287	40	10	☺
DC160-30-08.500A1-	8,5		273	330	287	40	10	☺
DC160-30-08.731A1-	8,731	11/32"	273	330	287	40	10	☺
DC160-30-09.000A1-	9		273	330	287	40	10	☺
DC160-30-09.525A1-	9,525	3/8"	305	364	320	40	10	☺
DC160-30-09.800A1-	9,8		305	364	320	40	10	☺
DC160-30-10.000A1-	10		305	364	320	40	10	☺
DC160-30-10.200A1-	10,2		335	401	352	45	12	☺
DC160-30-10.319A1-	10,319	13/32"	335	401	352	45	12	☺
DC160-30-11.000A1-	11		335	401	352	45	12	☺
DC160-30-11.113A1-	11,113	7/16"	364	430	382	45	12	☺
DC160-30-11.500A1-	11,5		364	430	382	45	12	☺

Exemplo de pedido para a classe WJ30EU: DC160-30-03.000A1-WJ30EU

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D_c h7 mm	D_c inch/Nr	L_c mm	l_1 mm	l_2 mm	l_5 mm	d_1 h6 mm	WJ30EU
	DC160-30-11.800A1-	11,8		364	430	382	45	12	☺
	DC160-30-11.906A1-	11,906	15/32"	364	430	382	45	12	☺
	DC160-30-12.000A1-	12		364	430	382	45	12	☺
	DIN 6535 HA								

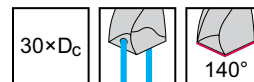
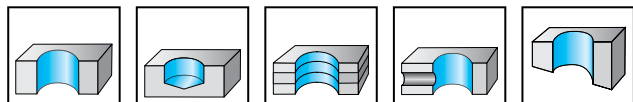
Exemplo de pedido para a classe WJ30EU: DC160-30-03.000A1-WJ30EU

B1

Broca de metal duro com canal de refrigeração

A6994TFP

X-treme DH30



	P	M	K	N	S	H	O
TFP	●●	●	●	●	●	●	●

B1

Ferramenta		D _c h7 mm	D _c inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm
DIN 6535 HA	Denominação							
	A6994TFP-3	3		92	140	97	36	6
	A6994TFP-1/8IN	3,175	1/8"	127	174	133	36	6
	A6994TFP-3.5	3,5		127	174	133	36	6
	A6994TFP-9/64IN	3,572	9/64"	127	174	133	36	6
	A6994TFP-5/32IN	3,969	5/32"	127	174	133	36	6
	A6994TFP-4	4		127	174	133	36	6
	A6994TFP-4.5	4,5		161	208	169	36	6
	A6994TFP-3/16IN	4,763	3/16"	161	208	169	36	6
	A6994TFP-4.8	4,8		161	208	169	36	6
	A6994TFP-5	5		161	208	169	36	6
	A6994TFP-5.5	5,5		178	225	187	36	6
	A6994TFP-7/32IN	5,556	7/32"	195	242	204	36	6
	A6994TFP-6	6		195	242	204	36	6
	A6994TFP-1/4IN	6,350	1/4"	217	268	228	36	8
	A6994TFP-6.5	6,5		217	268	228	36	8
	A6994TFP-6.8	6,8		217	268	228	36	8
	A6994TFP-7	7		217	268	228	36	8
	A6994TFP-8	8		244	294	256	36	8
	A6994TFP-8.3	8,3		273	330	287	40	10
	A6994TFP-8.5	8,5		273	330	287	40	10
	A6994TFP-11/32IN	8,731	11/32"	273	330	287	40	10
	A6994TFP-9	9		273	330	287	40	10
	A6994TFP-10	10		305	364	320	40	10

WALTER
SELECT

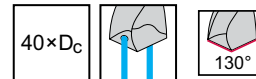
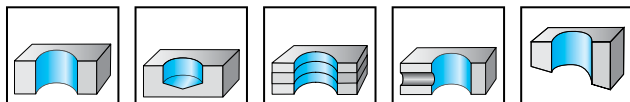
●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = 😊 → medianas = 😐 → ruins = ☹️

Broca de metal duro com canal de refrigeração

A7495TTP

X-treme D40

B1



	P	M	K	N	S	H	O
TTP	●●	●	●●	●●			

Ferramenta		D _c e7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm
DIN 6535 HA	A7495TTP-3	3		134	172	139	28	4
	A7495TTP-1/8IN	3,175	1/8"	134	172	139	28	4
	A7495TTP-3.5	3,5		150	188	156	28	4
	A7495TTP-9/64IN	3,572	9/64"	150	188	156	28	4
	A7495TTP-5/32IN	3,969	5/32"	168	206	174	28	4
	A7495TTP-4	4		168	206	174	28	4
	A7495TTP-4.5	4,5		188	228	195	28	5
	A7495TTP-3/16IN	4,763	3/16"	209	249	217	28	5
	A7495TTP-4.8	4,8		209	249	217	28	5
	A7495TTP-5	5		209	249	217	28	5
	A7495TTP-5.5	5,5		230	279	239	36	6
	A7495TTP-7/32IN	5,556	7/32"	248	297	257	36	6
	A7495TTP-5.8	5,8		248	297	257	36	6
	A7495TTP-6	6		248	297	257	36	6
	A7495TTP-6.1	6,1		272	324	282	36	8
	A7495TTP-1/4IN	6,350	1/4"	272	324	282	36	8
	A7495TTP-6.5	6,5		272	324	282	36	8
	A7495TTP-6.8	6,8		287	339	298	36	8
	A7495TTP-7	7		287	339	298	36	8
	A7495TTP-9/32IN	7,144	9/32"	313	366	325	36	8
	A7495TTP-7.5	7,5		313	366	325	36	8
	A7495TTP-5/16IN	7,938	5/16"	330	382	342	36	8
	A7495TTP-8	8		330	382	342	36	8
	A7495TTP-8.5	8,5		356	415	369	40	10
	A7495TTP-11/32IN	8,731	11/32"	371	430	385	40	10
	A7495TTP-9	9		371	430	385	40	10
	A7495TTP-3/8IN	9,525	3/8"	418	477	412	40	10
	A7495TTP-9.8	9,8		418	477	433	40	10
	A7495TTP-10	10		418	477	433	40	10
	A7495TTP-10.2	10,2		460	528	477	45	12
	A7495TTP-11	11		460	528	477	45	12

WALTER
SELECT

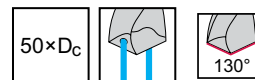
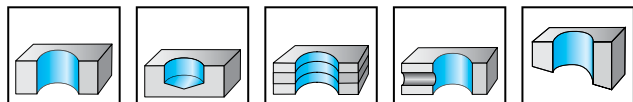
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Broca de metal duro com canal de refrigeração

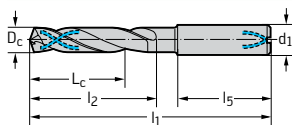
A7595TTP

X-treme D50



	P	M	K	N	S	H	O
TTP	●●	●	●●	●●			

B1

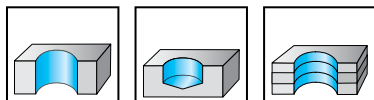
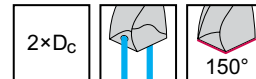
Ferramenta		D _c e7 mm	D _c inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm
 DIN 6535 HA	Denominação							
	A7595TTP-3	3		166	204	171	28	4
	A7595TTP-1/8IN	3,175	1/8"	166	204	171	28	4
	A7595TTP-3.5	3,5		186	224	192	28	4
	A7595TTP-9/64IN	3,572	9/64"	186	224	192	28	4
	A7595TTP-5/32IN	3,969	5/32"	203	239	209	28	4
	A7595TTP-4	4		203	239	209	28	4
	A7595TTP-4.5	4,5		233	273	240	28	5
	A7595TTP-3/16IN	4,763	3/16"	259	299	267	28	5
	A7595TTP-4.8	4,8		259	299	267	28	5
	A7595TTP-5	5		259	299	267	28	5
	A7595TTP-5.5	5,5		285	334	294	36	6
	A7595TTP-7/32IN	5,556	7/32"	308	357	317	36	6
	A7595TTP-6	6		308	357	317	36	6
	A7595TTP-6.1	6,1		337	389	347	36	8
	A7595TTP-1/4IN	6,350	1/4"	337	389	347	36	8
	A7595TTP-6.5	6,5		337	389	347	36	8
	A7595TTP-6.8	6,8		357	409	368	36	8
	A7595TTP-7	7		357	409	368	36	8
	A7595TTP-5/16IN	7,938	5/16"	410	462	422	36	8
	A7595TTP-8	8		410	462	422	36	8
	A7595TTP-8.3	8,3		441	500	454	40	10
	A7595TTP-8.5	8,5		441	500	454	40	10
	A7595TTP-11/32IN	8,731	11/32"	466	525	480	40	10
	A7595TTP-9	9		466	525	480	40	10

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = 😊 → medianas = 😐 → ruins = ☹

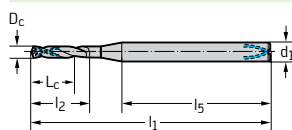
Broca de metal duro Micro Pilot com canal de refrigeração

DB131 Supreme



	P	M	K	N	S	H	O
WJ30EL	●●	●●	●●	●●	●●	●	●

Ferramenta



DIN 6535 HA

Denominação	D _c p7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EL
DB131-02-02.000A1-	2		7	57	10	42	3	☹
DB131-02-02.050A1-	2,05		7	57	11	42	3	☹
DB131-02-02.100A1-	2,1		7	57	11	42	3	☹
DB131-02-02.150A1-	2,15		7	57	11	42	3	☹
DB131-02-02.200A1-	2,2		7	57	11	42	3	☹
DB131-02-02.250A1-	2,25		8	59	12	43	3	☹
DB131-02-02.300A1-	2,3		8	59	12	43	3	☹
DB131-02-02.350A1-	2,35		8	59	12	43	3	☹
DB131-02-02.381A1-	2,381	3/32"	8	59	12	43	3	☹
DB131-02-02.400A1-	2,4		8	59	12	43	3	☹
DB131-02-02.450A1-	2,45		9	59	13	42	3	☹
DB131-02-02.500A1-	2,5		9	59	13	42	3	☹
DB131-02-02.550A1-	2,55		9	62	13	45	3	☹
DB131-02-02.600A1-	2,6		9	62	13	45	3	☹
DB131-02-02.650A1-	2,65		9	62	14	45	3	☹
DB131-02-02.700A1-	2,7		9	62	14	45	3	☹
DB131-02-02.750A1-	2,75		9	62	14	45	3	☹
DB131-02-02.778A1-	2,778	7/64"	9	62	14	45	3	☹
DB131-02-02.800A1-	2,8		9	62	14	45	3	☹
DB131-02-02.850A1-	2,85		10	62	15	44	3	☹
DB131-02-02.900A1-	2,9		10	62	15	44	3	☹
DB131-02-02.950A1-	2,95		10	62	15	44	3	☹

Exemplo de pedido para a classe WJ30EL: DB131-02-02.000A1-WJ30EL

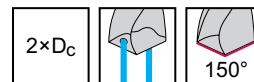
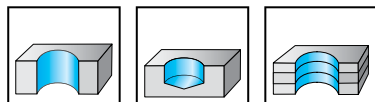
Brocas piloto de metal duro com canal de refrigeração

A6181TFT

XD Pilot



– Tolerância de Ø específica para tecnologia XD



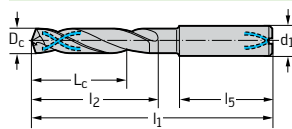
	P	M	K	N	S	H	O
TFT	●●	●●	●●	●●	●●	●	●

B1

Ferramenta		D _c p7 mm	D _c inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm
	A6181TFT-3	3		14	66	20	36	6
	A6181TFT-1/8IN	3,175	1/8"	14	66	20	36	6
	A6181TFT-3.5	3,5		14	66	20	36	6
	A6181TFT-9/64IN	3,572	9/64"	14	66	20	36	6
DIN 6535 HA	A6181TFT-5/32IN	3,969	5/32"	16	74	24	36	6
	A6181TFT-4	4		16	74	24	36	6
	A6181TFT-4.5	4,5		16	74	24	36	6
	A6181TFT-3/16IN	4,763	3/16"	19	82	28	36	6
	A6181TFT-4.8	4,8		19	82	28	36	6
	A6181TFT-5	5		19	82	28	36	6
	A6181TFT-5.5	5,5		19	82	28	36	6
	A6181TFT-7/32IN	5,556	7/32"	19	82	28	36	6
	A6181TFT-5.8	5,8		19	82	28	36	6
	A6181TFT-6	6		19	82	28	36	6
	A6181TFT-6.1	6,1		23	91	34	36	8
	A6181TFT-1/4IN	6,350	1/4"	23	91	34	36	8
	A6181TFT-6.5	6,5		23	91	34	36	8
	A6181TFT-6.8	6,8		23	91	34	36	8
	A6181TFT-7	7		23	91	34	36	8
	A6181TFT-9/32IN	7,144	9/32"	29	91	41	36	8
	A6181TFT-7.4	7,4		29	91	41	36	8
	A6181TFT-7.5	7,5		29	91	41	36	8
	A6181TFT-5/16IN	7,938	5/16"	29	91	41	36	8
	A6181TFT-8	8		29	91	41	36	8
	A6181TFT-8.3	8,3		32	103	47	40	10
	A6181TFT-8.5	8,5		32	103	47	40	10
	A6181TFT-11/32IN	8,731	11/32"	32	103	47	40	10
	A6181TFT-9	9		32	103	47	40	10
	A6181TFT-3/8IN	9,525	3/8"	32	103	47	40	10
	A6181TFT-9.8	9,8		32	103	47	40	10
	A6181TFT-10	10		32	103	47	40	10
	A6181TFT-10.2	10,2		37	118	55	45	12
	A6181TFT-13/32IN	10,319	13/32"	37	118	55	45	12
	A6181TFT-11	11		37	118	55	45	12
	A6181TFT-7/16IN	11,113	7/16"	37	118	55	45	12
	A6181TFT-11.5	11,5		37	118	55	45	12

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
Ferramenta ideal para condições de usinagem → boas = 😊 → medianas = 😐 → ruins = ☹

Ferramenta		D_c p7 mm	D_c Inch/Nr	L_c mm	l_1 mm	l_2 mm	l_5 mm	d_1 h6 mm
 DIN 6535 HA	Denominação							
	A6181TFT-11.8	11,8		37	118	55	45	12
	A6181TFT-15/32IN	11,906	15/32"	37	118	55	45	12
	A6181TFT-12	12		37	118	55	45	12
	A6181TFT-1/2IN	12,700	1/2"	46	124	60	45	14
	A6181TFT-13	13		46	124	60	45	14
	A6181TFT-14	14		46	124	60	45	14
	A6181TFT-9/16IN	14,288	9/16"	49	133	65	48	16
	A6181TFT-15	15		49	133	65	48	16
	A6181TFT-16	16		49	133	65	48	16

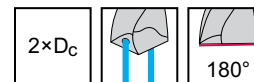
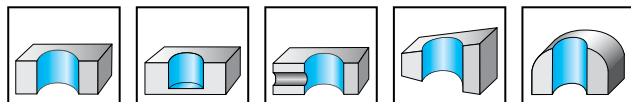
B1

Broca helicoidal de metal duro a 180°

DC118 Supreme



– Tolerância de Ø específica para tecnologia XD



	P	M	K	N	S	H	O
WJ30ET	●●	●●	●●	●●	●●	●	●

B1

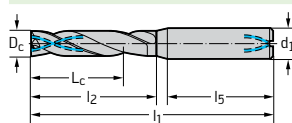
Ferramenta		D _c p7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ mm	WJ30ET
	Denominação								
	DC118-02-03.000A1-	3		7,8	62	12	42	6	☺
	DC118-02-03.175A1-	3,175	1/8"	7,7	62	12	42	6	☺
DIN 6535 HA	DC118-02-03.300A1-	3,3		7,6	62	12	42	6	☺
	DC118-02-03.500A1-	3,5		8,4	62	13	42	6	☺
	DC118-02-03.572A1-	3,572	9/64"	8,3	62	13	42	6	☺
	DC118-02-03.969A1-	3,969	5/32"	8,9	66	14	42	6	☺
	DC118-02-04.000A1-	4		8,9	66	14	42	6	☺
	DC118-02-04.200A1-	4,2		10,7	66	16	42	6	☺
	DC118-02-04.500A1-	4,5		10,4	66	16	42	6	☺
	DC118-02-04.763A1-	4,763	3/16"	12,2	66	18	42	6	☺
	DC118-02-04.800A1-	4,8		12,1	66	18	42	6	☺
	DC118-02-05.000A1-	5		11,9	66	18	42	6	☺
	DC118-02-05.500A1-	5,5		13,5	66	20	42	6	☺
	DC118-02-05.556A1-	5,556	7/32"	14,4	66	21	42	6	☺
	DC118-02-05.800A1-	5,8		14,2	66	21	42	6	☺
	DC118-02-06.000A1-	6		14	66	21	42	6	☺
	DC118-02-06.100A1-	6,1		15,9	79	23	47	8	☺
	DC118-02-06.350A1-	6,350	1/4"	15,6	79	23	47	8	☺
	DC118-02-06.500A1-	6,5		15,5	79	23	47	8	☺
	DC118-02-06.800A1-	6,8		17,2	79	25	47	8	☺
	DC118-02-07.000A1-	7		17	79	25	47	8	☺
	DC118-02-07.144A1-	7,144	9/32"	19,9	79	28	47	8	☺
	DC118-02-07.400A1-	7,4		19,6	79	28	47	8	☺
	DC118-02-07.500A1-	7,5		19,5	79	28	47	8	☺
	DC118-02-07.938A1-	7,938	5/16"	19,1	79	28	47	8	☺
	DC118-02-08.000A1-	8		19	79	28	47	8	☺
	DC118-02-08.300A1-	8,3		22,8	89	32	50	10	☺
	DC118-02-08.500A1-	8,5		22,6	89	32	50	10	☺
	DC118-02-08.731A1-	8,731	11/32"	22,3	89	32	50	10	☺
	DC118-02-09.000A1-	9		22,1	89	32	50	10	☺
	DC118-02-09.525A1-	9,525	3/8"	24,6	89	35	50	10	☺
	DC118-02-09.800A1-	9,8		24,3	89	35	50	10	☺
	DC118-02-10.000A1-	10		24,1	89	35	50	10	☺
	DC118-02-10.200A1-	10,2		29	102	40	52	12	☺
	DC118-02-10.319A1-	10,319	13/32"	28,8	102	40	52	12	☺
	DC118-02-10.500A1-	10,5		28,7	102	40	52	12	☺

Exemplo de pedido para a classe WJ30ET: DC118-02-03.000A1-WJ30ET

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

Denominação	D _c p7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ mm	WJ30ET
DC118-02-11.000A1-	11		28,2	102	40	52	12	☹
DC118-02-11.113A1-	11,113	7/16"	31,1	102	43	52	12	☹
DC118-02-11.500A1-	11,5		30,8	102	43	52	12	☹
DC118-02-11.800A1-	11,8		30,5	102	43	52	12	☹
DC118-02-11.906A1-	11,906	15/32"	30,4	102	43	52	12	☹
DC118-02-12.000A1-	12		30,3	102	43	52	12	☹
DC118-02-12.500A1-	12,5		35,9	107	49	52	14	☹
DC118-02-12.700A1-	12,700	1/2"	35,7	107	49	52	14	☹
DC118-02-13.000A1-	13		35,5	107	49	52	14	☹
DC118-02-13.500A1-	13,5		35,1	107	49	52	14	☹
DC118-02-14.000A1-	14		34,7	107	49	52	14	☹
DC118-02-14.288A1-	14,288	9/16"	41,4	115	56	53	16	☹
DC118-02-14.500A1-	14,5		41,3	115	56	53	16	☹
DC118-02-15.000A1-	15		40,9	115	56	53	16	☹
DC118-02-16.000A1-	16		40,2	115	56	53	16	☹
DC118-02-17.000A1-	17		46,5	123	63	53	18	☹
DC118-02-17.500A1-	17,5		46,2	123	63	53	18	☹
DC118-02-18.000A1-	18		45,9	123	63	53	18	☹
DC118-02-19.000A1-	19		52,3	131	70	55	20	☹
DC118-02-20.000A1-	20		51,9	131	70	55	20	☹

Exemplo de pedido para a classe WJ30ET: DC118-02-03.000A1-WJ30ET

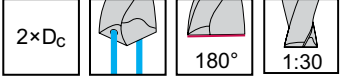
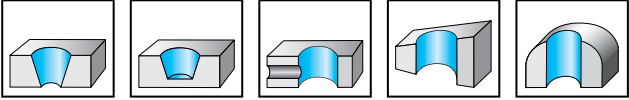
Brocas piloto de metal duro com canal de refrigeração

K5191TFT

X-treme Pilot 180 C

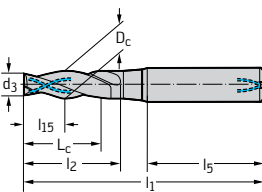


- Para superfícies inclinadas ou abauladas (por exemplo, virabrequins)
- Contorno cônico 1:30 – para evitar a geração de escalonamentos em furos piloto



	P	M	K	N	S	H	O
TFT	●●	●●	●●	●●	●●	●	●

Ferramenta

	Denominação	D _c mm	d ₃ mm	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	l ₁₅ mm	d ₁ h6 mm
	K5191TFT-4	4	3,9	10	59	16	36	3	6
	K5191TFT-5	5	4,9	11	63	19	36	3	6
	K5191TFT-6	6	5,85	13	68	22	36	4,5	8
	K5191TFT-7	7	6,85	15	73	26	36	4,5	8

DIN 6535 HA

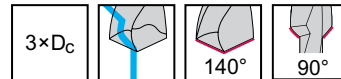
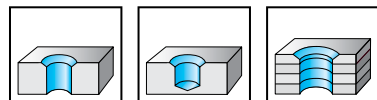
Broca helicoidal VHM

DC260 Advance

X-treme Evo



- Comprimento dos escalonamentos conforme a DIN 8378
- Para furos para rosca



	P	M	K	N	S	H	O
WJ30ET	●●	●	●●	●	●	●	●

Ferramenta

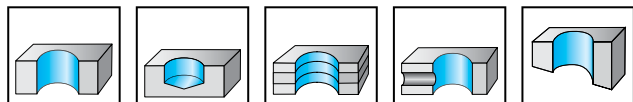
Denominação	para rosca	D _c mm	d ₁₀ mm	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC260-03-03.300A0-	M 4	3,3	5	11	66	28	36	6	☺
DC260-03-04.200A0-	M 5	4,2	6	14	66	28	36	6	☺
DC260-03-05.000A0-	M 6	5	8	17	79	41	36	8	☺
DC260-03-06.800A0-	M 8	6,8	10	21	89	47	40	10	☺
DC260-03-08.500A0-	M 10	8,5	12	26	102	55	45	12	☺
DC260-03-10.200A0-	M 12	10,2	14	30	107	60	45	14	☺
DC260-03-12.000A0-	M 14	12	16	35	115	65	48	16	☺
DC260-03-14.000A0-	M 16	14	18	39	123	73	48	18	☺
DC260-03-03.300F0-	M 4	3,3	5	11	66	28	36	6	☺
DC260-03-04.200F0-	M 5	4,2	6	14	66	28	36	6	☺
DC260-03-05.000F0-	M 6	5	8	17	79	41	36	8	☺
DC260-03-06.800F0-	M 8	6,8	10	21	89	47	40	10	☺
DC260-03-07.000F0-	M 8 X 1	7	10	21	89	47	40	10	☺
DC260-03-08.500F0-	M 10	8,5	12	26	102	55	45	12	☺
DC260-03-09.000F0-	M 10 X 1	9	12	26	102	55	45	12	☺
DC260-03-10.200F0-	M 12	10,2	14	30	107	60	45	14	☺
DC260-03-10.500F0-	M 12 X 1,5	10,5	14	30	107	60	45	14	☺
DC260-03-12.000F0-	M 14	12	16	35	115	65	48	16	☺
DC260-03-12.500F0-	M 14 X 1,5	12,5	16	35	115	65	48	16	☺
DC260-03-14.000F0-	M 16	14	18	39	123	73	48	18	☺
DC260-03-14.500F0-	M 16 X 1,5	14,5	18	39	123	73	48	18	☺

Exemplo de pedido para a classe WJ30ET: DC260-03-03.300A0-WJ30ET

Broca helicoidal VHM

DC160 Advance

X-treme Evo



	P	M	K	N	S	H	O
WJ30ET	●●	●	●●	●	●	●	●

B1

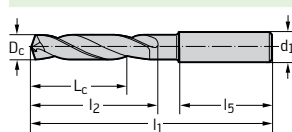
Ferramenta	Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
 DIN 6535 HA	DC160-03-03.000A0-	3		14	62	20	36	6	☺
	DC160-03-03.100A0-	3,1		14	62	20	36	6	☺
	DC160-03-03.175A0-	3,175	1/8"	14	62	20	36	6	☺
	DC160-03-03.200A0-	3,2		14	62	20	36	6	☺
	DC160-03-03.250A0-	3,25		14	62	20	36	6	☺
	DC160-03-03.300A0-	3,3		14	62	20	36	6	☺
	DC160-03-03.400A0-	3,4		14	62	20	36	6	☺
	DC160-03-03.500A0-	3,5		14	62	20	36	6	☺
	DC160-03-03.572A0-	3,572	9/64"	14	62	20	36	6	☺
	DC160-03-03.600A0-	3,6		14	62	20	36	6	☺
	DC160-03-03.650A0-	3,65		14	62	20	36	6	☺
	DC160-03-03.700A0-	3,7		14	62	20	36	6	☺
	DC160-03-03.800A0-	3,8		17	66	24	36	6	☺
	DC160-03-03.900A0-	3,9		17	66	24	36	6	☺
	DC160-03-03.969A0-	3,969	5/32"	17	66	24	36	6	☺
	DC160-03-04.000A0-	4		17	66	24	36	6	☺
	DC160-03-04.100A0-	4,1		17	66	24	36	6	☺
	DC160-03-04.200A0-	4,2		17	66	24	36	6	☺
	DC160-03-04.300A0-	4,3		17	66	24	36	6	☺
	DC160-03-04.366A0-	4,366	11/64"	17	66	24	36	6	☺
	DC160-03-04.400A0-	4,4		17	66	24	36	6	☺
	DC160-03-04.500A0-	4,5		17	66	24	36	6	☺
	DC160-03-04.600A0-	4,6		17	66	24	36	6	☺
	DC160-03-04.650A0-	4,65		17	66	24	36	6	☺
	DC160-03-04.700A0-	4,7		17	66	24	36	6	☺
	DC160-03-04.763A0-	4,763	3/16"	20	66	28	36	6	☺
	DC160-03-04.800A0-	4,8		20	66	28	36	6	☺
	DC160-03-04.900A0-	4,9		20	66	28	36	6	☺
	DC160-03-05.000A0-	5		20	66	28	36	6	☺
	DC160-03-05.100A0-	5,1		20	66	28	36	6	☺
	DC160-03-05.159A0-	5,159	13/64"	20	66	28	36	6	☺
	DC160-03-05.200A0-	5,2		20	66	28	36	6	☺
	DC160-03-05.300A0-	5,3		20	66	28	36	6	☺
	DC160-03-05.400A0-	5,4		20	66	28	36	6	☺
	DC160-03-05.500A0-	5,5		20	66	28	36	6	☺
	DC160-03-05.550A0-	5,55		20	66	28	36	6	☺

Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A0-WJ30ET

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-03-05.556A0-	5,556	7/32"	20	66	28	36	6	☹
DC160-03-05.600A0-	5,6		20	66	28	36	6	☹
DC160-03-05.700A0-	5,7		20	66	28	36	6	☹
DC160-03-05.800A0-	5,8		20	66	28	36	6	☹
DC160-03-05.900A0-	5,9		20	66	28	36	6	☹
DC160-03-05.953A0-	5,953	15/64"	20	66	28	36	6	☹
DC160-03-06.000A0-	6		20	66	28	36	6	☹
DC160-03-06.100A0-	6,1		24	79	34	36	8	☹
DC160-03-06.200A0-	6,2		24	79	34	36	8	☹
DC160-03-06.300A0-	6,3		24	79	34	36	8	☹
DC160-03-06.350A0-	6,350	1/4"	24	79	34	36	8	☹
DC160-03-06.400A0-	6,4		24	79	34	36	8	☹
DC160-03-06.500A0-	6,5		24	79	34	36	8	☹
DC160-03-06.600A0-	6,6		24	79	34	36	8	☹
DC160-03-06.700A0-	6,7		24	79	34	36	8	☹
DC160-03-06.747A0-	6,747	17/64"	24	79	34	36	8	☹
DC160-03-06.800A0-	6,8		24	79	34	36	8	☹
DC160-03-06.900A0-	6,9		24	79	34	36	8	☹
DC160-03-07.000A0-	7		24	79	34	36	8	☹
DC160-03-07.100A0-	7,1		29	79	41	36	8	☹
DC160-03-07.144A0-	7,144	9/32"	29	79	41	36	8	☹
DC160-03-07.200A0-	7,2		29	79	41	36	8	☹
DC160-03-07.300A0-	7,3		29	79	41	36	8	☹
DC160-03-07.400A0-	7,4		29	79	41	36	8	☹
DC160-03-07.500A0-	7,5		29	79	41	36	8	☹
DC160-03-07.541A0-	7,541	19/64"	29	79	41	36	8	☹
DC160-03-07.550A0-	7,55		29	79	41	36	8	☹
DC160-03-07.600A0-	7,6		29	79	41	36	8	☹
DC160-03-07.700A0-	7,7		29	79	41	36	8	☹
DC160-03-07.800A0-	7,8		29	79	41	36	8	☹
DC160-03-07.900A0-	7,9		29	79	41	36	8	☹
DC160-03-07.938A0-	7,938	5/16"	29	79	41	36	8	☹
DC160-03-08.000A0-	8		29	79	41	36	8	☹
DC160-03-08.100A0-	8,1		35	89	47	40	10	☹
DC160-03-08.200A0-	8,2		35	89	47	40	10	☹
DC160-03-08.300A0-	8,3		35	89	47	40	10	☹
DC160-03-08.334A0-	8,334	21/64"	35	89	47	40	10	☹
DC160-03-08.400A0-	8,4		35	89	47	40	10	☹
DC160-03-08.500A0-	8,5		35	89	47	40	10	☹
DC160-03-08.600A0-	8,6		35	89	47	40	10	☹
DC160-03-08.700A0-	8,7		35	89	47	40	10	☹
DC160-03-08.731A0-	8,731	11/32"	35	89	47	40	10	☹
DC160-03-08.800A0-	8,8		35	89	47	40	10	☹
DC160-03-08.900A0-	8,9		35	89	47	40	10	☹
DC160-03-09.000A0-	9		35	89	47	40	10	☹
DC160-03-09.100A0-	9,1		35	89	47	40	10	☹

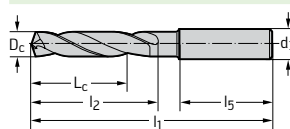
Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A0-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

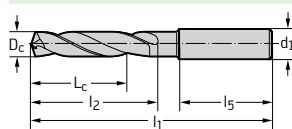
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-03-09.128A0-	9,128	23/64"	35	89	47	40	10	☹
DC160-03-09.200A0-	9,2		35	89	47	40	10	☹
DC160-03-09.300A0-	9,3		35	89	47	40	10	☹
DC160-03-09.400A0-	9,4		35	89	47	40	10	☹
DC160-03-09.500A0-	9,5		35	89	47	40	10	☹
DC160-03-09.525A0-	9,525	3/8"	35	89	47	40	10	☹
DC160-03-09.550A0-	9,55		35	89	47	40	10	☹
DC160-03-09.600A0-	9,6		35	89	47	40	10	☹
DC160-03-09.700A0-	9,7		35	89	47	40	10	☹
DC160-03-09.800A0-	9,8		35	89	47	40	10	☹
DC160-03-09.900A0-	9,9		35	89	47	40	10	☹
DC160-03-09.922A0-	9,922	25/64"	35	89	47	40	10	☹
DC160-03-10.000A0-	10		35	89	47	40	10	☹
DC160-03-10.100A0-	10,1		40	102	55	45	12	☹
DC160-03-10.200A0-	10,2		40	102	55	45	12	☹
DC160-03-10.300A0-	10,3		40	102	55	45	12	☹
DC160-03-10.319A0-	10,319	13/32"	40	102	55	45	12	☹
DC160-03-10.400A0-	10,4		40	102	55	45	12	☹
DC160-03-10.500A0-	10,5		40	102	55	45	12	☹
DC160-03-10.600A0-	10,6		40	102	55	45	12	☹
DC160-03-10.700A0-	10,7		40	102	55	45	12	☹
DC160-03-10.716A0-	10,716	27/64"	40	102	55	45	12	☹
DC160-03-10.800A0-	10,8		40	102	55	45	12	☹
DC160-03-10.900A0-	10,9		40	102	55	45	12	☹
DC160-03-11.000A0-	11		40	102	55	45	12	☹
DC160-03-11.100A0-	11,1		40	102	55	45	12	☹
DC160-03-11.113A0-	11,113	7/16"	40	102	55	45	12	☹
DC160-03-11.200A0-	11,2		40	102	55	45	12	☹
DC160-03-11.300A0-	11,3		40	102	55	45	12	☹
DC160-03-11.400A0-	11,4		40	102	55	45	12	☹
DC160-03-11.500A0-	11,5		40	102	55	45	12	☹
DC160-03-11.509A0-	11,509	29/64"	40	102	55	45	12	☹
DC160-03-11.550A0-	11,55		40	102	55	45	12	☹
DC160-03-11.700A0-	11,7		40	102	55	45	12	☹
DC160-03-11.800A0-	11,8		40	102	55	45	12	☹
DC160-03-11.900A0-	11,9		40	102	55	45	12	☹
DC160-03-11.906A0-	11,906	15/32"	40	102	55	45	12	☹
DC160-03-12.000A0-	12		40	102	55	45	12	☹
DC160-03-12.100A0-	12,1		43	107	60	45	14	☹
DC160-03-12.200A0-	12,2		43	107	60	45	14	☹
DC160-03-12.250A0-	12,25		43	107	60	45	14	☹
DC160-03-12.300A0-	12,3		43	107	60	45	14	☹
DC160-03-12.303A0-	12,303	31/64"	43	107	60	45	14	☹
DC160-03-12.400A0-	12,4		43	107	60	45	14	☹
DC160-03-12.500A0-	12,5		43	107	60	45	14	☹
DC160-03-12.600A0-	12,6		43	107	60	45	14	☹

Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A0-WJ30ET

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹☹

Ferramenta



DIN 6535 HA

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-03-12.700A0-	12,700	1/2"	43	107	60	45	14	☹
DC160-03-12.750A0-	12,75		43	107	60	45	14	☹
DC160-03-12.800A0-	12,8		43	107	60	45	14	☹
DC160-03-12.900A0-	12,9		43	107	60	45	14	☹
DC160-03-13.000A0-	13		43	107	60	45	14	☹
DC160-03-13.100A0-	13,1		43	107	60	45	14	☹
DC160-03-13.200A0-	13,2		43	107	60	45	14	☹
DC160-03-13.300A0-	13,3		43	107	60	45	14	☹
DC160-03-13.400A0-	13,4		43	107	60	45	14	☹
DC160-03-13.494A0-	13,494	17/32"	43	107	60	45	14	☹
DC160-03-13.500A0-	13,5		43	107	60	45	14	☹
DC160-03-13.600A0-	13,6		43	107	60	45	14	☹
DC160-03-13.700A0-	13,7		43	107	60	45	14	☹
DC160-03-13.800A0-	13,8		43	107	60	45	14	☹
DC160-03-13.900A0-	13,9		43	107	60	45	14	☹
DC160-03-14.000A0-	14		43	107	60	45	14	☹
DC160-03-14.100A0-	14,1		45	115	65	48	16	☹
DC160-03-14.200A0-	14,2		45	115	65	48	16	☹
DC160-03-14.288A0-	14,288	9/16"	45	115	65	48	16	☹
DC160-03-14.300A0-	14,3		45	115	65	48	16	☹
DC160-03-14.400A0-	14,4		45	115	65	48	16	☹
DC160-03-14.500A0-	14,5		45	115	65	48	16	☹
DC160-03-14.600A0-	14,6		45	115	65	48	16	☹
DC160-03-14.700A0-	14,7		45	115	65	48	16	☹
DC160-03-14.800A0-	14,8		45	115	65	48	16	☹
DC160-03-15.000A0-	15		45	115	65	48	16	☹
DC160-03-15.100A0-	15,1		45	115	65	48	16	☹
DC160-03-15.200A0-	15,2		45	115	65	48	16	☹
DC160-03-15.300A0-	15,3		45	115	65	48	16	☹
DC160-03-15.500A0-	15,5		45	115	65	48	16	☹
DC160-03-15.600A0-	15,6		45	115	65	48	16	☹
DC160-03-15.700A0-	15,7		45	115	65	48	16	☹
DC160-03-15.800A0-	15,8		45	115	65	48	16	☹
DC160-03-15.875A0-	15,875	5/8"	45	115	65	48	16	☹
DC160-03-15.900A0-	15,9		45	115	65	48	16	☹
DC160-03-16.000A0-	16		45	115	65	48	16	☹
DC160-03-16.100A0-	16,1		51	123	73	48	18	☹
DC160-03-16.200A0-	16,2		51	123	73	48	18	☹
DC160-03-16.300A0-	16,3		51	123	73	48	18	☹
DC160-03-16.500A0-	16,5		51	123	73	48	18	☹
DC160-03-16.600A0-	16,6		51	123	73	48	18	☹
DC160-03-16.700A0-	16,7		51	123	73	48	18	☹
DC160-03-16.750A0-	16,75		51	123	73	48	18	☹
DC160-03-16.800A0-	16,8		51	123	73	48	18	☹
DC160-03-17.000A0-	17		51	123	73	48	18	☹
DC160-03-17.200A0-	17,2		51	123	73	48	18	☹

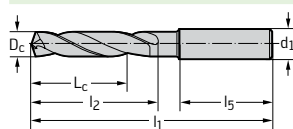
Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A0-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

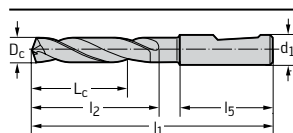
● ● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-03-17.300A0-	17,3		51	123	73	48	18	☺
DC160-03-17.500A0-	17,5		51	123	73	48	18	☺
DC160-03-17.600A0-	17,6		51	123	73	48	18	☺
DC160-03-17.700A0-	17,7		51	123	73	48	18	☺
DC160-03-17.800A0-	17,8		51	123	73	48	18	☺
DC160-03-18.000A0-	18		51	123	73	48	18	☺
DC160-03-18.200A0-	18,2		55	131	79	50	20	☺
DC160-03-18.500A0-	18,5		55	131	79	50	20	☺
DC160-03-18.700A0-	18,7		55	131	79	50	20	☺
DC160-03-18.800A0-	18,8		55	131	79	50	20	☺
DC160-03-19.000A0-	19		55	131	79	50	20	☺
DC160-03-19.050A0-	19,050	3/4"	55	131	79	50	20	☺
DC160-03-19.500A0-	19,5		55	131	79	50	20	☺
DC160-03-19.700A0-	19,7		55	131	79	50	20	☺
DC160-03-19.800A0-	19,8		55	131	79	50	20	☺
DC160-03-20.000A0-	20		55	131	79	50	20	☺
DC160-03-03.000F0-	3		14	62	20	36	6	☺
DC160-03-03.100F0-	3,1		14	62	20	36	6	☺
DC160-03-03.200F0-	3,2		14	62	20	36	6	☺
DC160-03-03.250F0-	3,25		14	62	20	36	6	☺
DC160-03-03.300F0-	3,3		14	62	20	36	6	☺
DC160-03-03.400F0-	3,4		14	62	20	36	6	☺
DC160-03-03.500F0-	3,5		14	62	20	36	6	☺
DC160-03-03.600F0-	3,6		14	62	20	36	6	☺
DC160-03-03.650F0-	3,65		14	62	20	36	6	☺
DC160-03-03.700F0-	3,7		14	62	20	36	6	☺
DC160-03-03.800F0-	3,8		17	66	24	36	6	☺
DC160-03-03.900F0-	3,9		17	66	24	36	6	☺
DC160-03-04.000F0-	4		17	66	24	36	6	☺
DC160-03-04.100F0-	4,1		17	66	24	36	6	☺
DC160-03-04.200F0-	4,2		17	66	24	36	6	☺
DC160-03-04.300F0-	4,3		17	66	24	36	6	☺
DC160-03-04.400F0-	4,4		17	66	24	36	6	☺
DC160-03-04.500F0-	4,5		17	66	24	36	6	☺
DC160-03-04.600F0-	4,6		17	66	24	36	6	☺
DC160-03-04.650F0-	4,65		17	66	24	36	6	☺
DC160-03-04.700F0-	4,7		17	66	24	36	6	☺
DC160-03-04.800F0-	4,8		20	66	28	36	6	☺
DC160-03-04.900F0-	4,9		20	66	28	36	6	☺
DC160-03-05.000F0-	5		20	66	28	36	6	☺
DC160-03-05.100F0-	5,1		20	66	28	36	6	☺
DC160-03-05.200F0-	5,2		20	66	28	36	6	☺
DC160-03-05.300F0-	5,3		20	66	28	36	6	☺
DC160-03-05.400F0-	5,4		20	66	28	36	6	☺
DC160-03-05.500F0-	5,5		20	66	28	36	6	☺
DC160-03-05.550F0-	5,55		20	66	28	36	6	☺



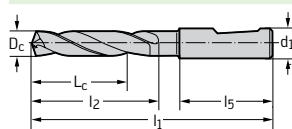
DIN 6535 HE

Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A0-WJ30ET

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HE

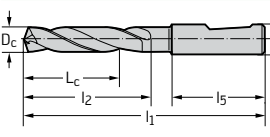
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-03-05.600F0-	5,6		20	66	28	36	6	☹
DC160-03-05.700F0-	5,7		20	66	28	36	6	☹
DC160-03-05.800F0-	5,8		20	66	28	36	6	☹
DC160-03-05.900F0-	5,9		20	66	28	36	6	☹
DC160-03-06.000F0-	6		20	66	28	36	6	☹
DC160-03-06.100F0-	6,1		24	79	34	36	8	☹
DC160-03-06.200F0-	6,2		24	79	34	36	8	☹
DC160-03-06.300F0-	6,3		24	79	34	36	8	☹
DC160-03-06.400F0-	6,4		24	79	34	36	8	☹
DC160-03-06.500F0-	6,5		24	79	34	36	8	☹
DC160-03-06.600F0-	6,6		24	79	34	36	8	☹
DC160-03-06.700F0-	6,7		24	79	34	36	8	☹
DC160-03-06.800F0-	6,8		24	79	34	36	8	☹
DC160-03-06.900F0-	6,9		24	79	34	36	8	☹
DC160-03-07.000F0-	7		24	79	34	36	8	☹
DC160-03-07.100F0-	7,1		29	79	41	36	8	☹
DC160-03-07.200F0-	7,2		29	79	41	36	8	☹
DC160-03-07.300F0-	7,3		29	79	41	36	8	☹
DC160-03-07.400F0-	7,4		29	79	41	36	8	☹
DC160-03-07.500F0-	7,5		29	79	41	36	8	☹
DC160-03-07.550F0-	7,55		29	79	41	36	8	☹
DC160-03-07.600F0-	7,6		29	79	41	36	8	☹
DC160-03-07.700F0-	7,7		29	79	41	36	8	☹
DC160-03-07.800F0-	7,8		29	79	41	36	8	☹
DC160-03-07.900F0-	7,9		29	79	41	36	8	☹
DC160-03-08.000F0-	8		29	79	41	36	8	☹
DC160-03-08.100F0-	8,1		35	89	47	40	10	☹
DC160-03-08.200F0-	8,2		35	89	47	40	10	☹
DC160-03-08.300F0-	8,3		35	89	47	40	10	☹
DC160-03-08.400F0-	8,4		35	89	47	40	10	☹
DC160-03-08.500F0-	8,5		35	89	47	40	10	☹
DC160-03-08.600F0-	8,6		35	89	47	40	10	☹
DC160-03-08.700F0-	8,7		35	89	47	40	10	☹
DC160-03-08.800F0-	8,8		35	89	47	40	10	☹
DC160-03-08.900F0-	8,9		35	89	47	40	10	☹
DC160-03-09.000F0-	9		35	89	47	40	10	☹
DC160-03-09.100F0-	9,1		35	89	47	40	10	☹
DC160-03-09.200F0-	9,2		35	89	47	40	10	☹
DC160-03-09.300F0-	9,3		35	89	47	40	10	☹
DC160-03-09.400F0-	9,4		35	89	47	40	10	☹
DC160-03-09.500F0-	9,5		35	89	47	40	10	☹
DC160-03-09.550F0-	9,55		35	89	47	40	10	☹
DC160-03-09.600F0-	9,6		35	89	47	40	10	☹
DC160-03-09.700F0-	9,7		35	89	47	40	10	☹
DC160-03-09.800F0-	9,8		35	89	47	40	10	☹
DC160-03-09.900F0-	9,9		35	89	47	40	10	☹

Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A0-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

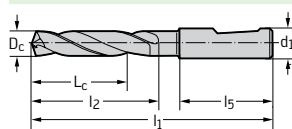
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	Denominação								
	DC160-03-10.000F0-	10		35	89	47	40	10	☹
	DC160-03-10.100F0-	10,1		40	102	55	45	12	☹
	DC160-03-10.200F0-	10,2		40	102	55	45	12	☹
	DC160-03-10.300F0-	10,3		40	102	55	45	12	☹
	DC160-03-10.400F0-	10,4		40	102	55	45	12	☹
	DC160-03-10.500F0-	10,5		40	102	55	45	12	☹
	DC160-03-10.600F0-	10,6		40	102	55	45	12	☹
	DC160-03-10.700F0-	10,7		40	102	55	45	12	☹
	DC160-03-10.800F0-	10,8		40	102	55	45	12	☹
	DC160-03-10.900F0-	10,9		40	102	55	45	12	☹
	DC160-03-11.000F0-	11		40	102	55	45	12	☹
	DC160-03-11.100F0-	11,1		40	102	55	45	12	☹
	DC160-03-11.200F0-	11,2		40	102	55	45	12	☹
	DC160-03-11.300F0-	11,3		40	102	55	45	12	☹
	DC160-03-11.400F0-	11,4		40	102	55	45	12	☹
	DC160-03-11.500F0-	11,5		40	102	55	45	12	☹
	DC160-03-11.550F0-	11,55		40	102	55	45	12	☹
	DC160-03-11.600F0-	11,6		40	102	55	45	12	☹
	DC160-03-11.700F0-	11,7		40	102	55	45	12	☹
	DC160-03-11.800F0-	11,8		40	102	55	45	12	☹
	DC160-03-11.900F0-	11,9		40	102	55	45	12	☹
	DC160-03-12.000F0-	12		40	102	55	45	12	☹
	DC160-03-12.100F0-	12,1		43	107	60	45	14	☹
	DC160-03-12.200F0-	12,2		43	107	60	45	14	☹
	DC160-03-12.250F0-	12,25		43	107	60	45	14	☹
	DC160-03-12.300F0-	12,3		43	107	60	45	14	☹
	DC160-03-12.400F0-	12,4		43	107	60	45	14	☹
	DC160-03-12.500F0-	12,5		43	107	60	45	14	☹
	DC160-03-12.600F0-	12,6		43	107	60	45	14	☹
	DC160-03-12.700F0-	12,700	1/2"	43	107	60	45	14	☹
	DC160-03-12.750F0-	12,75		43	107	60	45	14	☹
	DC160-03-12.800F0-	12,8		43	107	60	45	14	☹
	DC160-03-12.900F0-	12,9		43	107	60	45	14	☹
	DC160-03-13.000F0-	13		43	107	60	45	14	☹
	DC160-03-13.100F0-	13,1		43	107	60	45	14	☹
	DC160-03-13.200F0-	13,2		43	107	60	45	14	☹
	DC160-03-13.300F0-	13,3		43	107	60	45	14	☹
	DC160-03-13.400F0-	13,4		43	107	60	45	14	☹
	DC160-03-13.500F0-	13,5		43	107	60	45	14	☹
	DC160-03-13.600F0-	13,6		43	107	60	45	14	☹
	DC160-03-13.700F0-	13,7		43	107	60	45	14	☹
	DC160-03-13.800F0-	13,8		43	107	60	45	14	☹
	DC160-03-13.900F0-	13,9		43	107	60	45	14	☹
	DC160-03-14.000F0-	14		43	107	60	45	14	☹
	DC160-03-14.100F0-	14,1		45	115	65	48	16	☹
	DC160-03-14.200F0-	14,2		45	115	65	48	16	☹

Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A0-WJ30ET

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HE

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-03-14.300F0-	14,3		45	115	65	48	16	☹
DC160-03-14.400F0-	14,4		45	115	65	48	16	☹
DC160-03-14.500F0-	14,5		45	115	65	48	16	☹
DC160-03-14.600F0-	14,6		45	115	65	48	16	☹
DC160-03-14.700F0-	14,7		45	115	65	48	16	☹
DC160-03-14.750F0-	14,75		45	115	65	48	16	☹
DC160-03-14.800F0-	14,8		45	115	65	48	16	☹
DC160-03-15.000F0-	15		45	115	65	48	16	☹
DC160-03-15.100F0-	15,1		45	115	65	48	16	☹
DC160-03-15.200F0-	15,2		45	115	65	48	16	☹
DC160-03-15.300F0-	15,3		45	115	65	48	16	☹
DC160-03-15.500F0-	15,5		45	115	65	48	16	☹
DC160-03-15.600F0-	15,6		45	115	65	48	16	☹
DC160-03-15.700F0-	15,7		45	115	65	48	16	☹
DC160-03-15.800F0-	15,8		45	115	65	48	16	☹
DC160-03-15.900F0-	15,9		45	115	65	48	16	☹
DC160-03-16.000F0-	16		45	115	65	48	16	☹
DC160-03-16.100F0-	16,1		51	123	73	48	18	☹
DC160-03-16.200F0-	16,2		51	123	73	48	18	☹
DC160-03-16.300F0-	16,3		51	123	73	48	18	☹
DC160-03-16.400F0-	16,4		51	123	73	48	18	☹
DC160-03-16.500F0-	16,5		51	123	73	48	18	☹
DC160-03-16.600F0-	16,6		51	123	73	48	18	☹
DC160-03-16.700F0-	16,7		51	123	73	48	18	☹
DC160-03-16.750F0-	16,75		51	123	73	48	18	☹
DC160-03-16.800F0-	16,8		51	123	73	48	18	☹
DC160-03-17.000F0-	17		51	123	73	48	18	☹
DC160-03-17.200F0-	17,2		51	123	73	48	18	☹
DC160-03-17.300F0-	17,3		51	123	73	48	18	☹
DC160-03-17.500F0-	17,5		51	123	73	48	18	☹
DC160-03-17.600F0-	17,6		51	123	73	48	18	☹
DC160-03-17.700F0-	17,7		51	123	73	48	18	☹
DC160-03-17.800F0-	17,8		51	123	73	48	18	☹
DC160-03-18.000F0-	18		51	123	73	48	18	☹
DC160-03-18.200F0-	18,2		55	131	79	50	20	☹
DC160-03-18.500F0-	18,5		55	131	79	50	20	☹
DC160-03-18.700F0-	18,7		55	131	79	50	20	☹
DC160-03-18.800F0-	18,8		55	131	79	50	20	☹
DC160-03-19.000F0-	19		55	131	79	50	20	☹
DC160-03-19.500F0-	19,5		55	131	79	50	20	☹
DC160-03-19.700F0-	19,7		55	131	79	50	20	☹
DC160-03-19.800F0-	19,8		55	131	79	50	20	☹
DC160-03-20.000F0-	20		55	131	79	50	20	☹

Exemplo de pedido para a classe WJ30ET: DC160-03-03.000A0-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

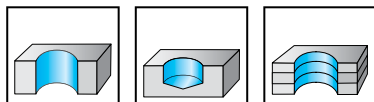
● ● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Brocas helicoidais de metal duro

DC150 Perform



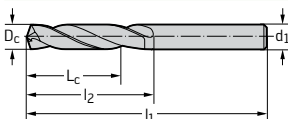
– Dimensões até 1,9 mm conforme a DIN 1897



	P	M	K	N	S	H	O
WJ30RE	●●	●	●●	●	●	●	●

B1

Ferramenta



Cylindrical shank

Denominação	D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ h6 mm	WJ30RE
DC150-03-01.500U0-	1,5		6	32	9	1,5	
DC150-03-01.588U0-	1,588	1/16"	7	34	10	1,588	
DC150-03-01.600U0-	1,6		7	34	10	1,6	
DC150-03-01.700U0-	1,7		7	34	10	1,7	
DC150-03-01.800U0-	1,8		8	36	11	1,8	
DC150-03-01.820U0-	1,82		8	36	11	1,82	
DC150-03-01.900U0-	1,9		8	36	11	1,9	
DC150-03-01.984U0-	1,984	5/64"	8	38	12	1,984	
DC150-03-02.000U0-	2		8	38	12	2	
DC150-03-02.050U0-	2,05		8	38	12	2,05	
DC150-03-02.100U0-	2,1		8	38	12	2,1	
DC150-03-02.200U0-	2,2		9	40	13	2,2	
DC150-03-02.300U0-	2,3		9	40	13	2,3	
DC150-03-02.381U0-	2,381	3/32"	10	43	14	2,381	
DC150-03-02.400U0-	2,4		10	43	14	2,4	
DC150-03-02.500U0-	2,5		10	43	14	2,5	
DC150-03-02.600U0-	2,6		10	43	14	2,6	
DC150-03-02.700U0-	2,7		11	46	16	2,7	
DC150-03-02.778U0-	2,778	7/64"	11	46	16	2,778	
DC150-03-02.800U0-	2,8		11	46	16	2,8	
DC150-03-02.900U0-	2,9		11	46	16	2,9	

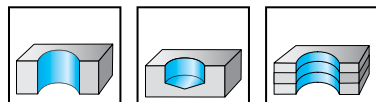
Exemplo de pedido para a classe WJ30RE: DC150-03-01.500U0-WJ30RE

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Brocas helicoidais de metal duro

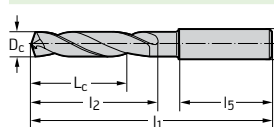
DC150 Perform



B1

	P	M	K	N	S	H	O
WJ30RE	●	●	●	●	●	●	●

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30RE
DC150-03-03.000A0-	3		14	62	20	36	6	☺
DC150-03-03.100A0-	3,1		14	62	20	36	6	☺
DC150-03-03.175A0-	3,175	1/8"	14	62	20	36	6	☺
DC150-03-03.200A0-	3,2		14	62	20	36	6	☺
DC150-03-03.250A0-	3,25		14	62	20	36	6	☺
DC150-03-03.300A0-	3,3		14	62	20	36	6	☺
DC150-03-03.400A0-	3,4		14	62	20	36	6	☺
DC150-03-03.500A0-	3,5		14	62	20	36	6	☺
DC150-03-03.572A0-	3,572	9/64"	14	62	20	36	6	☺
DC150-03-03.600A0-	3,6		14	62	20	36	6	☺
DC150-03-03.700A0-	3,7		14	62	20	36	6	☺
DC150-03-03.800A0-	3,8		17	66	24	36	6	☺
DC150-03-03.900A0-	3,9		17	66	24	36	6	☺
DC150-03-03.969A0-	3,969	5/32"	17	66	24	36	6	☺
DC150-03-04.000A0-	4		17	66	24	36	6	☺
DC150-03-04.100A0-	4,1		17	66	24	36	6	☺
DC150-03-04.200A0-	4,2		17	66	24	36	6	☺
DC150-03-04.300A0-	4,3		17	66	24	36	6	☺
DC150-03-04.366A0-	4,366	11/64"	17	66	24	36	6	☺
DC150-03-04.400A0-	4,4		17	66	24	36	6	☺
DC150-03-04.500A0-	4,5		17	66	24	36	6	☺
DC150-03-04.600A0-	4,6		17	66	24	36	6	☺
DC150-03-04.650A0-	4,65		17	66	24	36	6	☺
DC150-03-04.700A0-	4,7		17	66	24	36	6	☺
DC150-03-04.763A0-	4,763	3/16"	20	66	28	36	6	☺
DC150-03-04.800A0-	4,8		20	66	28	36	6	☺
DC150-03-04.900A0-	4,9		20	66	28	36	6	☺
DC150-03-05.000A0-	5		20	66	28	36	6	☺
DC150-03-05.100A0-	5,1		20	66	28	36	6	☺
DC150-03-05.159A0-	5,159	13/64"	20	66	28	36	6	☺
DC150-03-05.200A0-	5,2		20	66	28	36	6	☺
DC150-03-05.300A0-	5,3		20	66	28	36	6	☺
DC150-03-05.400A0-	5,4		20	66	28	36	6	☺
DC150-03-05.500A0-	5,5		20	66	28	36	6	☺
DC150-03-05.550A0-	5,55		20	66	28	36	6	☺
DC150-03-05.556A0-	5,556	7/32"	20	66	28	36	6	☺

Exemplo de pedido para a classe WJ30RE: DC150-03-03.000A0-WJ30RE

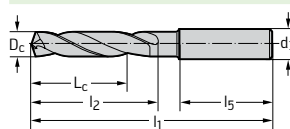
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

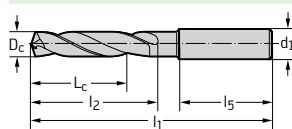
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30RE
DC150-03-05.600A0-	5,6		20	66	28	36	6	☹
DC150-03-05.700A0-	5,7		20	66	28	36	6	☹
DC150-03-05.800A0-	5,8		20	66	28	36	6	☹
DC150-03-05.900A0-	5,9		20	66	28	36	6	☹
DC150-03-05.953A0-	5,953	15/64"	20	66	28	36	6	☹
DC150-03-06.000A0-	6		20	66	28	36	6	☹
DC150-03-06.100A0-	6,1		24	79	34	36	8	☹
DC150-03-06.200A0-	6,2		24	79	34	36	8	☹
DC150-03-06.300A0-	6,3		24	79	34	36	8	☹
DC150-03-06.350A0-	6,350	1/4"	24	79	34	36	8	☹
DC150-03-06.400A0-	6,4		24	79	34	36	8	☹
DC150-03-06.500A0-	6,5		24	79	34	36	8	☹
DC150-03-06.600A0-	6,6		24	79	34	36	8	☹
DC150-03-06.700A0-	6,7		24	79	34	36	8	☹
DC150-03-06.747A0-	6,747	17/64"	24	79	34	36	8	☹
DC150-03-06.800A0-	6,8		24	79	34	36	8	☹
DC150-03-06.900A0-	6,9		24	79	34	36	8	☹
DC150-03-07.000A0-	7		24	79	34	36	8	☹
DC150-03-07.100A0-	7,1		29	79	41	36	8	☹
DC150-03-07.144A0-	7,144	9/32"	29	79	41	36	8	☹
DC150-03-07.200A0-	7,2		29	79	41	36	8	☹
DC150-03-07.300A0-	7,3		29	79	41	36	8	☹
DC150-03-07.400A0-	7,4		29	79	41	36	8	☹
DC150-03-07.500A0-	7,5		29	79	41	36	8	☹
DC150-03-07.541A0-	7,541	19/64"	29	79	41	36	8	☹
DC150-03-07.600A0-	7,6		29	79	41	36	8	☹
DC150-03-07.700A0-	7,7		29	79	41	36	8	☹
DC150-03-07.800A0-	7,8		29	79	41	36	8	☹
DC150-03-07.900A0-	7,9		29	79	41	36	8	☹
DC150-03-07.938A0-	7,938	5/16"	29	79	41	36	8	☹
DC150-03-08.000A0-	8		29	79	41	36	8	☹
DC150-03-08.100A0-	8,1		35	89	47	40	10	☹
DC150-03-08.200A0-	8,2		35	89	47	40	10	☹
DC150-03-08.300A0-	8,3		35	89	47	40	10	☹
DC150-03-08.334A0-	8,334	21/64"	35	89	47	40	10	☹
DC150-03-08.400A0-	8,4		35	89	47	40	10	☹
DC150-03-08.500A0-	8,5		35	89	47	40	10	☹
DC150-03-08.600A0-	8,6		35	89	47	40	10	☹
DC150-03-08.700A0-	8,7		35	89	47	40	10	☹
DC150-03-08.731A0-	8,731	11/32"	35	89	47	40	10	☹
DC150-03-08.800A0-	8,8		35	89	47	40	10	☹
DC150-03-08.900A0-	8,9		35	89	47	40	10	☹
DC150-03-09.000A0-	9		35	89	47	40	10	☹
DC150-03-09.100A0-	9,1		35	89	47	40	10	☹
DC150-03-09.200A0-	9,2		35	89	47	40	10	☹
DC150-03-09.300A0-	9,3		35	89	47	40	10	☹

Exemplo de pedido para a classe WJ30RE: DC150-03-03.000A0-WJ30RE

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DC150-03-09.400A0-	9,4		35	89	47	40	10	☹
DC150-03-09.500A0-	9,5		35	89	47	40	10	☹
DC150-03-09.525A0-	9,525	3/8"	35	89	47	40	10	☹
DC150-03-09.600A0-	9,6		35	89	47	40	10	☹
DC150-03-09.700A0-	9,7		35	89	47	40	10	☹
DC150-03-09.800A0-	9,8		35	89	47	40	10	☹
DC150-03-09.900A0-	9,9		35	89	47	40	10	☹
DC150-03-09.922A0-	9,922	25/64"	35	89	47	40	10	☹
DC150-03-10.000A0-	10		35	89	47	40	10	☹
DC150-03-10.100A0-	10,1		40	102	55	45	12	☹
DC150-03-10.200A0-	10,2		40	102	55	45	12	☹
DC150-03-10.300A0-	10,3		40	102	55	45	12	☹
DC150-03-10.319A0-	10,319	13/32"	40	102	55	45	12	☹
DC150-03-10.400A0-	10,4		40	102	55	45	12	☹
DC150-03-10.500A0-	10,5		40	102	55	45	12	☹
DC150-03-10.600A0-	10,6		40	102	55	45	12	☹
DC150-03-10.716A0-	10,716	27/64"	40	102	55	45	12	☹
DC150-03-10.800A0-	10,8		40	102	55	45	12	☹
DC150-03-11.000A0-	11		40	102	55	45	12	☹
DC150-03-11.100A0-	11,1		40	102	55	45	12	☹
DC150-03-11.113A0-	11,113	7/16"	40	102	55	45	12	☹
DC150-03-11.200A0-	11,2		40	102	55	45	12	☹
DC150-03-11.300A0-	11,3		40	102	55	45	12	☹
DC150-03-11.400A0-	11,4		40	102	55	45	12	☹
DC150-03-11.500A0-	11,5		40	102	55	45	12	☹
DC150-03-11.509A0-	11,509	29/64"	40	102	55	45	12	☹
DC150-03-11.700A0-	11,7		40	102	55	45	12	☹
DC150-03-11.800A0-	11,8		40	102	55	45	12	☹
DC150-03-11.900A0-	11,9		40	102	55	45	12	☹
DC150-03-12.000A0-	12		40	102	55	45	12	☹
DC150-03-12.100A0-	12,1		43	107	60	45	14	☹
DC150-03-12.200A0-	12,2		43	107	60	45	14	☹
DC150-03-12.250A0-	12,25		43	107	60	45	14	☹
DC150-03-12.300A0-	12,3		43	107	60	45	14	☹
DC150-03-12.303A0-	12,303	31/64"	43	107	60	45	14	☹
DC150-03-12.500A0-	12,5		43	107	60	45	14	☹
DC150-03-12.700A0-	12,700	1/2"	43	107	60	45	14	☹
DC150-03-12.800A0-	12,8		43	107	60	45	14	☹
DC150-03-13.000A0-	13		43	107	60	45	14	☹
DC150-03-13.100A0-	13,1		43	107	60	45	14	☹
DC150-03-13.300A0-	13,3		43	107	60	45	14	☹
DC150-03-13.494A0-	13,494	17/32"	43	107	60	45	14	☹
DC150-03-13.500A0-	13,5		43	107	60	45	14	☹
DC150-03-14.000A0-	14		43	107	60	45	14	☹
DC150-03-14.200A0-	14,2		45	115	65	48	16	☹
DC150-03-14.288A0-	14,288	9/16"	45	115	65	48	16	☹

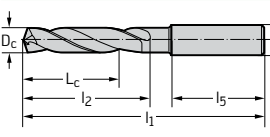
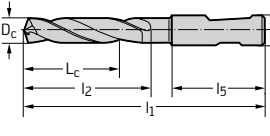
Exemplo de pedido para a classe WJ30RE: DC150-03-03.000A0-WJ30RE

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

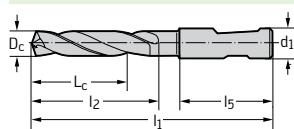
Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
 DIN 6535 HA	DC150-03-14.500A0-	14,5		45	115	65	48	16	☺
	DC150-03-14.700A0-	14,7		45	115	65	48	16	☺
	DC150-03-14.800A0-	14,8		45	115	65	48	16	☺
	DC150-03-15.000A0-	15		45	115	65	48	16	☺
	DC150-03-15.100A0-	15,1		45	115	65	48	16	☺
	DC150-03-15.500A0-	15,5		45	115	65	48	16	☺
	DC150-03-15.800A0-	15,8		45	115	65	48	16	☺
	DC150-03-15.875A0-	15,875	5/8"	45	115	65	48	16	☺
	DC150-03-16.000A0-	16		45	115	65	48	16	☺
	DC150-03-16.500A0-	16,5		51	123	73	48	18	☺
	DC150-03-16.750A0-	16,75		51	123	73	48	18	☺
	DC150-03-17.000A0-	17		51	123	73	48	18	☺
	DC150-03-17.500A0-	17,5		51	123	73	48	18	☺
	DC150-03-17.800A0-	17,8		51	123	73	48	18	☺
	DC150-03-18.000A0-	18		51	123	73	48	18	☺
	DC150-03-19.000A0-	19		55	131	79	50	20	☺
	DC150-03-20.000A0-	20		55	131	79	50	20	☺
 DIN 6535 HE, turned 180° DIN 6535 HB	DC150-03-03.000D0-	3		14	62	20	36	6	☺
	DC150-03-03.100D0-	3,1		14	62	20	36	6	☺
	DC150-03-03.200D0-	3,2		14	62	20	36	6	☺
	DC150-03-03.300D0-	3,3		14	62	20	36	6	☺
	DC150-03-03.400D0-	3,4		14	62	20	36	6	☺
	DC150-03-03.500D0-	3,5		14	62	20	36	6	☺
	DC150-03-03.600D0-	3,6		14	62	20	36	6	☺
	DC150-03-03.700D0-	3,7		14	62	20	36	6	☺
	DC150-03-03.800D0-	3,8		17	66	24	36	6	☺
	DC150-03-03.900D0-	3,9		17	66	24	36	6	☺
	DC150-03-04.000D0-	4		17	66	24	36	6	☺
	DC150-03-04.200D0-	4,2		17	66	24	36	6	☺
	DC150-03-04.300D0-	4,3		17	66	24	36	6	☺
	DC150-03-04.500D0-	4,5		17	66	24	36	6	☺
	DC150-03-04.650D0-	4,65		17	66	24	36	6	☺
	DC150-03-04.700D0-	4,7		17	66	24	36	6	☺
	DC150-03-04.800D0-	4,8		20	66	28	36	6	☺
	DC150-03-05.000D0-	5		20	66	28	36	6	☺
	DC150-03-05.100D0-	5,1		20	66	28	36	6	☺
	DC150-03-05.300D0-	5,3		20	66	28	36	6	☺
	DC150-03-05.500D0-	5,5		20	66	28	36	6	☺
	DC150-03-05.550D0-	5,55		20	66	28	36	6	☺
	DC150-03-05.600D0-	5,6		20	66	28	36	6	☺
	DC150-03-05.800D0-	5,8		20	66	28	36	6	☺
	DC150-03-06.000D0-	6		20	66	28	36	6	☺
	DC150-03-06.100D0-	6,1		24	79	34	36	8	☺
	DC150-03-06.200D0-	6,2		24	79	34	36	8	☺
	DC150-03-06.300D0-	6,3		24	79	34	36	8	☺
	DC150-03-06.500D0-	6,5		24	79	34	36	8	☺

Exemplo de pedido para a classe WJ30RE: DC150-03-03.000A0-WJ30RE

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HE, turned 180° DIN 6535 HB

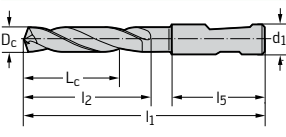
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
DC150-03-06.600D0-	6,6		24	79	34	36	8	☺
DC150-03-06.700D0-	6,7		24	79	34	36	8	☺
DC150-03-06.800D0-	6,8		24	79	34	36	8	☺
DC150-03-07.000D0-	7		24	79	34	36	8	☺
DC150-03-07.100D0-	7,1		29	79	41	36	8	☺
DC150-03-07.400D0-	7,4		29	79	41	36	8	☺
DC150-03-07.500D0-	7,5		29	79	41	36	8	☺
DC150-03-07.600D0-	7,6		29	79	41	36	8	☺
DC150-03-07.800D0-	7,8		29	79	41	36	8	☺
DC150-03-08.000D0-	8		29	79	41	36	8	☺
DC150-03-08.200D0-	8,2		35	89	47	40	10	☺
DC150-03-08.300D0-	8,3		35	89	47	40	10	☺
DC150-03-08.500D0-	8,5		35	89	47	40	10	☺
DC150-03-08.600D0-	8,6		35	89	47	40	10	☺
DC150-03-08.700D0-	8,7		35	89	47	40	10	☺
DC150-03-08.800D0-	8,8		35	89	47	40	10	☺
DC150-03-09.000D0-	9		35	89	47	40	10	☺
DC150-03-09.100D0-	9,1		35	89	47	40	10	☺
DC150-03-09.500D0-	9,5		35	89	47	40	10	☺
DC150-03-09.700D0-	9,5		35	89	47	40	10	☺
DC150-03-09.800D0-	9,8		35	89	47	40	10	☺
DC150-03-10.000D0-	10		35	89	47	40	10	☺
DC150-03-10.100D0-	10,1		40	102	55	45	12	☺
DC150-03-10.200D0-	10,2		40	102	55	45	12	☺
DC150-03-10.300D0-	10,3		40	102	55	45	12	☺
DC150-03-10.400D0-	10,4		40	102	55	45	12	☺
DC150-03-10.500D0-	10,5		40	102	55	45	12	☺
DC150-03-10.800D0-	10,8		40	102	55	45	12	☺
DC150-03-10.900D0-	10,9		40	102	55	45	12	☺
DC150-03-11.000D0-	11		40	102	55	45	12	☺
DC150-03-11.100D0-	11,1		40	102	55	45	12	☺
DC150-03-11.200D0-	11,2		40	102	55	45	12	☺
DC150-03-11.300D0-	11,3		40	102	55	45	12	☺
DC150-03-11.500D0-	11,5		40	102	55	45	12	☺
DC150-03-11.600D0-	11,6		40	102	55	45	12	☺
DC150-03-11.800D0-	11,8		40	102	55	45	12	☺
DC150-03-12.000D0-	12		40	102	55	45	12	☺
DC150-03-12.200D0-	12,2		43	107	60	45	14	☺
DC150-03-12.500D0-	12,5		43	107	60	45	14	☺
DC150-03-13.000D0-	13		43	107	60	45	14	☺
DC150-03-13.200D0-	13,2		43	107	60	45	14	☺
DC150-03-13.300D0-	13,3		43	107	60	45	14	☺
DC150-03-13.400D0-	13,4		43	107	60	45	14	☺
DC150-03-13.500D0-	13,5		43	107	60	45	14	☺
DC150-03-13.600D0-	13,6		43	107	60	45	14	☺
DC150-03-13.800D0-	13,8		43	107	60	45	14	☺

Exemplo de pedido para a classe WJ30RE: DC150-03-03.000A0-WJ30RE

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30RE
	DC150-03-14.000D0-	14		43	107	60	45	14	☺
	DC150-03-15.000D0-	15		45	115	65	48	16	☺
	DC150-03-15.100D0-	15,1		45	115	65	48	16	☺
	DC150-03-16.000D0-	16		45	115	65	48	16	☺
	DC150-03-16.500D0-	16,5		51	123	73	48	18	☺
	DC150-03-17.000D0-	17		51	123	73	48	18	☺
	DC150-03-17.500D0-	17,5		51	123	73	48	18	☺
	DC150-03-18.000D0-	18		51	123	73	48	18	☺
	DC150-03-18.500D0-	18,5		55	131	79	50	20	☺
	DC150-03-19.000D0-	19		55	131	79	50	20	☺
	DC150-03-20.000D0-	20		55	131	79	50	20	☺

DIN 6535 HE, turned 180° DIN 6535 HB

Exemplo de pedido para a classe WJ30RE: DC150-03-03.000A0-WJ30RE

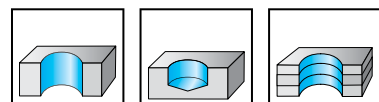
B1

Brocas helicoidais de metal duro

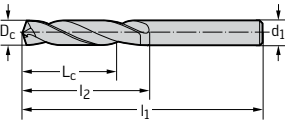
A1163



– Tipo N



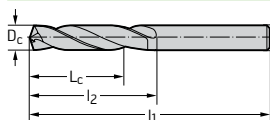
	P	M	K	N	S	H	O
não revestido			●	●●	●		●●

Ferramenta		D _c h7 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ h6 mm
 Cylindrical shank	Denominação					
	A1163-1	1	4	26	6	1
	A1163-1.1	1,1	5	28	7	1,1
	A1163-1.2	1,2	6	30	8	1,2
	A1163-1.3	1,3	6	30	8	1,3
	A1163-1.4	1,4	6	32	9	1,4
	A1163-1.5	1,5	6	32	9	1,5
	A1163-1.6	1,6	7	34	10	1,6
	A1163-1.7	1,7	7	34	10	1,7
	A1163-1.8	1,8	8	36	11	1,8
	A1163-1.9	1,9	8	36	11	1,9
	A1163-2	2	8	38	12	2
	A1163-2.1	2,1	8	38	12	2,1
	A1163-2.2	2,2	9	40	13	2,2
	A1163-2.3	2,3	9	40	13	2,3
	A1163-2.4	2,4	10	43	14	2,4
	A1163-2.5	2,5	10	43	14	2,5
	A1163-2.6	2,6	10	43	14	2,6
	A1163-2.7	2,7	11	46	16	2,7
	A1163-2.8	2,8	11	46	16	2,8
	A1163-2.9	2,9	11	46	16	2,9
	A1163-3	3	11	46	16	3
	A1163-3.1	3,1	12	49	18	3,1
	A1163-3.2	3,2	12	49	18	3,2
	A1163-3.3	3,3	12	49	18	3,3
	A1163-3.4	3,4	14	52	20	3,4
	A1163-3.5	3,5	14	52	20	3,5
	A1163-3.6	3,6	14	52	20	3,6
	A1163-3.7	3,7	14	52	20	3,7
	A1163-3.8	3,8	15	55	22	3,8
	A1163-3.9	3,9	15	55	22	3,9
	A1163-4	4	15	55	22	4
	A1163-4.1	4,1	15	55	22	4,1
	A1163-4.2	4,2	15	55	22	4,2
	A1163-4.3	4,3	16	58	24	4,3
	A1163-4.4	4,4	16	58	24	4,4
	A1163-4.5	4,5	16	58	24	4,5

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

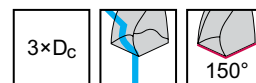
Ferramenta		D _c h7 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ h6 mm
	Denominação					
	A1163-4.6	4,6	16	58	24	4,6
	A1163-4.7	4,7	16	58	24	4,7
	A1163-4.8	4,8	18	62	26	4,8
Cylindrical shank	A1163-4.9	4,9	18	62	26	4,9
	A1163-5	5	18	62	26	5
	A1163-5.1	5,1	18	62	26	5,1
	A1163-5.2	5,2	18	62	26	5,2
	A1163-5.3	5,3	18	62	26	5,3
	A1163-5.4	5,4	19	66	28	5,4
	A1163-5.5	5,5	19	66	28	5,5
	A1163-5.6	5,6	19	66	28	5,6
	A1163-5.7	5,7	19	66	28	5,7
	A1163-5.8	5,8	19	66	28	5,8
	A1163-5.9	5,9	19	66	28	5,9
	A1163-6	6	19	66	28	6
	A1163-6.1	6,1	20	70	31	6,1
	A1163-6.2	6,2	20	70	31	6,2
	A1163-6.3	6,3	20	70	31	6,3
	A1163-6.4	6,4	20	70	31	6,4
	A1163-6.5	6,5	20	70	31	6,5
	A1163-6.6	6,6	20	70	31	6,6
	A1163-6.7	6,7	20	70	31	6,7
	A1163-6.8	6,8	22	74	34	6,8
	A1163-6.9	6,9	22	74	34	6,9
	A1163-7	7	22	74	34	7
	A1163-7.1	7,1	22	74	34	7,1
	A1163-7.2	7,2	22	74	34	7,2
	A1163-7.3	7,3	22	74	34	7,3
	A1163-7.4	7,4	22	74	34	7,4
	A1163-7.5	7,5	22	74	34	7,5
	A1163-7.6	7,6	25	79	37	7,6
	A1163-7.7	7,7	25	79	37	7,7
	A1163-7.8	7,8	25	79	37	7,8
	A1163-7.9	7,9	25	79	37	7,9
	A1163-8	8	25	79	37	8
	A1163-8.1	8,1	24	79	37	8,1
	A1163-8.2	8,2	24	79	37	8,2
	A1163-8.3	8,3	24	79	37	8,3
	A1163-8.4	8,4	24	79	37	8,4
	A1163-8.5	8,5	24	79	37	8,5
	A1163-8.6	8,6	25	84	40	8,6
	A1163-8.7	8,7	25	84	40	8,7
	A1163-8.8	8,8	25	84	40	8,8
	A1163-9	9	25	84	40	9
	A1163-9.3	9,3	25	84	40	9,3
	A1163-9.5	9,5	25	84	40	9,5
	A1163-9.7	9,7	28	89	43	9,7
	A1163-9.8	9,8	28	89	43	9,8
	A1163-10	10	28	89	43	10
	A1163-10.2	10,2	27	89	43	10,2
	A1163-10.5	10,5	27	89	43	10,5
	A1163-11	11	29	95	47	11
	A1163-11.5	11,5	29	95	47	11,5
	A1163-12	12	33	102	51	12

**WALTER
SELECT**

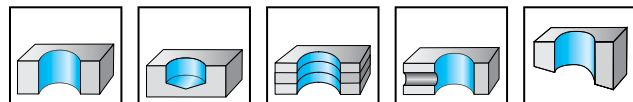
●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = 😊 → medianas = 😐 → ruins = ☹

Broca helicoidal de metal duro 3 canais

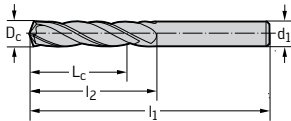
A1166TIN / A1166

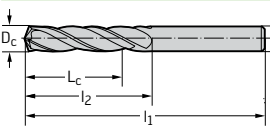


– Comprimento total conforme a DIN 6539, canais prolongados em relação à DIN 6539



	P	M	K	N	S	H	O
TIN	●					●	
não revestido	●			●	●	●	

Ferramenta		D _c h7 mm		L _c mm	l ₁ mm	l ₂ mm	d ₁ h6 mm
	Denominação		D _c Inch/Nr				
 Cylindrical shank	A1166TIN-3	3		17	46	22	3
	A1166TIN-3.3	3,3		18	49	24	3,3
	A1166TIN-4	4		23	55	30	4
	A1166TIN-4.2	4,2		23	55	30	4,2
	A1166TIN-4.5	4,5		24	58	32	4,5
	A1166TIN-5	5		27	62	35	5
	A1166TIN-5.5	5,5		30	66	39	5,5
	A1166TIN-6	6		30	66	39	6
	A1166TIN-6.8	6,8		33	74	45	6,8
	A1166TIN-7	7		33	74	45	7
	A1166TIN-7.8	7,8		35	79	48	7,8
	A1166TIN-8	8		35	79	48	8
	A1166TIN-10	10		39	89	55	10
	A1166TIN-10.5	10,5		39	89	55	10,5
	A1166TIN-14	14		52	107	66	14
	A1166-3	3		17	46	22	3
	A1166-3.1	3,1		18	49	24	3,1
	A1166-1/8IN	3,175	1/8"	18	49	24	3,175
	A1166-3.2	3,2		18	49	24	3,2
	A1166-3.3	3,3		18	49	24	3,3
	A1166-3.4	3,4		21	52	27	3,4
	A1166-3.5	3,5		21	52	27	3,5
	A1166-9/64IN	3,572	9/64"	21	52	27	3,572
	A1166-3.6	3,6		21	52	27	3,6
	A1166-3.7	3,7		21	52	27	3,7
	A1166-3.8	3,8		23	55	30	3,8
	A1166-3.9	3,9		23	55	30	3,9
	A1166-4	4		23	55	30	4
	A1166-4.1	4,1		23	55	30	4,1
	A1166-4.2	4,2		23	55	30	4,2
	A1166-4.3	4,3		24	58	32	4,3
	A1166-4.4	4,4		24	58	32	4,4
	A1166-4.5	4,5		24	58	32	4,5
	A1166-4.6	4,6		24	58	32	4,6
	A1166-4.7	4,7		24	58	32	4,7
	A1166-3/16IN	4,763	3/16"	27	62	35	4,763

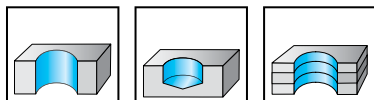
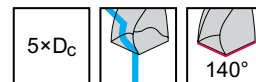
Ferramenta		D _c h7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ h6 mm
	Denominação						
	A1166-4.8	4,8		27	62	35	4,8
	A1166-4.9	4,9		27	62	35	4,9
	A1166-5	5		27	62	35	5
Cylindrical shank	A1166-5.1	5,1		27	62	35	5,1
	A1166-13/64IN	5,159	13/64"	27	62	35	5,159
	A1166-5.2	5,2		27	62	35	5,2
	A1166-5.3	5,3		27	62	35	5,3
	A1166-5.4	5,4		30	66	39	5,4
	A1166-5.5	5,5		30	66	39	5,5
	A1166-5.6	5,6		30	66	39	5,6
	A1166-5.7	5,7		30	66	39	5,7
	A1166-5.8	5,8		30	66	39	5,8
	A1166-6	6		30	66	39	6
	A1166-6.1	6,1		31	70	42	6,1
	A1166-6.2	6,2		31	70	42	6,2
	A1166-6.3	6,3		31	70	42	6,3
	A1166-1/4IN	6,350	1/4"	31	70	42	6,35
	A1166-6.4	6,4		31	70	42	6,4
	A1166-6.5	6,5		31	70	42	6,5
	A1166-6.6	6,6		31	70	42	6,6
	A1166-6.7	6,7		31	70	42	6,7
	A1166-6.8	6,8		33	74	45	6,8
	A1166-6.9	6,9		33	74	45	6,9
	A1166-7	7		33	74	45	7
	A1166-7.1	7,1		33	74	45	7,1
	A1166-7.2	7,2		33	74	45	7,2
	A1166-7.3	7,3		33	74	45	7,3
	A1166-7.4	7,4		33	74	45	7,4
	A1166-7.5	7,5		33	74	45	7,5
	A1166-7.8	7,8		35	79	48	7,8
	A1166-8	8		35	79	48	8
	A1166-8.1	8,1		35	79	48	8,1
	A1166-8.2	8,2		35	79	48	8,2
	A1166-8.3	8,3		35	79	48	8,3
	A1166-8.5	8,5		35	79	48	8,5
	A1166-8.6	8,6		37	84	52	8,6
	A1166-8.8	8,8		37	84	52	8,8
	A1166-9	9		37	84	52	9
	A1166-9.5	9,5		37	84	52	9,5
	A1166-9.6	9,6		39	89	55	9,6
	A1166-9.8	9,8		39	89	55	9,8
	A1166-10	10		39	89	55	10
	A1166-10.2	10,2		39	89	55	10,2
	A1166-10.3	10,3		39	89	55	10,3
	A1166-11	11		42	95	60	11
	A1166-11.8	11,8		42	95	60	11,8
	A1166-12	12		51	102	65	12
	A1166-12.5	12,5		51	102	65	12,5
	A1166-12.9	12,9		51	102	65	12,9
	A1166-13	13		51	102	65	13
	A1166-14	14		52	107	66	14
	A1166-15	15		55	111	70	15
	A1166-18	18		58	123	76	18

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = 😊 → medianas = 😐 → ruins = 😞

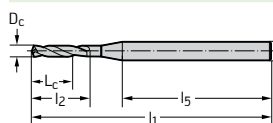
Microbrocas helicoidais de metal duro

DB133 Supreme



	P	M	K	N	S	H	O
WJ30EL	●	●	●	●	●	●	●

Ferramenta



DIN 6535 HA

Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EL
DB133-05-00.500A0-	0,5		3,2	47	4	36	3	☹
DB133-05-00.550A0-	0,55		4,1	47	5	35	3	☹
DB133-05-00.600A0-	0,6		4,1	47	5	35	3	☹
DB133-05-00.650A0-	0,65		5	47	6	34	3	☹
DB133-05-00.700A0-	0,7		4,9	48	6	35	3	☹
DB133-05-00.750A0-	0,75		5,8	48	7	34	3	☹
DB133-05-00.794A0-	0,794	1/32"	5,8	48	7	34	3	☹
DB133-05-00.800A0-	0,8		5,8	48	7	34	3	☹
DB133-05-00.850A0-	0,85		6,6	50	8	35	3	☹
DB133-05-00.880A0-	0,88		6,6	50	8	35	3	☹
DB133-05-00.900A0-	0,9		6,6	50	8	35	3	☹
DB133-05-00.950A0-	0,95		7,5	50	9	34	3	☹
DB133-05-01.000A0-	1		7,5	50	9	34	3	☹
DB133-05-01.050A0-	1,05		7	51	9	36	3	☹
DB133-05-01.080A0-	1,08		7	51	9	36	3	☹
DB133-05-01.100A0-	1,1		7	51	9	36	3	☹
DB133-05-01.150A0-	1,15		8	51	10	35	3	☹
DB133-05-01.191A0-	1,191	3/64"	8	51	10	35	3	☹
DB133-05-01.200A0-	1,2		8	51	10	35	3	☹
DB133-05-01.250A0-	1,25		9	51	11	34	3	☹
DB133-05-01.300A0-	1,3		9	53	11	36	3	☹
DB133-05-01.350A0-	1,35		9	53	12	35	3	☹
DB133-05-01.400A0-	1,4		9	53	12	35	3	☹
DB133-05-01.450A0-	1,45		10	53	13	34	3	☹
DB133-05-01.500A0-	1,5		10	53	13	34	3	☹
DB133-05-01.550A0-	1,55		11	54	14	35	3	☹
DB133-05-01.588A0-	1,588	1/16"	11	54	14	35	3	☹
DB133-05-01.600A0-	1,6		11	54	14	35	3	☹
DB133-05-01.650A0-	1,65		11	54	14	35	3	☹
DB133-05-01.700A0-	1,7		11	54	14	35	3	☹
DB133-05-01.750A0-	1,75		12	54	15	34	3	☹
DB133-05-01.800A0-	1,8		12	54	15	34	3	☹
DB133-05-01.820A0-	1,82		13	57	16	36	3	☹
DB133-05-01.850A0-	1,85		13	57	16	36	3	☹
DB133-05-01.900A0-	1,9		13	57	16	36	3	☹
DB133-05-01.950A0-	1,95		14	57	17	35	3	☹

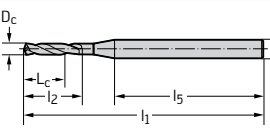
Exemplo de pedido para a classe WJ30EL: DB133-05-00.500A0-WJ30EL

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EL
 DIN 6535 HA	DB133-05-01.984A0-	1,984	5/64"	14	57	17	35	3	☺
	DB133-05-02.000A0-	2		14	57	17	35	3	☺
	DB133-05-02.050A0-	2,05		14	57	18	35	3	☺
	DB133-05-02.100A0-	2,1		14	57	18	35	3	☺
	DB133-05-02.150A0-	2,15		15	57	19	34	3	☺
	DB133-05-02.200A0-	2,2		15	57	19	34	3	☺
	DB133-05-02.250A0-	2,25		16	59	20	35	3	☺
	DB133-05-02.300A0-	2,3		16	59	20	35	3	☺
	DB133-05-02.350A0-	2,35		16	59	20	35	3	☺
	DB133-05-02.381A0-	2,381	3/32"	16	59	20	35	3	☺
	DB133-05-02.400A0-	2,4		16	59	20	35	3	☺
	DB133-05-02.450A0-	2,45		17	59	21	34	3	☺
	DB133-05-02.500A0-	2,5		17	59	21	34	3	☺
	DB133-05-02.550A0-	2,55		18	62	22	36	3	☺
	DB133-05-02.600A0-	2,6		18	62	22	36	3	☺
	DB133-05-02.650A0-	2,65		18	62	23	36	3	☺
	DB133-05-02.700A0-	2,7		18	62	23	36	3	☺
	DB133-05-02.750A0-	2,75		19	62	24	35	3	☺
	DB133-05-02.778A0-	2,778	7/64"	19	62	24	35	3	☺
	DB133-05-02.800A0-	2,8		19	62	24	35	3	☺
	DB133-05-02.850A0-	2,85		20	62	25	34	3	☺
	DB133-05-02.900A0-	2,9		20	62	25	34	3	☺
	DB133-05-02.950A0-	2,95		20	62	25	34	3	☺

Exemplo de pedido para a classe WJ30EL: DB133-05-00.500A0-WJ30EL

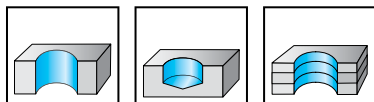
B1

Microbrocas helicoidais de metal duro

DB130 Advance

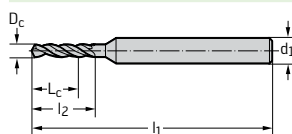


B1



	P	M	K	N	S	H	O
WJ30UU	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank

Denominação	D _c 0-0,004 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ h8 mm	WJ30UU
DB130-05-00.100U0-	0,1	0,3	25	0,5	1	☹
DB130-05-00.110U0-	0,11	0,3	25	0,5	1	☹
DB130-05-00.120U0-	0,12	0,3	25	0,5	1	☹
DB130-05-00.130U0-	0,13	0,5	25	0,8	1	☹
DB130-05-00.140U0-	0,14	0,5	25	0,8	1	☹
DB130-05-00.150U0-	0,15	0,5	25	0,8	1	☹
DB130-05-00.160U0-	0,16	0,8	25	1,1	1	☹
DB130-05-00.170U0-	0,17	0,8	25	1,1	1	☹
DB130-05-00.180U0-	0,18	0,8	25	1,1	1	☹
DB130-05-00.190U0-	0,19	0,8	25	1,1	1	☹
DB130-05-00.200U0-	0,2	1,1	25	1,5	1	☹
DB130-05-00.210U0-	0,21	1,1	25	1,5	1	☹
DB130-05-00.220U0-	0,22	1,1	25	1,5	1	☹
DB130-05-00.230U0-	0,23	1,1	25	1,5	1	☹
DB130-05-00.240U0-	0,24	1,1	25	1,5	1	☹
DB130-05-00.250U0-	0,25	1,4	25	1,9	1	☹
DB130-05-00.260U0-	0,26	1,4	25	1,9	1	☹
DB130-05-00.270U0-	0,27	1,4	25	1,9	1	☹
DB130-05-00.280U0-	0,28	1,4	25	1,9	1	☹
DB130-05-00.290U0-	0,29	1,4	25	1,9	1	☹
DB130-05-00.300U0-	0,3	1,4	25	1,9	1	☹
DB130-05-00.310U0-	0,31	1,8	25	2,4	1	☹
DB130-05-00.320U0-	0,32	1,8	25	2,4	1	☹
DB130-05-00.330U0-	0,33	1,8	25	2,4	1	☹
DB130-05-00.340U0-	0,34	1,8	25	2,4	1	☹
DB130-05-00.350U0-	0,35	1,8	25	2,4	1	☹
DB130-05-00.360U0-	0,36	1,8	25	2,4	1	☹
DB130-05-00.370U0-	0,37	1,8	25	2,4	1	☹
DB130-05-00.380U0-	0,38	1,8	25	2,4	1	☹
DB130-05-00.390U0-	0,39	2,2	25	3	1	☹
DB130-05-00.400U0-	0,4	2,2	25	3	1	☹
DB130-05-00.410U0-	0,41	2,2	25	3	1	☹
DB130-05-00.420U0-	0,42	2,2	25	3	1	☹
DB130-05-00.430U0-	0,43	2,2	25	3	1	☹
DB130-05-00.440U0-	0,44	2,2	25	3	1	☹
DB130-05-00.450U0-	0,45	2,2	25	3	1	☹

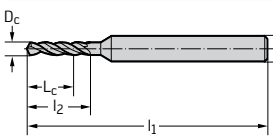
Exemplo de pedido para a classe WJ30UU: DB130-05-00.100U0-WJ30UU

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária

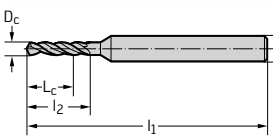
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D_c 0-0,004 mm	L_c mm	l_1 mm	l_2 mm	d_1 h8 mm	WJ30UU
 Cylindrical shank	Denominação						
	DB130-05-00.460U0-	0,46	2,2	25	3	1	☺
	DB130-05-00.470U0-	0,47	2,2	25	3	1	☺
	DB130-05-00.480U0-	0,48	2,2	25	3	1	☺
	DB130-05-00.490U0-	0,49	2,6	25	3,4	1	☺
	DB130-05-00.500U0-	0,5	2,6	25	3,4	1	☺
	DB130-05-00.510U0-	0,51	2,6	25	3,4	1	☺
	DB130-05-00.520U0-	0,52	2,6	25	3,4	1	☺
	DB130-05-00.530U0-	0,53	2,6	25	3,4	1	☺
	DB130-05-00.540U0-	0,54	3	25	3,9	1	☺
	DB130-05-00.550U0-	0,55	3	25	3,9	1	☺
	DB130-05-00.560U0-	0,56	3	25	3,9	1	☺
	DB130-05-00.570U0-	0,57	3	25	3,9	1	☺
	DB130-05-00.580U0-	0,58	3	25	3,9	1	☺
	DB130-05-00.590U0-	0,59	3	25	3,9	1	☺
	DB130-05-00.600U0-	0,6	3	25	3,9	1	☺
	DB130-05-00.610U0-	0,61	3,1	25	4,2	1	☺
	DB130-05-00.620U0-	0,62	3,1	25	4,2	1	☺
	DB130-05-00.630U0-	0,63	3,1	25	4,2	1	☺
	DB130-05-00.640U0-	0,64	3,1	25	4,2	1	☺
	DB130-05-00.650U0-	0,65	3,1	25	4,2	1	☺
	DB130-05-00.660U0-	0,66	3,1	25	4,2	1	☺
	DB130-05-00.670U0-	0,67	3,1	25	4,2	1	☺
	DB130-05-00.680U0-	0,68	3,6	25	4,8	1	☺
	DB130-05-00.690U0-	0,69	3,6	25	4,8	1	☺
	DB130-05-00.700U0-	0,7	3,6	25	4,8	1	☺
	DB130-05-00.710U0-	0,71	3,6	25	4,8	1	☺
	DB130-05-00.720U0-	0,72	3,6	25	4,8	1	☺
	DB130-05-00.730U0-	0,73	3,6	25	4,8	1	☺
	DB130-05-00.740U0-	0,74	3,6	25	4,8	1	☺
	DB130-05-00.750U0-	0,75	3,6	25	4,8	1	☺
	DB130-05-00.760U0-	0,76	4,1	25	5,3	1	☺
	DB130-05-00.770U0-	0,77	4,1	25	5,3	1	☺
	DB130-05-00.780U0-	0,78	4,1	25	5,3	1	☺
	DB130-05-00.790U0-	0,79	4,1	25	5,3	1	☺
	DB130-05-00.800U0-	0,8	4	25	5,3	1,5	☺
	DB130-05-00.810U0-	0,81	4	25	5,3	1,5	☺
	DB130-05-00.820U0-	0,82	4	25	5,3	1,5	☺
	DB130-05-00.830U0-	0,83	4	25	5,3	1,5	☺
	DB130-05-00.840U0-	0,84	4	25	5,3	1,5	☺
	DB130-05-00.850U0-	0,85	4	25	5,3	1,5	☺
	DB130-05-00.860U0-	0,86	4,5	25	6	1,5	☺
	DB130-05-00.870U0-	0,87	4,5	25	6	1,5	☺
	DB130-05-00.880U0-	0,88	4,5	25	6	1,5	☺
	DB130-05-00.890U0-	0,89	4,5	25	6	1,5	☺
	DB130-05-00.900U0-	0,9	4,5	25	6	1,5	☺
	DB130-05-00.910U0-	0,91	4,5	25	6	1,5	☺

Exemplo de pedido para a classe WJ30UU: DB130-05-00.100U0-WJ30UU

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

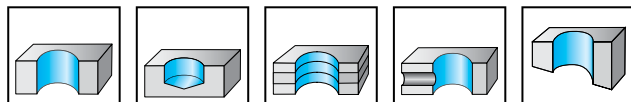
Ferramenta		D_c 0-0,004 mm	L_c mm	l_1 mm	l_2 mm	d_1 h8 mm	WJ30UU
 Cylindrical shank	Denominação						
	DB130-05-00.920U0-	0,92	4,5	25	6	1,5	☹
	DB130-05-00.930U0-	0,93	4,5	25	6	1,5	☹
	DB130-05-00.940U0-	0,94	4,5	25	6	1,5	☹
	DB130-05-00.950U0-	0,95	4,5	25	6	1,5	☹
	DB130-05-00.960U0-	0,96	5	25	6,8	1,5	☹
	DB130-05-00.970U0-	0,97	5	25	6,8	1,5	☹
	DB130-05-00.980U0-	0,98	5	25	6,8	1,5	☹
	DB130-05-00.990U0-	0,99	5	25	6,8	1,5	☹
	DB130-05-01.000U0-	1	5	25	6,8	1,5	☹
	DB130-05-01.050U0-	1,05	5	25	6,8	1,5	☹
	DB130-05-01.100U0-	1,1	5	25	7,6	1,5	☹
	DB130-05-01.150U0-	1,15	5	25	7,6	1,5	☹
	DB130-05-01.200U0-	1,2	6	25	8,5	1,5	☹
	DB130-05-01.250U0-	1,25	6	25	8,5	1,5	☹
	DB130-05-01.300U0-	1,3	6	25	8,5	1,5	☹
	DB130-05-01.350U0-	1,35	7	25	9,5	1,5	☹
	DB130-05-01.400U0-	1,4	7	25	9,5	1,5	☹
	DB130-05-01.450U0-	1,45	7	25	9,5	1,5	☹

Exemplo de pedido para a classe WJ30UU: DB130-05-00.100U0-WJ30UU

Broca helicoidal VHM

DC160 Advance

X-treme Evo



	P	M	K	N	S	H	O
WJ30ET	●●	●	●●	●	●	●	●

B1

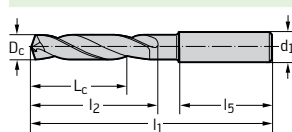
Ferramenta	Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
 DIN 6535 HA	DC160-05-03.000A0-	3		23	66	28	36	6	☺
	DC160-05-03.100A0-	3,1		23	66	28	36	6	☺
	DC160-05-03.175A0-	3,175	1/8"	23	66	28	36	6	☺
	DC160-05-03.200A0-	3,2		23	66	28	36	6	☺
	DC160-05-03.250A0-	3,25		23	66	28	36	6	☺
	DC160-05-03.300A0-	3,3		23	66	28	36	6	☺
	DC160-05-03.400A0-	3,4		23	66	28	36	6	☺
	DC160-05-03.500A0-	3,5		23	66	28	36	6	☺
	DC160-05-03.572A0-	3,572	9/64"	23	66	28	36	6	☺
	DC160-05-03.600A0-	3,6		23	66	28	36	6	☺
	DC160-05-03.650A0-	3,65		23	66	28	36	6	☺
	DC160-05-03.700A0-	3,7		23	66	28	36	6	☺
	DC160-05-03.800A0-	3,8		29	74	36	36	6	☺
	DC160-05-03.900A0-	3,9		29	74	36	36	6	☺
	DC160-05-03.969A0-	3,969	5/32"	29	74	36	36	6	☺
	DC160-05-04.000A0-	4		29	74	36	36	6	☺
	DC160-05-04.100A0-	4,1		29	74	36	36	6	☺
	DC160-05-04.200A0-	4,2		29	74	36	36	6	☺
	DC160-05-04.300A0-	4,3		29	74	36	36	6	☺
	DC160-05-04.366A0-	4,366	11/64"	29	74	36	36	6	☺
	DC160-05-04.400A0-	4,4		29	74	36	36	6	☺
	DC160-05-04.500A0-	4,5		29	74	36	36	6	☺
	DC160-05-04.600A0-	4,6		29	74	36	36	6	☺
	DC160-05-04.650A0-	4,65		29	74	36	36	6	☺
	DC160-05-04.700A0-	4,7		29	74	36	36	6	☺
	DC160-05-04.763A0-	4,763	3/16"	35	82	44	36	6	☺
	DC160-05-04.800A0-	4,8		35	82	44	36	6	☺
	DC160-05-04.900A0-	4,9		35	82	44	36	6	☺
	DC160-05-05.000A0-	5		35	82	44	36	6	☺
	DC160-05-05.100A0-	5,1		35	82	44	36	6	☺
	DC160-05-05.159A0-	5,159	13/64"	35	82	44	36	6	☺
	DC160-05-05.200A0-	5,2		35	82	44	36	6	☺
	DC160-05-05.300A0-	5,3		35	82	44	36	6	☺
	DC160-05-05.400A0-	5,4		35	82	44	36	6	☺
	DC160-05-05.500A0-	5,5		35	82	44	36	6	☺
	DC160-05-05.550A0-	5,55		35	82	44	36	6	☺

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A0-WJ30ET

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-05-05.556A0-	5,556	7/32"	35	82	44	36	6	☹
DC160-05-05.600A0-	5,6		35	82	44	36	6	☹
DC160-05-05.700A0-	5,7		35	82	44	36	6	☹
DC160-05-05.800A0-	5,8		35	82	44	36	6	☹
DC160-05-05.900A0-	5,9		35	82	44	36	6	☹
DC160-05-05.953A0-	5,953	15/64"	35	82	44	36	6	☹
DC160-05-06.000A0-	6		35	82	44	36	6	☹
DC160-05-06.100A0-	6,1		43	91	53	36	8	☹
DC160-05-06.200A0-	6,2		43	91	53	36	8	☹
DC160-05-06.300A0-	6,3		43	91	53	36	8	☹
DC160-05-06.350A0-	6,350	1/4"	43	91	53	36	8	☹
DC160-05-06.400A0-	6,4		43	91	53	36	8	☹
DC160-05-06.500A0-	6,5		43	91	53	36	8	☹
DC160-05-06.600A0-	6,6		43	91	53	36	8	☹
DC160-05-06.700A0-	6,7		43	91	53	36	8	☹
DC160-05-06.747A0-	6,747	17/64"	43	91	53	36	8	☹
DC160-05-06.800A0-	6,8		43	91	53	36	8	☹
DC160-05-06.900A0-	6,9		43	91	53	36	8	☹
DC160-05-07.000A0-	7		43	91	53	36	8	☹
DC160-05-07.100A0-	7,1		43	91	53	36	8	☹
DC160-05-07.144A0-	7,144	9/32"	43	91	53	36	8	☹
DC160-05-07.200A0-	7,2		43	91	53	36	8	☹
DC160-05-07.300A0-	7,3		43	91	53	36	8	☹
DC160-05-07.400A0-	7,4		43	91	53	36	8	☹
DC160-05-07.500A0-	7,5		43	91	53	36	8	☹
DC160-05-07.541A0-	7,541	19/64"	43	91	53	36	8	☹
DC160-05-07.550A0-	7,55		43	91	53	36	8	☹
DC160-05-07.600A0-	7,6		43	91	53	36	8	☹
DC160-05-07.700A0-	7,7		43	91	53	36	8	☹
DC160-05-07.800A0-	7,8		43	91	53	36	8	☹
DC160-05-07.900A0-	7,9		43	91	53	36	8	☹
DC160-05-07.938A0-	7,938	5/16"	43	91	53	36	8	☹
DC160-05-08.000A0-	8		43	91	53	36	8	☹
DC160-05-08.100A0-	8,1		49	103	61	40	10	☹
DC160-05-08.200A0-	8,2		49	103	61	40	10	☹
DC160-05-08.300A0-	8,3		49	103	61	40	10	☹
DC160-05-08.334A0-	8,334	21/64"	49	103	61	40	10	☹
DC160-05-08.400A0-	8,4		49	103	61	40	10	☹
DC160-05-08.500A0-	8,5		49	103	61	40	10	☹
DC160-05-08.600A0-	8,6		49	103	61	40	10	☹
DC160-05-08.700A0-	8,7		49	103	61	40	10	☹
DC160-05-08.731A0-	8,731	11/32"	49	103	61	40	10	☹
DC160-05-08.800A0-	8,8		49	103	61	40	10	☹
DC160-05-08.900A0-	8,9		49	103	61	40	10	☹
DC160-05-09.000A0-	9		49	103	61	40	10	☹
DC160-05-09.100A0-	9,1		49	103	61	40	10	☹

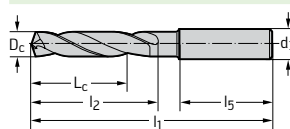
Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A0-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

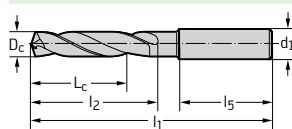
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-05-09.128A0-	9,128	23/64"	49	103	61	40	10	☹
DC160-05-09.300A0-	9,3		49	103	61	40	10	☹
DC160-05-09.400A0-	9,4		49	103	61	40	10	☹
DC160-05-09.500A0-	9,5		49	103	61	40	10	☹
DC160-05-09.525A0-	9,525	3/8"	49	103	61	40	10	☹
DC160-05-09.550A0-	9,55		49	103	61	40	10	☹
DC160-05-09.600A0-	9,6		49	103	61	40	10	☹
DC160-05-09.700A0-	9,7		49	103	61	40	10	☹
DC160-05-09.800A0-	9,8		49	103	61	40	10	☹
DC160-05-09.900A0-	9,9		49	103	61	40	10	☹
DC160-05-09.922A0-	9,922	25/64"	49	103	61	40	10	☹
DC160-05-10.000A0-	10		49	103	61	40	10	☹
DC160-05-10.100A0-	10,1		56	118	71	45	12	☹
DC160-05-10.200A0-	10,2		56	118	71	45	12	☹
DC160-05-10.300A0-	10,3		56	118	71	45	12	☹
DC160-05-10.319A0-	10,319	13/32"	56	118	71	45	12	☹
DC160-05-10.400A0-	10,4		56	118	71	45	12	☹
DC160-05-10.500A0-	10,5		56	118	71	45	12	☹
DC160-05-10.600A0-	10,6		56	118	71	45	12	☹
DC160-05-10.700A0-	10,7		56	118	71	45	12	☹
DC160-05-10.716A0-	10,716	27/64"	56	118	71	45	12	☹
DC160-05-10.800A0-	10,8		56	118	71	45	12	☹
DC160-05-10.900A0-	10,9		56	118	71	45	12	☹
DC160-05-11.000A0-	11		56	118	71	45	12	☹
DC160-05-11.100A0-	11,1		56	118	71	45	12	☹
DC160-05-11.113A0-	11,113	7/16"	56	118	71	45	12	☹
DC160-05-11.200A0-	11,2		56	118	71	45	12	☹
DC160-05-11.400A0-	11,4		56	118	71	45	12	☹
DC160-05-11.500A0-	11,5		56	118	71	45	12	☹
DC160-05-11.509A0-	11,509	29/64"	56	118	71	45	12	☹
DC160-05-11.550A0-	11,55		56	118	71	45	12	☹
DC160-05-11.600A0-	11,6		56	118	71	45	12	☹
DC160-05-11.700A0-	11,7		56	118	71	45	12	☹
DC160-05-11.800A0-	11,8		56	118	71	45	12	☹
DC160-05-11.906A0-	11,906	15/32"	56	118	71	45	12	☹
DC160-05-12.000A0-	12		56	118	71	45	12	☹
DC160-05-12.100A0-	12,1		60	124	77	45	14	☹
DC160-05-12.200A0-	12,2		60	124	77	45	14	☹
DC160-05-12.250A0-	12,25		60	124	77	45	14	☹
DC160-05-12.300A0-	12,3		60	124	77	45	14	☹
DC160-05-12.400A0-	12,4		60	124	77	45	14	☹
DC160-05-12.500A0-	12,5		60	124	77	45	14	☹
DC160-05-12.600A0-	12,6		60	124	77	45	14	☹
DC160-05-12.700A0-	12,700	1/2"	60	124	77	45	14	☹
DC160-05-12.750A0-	12,75		60	124	77	45	14	☹
DC160-05-12.800A0-	12,8		60	124	77	45	14	☹

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A0-WJ30ET

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-05-12.900A0-	12,9		60	124	77	45	14	☹
DC160-05-13.000A0-	13		60	124	77	45	14	☹
DC160-05-13.100A0-	13,1		60	124	77	45	14	☹
DC160-05-13.200A0-	13,2		60	124	77	45	14	☹
DC160-05-13.300A0-	13,3		60	124	77	45	14	☹
DC160-05-13.400A0-	13,4		60	124	77	45	14	☹
DC160-05-13.494A0-	13,494	17/32"	60	124	77	45	14	☹
DC160-05-13.500A0-	13,5		60	124	77	45	14	☹
DC160-05-13.600A0-	13,6		60	124	77	45	14	☹
DC160-05-13.700A0-	13,7		60	124	77	45	14	☹
DC160-05-13.800A0-	13,8		60	124	77	45	14	☹
DC160-05-13.900A0-	13,9		60	124	77	45	14	☹
DC160-05-14.000A0-	14		60	124	77	45	14	☹
DC160-05-14.100A0-	14,1		63	133	83	48	16	☹
DC160-05-14.200A0-	14,2		63	133	83	48	16	☹
DC160-05-14.288A0-	14,288	9/16"	63	133	83	48	16	☹
DC160-05-14.500A0-	14,5		63	133	83	48	16	☹
DC160-05-14.600A0-	14,6		63	133	83	48	16	☹
DC160-05-14.700A0-	14,7		63	133	83	48	16	☹
DC160-05-14.750A0-	14,75		63	133	83	48	16	☹
DC160-05-14.800A0-	14,8		63	133	83	48	16	☹
DC160-05-15.000A0-	15		63	133	83	48	16	☹
DC160-05-15.100A0-	15,1		63	133	83	48	16	☹
DC160-05-15.200A0-	15,2		63	133	83	48	16	☹
DC160-05-15.300A0-	15,3		63	133	83	48	16	☹
DC160-05-15.500A0-	15,5		63	133	83	48	16	☹
DC160-05-15.700A0-	15,7		63	133	83	48	16	☹
DC160-05-15.800A0-	15,8		63	133	83	48	16	☹
DC160-05-15.875A0-	15,875	5/8"	63	133	83	48	16	☹
DC160-05-15.900A0-	15,9		63	133	83	48	16	☹
DC160-05-16.000A0-	16		63	133	83	48	16	☹
DC160-05-16.100A0-	16,1		71	143	93	48	18	☹
DC160-05-16.300A0-	16,3		71	143	93	48	18	☹
DC160-05-16.500A0-	16,5		71	143	93	48	18	☹
DC160-05-16.600A0-	16,6		71	143	93	48	18	☹
DC160-05-16.700A0-	16,7		71	143	93	48	18	☹
DC160-05-16.750A0-	16,75		71	143	93	48	18	☹
DC160-05-16.800A0-	16,8		71	143	93	48	18	☹
DC160-05-17.000A0-	17		71	143	93	48	18	☹
DC160-05-17.500A0-	17,5		71	143	93	48	18	☹
DC160-05-17.700A0-	17,7		71	143	93	48	18	☹
DC160-05-17.800A0-	17,8		71	143	93	48	18	☹
DC160-05-18.000A0-	18		71	143	93	48	18	☹
DC160-05-18.200A0-	18,2		77	153	101	50	20	☹
DC160-05-18.700A0-	18,7		77	153	101	50	20	☹
DC160-05-18.800A0-	18,8		77	153	101	50	20	☹

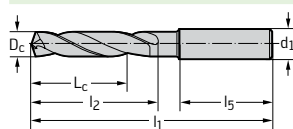
Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A0-WJ30ET

WALTER
SELECT

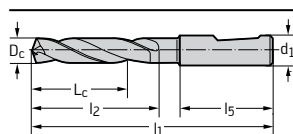
Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA



DIN 6535 HE

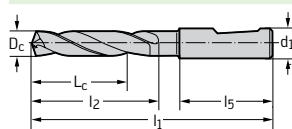
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-05-19.000A0-	19		77	153	101	50	20	☺
DC160-05-19.050A0-	19,050	3/4"	77	153	101	50	20	☺
DC160-05-20.000A0-	20		77	153	101	50	20	☺
DC160-05-20.500A0-	20,5		86	166	108	56	25	☺
DC160-05-21.000A0-	21		86	166	108	56	25	☺
DC160-05-21.500A0-	21,5		86	166	108	56	25	☺
DC160-05-22.000A0-	22		86	166	108	56	25	☺
DC160-05-22.500A0-	22,5		91	173	115	56	25	☺
DC160-05-23.000A0-	23		91	173	115	56	25	☺
DC160-05-23.500A0-	23,5		91	173	115	56	25	☺
DC160-05-24.000A0-	24		91	173	115	56	25	☺
DC160-05-24.500A0-	24,5		97	180	122	56	25	☺
DC160-05-25.000A0-	25		97	180	122	56	25	☺
DC160-05-03.000F0-	3		23	66	28	36	6	☺
DC160-05-03.100F0-	3,1		23	66	28	36	6	☺
DC160-05-03.200F0-	3,2		23	66	28	36	6	☺
DC160-05-03.250F0-	3,25		23	66	28	36	6	☺
DC160-05-03.300F0-	3,3		23	66	28	36	6	☺
DC160-05-03.400F0-	3,4		23	66	28	36	6	☺
DC160-05-03.500F0-	3,5		23	66	28	36	6	☺
DC160-05-03.600F0-	3,6		23	66	28	36	6	☺
DC160-05-03.650F0-	3,65		23	66	28	36	6	☺
DC160-05-03.700F0-	3,7		23	66	28	36	6	☺
DC160-05-03.800F0-	3,8		29	74	36	36	6	☺
DC160-05-03.900F0-	3,9		29	74	36	36	6	☺
DC160-05-04.000F0-	4		29	74	36	36	6	☺
DC160-05-04.100F0-	4,1		29	74	36	36	6	☺
DC160-05-04.200F0-	4,2		29	74	36	36	6	☺
DC160-05-04.300F0-	4,3		29	74	36	36	6	☺
DC160-05-04.400F0-	4,4		29	74	36	36	6	☺
DC160-05-04.500F0-	4,5		29	74	36	36	6	☺
DC160-05-04.600F0-	4,6		29	74	36	36	6	☺
DC160-05-04.650F0-	4,65		29	74	36	36	6	☺
DC160-05-04.700F0-	4,7		29	74	36	36	6	☺
DC160-05-04.800F0-	4,8		35	82	44	36	6	☺
DC160-05-04.900F0-	4,9		35	82	44	36	6	☺
DC160-05-05.000F0-	5		35	82	44	36	6	☺
DC160-05-05.100F0-	5,1		35	82	44	36	6	☺
DC160-05-05.200F0-	5,2		35	82	44	36	6	☺
DC160-05-05.300F0-	5,3		35	82	44	36	6	☺
DC160-05-05.400F0-	5,4		35	82	44	36	6	☺
DC160-05-05.500F0-	5,5		35	82	44	36	6	☺
DC160-05-05.550F0-	5,55		35	82	44	36	6	☺
DC160-05-05.600F0-	5,6		35	82	44	36	6	☺
DC160-05-05.700F0-	5,7		35	82	44	36	6	☺
DC160-05-05.800F0-	5,8		35	82	44	36	6	☺

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A0-WJ30ET

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HE

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-05-05.900F0-	5,9		35	82	44	36	6	☹
DC160-05-06.000F0-	6		35	82	44	36	6	☹
DC160-05-06.100F0-	6,1		43	91	53	36	8	☹
DC160-05-06.200F0-	6,2		43	91	53	36	8	☹
DC160-05-06.300F0-	6,3		43	91	53	36	8	☹
DC160-05-06.400F0-	6,4		43	91	53	36	8	☹
DC160-05-06.500F0-	6,5		43	91	53	36	8	☹
DC160-05-06.600F0-	6,6		43	91	53	36	8	☹
DC160-05-06.700F0-	6,7		43	91	53	36	8	☹
DC160-05-06.800F0-	6,8		43	91	53	36	8	☹
DC160-05-06.900F0-	6,9		43	91	53	36	8	☹
DC160-05-07.000F0-	7		43	91	53	36	8	☹
DC160-05-07.100F0-	7,1		43	91	53	36	8	☹
DC160-05-07.200F0-	7,2		43	91	53	36	8	☹
DC160-05-07.300F0-	7,3		43	91	53	36	8	☹
DC160-05-07.400F0-	7,4		43	91	53	36	8	☹
DC160-05-07.500F0-	7,5		43	91	53	36	8	☹
DC160-05-07.550F0-	7,55		43	91	53	36	8	☹
DC160-05-07.600F0-	7,6		43	91	53	36	8	☹
DC160-05-07.700F0-	7,7		43	91	53	36	8	☹
DC160-05-07.800F0-	7,8		43	91	53	36	8	☹
DC160-05-07.900F0-	7,9		43	91	53	36	8	☹
DC160-05-08.000F0-	8		43	91	53	36	8	☹
DC160-05-08.100F0-	8,1		49	103	61	40	10	☹
DC160-05-08.200F0-	8,2		49	103	61	40	10	☹
DC160-05-08.300F0-	8,3		49	103	61	40	10	☹
DC160-05-08.400F0-	8,4		49	103	61	40	10	☹
DC160-05-08.500F0-	8,5		49	103	61	40	10	☹
DC160-05-08.600F0-	8,6		49	103	61	40	10	☹
DC160-05-08.700F0-	8,7		49	103	61	40	10	☹
DC160-05-08.800F0-	8,8		49	103	61	40	10	☹
DC160-05-08.900F0-	8,9		49	103	61	40	10	☹
DC160-05-09.000F0-	9		49	103	61	40	10	☹
DC160-05-09.100F0-	9,1		49	103	61	40	10	☹
DC160-05-09.200F0-	9,2		49	103	61	40	10	☹
DC160-05-09.300F0-	9,3		49	103	61	40	10	☹
DC160-05-09.400F0-	9,4		49	103	61	40	10	☹
DC160-05-09.500F0-	9,5		49	103	61	40	10	☹
DC160-05-09.550F0-	9,55		49	103	61	40	10	☹
DC160-05-09.600F0-	9,6		49	103	61	40	10	☹
DC160-05-09.700F0-	9,7		49	103	61	40	10	☹
DC160-05-09.800F0-	9,8		49	103	61	40	10	☹
DC160-05-09.900F0-	9,9		49	103	61	40	10	☹
DC160-05-10.000F0-	10		49	103	61	40	10	☹
DC160-05-10.100F0-	10,1		56	118	71	45	12	☹
DC160-05-10.200F0-	10,2		56	118	71	45	12	☹

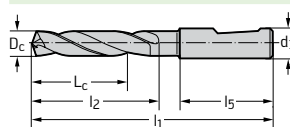
Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A0-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HE

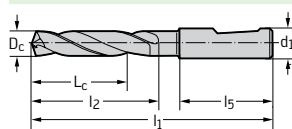
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
DC160-05-10.300F0-	10,3		56	118	71	45	12	☹
DC160-05-10.400F0-	10,4		56	118	71	45	12	☹
DC160-05-10.500F0-	10,5		56	118	71	45	12	☹
DC160-05-10.600F0-	10,6		56	118	71	45	12	☹
DC160-05-10.700F0-	10,7		56	118	71	45	12	☹
DC160-05-10.800F0-	10,8		56	118	71	45	12	☹
DC160-05-10.900F0-	10,9		56	118	71	45	12	☹
DC160-05-11.000F0-	11		56	118	71	45	12	☹
DC160-05-11.100F0-	11,1		56	118	71	45	12	☹
DC160-05-11.200F0-	11,2		56	118	71	45	12	☹
DC160-05-11.300F0-	11,3		56	118	71	45	12	☹
DC160-05-11.400F0-	11,4		56	118	71	45	12	☹
DC160-05-11.500F0-	11,5		56	118	71	45	12	☹
DC160-05-11.550F0-	11,55		56	118	71	45	12	☹
DC160-05-11.600F0-	11,6		56	118	71	45	12	☹
DC160-05-11.700F0-	11,7		56	118	71	45	12	☹
DC160-05-11.800F0-	11,8		56	118	71	45	12	☹
DC160-05-11.900F0-	11,9		56	118	71	45	12	☹
DC160-05-12.000F0-	12		56	118	71	45	12	☹
DC160-05-12.100F0-	12,1		60	124	77	45	14	☹
DC160-05-12.200F0-	12,2		60	124	77	45	14	☹
DC160-05-12.250F0-	12,25		60	124	77	45	14	☹
DC160-05-12.300F0-	12,3		60	124	77	45	14	☹
DC160-05-12.400F0-	12,4		60	124	77	45	14	☹
DC160-05-12.500F0-	12,5		60	124	77	45	14	☹
DC160-05-12.600F0-	12,6		60	124	77	45	14	☹
DC160-05-12.700F0-	12,700	1/2"	60	124	77	45	14	☹
DC160-05-12.750F0-	12,75		60	124	77	45	14	☹
DC160-05-12.800F0-	12,8		60	124	77	45	14	☹
DC160-05-12.900F0-	12,9		60	124	77	45	14	☹
DC160-05-13.000F0-	13		60	124	77	45	14	☹
DC160-05-13.100F0-	13,1		60	124	77	45	14	☹
DC160-05-13.200F0-	13,2		60	124	77	45	14	☹
DC160-05-13.300F0-	13,3		60	124	77	45	14	☹
DC160-05-13.400F0-	13,4		60	124	77	45	14	☹
DC160-05-13.500F0-	13,5		60	124	77	45	14	☹
DC160-05-13.600F0-	13,6		60	124	77	45	14	☹
DC160-05-13.700F0-	13,7		60	124	77	45	14	☹
DC160-05-13.800F0-	13,8		60	124	77	45	14	☹
DC160-05-13.900F0-	13,9		60	124	77	45	14	☹
DC160-05-14.000F0-	14		60	124	77	45	14	☹
DC160-05-14.100F0-	14,1		63	133	83	48	16	☹
DC160-05-14.200F0-	14,2		63	133	83	48	16	☹
DC160-05-14.300F0-	14,3		63	133	83	48	16	☹
DC160-05-14.400F0-	14,4		63	133	83	48	16	☹
DC160-05-14.500F0-	14,5		63	133	83	48	16	☹

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A0-WJ30ET

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹☹

Ferramenta



DIN 6535 HE

B1

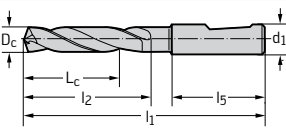
Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30ET
DC160-05-14.600F0-	14,6		63	133	83	48	16	☹
DC160-05-14.700F0-	14,7		63	133	83	48	16	☹
DC160-05-14.750F0-	14,75		63	133	83	48	16	☹
DC160-05-14.800F0-	14,8		63	133	83	48	16	☹
DC160-05-15.000F0-	15		63	133	83	48	16	☹
DC160-05-15.100F0-	15,1		63	133	83	48	16	☹
DC160-05-15.200F0-	15,2		63	133	83	48	16	☹
DC160-05-15.300F0-	15,3		63	133	83	48	16	☹
DC160-05-15.500F0-	15,5		63	133	83	48	16	☹
DC160-05-15.600F0-	15,6		63	133	83	48	16	☹
DC160-05-15.700F0-	15,7		63	133	83	48	16	☹
DC160-05-15.800F0-	15,8		63	133	83	48	16	☹
DC160-05-15.900F0-	15,9		63	133	83	48	16	☹
DC160-05-16.000F0-	16		63	133	83	48	16	☹
DC160-05-16.100F0-	16,1		71	143	93	48	18	☹
DC160-05-16.200F0-	16,2		71	143	93	48	18	☹
DC160-05-16.300F0-	16,3		71	143	93	48	18	☹
DC160-05-16.400F0-	16,4		71	143	93	48	18	☹
DC160-05-16.500F0-	16,5		71	143	93	48	18	☹
DC160-05-16.600F0-	16,6		71	143	93	48	18	☹
DC160-05-16.700F0-	16,7		71	143	93	48	18	☹
DC160-05-16.750F0-	16,75		71	143	93	48	18	☹
DC160-05-16.800F0-	16,8		71	143	93	48	18	☹
DC160-05-17.000F0-	17		71	143	93	48	18	☹
DC160-05-17.200F0-	17,2		71	143	93	48	18	☹
DC160-05-17.300F0-	17,3		71	143	93	48	18	☹
DC160-05-17.500F0-	17,5		71	143	93	48	18	☹
DC160-05-17.600F0-	17,6		71	143	93	48	18	☹
DC160-05-17.700F0-	17,7		71	143	93	48	18	☹
DC160-05-17.800F0-	17,8		71	143	93	48	18	☹
DC160-05-18.000F0-	18		71	143	93	48	18	☹
DC160-05-18.200F0-	18,2		77	153	101	50	20	☹
DC160-05-18.500F0-	18,5		77	153	101	50	20	☹
DC160-05-18.700F0-	18,7		77	153	101	50	20	☹
DC160-05-18.800F0-	18,8		77	153	101	50	20	☹
DC160-05-19.000F0-	19		77	153	101	50	20	☹
DC160-05-19.500F0-	19,5		77	153	101	50	20	☹
DC160-05-19.700F0-	19,7		77	153	101	50	20	☹
DC160-05-19.800F0-	19,8		77	153	101	50	20	☹
DC160-05-20.000F0-	20		77	153	101	50	20	☹
DC160-05-20.500F0-	20,5		86	166	108	56	25	☹
DC160-05-21.000F0-	21		86	166	108	56	25	☹
DC160-05-21.500F0-	21,5		86	166	108	56	25	☹
DC160-05-22.000F0-	22		86	166	108	56	25	☹
DC160-05-22.500F0-	22,5		91	173	115	56	25	☹
DC160-05-23.000F0-	23		91	173	115	56	25	☹

Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A0-WJ30ET

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária
→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ET
	DC160-05-23.500F0-	23,5		91	173	115	56	25	☺
	DC160-05-24.000F0-	24		91	173	115	56	25	☺
	DC160-05-24.500F0-	24,5		97	180	122	56	25	☺
	DC160-05-25.000F0-	25		97	180	122	56	25	☺

DIN 6535 HE

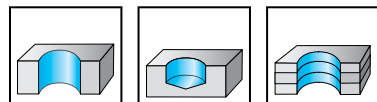
Exemplo de pedido para a classe WJ30ET: DC160-05-03.000A0-WJ30ET

B1

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Brocas helicoidais de metal duro DC150 Perform



	P	M	K	N	S	H	O
WJ30TA	●	●	●	●	●	●	●

Ferramenta	Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
 DIN 6535 HA	DC150-05-03.000A0-	3		23	66	28	36	6	☺
	DC150-05-03.100A0-	3,1		23	66	28	36	6	☺
	DC150-05-03.175A0-	3,175	1/8"	23	66	28	36	6	☺
	DC150-05-03.200A0-	3,2		23	66	28	36	6	☺
	DC150-05-03.250A0-	3,25		23	66	28	36	6	☺
	DC150-05-03.300A0-	3,3		23	66	28	36	6	☺
	DC150-05-03.400A0-	3,4		23	66	28	36	6	☺
	DC150-05-03.500A0-	3,5		23	66	28	36	6	☺
	DC150-05-03.600A0-	3,6		23	66	28	36	6	☺
	DC150-05-03.650A0-	3,65		23	66	28	36	6	☺
	DC150-05-03.700A0-	3,7		23	66	28	36	6	☺
	DC150-05-03.800A0-	3,8		29	74	36	36	6	☺
	DC150-05-03.900A0-	3,9		29	74	36	36	6	☺
	DC150-05-03.969A0-	3,969	5/32"	29	74	36	36	6	☺
	DC150-05-04.000A0-	4		29	74	36	36	6	☺
	DC150-05-04.100A0-	4,1		29	74	36	36	6	☺
	DC150-05-04.200A0-	4,2		29	74	36	36	6	☺
	DC150-05-04.300A0-	4,3		29	74	36	36	6	☺
	DC150-05-04.366A0-	4,366	11/64"	29	74	36	36	6	☺
	DC150-05-04.400A0-	4,4		29	74	36	36	6	☺
	DC150-05-04.500A0-	4,5		29	74	36	36	6	☺
	DC150-05-04.600A0-	4,6		29	74	36	36	6	☺
	DC150-05-04.650A0-	4,65		29	74	36	36	6	☺
	DC150-05-04.700A0-	4,7		29	74	36	36	6	☺
	DC150-05-04.763A0-	4,763	3/16"	35	82	44	36	6	☺
	DC150-05-04.800A0-	4,8		35	82	44	36	6	☺
	DC150-05-04.900A0-	4,9		35	82	44	36	6	☺
	DC150-05-05.000A0-	5		35	82	44	36	6	☺
	DC150-05-05.100A0-	5,1		35	82	44	36	6	☺
	DC150-05-05.159A0-	5,159	13/64"	35	82	44	36	6	☺
	DC150-05-05.200A0-	5,2		35	82	44	36	6	☺
	DC150-05-05.300A0-	5,3		35	82	44	36	6	☺
	DC150-05-05.400A0-	5,4		35	82	44	36	6	☺
	DC150-05-05.500A0-	5,5		35	82	44	36	6	☺
	DC150-05-05.550A0-	5,55		35	82	44	36	6	☺
	DC150-05-05.556A0-	5,556	7/32"	35	82	44	36	6	☺

Exemplo de pedido para a classe WJ30TA: DC150-05-03.000A0-WJ30TA

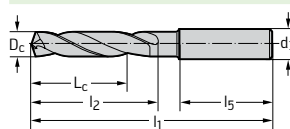
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

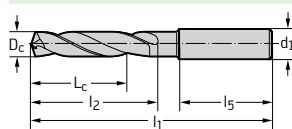
Denominação	D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
DC150-05-05.600A0-	5,6		35	82	44	36	6	☹
DC150-05-05.700A0-	5,7		35	82	44	36	6	☹
DC150-05-05.800A0-	5,8		35	82	44	36	6	☹
DC150-05-05.900A0-	5,9		35	82	44	36	6	☹
DC150-05-05.953A0-	5,953	15/64"	35	82	44	36	6	☹
DC150-05-06.000A0-	6		35	82	44	36	6	☹
DC150-05-06.100A0-	6,1		43	91	53	36	8	☹
DC150-05-06.200A0-	6,2		43	91	53	36	8	☹
DC150-05-06.300A0-	6,3		43	91	53	36	8	☹
DC150-05-06.350A0-	6,350	1/4"	43	91	53	36	8	☹
DC150-05-06.400A0-	6,4		43	91	53	36	8	☹
DC150-05-06.500A0-	6,5		43	91	53	36	8	☹
DC150-05-06.600A0-	6,6		43	91	53	36	8	☹
DC150-05-06.700A0-	6,7		43	91	53	36	8	☹
DC150-05-06.747A0-	6,747	17/64"	43	91	53	36	8	☹
DC150-05-06.800A0-	6,8		43	91	53	36	8	☹
DC150-05-06.900A0-	6,9		43	91	53	36	8	☹
DC150-05-07.000A0-	7		43	91	53	36	8	☹
DC150-05-07.100A0-	7,1		43	91	53	36	8	☹
DC150-05-07.144A0-	7,144	9/32"	43	91	53	36	8	☹
DC150-05-07.200A0-	7,2		43	91	53	36	8	☹
DC150-05-07.300A0-	7,3		43	91	53	36	8	☹
DC150-05-07.400A0-	7,4		43	91	53	36	8	☹
DC150-05-07.500A0-	7,5		43	91	53	36	8	☹
DC150-05-07.700A0-	7,7		43	91	53	36	8	☹
DC150-05-07.800A0-	7,8		43	91	53	36	8	☹
DC150-05-07.900A0-	7,9		43	91	53	36	8	☹
DC150-05-07.938A0-	7,938	5/16"	43	91	53	36	8	☹
DC150-05-08.000A0-	8		43	91	53	36	8	☹
DC150-05-08.100A0-	8,1		49	103	61	40	10	☹
DC150-05-08.200A0-	8,2		49	103	61	40	10	☹
DC150-05-08.300A0-	8,3		49	103	61	40	10	☹
DC150-05-08.334A0-	8,334	21/64"	49	103	61	40	10	☹
DC150-05-08.400A0-	8,4		49	103	61	40	10	☹
DC150-05-08.500A0-	8,5		49	103	61	40	10	☹
DC150-05-08.600A0-	8,6		49	103	61	40	10	☹
DC150-05-08.700A0-	8,7		49	103	61	40	10	☹
DC150-05-08.731A0-	8,731	11/32"	49	103	61	40	10	☹
DC150-05-08.800A0-	8,8		49	103	61	40	10	☹
DC150-05-08.900A0-	8,9		49	103	61	40	10	☹
DC150-05-09.000A0-	9		49	103	61	40	10	☹
DC150-05-09.100A0-	9,1		49	103	61	40	10	☹
DC150-05-09.128A0-	9,128	23/64"	49	103	61	40	10	☹
DC150-05-09.200A0-	9,2		49	103	61	40	10	☹
DC150-05-09.300A0-	9,3		49	103	61	40	10	☹
DC150-05-09.400A0-	9,4		49	103	61	40	10	☹

Exemplo de pedido para a classe WJ30TA: DC150-05-03.000A0-WJ30TA

WALTER
SELECT

● ● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



DIN 6535 HA

B1

Denominação	D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₁ h6 mm	WJ30TA
DC150-05-09.500A0-	9,5		49	103	61	40	10	☺
DC150-05-09.525A0-	9,525	3/8"	49	103	61	40	10	☺
DC150-05-09.600A0-	9,6		49	103	61	40	10	☺
DC150-05-09.700A0-	9,7		49	103	61	40	10	☺
DC150-05-09.800A0-	9,8		49	103	61	40	10	☺
DC150-05-09.900A0-	9,9		49	103	61	40	10	☺
DC150-05-09.922A0-	9,922	25/64"	49	103	61	40	10	☺
DC150-05-10.000A0-	10		49	103	61	40	10	☺
DC150-05-10.100A0-	10,1		56	118	71	45	12	☺
DC150-05-10.200A0-	10,2		56	118	71	45	12	☺
DC150-05-10.300A0-	10,3		56	118	71	45	12	☺
DC150-05-10.319A0-	10,319	13/32"	56	118	71	45	12	☺
DC150-05-10.400A0-	10,4		56	118	71	45	12	☺
DC150-05-10.500A0-	10,5		56	118	71	45	12	☺
DC150-05-10.600A0-	10,6		56	118	71	45	12	☺
DC150-05-10.700A0-	10,7		56	118	71	45	12	☺
DC150-05-10.716A0-	10,716	27/64"	56	118	71	45	12	☺
DC150-05-10.800A0-	10,8		56	118	71	45	12	☺
DC150-05-11.000A0-	11		56	118	71	45	12	☺
DC150-05-11.113A0-	11,113	7/16"	56	118	71	45	12	☺
DC150-05-11.200A0-	11,2		56	118	71	45	12	☺
DC150-05-11.500A0-	11,5		56	118	71	45	12	☺
DC150-05-11.800A0-	11,8		56	118	71	45	12	☺
DC150-05-11.906A0-	11,906	15/32"	56	118	71	45	12	☺
DC150-05-12.000A0-	12		56	118	71	45	12	☺
DC150-05-12.200A0-	12,2		60	124	77	45	14	☺
DC150-05-12.300A0-	12,3		60	124	77	45	14	☺
DC150-05-12.400A0-	12,4		60	124	77	45	14	☺
DC150-05-12.500A0-	12,5		60	124	77	45	14	☺
DC150-05-12.600A0-	12,6		60	124	77	45	14	☺
DC150-05-12.700A0-	12,700	1/2"	60	124	77	45	14	☺
DC150-05-13.000A0-	13		60	124	77	45	14	☺
DC150-05-13.200A0-	13,2		60	124	77	45	14	☺
DC150-05-13.494A0-	13,494	17/32"	60	124	77	45	14	☺
DC150-05-13.500A0-	13,5		60	124	77	45	14	☺
DC150-05-13.800A0-	13,8		60	124	77	45	14	☺
DC150-05-14.000A0-	14		60	124	77	45	14	☺
DC150-05-14.200A0-	14,2		63	133	83	48	16	☺
DC150-05-14.288A0-	14,288	9/16"	63	133	83	48	16	☺
DC150-05-14.500A0-	14,5		63	133	83	48	16	☺
DC150-05-15.000A0-	15		63	133	83	48	16	☺
DC150-05-15.500A0-	15,5		63	133	83	48	16	☺
DC150-05-15.800A0-	15,8		63	133	83	48	16	☺
DC150-05-16.000A0-	16		63	133	83	48	16	☺
DC150-05-16.500A0-	16,5		71	143	93	48	18	☺
DC150-05-17.000A0-	17		71	143	93	48	18	☺

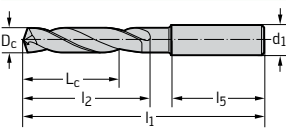
Exemplo de pedido para a classe WJ30TA: DC150-05-03.000A0-WJ30TA

WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária

→ boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30TA
	DC150-05-17.500A0-	17,5		71	143	93	48	18	☺
	DC150-05-18.000A0-	18		71	143	93	48	18	☺
	DC150-05-19.000A0-	19		77	153	101	50	20	☺
	DC150-05-19.500A0-	19,5		77	153	101	50	20	☺
	DC150-05-20.000A0-	20		77	153	101	50	20	☺
	DIN 6535 HA								

Exemplo de pedido para a classe WJ30TA: DC150-05-03.000A0-WJ30TA

B1

Broca helicoidal de metal duro 3 canais

A3367

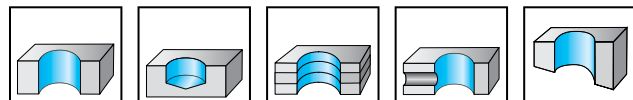
BSX



– Geometria da ponta SX

5×D_c

DIN 6537 L



	P	M	K	N	S	H	O
não revestido			●●	●●	●		●

Ferramenta		D _c m7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm
 DIN 6535 HA	A3367-3	3		23	66	28	36	6
	A3367-3.15	3,15		23	66	28	36	6
	A3367-1/8IN	3,175	1/8"	23	66	28	36	6
	A3367-3.3	3,3		23	66	28	36	6
	A3367-3.5	3,5		23	66	28	36	6
	A3367-3.7	3,7		23	66	28	36	6
	A3367-3.8	3,8		29	74	36	36	6
	A3367-5/32IN	3,969	5/32"	29	74	36	36	6
	A3367-4	4		29	74	36	36	6
	A3367-4.2	4,2		29	74	36	36	6
	A3367-4.3	4,3		29	74	36	36	6
	A3367-4.45	4,45		29	74	36	36	6
	A3367-4.5	4,5		29	74	36	36	6
	A3367-4.65	4,65		29	74	36	36	6
	A3367-3/16IN	4,763	3/16"	35	82	44	36	6
	A3367-5	5		35	82	44	36	6
	A3367-13/64IN	5,159	13/64"	35	82	44	36	6
	A3367-5.5	5,5		35	82	44	36	6
	A3367-5.55	5,55		35	82	44	36	6
	A3367-5.75	5,75		35	82	44	36	6
	A3367-5.9	5,9		35	82	44	36	6
	A3367-6	6		35	82	44	36	6
	A3367-6.55	6,55		43	91	53	36	8
	A3367-17/64IN	6,747	17/64"	43	91	53	36	8
	A3367-6.8	6,8		43	91	53	36	8
	A3367-7	7		43	91	53	36	8
	A3367-7.25	7,25		43	91	53	36	8
	A3367-8	8		43	91	53	36	8
	A3367-8.5	8,5		49	103	61	40	10
	A3367-9	9		49	103	61	40	10
	A3367-25/64IN	9,922	25/64"	49	103	61	40	10
	A3367-10	10		49	103	61	40	10
	A3367-10.2	10,2		56	118	71	45	12
	A3367-11	11		56	118	71	45	12
	A3367-12	12		56	118	71	45	12
	A3367-13	13		60	124	77	45	14
	A3367-13.5	13,5		60	124	77	45	14
	A3367-15	15		63	133	83	48	16
	A3367-16	16		63	133	83	48	16

WALTER
SELECT

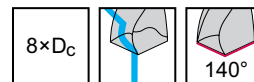
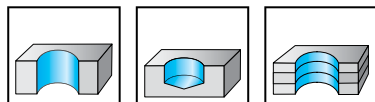
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹

Microbrocas helicoidais de metal duro

DB133 Supreme



	P	M	K	N	S	H	O
WJ30ER	●●	●	●●	●●	●	●	●

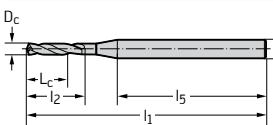
B1

Ferramenta		D _c mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ER
DIN 6535 HA	Denominação								
	DB133-08-00.500A0-	0,5		5,2	48	6	35	3	☹
	DB133-08-00.600A0-	0,6		6,1	48	7	34	3	☹
	DB133-08-00.700A0-	0,7		6,9	50	8	35	3	☹
	DB133-08-00.750A0-	0,75		7,8	50	9	34	3	☹
	DB133-08-00.794A0-	0,794	1/32"	7,8	50	9	34	3	☹
	DB133-08-00.800A0-	0,8		7,8	50	9	34	3	☹
	DB133-08-00.880A0-	0,88		8,6	53	10	36	3	☹
	DB133-08-00.900A0-	0,9		8,6	53	10	36	3	☹
	DB133-08-00.950A0-	0,95		10,5	53	12	34	3	☹
	DB133-08-01.000A0-	1		10,5	53	12	34	3	☹
	DB133-08-01.050A0-	1,05		11	54	13	35	3	☹
	DB133-08-01.100A0-	1,1		11	54	13	35	3	☹
	DB133-08-01.191A0-	1,191	3/64"	12	54	14	34	3	☹
	DB133-08-01.200A0-	1,2		12	54	14	34	3	☹
	DB133-08-01.250A0-	1,25		12	54	14	34	3	☹
	DB133-08-01.300A0-	1,3		13	57	15	36	3	☹
	DB133-08-01.350A0-	1,35		13	57	16	35	3	☹
	DB133-08-01.400A0-	1,4		13	57	16	35	3	☹
	DB133-08-01.450A0-	1,45		14	57	17	34	3	☹
	DB133-08-01.500A0-	1,5		14	57	17	34	3	☹
	DB133-08-01.550A0-	1,55		15	60	18	37	3	☹
	DB133-08-01.588A0-	1,588	1/16"	15	60	18	37	3	☹
	DB133-08-01.600A0-	1,6		15	60	18	37	3	☹
	DB133-08-01.650A0-	1,65		17	60	20	35	3	☹
	DB133-08-01.700A0-	1,7		17	60	20	35	3	☹
	DB133-08-01.750A0-	1,75		18	60	21	34	3	☹
	DB133-08-01.800A0-	1,8		18	60	21	34	3	☹
	DB133-08-01.820A0-	1,82		19	63	22	36	3	☹
	DB133-08-01.850A0-	1,85		19	63	22	36	3	☹
	DB133-08-01.900A0-	1,9		19	63	22	36	3	☹
	DB133-08-01.950A0-	1,95		20	63	23	35	3	☹
	DB133-08-01.984A0-	1,984	5/64"	20	63	23	35	3	☹
	DB133-08-02.000A0-	2		20	63	23	35	3	☹
	DB133-08-02.050A0-	2,05		20	63	24	35	3	☹
	DB133-08-02.100A0-	2,1		20	63	24	35	3	☹
	DB133-08-02.150A0-	2,15		21	63	25	34	3	☹

Exemplo de pedido para a classe WJ30ER: DB133-08-00.500A0-WJ30ER

**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

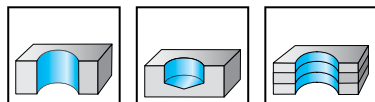
Ferramenta		D _c m7 mm	D _c inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30ER
 DIN 6535 HA	DB133-08-02.200A0-	2,2		21	63	25	34	3	☺
	DB133-08-02.250A0-	2,25		22	67	26	37	3	☺
	DB133-08-02.300A0-	2,3		22	67	26	37	3	☺
	DB133-08-02.350A0-	2,35		24	67	28	35	3	☺
	DB133-08-02.381A0-	2,381	3/32"	24	67	28	35	3	☺
	DB133-08-02.400A0-	2,4		24	67	28	35	3	☺
	DB133-08-02.450A0-	2,45		25	67	29	34	3	☺
	DB133-08-02.500A0-	2,5		25	67	29	34	3	☺
	DB133-08-02.550A0-	2,55		26	71	30	37	3	☺
	DB133-08-02.600A0-	2,6		26	71	30	37	3	☺
	DB133-08-02.650A0-	2,65		26	71	31	37	3	☺
	DB133-08-02.700A0-	2,7		26	71	31	37	3	☺
	DB133-08-02.750A0-	2,75		27	71	32	36	3	☺
	DB133-08-02.778A0-	2,778	7/64"	27	71	32	36	3	☺
	DB133-08-02.800A0-	2,8		27	71	32	36	3	☺
	DB133-08-02.850A0-	2,85		28	71	33	35	3	☺
	DB133-08-02.900A0-	2,9		28	71	33	35	3	☺
	DB133-08-02.950A0-	2,95		29	71	34	34	3	☺

Exemplo de pedido para a classe WJ30ER: DB133-08-00.500A0-WJ30ER

Brocas helicoidais de metal duro

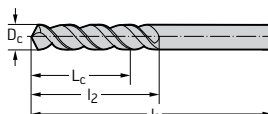
A1276TFL

Alpha® 22



	P	M	K	N	S	H	O
TFL	●●		●●	●●	●		

B1

Ferramenta	Denominação	D _c h7 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ h6 mm
 Cylindrical shank	A1276TFL-3	3	28	61	33	3
	A1276TFL-3.1	3,1	30	65	36	3,1
	A1276TFL-3.2	3,2	30	65	36	3,2
	A1276TFL-3.3	3,3	30	65	36	3,3
	A1276TFL-3.4	3,4	33	70	39	3,4
	A1276TFL-3.5	3,5	33	70	39	3,5
	A1276TFL-3.7	3,7	33	70	39	3,7
	A1276TFL-3.8	3,8	36	75	43	3,8
	A1276TFL-4	4	36	75	43	4
	A1276TFL-4.2	4,2	36	75	43	4,2
	A1276TFL-4.3	4,3	39	80	47	4,3
	A1276TFL-4.5	4,5	39	80	47	4,5
	A1276TFL-4.7	4,7	39	80	47	4,7
	A1276TFL-4.8	4,8	44	86	52	4,8
	A1276TFL-5	5	44	86	52	5
	A1276TFL-5.1	5,1	44	86	52	5,1
	A1276TFL-5.2	5,2	44	86	52	5,2
	A1276TFL-5.5	5,5	48	93	57	5,5
	A1276TFL-5.8	5,8	48	93	57	5,8
	A1276TFL-6	6	48	93	57	6
	A1276TFL-6.1	6,1	52	101	63	6,1
	A1276TFL-6.5	6,5	52	101	63	6,5
	A1276TFL-6.6	6,6	52	101	63	6,6
	A1276TFL-6.8	6,8	57	109	69	6,8
	A1276TFL-7	7	57	109	69	7
	A1276TFL-8	8	62	117	75	8
	A1276TFL-8.5	8,5	62	117	75	8,5
	A1276TFL-9	9	66	125	81	9
	A1276TFL-10	10	71	133	87	10
	A1276TFL-10.2	10,2	71	133	87	10,2

WALTER
SELECT

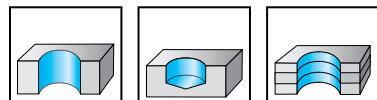
●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = 😊 → medianas = 😐 → ruins = ☹

Brocas helicoidais de metal duro

A1263



– Tipo N



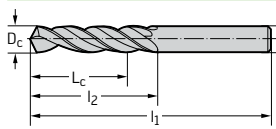
	P	M	K	N	S	H	O
não revestido			●	●●	●		●●

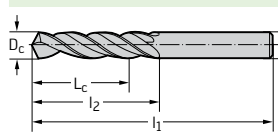
Ferramenta	Denominação	D _c h7 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ h6 mm
 Cylindrical shank	A1263-0.6	0,6	6,1	24	7	0,6
	A1263-0.7	0,7	7,8	28	9	0,7
	A1263-0.8	0,8	8,7	30	10	0,8
	A1263-0.9	0,9	9,5	32	11	0,9
	A1263-1	1	10	34	12	1
	A1263-1.1	1,1	12	36	14	1,1
	A1263-1.2	1,2	14	38	16	1,2
	A1263-1.3	1,3	14	38	16	1,3
	A1263-1.4	1,4	15	40	18	1,4
	A1263-1.5	1,5	15	40	18	1,5
	A1263-1.6	1,6	17	43	20	1,6
	A1263-1.7	1,7	17	43	20	1,7
	A1263-1.8	1,8	19	46	22	1,8
	A1263-1.9	1,9	19	46	22	1,9
	A1263-2	2	20	49	24	2
	A1263-2.1	2,1	20	49	24	2,1
	A1263-2.2	2,2	23	53	27	2,2
	A1263-2.3	2,3	23	53	27	2,3
	A1263-2.4	2,4	26	57	30	2,4
	A1263-2.5	2,5	26	57	30	2,5
	A1263-2.6	2,6	26	57	30	2,6
	A1263-2.7	2,7	28	61	33	2,7
	A1263-2.8	2,8	28	61	33	2,8
	A1263-2.9	2,9	28	61	33	2,9
	A1263-3	3	28	61	33	3
	A1263-3.1	3,1	30	65	36	3,1
	A1263-3.2	3,2	30	65	36	3,2
	A1263-3.3	3,3	30	65	36	3,3
	A1263-3.4	3,4	33	70	39	3,4
	A1263-3.5	3,5	33	70	39	3,5
	A1263-3.6	3,6	33	70	39	3,6
	A1263-3.7	3,7	33	70	39	3,7
	A1263-3.8	3,8	36	75	43	3,8
	A1263-3.9	3,9	36	75	43	3,9
	A1263-4	4	36	75	43	4
	A1263-4.1	4,1	36	75	43	4,1

WALTER
SELECT

Ferramenta ideal para condições de usinagem

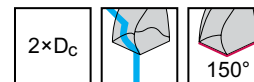
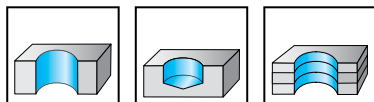
●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta		D _c h7 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ h6 mm
	Denominação					
	A1263-4.2	4,2	36	75	43	4,2
	A1263-4.3	4,3	39	80	47	4,3
	A1263-4.4	4,4	39	80	47	4,4
Cylindrical shank	A1263-4.5	4,5	39	80	47	4,5
	A1263-4.6	4,6	39	80	47	4,6
	A1263-4.7	4,7	39	80	47	4,7
	A1263-4.8	4,8	44	86	52	4,8
	A1263-4.9	4,9	44	86	52	4,9
	A1263-5	5	44	86	52	5
	A1263-5.1	5,1	44	86	52	5,1
	A1263-5.2	5,2	44	86	52	5,2
	A1263-5.3	5,3	44	86	52	5,3
	A1263-5.4	5,4	48	93	57	5,4
	A1263-5.5	5,5	48	93	57	5,5
	A1263-5.6	5,6	48	93	57	5,6
	A1263-5.7	5,7	48	93	57	5,7
	A1263-5.8	5,8	48	93	57	5,8
	A1263-5.9	5,9	48	93	57	5,9
	A1263-6	6	48	93	57	6
	A1263-6.1	6,1	52	101	63	6,1
	A1263-6.2	6,2	52	101	63	6,2
	A1263-6.3	6,3	52	101	63	6,3
	A1263-6.4	6,4	52	101	63	6,4
	A1263-6.5	6,5	52	101	63	6,5
	A1263-6.6	6,6	52	101	63	6,6
	A1263-6.7	6,7	52	101	63	6,7
	A1263-6.8	6,8	57	109	69	6,8
	A1263-6.9	6,9	57	109	69	6,9
	A1263-7	7	57	109	69	7
	A1263-7.1	7,1	57	109	69	7,1
	A1263-7.2	7,2	57	109	69	7,2
	A1263-7.3	7,3	57	109	69	7,3
	A1263-7.4	7,4	57	109	69	7,4
	A1263-7.5	7,5	57	109	69	7,5
	A1263-7.6	7,6	62	117	75	7,6
	A1263-7.7	7,7	62	117	75	7,7
	A1263-7.8	7,8	62	117	75	7,8
	A1263-7.9	7,9	62	117	75	7,9
	A1263-8	8	62	117	75	8
	A1263-8.1	8,1	62	117	75	8,1
	A1263-8.2	8,2	62	117	75	8,2
	A1263-8.3	8,3	62	117	75	8,3
	A1263-8.4	8,4	62	117	75	8,4
	A1263-8.5	8,5	62	117	75	8,5
	A1263-8.6	8,6	66	125	81	8,6
	A1263-8.7	8,7	66	125	81	8,7

Ferramenta		D_c h7 mm	L_c mm	l_1 mm	l_2 mm	d_1 h6 mm
 Cylindrical shank	Denominação					
	A1263-8.8	8,8	66	125	81	8,8
	A1263-8.9	8,9	66	125	81	8,9
	A1263-9	9	66	125	81	9
	A1263-9.1	9,1	66	125	81	9,1
	A1263-9.2	9,2	66	125	81	9,2
	A1263-9.3	9,3	66	125	81	9,3
	A1263-9.4	9,4	66	125	81	9,4
	A1263-9.5	9,5	66	125	81	9,5
	A1263-9.6	9,6	71	133	87	9,6
	A1263-9.7	9,7	71	133	87	9,7
	A1263-9.8	9,8	71	133	87	9,8
	A1263-9.9	9,9	71	133	87	9,9
	A1263-10	10	71	133	87	10
	A1263-10.2	10,2	71	133	87	10,2
	A1263-10.5	10,5	71	133	87	10,5
	A1263-10.8	10,8	76	142	94	10,8
	A1263-11	11	76	142	94	11
	A1263-11.2	11,2	76	142	94	11,2
	A1263-11.5	11,5	76	142	94	11,5
	A1263-11.8	11,8	76	142	94	11,8
	A1263-12	12	87	151	101	12

Microbrocas piloto de metal duro

DB131 Supreme



	P	M	K	N	S	H	O
WJ30EL	●	●	●	●	●	●	●

B1

Ferramenta		D _c p7 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	l ₅ mm	d ₁ h6 mm	WJ30EL
 DIN 6535 HA	Denominação								
	DB131-02-00.500A0-	0,5		2,2	47	3	37	3	☺
	DB131-02-00.600A0-	0,6		2,1	47	3	37	3	☺
	DB131-02-00.700A0-	0,7		2,9	48	4	39	3	☺
	DB131-02-00.750A0-	0,75		2,8	48	4	37	3	☺
	DB131-02-00.794A0-	0,794	1/32"	2,8	48	4	37	3	☺
	DB131-02-00.800A0-	0,8		2,8	48	4	37	3	☺
	DB131-02-00.850A0-	0,85		3,6	50	5	38	3	☺
	DB131-02-00.900A0-	0,9		3,6	50	5	38	3	☺
	DB131-02-00.950A0-	0,95		3,5	50	5	38	3	☺
	DB131-02-01.000A0-	1		3,5	50	5	38	3	☺
	DB131-02-01.050A0-	1,05		4	51	6	39	3	☺
	DB131-02-01.100A0-	1,1		4	51	6	39	3	☺
	DB131-02-01.150A0-	1,15		4	51	6	39	3	☺
	DB131-02-01.191A0-	1,191	3/64"	4	51	6	39	3	☺
	DB131-02-01.200A0-	1,2		4	51	6	39	3	☺
	DB131-02-01.250A0-	1,25		4	51	6	39	3	☺
	DB131-02-01.300A0-	1,3		5	53	7	40	3	☺
	DB131-02-01.350A0-	1,35		4	53	7	40	3	☺
	DB131-02-01.400A0-	1,4		4	53	7	40	3	☺
	DB131-02-01.450A0-	1,45		5	53	8	39	3	☺
	DB131-02-01.500A0-	1,5		5	53	8	39	3	☺
	DB131-02-01.550A0-	1,55		5	54	8	41	3	☺
	DB131-02-01.588A0-	1,588	1/16"	5	54	8	41	3	☺
	DB131-02-01.600A0-	1,6		5	54	8	41	3	☺
	DB131-02-01.650A0-	1,65		6	54	9	40	3	☺
	DB131-02-01.700A0-	1,7		6	54	9	40	3	☺
	DB131-02-01.750A0-	1,75		6	54	9	40	3	☺
	DB131-02-01.800A0-	1,8		6	54	9	40	3	☺
	DB131-02-01.850A0-	1,85		7	57	10	42	3	☺
	DB131-02-01.900A0-	1,9		7	57	10	42	3	☺
	DB131-02-01.950A0-	1,95		7	57	10	42	3	☺
	DB131-02-01.984A0-	1,984	5/64"	7	57	10	42	3	☺

Exemplo de pedido para a classe WJ30EL: DB131-02-00.500A0-WJ30EL

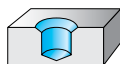
**WALTER
SELECT**

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramentas para furar e chanfrar

B1

Usinagem



Profundidade de furação



Descrição

D4580
Xtra-tec®

Aresta efetiva

2

Faixa de Ø

[mm]

4–16

[inch]

0,157–0,630

P Aço

●●

M Aço inoxidável

●●

K Ferro fundido

●●

N Metais não ferrosos

●●

S Materiais de usinagem difícil

●●

H Materiais endurecidos

O Outros

Tipos de insertos intercambiáveis



VC .

Quantidade de arestas de corte

2

Página do catálogo

B 196

QR Code



www.walter-tools.com/woc/

D4580

WALTER SELECT

●● Aplicação principal

● Aplicação secundária

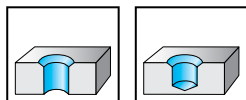
Ferramenta para chanfrar

D4580 inch

Xtra-tec®



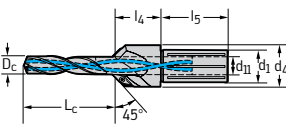
Z=2



	P	M	K	N	S	H	O
D4580	●●	●●	●●	●●	●●		

B1

Ferramenta

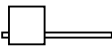
	Denominação	D _{cmin} inch	D _{c max} inch	d ₁₁ inch	d ₁ inch	d ₄ inch	l ₄ inch	l ₅ inch		Qnt. insertos EA	Tipo
 Cylindrical shank with collar	D4580.45-06.00A13-VC09	0,157	0,236	0,236	0,500	0,827	1,000	1,614	0,066	2	VC .. 09 ..
	D4580.45-08.00A15-VC09	0,24	0,315	0,315	0,625	0,984	1,000	1,752	0,192	2	
	D4580.45-10.00A15-VC09	0,319	0,394	0,394	0,625	0,984	1,000	1,752	0,024	2	
	D4580.45-12.00A19-VC09	0,398	0,472	0,472	0,750	1,102	1,000	1,831	0,132	2	
	D4580.45-14.00A19-VC09	0,476	0,551	0,551	0,750	1,181	1,000	1,831	0,154	2	
	D4580.45-16.00A26-VC09	0,555	0,630	0,630	1,000	1,260	1,339	2,087	0,516	2	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _{cmin} [inch]	0,157-0,555
	Cápsula	FK390
	Parafuso para inserto intercambiável Torque de aperto	FS2111 (T7IP) 0,664 lbs
	Parafuso de regulação	FS2029 (SW 1,5)

Acessórios

	D _{cmin} [inch]	0,157-0,555
	Chave tipo bandeira	FS1490 (T7IP)
	Chave	ISO2936-1,5 (SW 1,5)

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

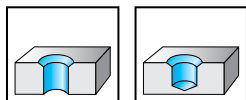
Ferramenta para chanfrar

D4580 mm

Xtra-tec®

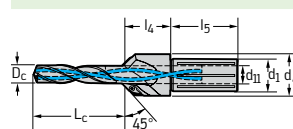


Z=2



	P	M	K	N	S	H	O
D4580	●●	●●	●●	●●	●●		

Ferramenta



Cylindrical shank with collar

Denominação	D _{cmin} mm	D _{c max} mm	d ₁₁ mm	d ₁ mm	d ₄ mm	l ₄ mm	l ₅ mm	kg	Qnt. insertos EA	Tipo
D4580-45-06.00A12-VC09	4	6	6	12	21	25	41	0,06	2	VC .. 09 ..
D4580-45-08.00A16-VC09	6,1	8	8	16	25	25	44,5	0,04	2	
D4580-45-10.00A16-VC09	8,1	10	10	16	25	25	44,5	0,11	2	
D4580-45-12.00A20-VC09	10,1	12	12	20	28	25	46,5	0,06	2	
D4580-45-14.00A20-VC09	12,1	14	14	20	30	25	46,5	0,07	2	
D4580-45-16.00A25-VC09	14,1	16	16	25	32	34	53	0,08	2	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _{cmin} (mm)	4-14,1
Cápsula		FK390
Parafuso para inserto intercambiável Torque de aperto		FS2111 (T7IP) 0,9 Nm
Parafuso de regulação		FS2029 (SW 1,5)

Acessórios

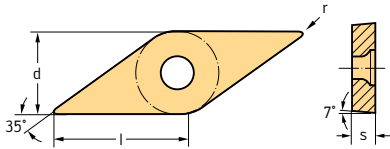
	D _{cmin} (mm)	4-14,1
Chave tipo bandeira		FS1490 (T7IP)
Chave		ISO2936-1,5 (SW 1,5)

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Rômbico positivo 35°
VCGX



Insertos intercambiáveis

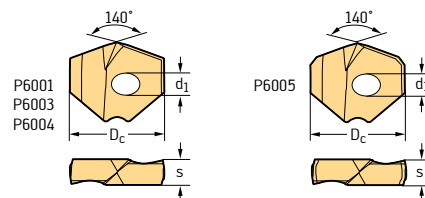
Denominação	Quantidade de arestas de corte	l mm	r mm	s mm	d mm	P	M	K	S
						HC	HC	HC	HC
 VCGX0902ACFR	2	9	0,2	2,5	5,556	WXP30 WSP45G	WXP40 WSP45G	WXP30 WSP45G	WXP30 WSP45G

Exemplo de pedido para a classe WSP45G: VCGX0902ACFR WSP45G

HC = metal duro com revestimento

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

B1



Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P		M	K	N	S
						WPP25	WMP35	WPP45C	WMP35	WMP45C	WMP35
P6001-D12,00R	1	12	A	3	3,6						
P6001-D12,10R	1	12,1	A	3	3,6						
P6001-D12,20R	1	12,2	A	3	3,6						
P6001-D12,30R	1	12,3	A	3	3,6						
P6001-D12,40R	1	12,4	A	3	3,6						
P6001-D12,50R	1	12,5	A	3	3,6						
P6001-D12,60R	1	12,6	A	3	3,6						
P6001-D12,70R	1	12,7	A	3	3,6						
P6001-D12,80R	1	12,8	A	3	3,6						
P6001-D12,90R	1	12,9	A	3	3,6						
P6001-D13,00R	1	13	A	3	3,6						
P6001-D13,11R	1	13,11	A	3	3,6						
P6001-D13,20R	1	13,2	A	3	3,6						
P6001-D13,30R	1	13,3	A	3	3,6						
P6001-D13,40R	1	13,4	A	3	3,6						
P6001-D13,50R	1	13,5	A	3	3,6						
P6001-D13,60R	1	13,6	A	3	3,6						
P6001-D13,70R	1	13,7	A	3	3,6						
P6001-D13,80R	1	13,8	A	3	3,6						
P6001-D13,89R	1	13,89	A	3	3,6						
P6001-D14,00R	1	14	B	3	4						
P6001-D14,10R	1	14,1	B	3	4						
P6001-D14,20R	1	14,2	B	3	4						
P6001-D14,30R	1	14,3	B	3	4						
P6001-D14,40R	1	14,4	B	3	4						
P6001-D14,50R	1	14,5	B	3	4						
P6001-D14,60R	1	14,6	B	3	4						
P6001-D14,68R	1	14,68	B	3	4						
P6001-D14,80R	1	14,8	B	3	4						
P6001-D14,90R	1	14,9	B	3	4						
P6001-D15,00R	1	15	B	3	4						
P6001-D15,09R	1	15,09	B	3	4						
P6001-D15,20R	1	15,2	B	3	4						
P6001-D15,30R	1	15,3	B	3	4						
P6001-D15,47R	1	15,47	B	3	4						
P6001-D15,50R	1	15,5	B	3	4						
P6001-D15,60R	1	15,6	B	3	4						
P6001-D15,70R	1	15,7	B	3	4						
P6001-D15,80R	1	15,8	B	3	4						
P6001-D15,87R	1	15,87	B	3	4						
P6001-D16,00R	1	16	C	4	4,5						
P6001-D16,13R	1	16,13	C	4	4,5						
P6001-D16,26R	1	16,26	C	4	4,5						

Exemplo de pedido: P60.. -D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

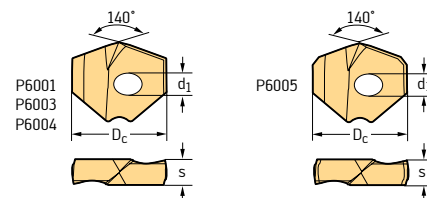
→ boas =

→ médias =

→ desfavoráveis =

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

	Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P		M	K	N	S
							WPP25	HC	WMP35	WPP45C	WMP35	WMP35
	P6001-D16,43R	1	16,43	C	4	4,5						
	P6001-D16,50R	1	16,5	C	4	4,5						
	P6001-D16,66R	1	16,66	C	4	4,5						
	P6001-D16,70R	1	16,7	C	4	4,5						
	P6001-D17,00R	1	17	C	4	4,5						
	P6001-D17,07R	1	17,07	C	4	4,5						
	P6001-D17,20R	1	17,2	C	4	4,5						
	P6001-D17,45R	1	17,45	C	4	4,5						
	P6001-D17,50R	1	17,5	C	4	4,5						
	P6001-D17,70R	1	17,7	C	4	4,5						
	P6001-D17,86R	1	17,86	C	4	4,5						
	P6001-D18,00R	1	18	D	4	5						
	P6001-D18,24R	1	18,24	D	4	5						
	P6001-D18,50R	1	18,5	D	4	5						
	P6001-D18,65R	1	18,65	D	4	5						
	P6001-D18,70R	1	18,7	D	4	5						
	P6001-D18,80R	1	18,8	D	4	5						
	P6001-D19,00R	1	19	D	4	5						
	P6001-D19,05R	1	19,05	D	4	5						
	P6001-D19,20R	1	19,2	D	4	5						
	P6001-D19,25R	1	19,25	D	4	5						
	P6001-D19,30R	1	19,3	D	4	5						
	P6001-D19,43R	1	19,43	D	4	5						
	P6001-D19,50R	1	19,5	D	4	5						
	P6001-D19,60R	1	19,6	D	4	5						
	P6001-D19,70R	1	19,7	D	4	5						
	P6001-D19,84R	1	19,84	D	4	5						
	P6001-D20,00R	1	20	E	5	5,5						
	P6001-D20,20R	1	20,2	E	5	5,5						
	P6001-D20,24R	1	20,24	E	5	5,5						
	P6001-D20,50R	1	20,5	E	5	5,5						
	P6001-D20,62R	1	20,62	E	5	5,5						
	P6001-D20,70R	1	20,7	E	5	5,5						
	P6001-D21,00R	1	21	E	5	5,5						
	P6001-D21,41R	1	21,41	E	5	5,5						
	P6001-D21,50R	1	21,5	E	5	5,5						
	P6001-D21,70R	1	21,7	E	5	5,5						
	P6001-D21,83R	1	21,83	E	5	5,5						
	P6001-D22,00R	1	22	F	5	6						
	P6001-D22,22R	1	22,22	F	5	6						
	P6001-D22,42R	1	22,42	F	5	6						
	P6001-D22,50R	1	22,5	F	5	6						
	P6001-D22,62R	1	22,62	F	5	6						

Exemplo de pedido: P60.. -D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

→ boas = 

→ médias = 

→ desfavoráveis = 

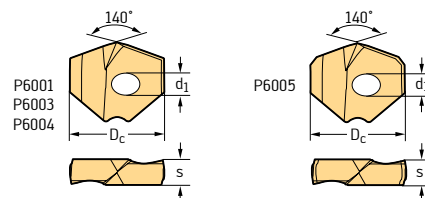
   / ★ = novo no programa

Insertos intercambiáveis

B 199

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

B1

	Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P			M	K	N	S
							HC						
							WPP25	WMP35	WPP45C				
	P6001-D22,70R	1	22,7	F	5	6							
	P6001-D23,00R	1	23	F	5	6							
	P6001-D23,39R	1	23,39	F	5	6							
	P6001-D23,50R	1	23,5	F	5	6							
	P6001-D23,70R	1	23,7	F	5	6							
	P6001-D23,80R	1	23,8	F	5	6							
	P6001-D24,00R	1	24	G	5	6,5							
	P6001-D24,21R	1	24,21	G	5	6,5							
	P6001-D24,50R	1	24,5	G	5	6,5							
	P6001-D24,59R	1	24,59	G	5	6,5							
	P6001-D24,70R	1	24,7	G	5	6,5							
	P6001-D25,00R	1	25	G	5	6,5							
	P6001-D25,25R	1	25,25	G	5	6,5							
	P6001-D25,40R	1	25,4	G	5	6,5							
	P6001-D25,50R	1	25,5	G	5	6,5							
	P6001-D25,65R	1	25,65	G	5	6,5							
	P6001-D25,70R	1	25,7	G	5	6,5							
	P6001-D25,80R	1	25,8	G	5	6,5							
	P6001-D26,00R	1	26	H	6	7,1							
	P6001-D26,25R	1	26,25	H	6	7,1							
	P6001-D26,50R	1	26,5	H	6	7,1							
	P6001-D26,59R	1	26,59	H	6	7,1							
	P6001-D27,00R	1	27	H	6	7,1							
	P6001-D27,38R	1	27,38	H	6	7,1							
	P6001-D27,50R	1	27,5	H	6	7,1							
	P6001-D27,78R	1	27,78	H	6	7,1							
	P6001-D28,00R	1	28	J	6	7,7							
	P6001-D28,17R	1	28,17	J	6	7,7							
	P6001-D28,50R	1	28,5	J	6	7,7							
	P6001-D28,57R	1	28,57	J	6	7,7							
	P6001-D29,00R	1	29	J	6	7,7							
	P6001-D29,37R	1	29,37	J	6	7,7							
	P6001-D29,50R	1	29,5	J	6	7,7							
	P6001-D29,77R	1	29,77	J	6	7,7							
	P6001-D30,00R	1	30	K	6	8							
	P6001-D30,15R	1	30,15	K	6	8							
	P6001-D30,50R	1	30,5	K	6	8							
	P6001-D31,00R	1	31	K	6	8							
	P6001-D31,50R	1	31,5	K	6	8							
	P6001-D31,75R	1	31,75	K	6	8							
P6001-D31,99R	1	31,99	K	6	8								
P6001-D32,00R	1	32	M	6	8,3								
P6001-D32,10R	1	32,1	M	6	8,3								

Exemplo de pedido: P60.. -D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

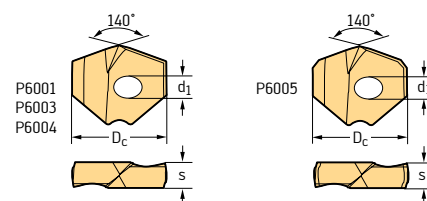
→ boas = 😊

→ médias = 😐

→ desfavoráveis = ☹️

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

	Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P			M	K	N	S
							HC			HC	HC	HC	HC
							WPP25	WMP35	WPP45C	WMP35	WKK45C	WNN25	WMP35
	P6001-D33,00R	1	33	M	6	8,3							
	P6001-D34,00R	1	34	N	6	8,6							
	P6001-D35,00R	1	35	N	6	8,6							
	P6001-D36,00R	1	36	P	6	8,9							
	P6001-D37,00R	1	37	P	6	8,9							
	P6001-D37,99R	1	37,99	P	6	8,9							
	P6003-D12,00R	1	12	A	3	3,6							
	P6003-D12,10R	1	12,1	A	3	3,6							
	P6003-D12,20R	1	12,2	A	3	3,6							
	P6003-D12,30R	1	12,3	A	3	3,6							
	P6003-D12,40R	1	12,4	A	3	3,6							
	P6003-D12,50R	1	12,5	A	3	3,6							
	P6003-D12,60R	1	12,6	A	3	3,6							
	P6003-D12,70R	1	12,7	A	3	3,6							
	P6003-D12,80R	1	12,8	A	3	3,6							
	P6003-D12,90R	1	12,9	A	3	3,6							
	P6003-D12,95R	1	12,95	A	3	3,6							
	P6003-D13,00R	1	13	A	3	3,6							
	P6003-D13,11R	1	13,11	A	3	3,6							
	P6003-D13,20R	1	13,2	A	3	3,6							
	P6003-D13,25R	1	13,25	A	3	3,6							
	P6003-D13,30R	1	13,3	A	3	3,6							
	P6003-D13,40R	1	13,4	A	3	3,6							
	P6003-D13,50R	1	13,5	A	3	3,6							
	P6003-D13,60R	1	13,6	A	3	3,6							
	P6003-D13,70R	1	13,7	A	3	3,6							
	P6003-D13,80R	1	13,8	A	3	3,6							
	P6003-D13,89R	1	13,89	A	3	3,6							
	P6003-D14,00R	1	14	B	3	4							
	P6003-D14,10R	1	14,1	B	3	4							
	P6003-D14,20R	1	14,2	B	3	4							
	P6003-D14,30R	1	14,3	B	3	4							
	P6003-D14,40R	1	14,4	B	3	4							
	P6003-D14,50R	1	14,5	B	3	4							
	P6003-D14,60R	1	14,6	B	3	4							
	P6003-D14,68R	1	14,68	B	3	4							
	P6003-D14,80R	1	14,8	B	3	4							
	P6003-D14,90R	1	14,9	B	3	4							
	P6003-D15,00R	1	15	B	3	4							
	P6003-D15,09R	1	15,09	B	3	4							
	P6003-D15,20R	1	15,2	B	3	4							
	P6003-D15,30R	1	15,3	B	3	4							
	P6003-D15,40R	1	15,4	B	3	4							

Exemplo de pedido: P60.. -D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

→ boas = 

→ médias = 

→ desfavoráveis = 

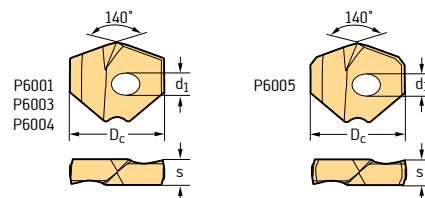
   / * = novo no programa

Insertos intercambiáveis

B 201

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

B1



Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	WPP	WM	WPP	WM	WKK	WM	WNN
P6003-D15,47R	1	15,47	B	3	4							
P6003-D15,50R	1	15,5	B	3	4							
P6003-D15,60R	1	15,6	B	3	4							
P6003-D15,70R	1	15,7	B	3	4							
P6003-D15,80R	1	15,8	B	3	4							
P6003-D15,87R	1	15,87	B	3	4							
P6003-D16,00R	1	16	C	4	4,5							
P6003-D16,13R	1	16,13	C	4	4,5							
P6003-D16,26R	1	16,26	C	4	4,5							
P6003-D16,43R	1	16,43	C	4	4,5							
P6003-D16,50R	1	16,5	C	4	4,5							
P6003-D16,66R	1	16,66	C	4	4,5							
P6003-D16,70R	1	16,7	C	4	4,5							
P6003-D17,00R	1	17	C	4	4,5							
P6003-D17,07R	1	17,07	C	4	4,5							
P6003-D17,20R	1	17,2	C	4	4,5							
P6003-D17,45R	1	17,45	C	4	4,5							
P6003-D17,50R	1	17,5	C	4	4,5							
P6003-D17,70R	1	17,7	C	4	4,5							
P6003-D17,86R	1	17,86	C	4	4,5							
P6003-D18,00R	1	18	D	4	5							
P6003-D18,24R	1	18,24	D	4	5							
P6003-D18,50R	1	18,5	D	4	5							
P6003-D18,65R	1	18,65	D	4	5							
P6003-D18,70R	1	18,7	D	4	5							
P6003-D18,80R	1	18,8	D	4	5							
P6003-D19,00R	1	19	D	4	5							
P6003-D19,05R	1	19,05	D	4	5							
P6003-D19,20R	1	19,2	D	4	5							
P6003-D19,25R	1	19,25	D	4	5							
P6003-D19,30R	1	19,3	D	4	5							
P6003-D19,43R	1	19,43	D	4	5							
P6003-D19,50R	1	19,5	D	4	5							
P6003-D19,60R	1	19,6	D	4	5							
P6003-D19,70R	1	19,7	D	4	5							
P6003-D19,84R	1	19,84	D	4	5							
P6003-D20,00R	1	20	E	5	5,5							
P6003-D20,20R	1	20,2	E	5	5,5							
P6003-D20,24R	1	20,24	E	5	5,5							
P6003-D20,50R	1	20,5	E	5	5,5							
P6003-D20,62R	1	20,62	E	5	5,5							
P6003-D20,70R	1	20,7	E	5	5,5							
P6003-D21,00R	1	21	E	5	5,5							

Exemplo de pedido: P60...-D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

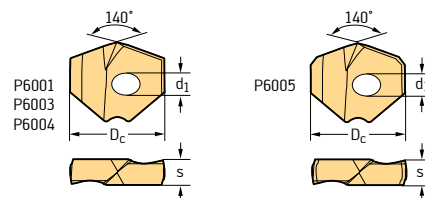
→ boas = 😊

→ médias = 😐

→ desfavoráveis = ☹️

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P	M	K	N	S
						HC	HC	HC	HC	HC
						WPP25 WMP35 WPP45C	WMP35 WMP35 WMP35	WMP35 WMP35 WMP35	WMP35 WMP35 WMP35	WMP35 WMP35 WMP35
	P6003-D21,41R	1	21,41	E	5	5,5	✖	✖	✖	✖
	P6003-D21,50R	1	21,5	E	5	5,5	✖	✖	✖	✖
	P6003-D21,70R	1	21,7	E	5	5,5	✖	✖	✖	✖
	P6003-D21,83R	1	21,83	E	5	5,5	✖	✖	✖	✖
	P6003-D22,00R	1	22	F	5	6	✖	✖	✖	✖
	P6003-D22,22R	1	22,22	F	5	6	✖	✖	✖	✖
	P6003-D22,42R	1	22,42	F	5	6	✖	✖	✖	✖
	P6003-D22,47R	1	22,47	F	5	6	✖	✖	✖	✖
	P6003-D22,50R	1	22,5	F	5	6	✖	✖	✖	✖
	P6003-D22,62R	1	22,62	F	5	6	✖	✖	✖	✖
	P6003-D22,70R	1	22,7	F	5	6	✖	✖	✖	✖
	P6003-D22,77R	1	22,77	F	5	6	✖	✖	✖	✖
	P6003-D23,00R	1	23	F	5	6	✖	✖	✖	✖
	P6003-D23,39R	1	23,39	F	5	6	✖	✖	✖	✖
	P6003-D23,50R	1	23,5	F	5	6	✖	✖	✖	✖
	P6003-D23,70R	1	23,7	F	5	6	✖	✖	✖	✖
	P6003-D23,80R	1	23,8	F	5	6	✖	✖	✖	✖
	P6003-D24,00R	1	24	G	5	6,5	✖	✖	✖	✖
	P6003-D24,21R	1	24,21	G	5	6,5	✖	✖	✖	✖
	P6003-D24,50R	1	24,5	G	5	6,5	✖	✖	✖	✖
	P6003-D24,59R	1	24,59	G	5	6,5	✖	✖	✖	✖
	P6003-D24,70R	1	24,7	G	5	6,5	✖	✖	✖	✖
	P6003-D25,00R	1	25	G	5	6,5	✖	✖	✖	✖
	P6003-D25,25R	1	25,25	G	5	6,5	✖	✖	✖	✖
	P6003-D25,40R	1	25,4	G	5	6,5	✖	✖	✖	✖
	P6003-D25,50R	1	25,5	G	5	6,5	✖	✖	✖	✖
	P6003-D25,65R	1	25,65	G	5	6,5	✖	✖	✖	✖
	P6003-D25,70R	1	25,7	G	5	6,5	✖	✖	✖	✖
	P6003-D25,80R	1	25,8	G	5	6,5	✖	✖	✖	✖
	P6003-D26,00R	1	26	H	6	7,1	✖	✖	✖	✖
	P6003-D26,25R	1	26,25	H	6	7,1	✖	✖	✖	✖
	P6003-D26,50R	1	26,5	H	6	7,1	✖	✖	✖	✖
	P6003-D26,59R	1	26,59	H	6	7,1	✖	✖	✖	✖
	P6003-D27,00R	1	27	H	6	7,1	✖	✖	✖	✖
	P6003-D27,38R	1	27,38	H	6	7,1	✖	✖	✖	✖
	P6003-D27,50R	1	27,5	H	6	7,1	✖	✖	✖	✖
	P6003-D27,78R	1	27,78	H	6	7,1	✖	✖	✖	✖
	P6003-D28,00R	1	28	J	6	7,7	✖	✖	✖	✖
	P6003-D28,17R	1	28,17	J	6	7,7	✖	✖	✖	✖
	P6003-D28,50R	1	28,5	J	6	7,7	✖	✖	✖	✖
	P6003-D28,57R	1	28,57	J	6	7,7	✖	✖	✖	✖
	P6003-D29,00R	1	29	J	6	7,7	✖	✖	✖	✖
	P6003-D29,37R	1	29,37	J	6	7,7	✖	✖	✖	✖

Exemplo de pedido: P60.. -D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹

☹ ☹ ☹ / ★ = novo no programa

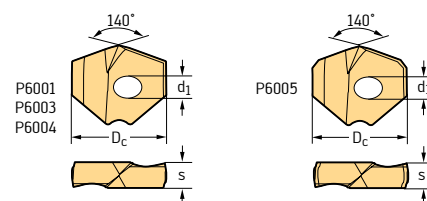
Insertos intercambiáveis

B 203

B1

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

B1

	Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P			M	K	N	S
							HC			HC	HC	HC	HC
							WPP25	WMP35	WPP45C	WMP35	WKK45C	WNN25	WMP35
	P6003-D29,50R	1	29,5	J	6	7,7		☑	☑	☑			☑
	P6003-D29,77R	1	29,77	J	6	7,7		☑	☑	☑			☑
	P6003-D30,00R	1	30	K	6	8		☑	☑	☑			☑
	P6003-D30,15R	1	30,15	K	6	8		☑	☑	☑			☑
	P6003-D30,50R	1	30,5	K	6	8		☑	☑	☑			☑
	P6003-D31,00R	1	31	K	6	8		☑	☑	☑			☑
	P6003-D31,50R	1	31,5	K	6	8		☑	☑	☑			☑
	P6003-D31,75R	1	31,75	K	6	8		☑	☑	☑			☑
	P6003-D31,99R	1	31,99	K	6	8		☑	☑	☑			☑
	P6003-D32,00R	1	32	M	6	8,3		☑	☑	☑			☑
	P6003-D32,10R	1	32,1	M	6	8,3		☑	☑	☑			☑
	P6003-D33,00R	1	33	M	6	8,3		☑	☑	☑			☑
	P6003-D34,00R	1	34	N	6	8,6		☑	☑	☑			☑
	P6003-D35,00R	1	35	N	6	8,6		☑	☑	☑			☑
	P6003-D36,00R	1	36	P	6	8,9		☑	☑	☑			☑
P6003-D37,00R	1	37	P	6	8,9		☑	☑	☑			☑	
P6003-D37,99R	1	37,99	P	6	8,9		☑	☑	☑			☑	
	P6004-D12,00R	1	12	A	3	3,6							☑
	P6004-D12,50R	1	12,5	A	3	3,6							☑
	P6004-D13,00R	1	13	A	3	3,6							☑
	P6004-D13,50R	1	13,5	A	3	3,6							☑
	P6004-D14,00R	1	14	B	3	4							☑
	P6004-D14,50R	1	14,5	B	3	4							☑
	P6004-D14,80R	1	14,8	B	3	4							☑
	P6004-D15,00R	1	15	B	3	4							☑
	P6004-D15,50R	1	15,5	B	3	4							☑
	P6004-D16,00R	1	16	C	4	4,5							☑
	P6004-D16,50R	1	16,5	C	4	4,5							☑
	P6004-D16,66R	1	16,66	C	4	4,5							☑
	P6004-D17,00R	1	17	C	4	4,5							☑
	P6004-D17,50R	1	17,5	C	4	4,5							☑
	P6004-D17,70R	1	17,7	C	4	4,5							☑
	P6004-D18,00R	1	18	D	4	5							☑
	P6004-D18,50R	1	18,5	D	4	5							☑
	P6004-D18,65R	1	18,65	D	4	5							☑
	P6004-D19,00R	1	19	D	4	5							☑
	P6004-D19,50R	1	19,5	D	4	5							☑
	P6004-D19,70R	1	19,7	D	4	5							☑
	P6004-D19,84R	1	19,84	D	4	5							☑
	P6004-D20,00R	1	20	E	5	5,5							☑
	P6004-D20,50R	1	20,5	E	5	5,5							☑
	P6004-D21,00R	1	21	E	5	5,5							☑
	P6004-D21,50R	1	21,5	E	5	5,5							☑

Exemplo de pedido: P60...-D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

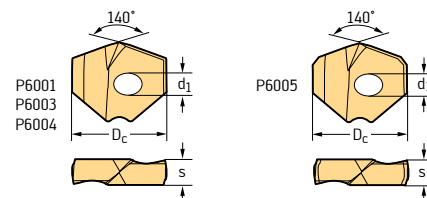
→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

	Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P		M	K	N	S
							WPP25	HC	WMP35	HC	WMP35	HC
	P6004-D21,70R	1	21,7	E	5	5,5						
	P6004-D22,00R	1	22	F	5	6						
	P6004-D22,50R	1	22,5	F	5	6						
	P6004-D23,00R	1	23	F	5	6						
	P6004-D23,50R	1	23,5	F	5	6						
	P6004-D24,00R	1	24	G	5	6,5						
	P6004-D24,50R	1	24,5	G	5	6,5						
	P6004-D25,00R	1	25	G	5	6,5						
	P6004-D25,50R	1	25,5	G	5	6,5						
	P6004-D26,00R	1	26	H	6	7,1						
	P6004-D26,50R	1	26,5	H	6	7,1						
	P6004-D27,00R	1	27	H	6	7,1						
	P6004-D27,50R	1	27,5	H	6	7,1						
	P6004-D28,00R	1	28	J	6	7,7						
	P6004-D28,50R	1	28,5	J	6	7,7						
	P6004-D29,00R	1	29	J	6	7,7						
	P6004-D29,50R	1	29,5	J	6	7,7						
	P6004-D30,00R	1	30	K	6	8						
	P6005-D12,00R	1	12	A	3	3,6						
	P6005-D12,10R	1	12,1	A	3	3,6						
	P6005-D12,20R	1	12,2	A	3	3,6						
	P6005-D12,30R	1	12,3	A	3	3,6						
	P6005-D12,40R	1	12,4	A	3	3,6						
	P6005-D12,50R	1	12,5	A	3	3,6						
	P6005-D12,60R	1	12,6	A	3	3,6						
	P6005-D12,70R	1	12,7	A	3	3,6						
	P6005-D12,80R	1	12,8	A	3	3,6						
	P6005-D12,90R	1	12,9	A	3	3,6						
	P6005-D12,95R	1	12,95	A	3	3,6						
	P6005-D13,00R	1	13	A	3	3,6						
	P6005-D13,10R	1	13,1	A	3	3,6						
	P6005-D13,20R	1	13,2	A	3	3,6						
	P6005-D13,25R	1	13,25	A	3	3,6						
	P6005-D13,30R	1	13,3	A	3	3,6						
	P6005-D13,40R	1	13,4	A	3	3,6						
	P6005-D13,49R	1	13,49	A	3	3,6						
	P6005-D13,50R	1	13,5	A	3	3,6						
	P6005-D13,60R	1	13,6	A	3	3,6						
	P6005-D13,70R	1	13,7	A	3	3,6						
	P6005-D13,80R	1	13,8	A	3	3,6						

Exemplo de pedido: P60.. -D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹

☹ ☹ ☹ / ★ = novo no programa

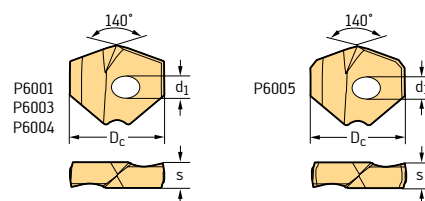
Insertos intercambiáveis

B 205

B1

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

B1

Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P			M	K	N	S
						HC			HC	HC	HC	HC
						WPP25	WMP35	WPP45C	WMP35	WKK45C	WNN25	WMP35
	P6005-D13,90R	1	13,9	A	3	3,6						
	P6005-D14,00R	1	14	B	3	4						
	P6005-D14,10R	1	14,1	B	3	4						
	P6005-D14,20R	1	14,2	B	3	4						
	P6005-D14,29R	1	14,29	B	3	4						
	P6005-D14,30R	1	14,3	B	3	4						
	P6005-D14,40R	1	14,4	B	3	4						
	P6005-D14,50R	1	14,5	B	3	4						
	P6005-D14,60R	1	14,6	B	3	4						
	P6005-D14,68R	1	14,68	B	3	4						
	P6005-D14,70R	1	14,7	B	3	4						
	P6005-D14,80R	1	14,8	B	3	4						
	P6005-D14,90R	1	14,9	B	3	4						
	P6005-D15,00R	1	15	B	3	4						
	P6005-D15,08R	1	15,08	B	3	4						
	P6005-D15,09R	1	15,09	B	3	4						
	P6005-D15,10R	1	15,1	B	3	4						
	P6005-D15,20R	1	15,2	B	3	4						
	P6005-D15,30R	1	15,3	B	3	4						
	P6005-D15,40R	1	15,4	B	3	4						
	P6005-D15,50R	1	15,5	B	3	4						
	P6005-D15,60R	1	15,6	B	3	4						
	P6005-D15,70R	1	15,7	B	3	4						
	P6005-D15,80R	1	15,8	B	3	4						
	P6005-D15,88R	1	15,88	B	3	4						
	P6005-D15,90R	1	15,9	B	3	4						
	P6005-D16,00R	1	16	C	4	4,5						
	P6005-D16,13R	1	16,13	C	4	4,5						
	P6005-D16,26R	1	16,26	C	4	4,5						
	P6005-D16,27R	1	16,27	C	4	4,5						
	P6005-D16,43R	1	16,43	C	4	4,5						
	P6005-D16,50R	1	16,5	C	4	4,5						
	P6005-D16,66R	1	16,66	C	4	4,5						
	P6005-D16,67R	1	16,67	C	4	4,5						
	P6005-D16,70R	1	16,7	C	4	4,5						
	P6005-D16,80R	1	16,8	C	4	4,5						
	P6005-D17,00R	1	17	C	4	4,5						
	P6005-D17,07R	1	17,07	C	4	4,5						
	P6005-D17,20R	1	17,2	C	4	4,5						
	P6005-D17,45R	1	17,45	C	4	4,5						
	P6005-D17,50R	1	17,5	C	4	4,5						
	P6005-D17,70R	1	17,7	C	4	4,5						
	P6005-D17,80R	1	17,8	C	4	4,5						

Exemplo de pedido: P60.. -D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

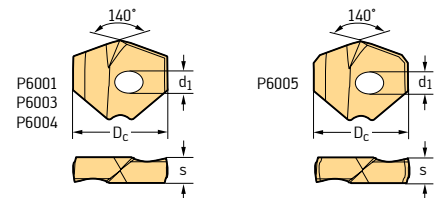
→ boas = 😊

→ médias = 😐

→ desfavoráveis = ☹️

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

	Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P			M	K	N	S
							HC			HC	HC	HC	HC
							WPP25	WMP35	WPP45C	WMP35	WKK45C	WNN25	WMP35
	P6005-D17,86R	1	17,86	C	4	4,5							
	P6005-D18,00R	1	18	D	4	5							
	P6005-D18,24R	1	18,24	D	4	5							
	P6005-D18,26R	1	18,26	D	4	5							
	P6005-D18,50R	1	18,5	D	4	5							
	P6005-D18,65R	1	18,65	D	4	5							
	P6005-D18,70R	1	18,7	D	4	5							
	P6005-D18,80R	1	18,8	D	4	5							
	P6005-D19,00R	1	19	D	4	5							
	P6005-D19,05R	1	19,05	D	4	5							
	P6005-D19,20R	1	19,2	D	4	5							
	P6005-D19,25R	1	19,25	D	4	5							
	P6005-D19,30R	1	19,3	D	4	5							
	P6005-D19,35R	1	19,35	D	4	5							
	P6005-D19,43R	1	19,43	D	4	5							
	P6005-D19,50R	1	19,5	D	4	5							
	P6005-D19,60R	1	19,6	D	4	5							
	P6005-D19,70R	1	19,7	D	4	5							
	P6005-D19,80R	1	19,8	D	4	5							
	P6005-D19,84R	1	19,84	D	4	5							
	P6005-D20,00R	1	20	E	5	5,5							
	P6005-D20,20R	1	20,2	E	5	5,5							
	P6005-D20,24R	1	20,24	E	5	5,5							
	P6005-D20,50R	1	20,5	E	5	5,5							
	P6005-D20,62R	1	20,62	E	5	5,5							
	P6005-D20,70R	1	20,7	E	5	5,5							
	P6005-D21,00R	1	21	E	5	5,5							
	P6005-D21,12R	1	21,12	E	5	5,5							
	P6005-D21,41R	1	21,41	E	5	5,5							
	P6005-D21,43R	1	21,43	E	5	5,5							
	P6005-D21,50R	1	21,5	E	5	5,5							
	P6005-D21,70R	1	21,7	E	5	5,5							
	P6005-D21,83R	1	21,83	E	5	5,5							
	P6005-D22,00R	1	22	F	5	6							
	P6005-D22,22R	1	22,22	F	5	6							
	P6005-D22,23R	1	22,23	F	5	6							
	P6005-D22,42R	1	22,42	F	5	6							
	P6005-D22,50R	1	22,5	F	5	6							
	P6005-D22,70R	1	22,7	F	5	6							
	P6005-D22,77R	1	22,77	F	5	6							
	P6005-D23,00R	1	23	F	5	6							
	P6005-D23,02R	1	23,02	F	5	6							
	P6005-D23,39R	1	23,39	F	5	6							

Exemplo de pedido: P60.. -D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹

☹ ☹ ☹ / * = novo no programa

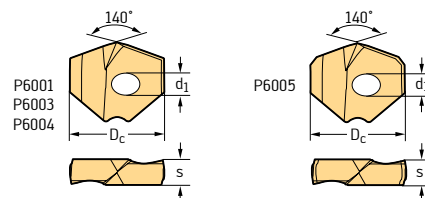
Insertos intercambiáveis

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B1

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

B1

	Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P			M	K	N	S
							HC			HC	HC	HC	HC
							WPP25	WMP35	WPP45C	WMP35	WKK45C	WNN25	WMP35
	P6005-D23,50R	1	23,5	F	5	6					✖		
	P6005-D23,70R	1	23,7	F	5	6					✖		
	P6005-D23,80R	1	23,8	F	5	6					✖		
	P6005-D23,81R	1	23,81	F	5	6					✖		
	P6005-D24,00R	1	24	G	5	6,5					✖		
	P6005-D24,21R	1	24,21	G	5	6,5					✖		
	P6005-D24,50R	1	24,5	G	5	6,5					✖		
	P6005-D24,59R	1	24,59	G	5	6,5					✖		
	P6005-D24,61R	1	24,61	G	5	6,5					✖		
	P6005-D24,70R	1	24,7	G	5	6,5					✖		
	P6005-D25,00R	1	25	G	5	6,5					✖		
	P6005-D25,25R	1	25,25	G	5	6,5					✖		
	P6005-D25,40R	1	25,4	G	5	6,5					✖		
	P6005-D25,50R	1	25,5	G	5	6,5					✖		
	P6005-D25,70R	1	25,7	G	5	6,5					✖		
	P6005-D25,80R	1	25,8	G	5	6,5					✖		
	P6005-D26,00R	1	26	H	6	7,1					✖		
	P6005-D26,25R	1	26,25	H	6	7,1					✖		
	P6005-D26,50R	1	26,5	H	6	7,1					✖		
	P6005-D26,59R	1	26,59	H	6	7,1					✖		
	P6005-D27,00R	1	27	H	6	7,1					✖		
	P6005-D27,50R	1	27,5	H	6	7,1					✖		
	P6005-D27,78R	1	27,78	H	6	7,1					✖		
	P6005-D28,00R	1	28	J	6	7,7					✖		
	P6005-D28,17R	1	28,17	J	6	7,7					✖		
	P6005-D28,50R	1	28,5	J	6	7,7					✖		
	P6005-D28,57R	1	28,57	J	6	7,7					✖		
	P6005-D29,00R	1	29	J	6	7,7					✖		
	P6005-D29,50R	1	29,5	J	6	7,7					✖		
	P6005-D29,77R	1	29,77	J	6	7,7					✖		
	P6005-D30,00R	1	30	K	6	8					✖		
	P6005-D30,15R	1	30,15	K	6	8					✖		
	P6005-D30,50R	1	30,5	K	6	8					✖		
	P6005-D31,00R	1	31	K	6	8					✖		
	P6005-D31,50R	1	31,5	K	6	8					✖		
	P6005-D31,75R	1	31,75	K	6	8					✖		
	P6005-D31,99R	1	31,99	K	6	8					✖		
	P6005-D32,00R	1	32	M	6	8,3					✖		
	P6005-D32,10R	1	32,1	M	6	8,3					✖		
	P6005-D33,00R	1	33	M	6	8,3					✖		
P6005-D34,00R	1	34	N	6	8,6					✖			
P6005-D35,00R	1	35	N	6	8,6					✖			
P6005-D36,00R	1	36	P	6	8,9					✖			

Exemplo de pedido: P60...-D13,00R está disponível como

HC = metal duro com revestimento

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

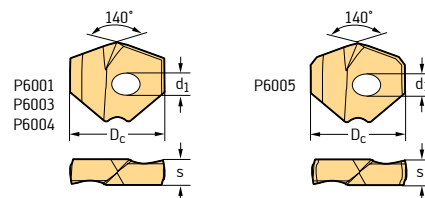
→ boas = 😊

→ médias = 😐

→ desfavoráveis = ☹️

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

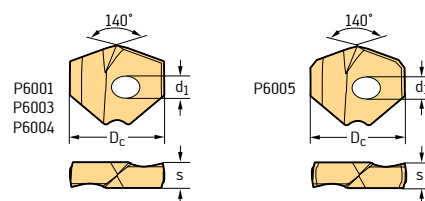
	Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P	M	K	N	S
							HC	HC	HC	HC	HC
							WPP25	WMP35	WPP45C	WMP35	WMP35
	P6005-D37,00R	1	37	P	6	8,9					
	P6005-D37,99R	1	37,99	P	6	8,9					

Exemplo de pedido: P60...-D13,00R está disponível como
 P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25
 P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como
 P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C
 Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

B1

P6001 / P6003 / P6004 / P6005 / P6006



	Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P			M	K	N	S
							HC			HC	HC	HC	HC
							WPP25	WMP35	WPP45C	WMP35	WKK45C	WNN25	WMP35
	P6006-D12,00R	1	12	A	3,4	3,6							
	P6006-D12,10R	1	12,1	A	3,4	3,6							
	P6006-D12,20R	1	12,2	A	3,4	3,6							
	P6006-D12,30R	1	12,3	A	3,4	3,6							
	P6006-D12,40R	1	12,4	A	3,4	3,6							
	P6006-D12,50R	1	12,5	A	3,4	3,6							
	P6006-D12,60R	1	12,6	A	3,4	3,6							
	P6006-D12,70R	1	12,7	A	3,4	3,6							
	P6006-D12,80R	1	12,8	A	3,4	3,6							
	P6006-D12,90R	1	12,9	A	3,4	3,6							
	P6006-D12,95R	1	12,95	A	3,4	3,6							
	P6006-D13,00R	1	13	A	3,4	3,6							
	P6006-D13,11R	1	13,11	A	3,4	3,6							
	P6006-D13,20R	1	13,2	A	3,4	3,6							
	P6006-D13,25R	1	13,25	A	3,4	3,6							
	P6006-D13,30R	1	13,3	A	3,4	3,6							
	P6006-D13,35R	1	13,35	A	3,4	3,6							
	P6006-D13,40R	1	13,4	A	3,4	3,6							
	P6006-D13,45R	1	13,45	A	3,4	3,6							
	P6006-D13,50R	1	13,5	A	3,4	3,6							
	P6006-D13,60R	1	13,6	A	3,4	3,6							
	P6006-D13,70R	1	13,7	A	3,4	3,6							
	P6006-D13,80R	1	13,8	A	3,4	3,6							
	P6006-D13,89R	1	13,89	A	3,4	3,6							
	P6006-D14,00R	1	14	B	3,4	4							
	P6006-D14,10R	1	14,1	B	3,4	4							
	P6006-D14,20R	1	14,2	B	3,4	4							
	P6006-D14,30R	1	14,3	B	3,4	4							
	P6006-D14,40R	1	14,4	B	3,4	4							
	P6006-D14,50R	1	14,5	B	3,4	4							
	P6006-D14,60R	1	14,6	B	3,4	4							
	P6006-D14,68R	1	14,										

Exemplo de pedido: P60.. -D13,00R está disponível como
P6006 na classe WPP25 (ISO P, aço sem liga): P6006-D13,00R WPP25
P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como
P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C
Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

Inserto intercambiável ideal para condições de usinagem

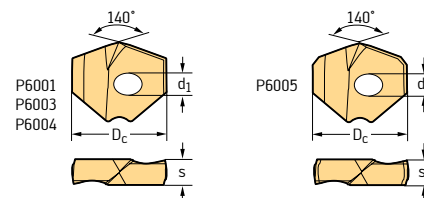
→ boas = 😊

→ médias =

→ desfavoráveis = 😡

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

	Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P		M		K		N		S	
							HC		HC		HC		HC		HC	
							WPP25	WMP35	WPP45C	WMP35	WKK45C	WNN25	WNN25	WMP35	WMP35	WMP35
	P6006-D15,50R	1	15,5	B	3,4	4	☺									
	P6006-D15,60R	1	15,6	B	3,4	4	☺									
	P6006-D15,70R	1	15,7	B	3,4	4	☺									
	P6006-D15,80R	1	15,8	B	3,4	4	☺									
	P6006-D15,87R	1	15,87	B	3,4	4	☺									
	P6006-D16,00R	1	16	C	4,4	4,5	☺									
	P6006-D16,13R	1	16,13	C	4,4	4,5	☺									
	P6006-D16,26R	1	16,26	C	4,4	4,5	☺									
	P6006-D16,43R	1	16,43	C	4,4	4,5	☺									
	P6006-D16,50R	1	16,5	C	4,4	4,5	☺									
	P6006-D16,66R	1	16,66	C	4,4	4,5	☺									
	P6006-D16,70R	1	16,7	C	4,4	4,5	☺									
	P6006-D16,85R	1	16,85	C	4,4	4,5	☺									
	P6006-D17,00R	1	17	C	4,4	4,5	☺									
	P6006-D17,07R	1	17,07	C	4,4	4,5	☺									
	P6006-D17,20R	1	17,2	C	4,4	4,5	☺									
	P6006-D17,35R	1	17,35	C	4,4	4,5	☺									
	P6006-D17,45R	1	17,45	C	4,4	4,5	☺									
	P6006-D17,50R	1	17,5	C	4,4	4,5	☺									
	P6006-D17,60R	1	17,6	C	4,4	4,5	☺									
	P6006-D17,70R	1	17,7	C	4,4	4,5	☺									
	P6006-D17,86R	1	17,86	C	4,4	4,5	☺									
	P6006-D18,00R	1	18	D	4,4	5	☺									
	P6006-D18,24R	1	18,24	D	4,4	5	☺									
	P6006-D18,50R	1	18,5	D	4,4	5	☺									
	P6006-D18,65R	1	18,65	D	4,4	5	☺									
	P6006-D18,70R	1	18,7	D	4,4	5	☺									
	P6006-D18,80R	1	18,8	D	4,4	5	☺									
	P6006-D19,00R	1	19	D	4,4	5	☺									
	P6006-D19,05R	1	19,05	D	4,4	5	☺									
	P6006-D19,10R	1	19,1	D	4,4	5	☺									
	P6006-D19,20R	1	19,2	D	4,4	5	☺									
	P6006-D19,25R	1	19,25	D	4,4	5	☺									
	P6006-D19,30R	1	19,3	D	4,4	5	☺									
	P6006-D19,35R	1	19,35	D	4,4	5	☺									
	P6006-D19,43R	1	19,43	D	4,4	5	☺									
	P6006-D19,50R	1	19,5	D	4,4	5	☺									
	P6006-D19,60R	1	19,6	D	4,4	5	☺									
	P6006-D19,70R	1	19,7	D	4,4	5	☺									
	P6006-D19,84R	1	19,84	D	4,4	5	☺									
	P6006-D20,00R	1	20	E	5,4	5,5	☺									
	P6006-D20,20R	1	20,2	E	5,4	5,5	☺									
	P6006-D20,24R	1	20,24	E	5,4	5,5	☺									

Exemplo de pedido: P60.. -D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹☹

☹ ☹ ☹ / * = novo no programa

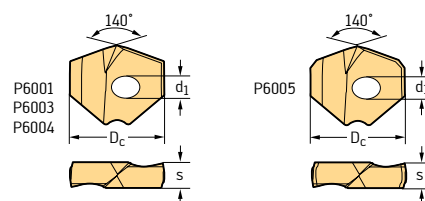
Insertos intercambiáveis

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Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

B1

Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P		M		K		N		S	
						HC		HC		HC		HC		HC	
						WPP25	WMP35	WPP45C	WMP35	WKK45C	WNN25	WMP35	WMP35	WMP35	WMP35
 P6006-D20,50R	1	20,5	E	5,4	5,5	☺									
P6006-D20,62R	1	20,62	E	5,4	5,5	☺									
P6006-D20,70R	1	20,7	E	5,4	5,5	☺									
P6006-D20,85R	1	20,85	E	5,4	5,5	☺									
P6006-D21,00R	1	21	E	5,4	5,5	☺									
P6006-D21,41R	1	21,41	E	5,4	5,5	☺									
P6006-D21,50R	1	21,5	E	5,4	5,5	☺									
P6006-D21,70R	1	21,7	E	5,4	5,5	☺									
P6006-D21,83R	1	21,83	E	5,4	5,5	☺									
P6006-D22,00R	1	22	F	5,4	6	☺									
P6006-D22,22R	1	22,22	F	5,4	6	☺									
P6006-D22,42R	1	22,42	F	5,4	6	☺									
P6006-D22,47R	1	22,47	F	5,4	6	☺									
P6006-D22,50R	1	22,5	F	5,4	6	☺									
P6006-D22,60R	1	22,6	F	5,4	6	☺									
P6006-D22,62R	1	22,62	F	5,4	6	☺									
P6006-D22,70R	1	22,7	F	5,4	6	☺									
P6006-D22,77R	1	22,77	F	5,4	6	☺									
P6006-D23,00R	1	23	F	5,4	6	☺									
P6006-D23,10R	1	23,1	F	5,4	6	☺									
P6006-D23,39R	1	23,39	F	5,4	6	☺									
P6006-D23,50R	1	23,5	F	5,4	6	☺									
P6006-D23,70R	1	23,7	F	5,4	6	☺									
P6006-D23,80R	1	23,8	F	5,4	6	☺									
P6006-D24,00R	1	24	G	5,4	6,5	☺									
P6006-D24,21R	1	24,21	G	5,4	6,5	☺									
P6006-D24,50R	1	24,5	G	5,4	6,5	☺									
P6006-D24,59R	1	24,59	G	5,4	6,5	☺									
P6006-D24,70R	1	24,7	G	5,4	6,5	☺									
P6006-D25,00R	1	25	G	5,4	6,5	☺									
P6006-D25,25R	1	25,25	G	5,4	6,5	☺									
P6006-D25,40R	1	25,4	G	5,4	6,5	☺									
P6006-D25,50R	1	25,5	G	5,4	6,5	☺									
P6006-D25,60R	1	25,6	G	5,4	6,5	☺									
P6006-D25,65R	1	25,65	G	5,4	6,5	☺									
P6006-D25,70R	1	25,7	G	5,4	6,5	☺									
P6006-D25,80R	1	25,8	G	5,4	6,5	☺									
P6006-D26,00R	1	26	H	6,4	7,1	☺									
P6006-D26,25R	1	26,25	H	6,4	7,1	☺									
P6006-D26,50R	1	26,5	H	6,4	7,1	☺									
P6006-D26,59R	1	26,59	H	6,4	7,1	☺									
P6006-D27,00R	1	27	H	6,4	7,1	☺									
P6006-D27,38R	1	27,38	H	6,4	7,1	☺									

Exemplo de pedido: P60.. -D13,00R está disponível como

P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25

P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como

P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C

Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

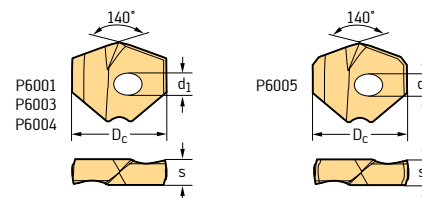
→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹

Insertos intercambiáveis

P6001 / P6003 / P6004 / P6005 / P6006



Pastilhas intercambiáveis

	Denominação	Quantidade de arestas de corte	D _c mm	Tamanhos do assento	d ₁ mm	s mm	P		M	K	N	S
							WPP25	HC	WMP35	WPP45C	WMP35	WMP35
	P6006-D27,50R	1	27,5	H	6,4	7,1	☺					
	P6006-D27,78R	1	27,78	H	6,4	7,1	☺					
	P6006-D28,00R	1	28	J	6,4	7,7	☺					
	P6006-D28,17R	1	28,17	J	6,4	7,7	☺					
	P6006-D28,35R	1	28,35	J	6,4	7,7	☺					
	P6006-D28,50R	1	28,5	J	6,4	7,7	☺					
	P6006-D28,57R	1	28,57	J	6,4	7,7	☺					
	P6006-D29,00R	1	29	J	6,4	7,7	☺					
	P6006-D29,10R	1	29,1	J	6,4	7,7	☺					
	P6006-D29,37R	1	29,37	J	6,4	7,7	☺					
	P6006-D29,50R	1	29,5	J	6,4	7,7	☺					
	P6006-D29,77R	1	29,77	J	6,4	7,7	☺					
	P6006-D30,00R	1	30	K	6,4	8	☺					
	P6006-D30,15R	1	30,15	K	6,4	8	☺					
	P6006-D30,50R	1	30,5	K	6,4	8	☺					
	P6006-D31,00R	1	31	K	6,4	8	☺					
	P6006-D31,35R	1	31,35	K	6,4	8	☺					
	P6006-D31,50R	1	31,5	K	6,4	8	☺					
	P6006-D31,75R	1	31,75	K	6,4	8	☺					
	P6006-D31,99R	1	31,99	K	6,4	8	☺					
	P6006-D32,00R	1	32	M	6,4	8,3	☺					
	P6006-D32,10R	1	32,1	M	6,4	8,3	☺					
	P6006-D33,00R	1	33	M	6,4	8,3	☺					
	P6006-D34,00R	1	34	N	6,4	8,6	☺					
	P6006-D34,10R	1	34,1	N	6,4	8,6	☺					
	P6006-D34,60R	1	34,6	N	6,4	8,6	☺					
	P6006-D35,00R	1	35	N	6,4	8,6	☺					
	P6006-D36,00R	1	36	P	6,4	8,9	☺					
	P6006-D37,00R	1	37	P	6,4	8,9	☺					
	P6006-D37,99R	1	37,99	P	6,4	8,9	☺					

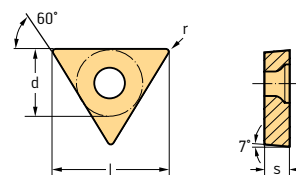
Exemplo de pedido: P60...-D13,00R está disponível como
 P6006 na classe WPP25 (ISO P, aços sem liga): P6006-D13,00R WPP25
 P6003 na classe WMP35 (ISO P, ISO M e ISO S): P6003-D13,00R WMP35 ou como
 P6001 na classe WPP45C (ISO P): P6001-D13,00R WPP45C
 Exemplo de pedido para a classe WPP45C: P6001-D12,00R WPP45C

HC = metal duro com revestimento

B1

Pastilhas para torneamento Triangular positivo 60°

TCMT / TCMW



Insertos intercambiáveis

B1

	Denominação	l mm	r mm	P						M				K			S			
				HC					HE	HC				HC			HC			
				WKP01G	WPP10G	WPP20G	WMP20S	WPP30G	WEP10C	WSM10S	WMP20S	WSM20S	WSM21	WSM30S	WKP01G	WKK10S	WKK20S	WSM10S	WSM20S	WSM21
	TCMT110204-FK6	11	0,4												☺	☺				
	TCMT110208-FK6	11	0,8												☺	☺	☺			
	TCMT16T304-FK6	16,5	0,4												☺	☺				
	TCMT16T308-FK6	16,5	0,8													☺				
	TCMT06T102-FM4	6,87	0,2										☺							☺
	TCMT06T104-FM4	6,87	0,4										☺							☺
	TCMT090202-FM4	9,62	0,2								☺		☺					☺	☺	
	TCMT090204-FM4	9,62	0,4								☺		☺					☺	☺	
	TCMT090208-FM4	9,62	0,8								☺		☺					☺	☺	
	TCMT110202-FM4	11	0,2								☺		☺					☺	☺	☺
	TCMT110204-FM4	11	0,4				☺				☺	☺	☺					☺	☺	☺
	TCMT110208-FM4	11	0,8				☺				☺	☺	☺					☺	☺	☺
	TCMT16T302-FM4	16,5	0,2										☺					☺	☺	
	TCMT16T304-FM4	16,5	0,4				☺				☺	☺	☺					☺	☺	☺
	TCMT16T308-FM4	16,5	0,8				☺				☺	☺	☺					☺	☺	☺
		TCMT06T102-FP4	6,87	0,2			☺													
TCMT06T104-FP4		6,87	0,4			☺			☺											
TCMT090202-FP4		9,62	0,2			☺														
TCMT090204-FP4		9,62	0,4	☺	☺	☺			☺					☺						
TCMT090208-FP4		9,62	0,8			☺														
TCMT110202-FP4		11	0,2			☺	☺													
TCMT110204-FP4		11	0,4	☺	☺	☺			☺					☺						
TCMT110208-FP4		11	0,8			☺	☺													
TCMT16T302-FP4		16,5	0,2			☺														
TCMT16T304-FP4		16,5	0,4	☺	☺	☺									☺					
TCMT16T308-FP4	16,5	0,8		☺	☺			☺												
	TCMT110204-FP6	11	0,4			☺														
	TCMT110208-FP6	11	0,8			☺														
	TCMT16T304-FP6	16,5	0,4			☺														
	TCMT16T308-FP6	16,5	0,8			☺														
	TCMT090204-MK4	9,62	0,4												☺	☺				
	TCMT090208-MK4	9,62	0,8													☺	☺			
	TCMT110204-MK4	11	0,4												☺	☺				
	TCMT110208-MK4	11	0,8												☺	☺				
	TCMT16T304-MK4	16,5	0,4												☺	☺				
	TCMT16T308-MK4	16,5	0,8												☺	☺				
	TCMT090204-MM4	9,62	0,4							☺		☺						☺	☺	
	TCMT090208-MM4	9,62	0,8									☺						☺	☺	
	TCMT110204-MM4	11	0,4									☺						☺	☺	
	TCMT110208-MM4	11	0,8									☺						☺	☺	
	TCMT16T304-MM4	16,5	0,4				☺			☺	☺	☺						☺	☺	
	TCMT16T308-MM4	16,5	0,8				☺			☺	☺	☺						☺	☺	

Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WKK10S: TCMT110204-FK6 WKK10S

HC = metal duro com revestimento

HE = Cermet revestido

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

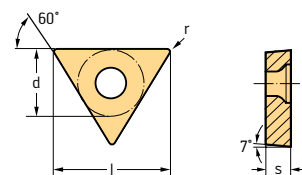
→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹☹

Pastilhas para torneamento Triangular positivo 60°

TCMT / TCMW



B1

Insertos intercambiáveis

Denominação	l mm	r mm	P				M				K			S		
			HC		HE		HC				HC			HC		
			WKP01G	WPP10G			WPP20G	WMP20S			WKP01G	WKK10S	WKK20S	WSM10S	WSM20S	WSM30S
 TCMT090204-MP4	9,62	0,4														
TCMT090208-MP4	9,62	0,8														
TCMT110204-MP4	11	0,4														
TCMT110208-MP4	11	0,8														
TCMT16T304-MP4	16,5	0,4														
TCMT16T308-MP4	16,5	0,8														
TCMT220408-MP4	22	0,8														
 TCMT090204-RK4	9,62	0,4														
TCMT090208-RK4	9,62	0,8														
TCMT110204-RK4	11	0,4														
TCMT110208-RK4	11	0,8														
TCMT16T304-RK4	16,5	0,4														
TCMT16T308-RK4	16,5	0,8														
TCMT16T312-RK4	16,5	1,2														
 TCMT090204-RM4	9,62	0,4														
TCMT090208-RM4	9,62	0,8														
TCMT110204-RM4	11	0,4														
TCMT110208-RM4	11	0,8														
TCMT16T304-RM4	16,5	0,4														
TCMT16T308-RM4	16,5	0,8														
TCMT16T312-RM4	16,5	1,2														
 TCMT090204-RP4	9,62	0,4														
TCMT090208-RP4	9,62	0,8														
TCMT110204-RP4	11	0,4														
TCMT110208-RP4	11	0,8														
TCMT16T304-RP4	16,5	0,4														
TCMT16T308-RP4	16,5	0,8														
TCMT16T312-RP4	16,5	1,2														
 TCMW110204-RK6	11	0,4														
TCMW110208-RK6	11	0,8														
TCMW16T304-RK6	16,5	0,4														
TCMW16T308-RK6	16,5	0,8														

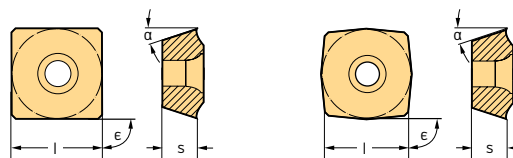
Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WKK10S: TCMT110204-FK6 WKK10S

HC = metal duro com revestimento

HE = Cermet revestido

Quadrado P284..



Insertos intercambiáveis

B1

	Denominação	Quantidade de arestas de corte	l mm	s mm	α	ε	Tamanho	P				M		K		N		S
								HC				HC		HC		HC		
								WKP25S	WKP35S	WXP40	WSP45G	WXP40	WSP45G	WKP25S	WKP35S	WNN15	WNN15	
	P2840S-1N-A57	4	6,35	2,4	14°	90°	1	☹	☹		☹	☹	☹	☹			☹	
	P2840S-2N-A57	4	7,8	3,2	14°	90°	02	☹	☹		☹	☹	☹	☹			☹	
	P2840S-3N-A57	4	9,52	4	11°	96°	03	☹	☹		☹	☹	☹	☹			☹	
	P2840S-4N-A57	4	11	4	11°	96°	4	☹	☹		☹	☹	☹	☹			☹	
	P2840S-5N-A57	4	12,7	4,8	11°	96°	5	☹	☹		☹	☹	☹	☹			☹	
	P2840S-6N-A57	4	15	4,8	11°	96°	6		☹		☹	☹	☹	☹			☹	
	P2840S-7N-A57	4	17,6	5,6	11°	96°	7		☹		☹	☹	☹	☹			☹	
	P2840S-1N-E67	4	6,35	2,4	14°	90°	1		☹		☹	☹	☹	☹			☹	
	P2840S-2N-E67	4	7,8	3,2	14°	90°	02		☹		☹	☹	☹	☹			☹	
	P2840S-3N-E67	4	9,52	4	11°	96°	03		☹		☹	☹	☹	☹			☹	
	P2840S-4N-E67	4	11	4	11°	96°	4		☹		☹	☹	☹	☹			☹	
	P2840S-5N-E67	4	12,7	4,8	11°	96°	5		☹		☹	☹	☹	☹			☹	
	P2840S-6N-E67	4	15	4,8	11°	96°	6		☹		☹	☹	☹	☹			☹	
	P2840S-7N-E67	4	17,6	5,6	11°	96°	7		☹		☹	☹	☹	☹			☹	
	P2841S-1N-A57	4	6,35	2,4	14°	90°	1	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-2N-A57	4	7,8	3,2	14°	90°	02	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-3N-A57	4	9,52	4	11°	96°	03	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-4N-A57	4	11	4	11°	96°	4	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-5N-A57	4	12,7	4,8	11°	96°	5	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-6N-A57	4	15	4,8	11°	96°	6	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-7N-A57	4	17,6	5,6	11°	96°	7	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-1N-E57	4	6,35	2,4	14°	90°	1	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-2N-E57	4	7,8	3,2	14°	90°	02	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-3N-E57	4	9,52	4	11°	96°	03	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-4N-E57	4	11	4	11°	96°	4	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-5N-E57	4	12,7	4,8	11°	96°	5	☹	☹	☹	☹	☹	☹	☹			☹	
	P2841S-6N-E57	4	15	4,8	11°	96°	6		☹	☹	☹	☹	☹	☹			☹	
	P2841S-7N-E57	4	17,6	5,6	11°	96°	7		☹	☹	☹	☹	☹	☹			☹	
	P2841S-1N-E67	4	6,35	2,4	14°	90°	1		☹	☹	☹	☹	☹	☹			☹	
	P2841S-2N-E67	4	7,8	3,2	14°	90°	02		☹	☹	☹	☹	☹	☹			☹	
	P2841S-3N-E67	4	9,52	4	11°	96°	03		☹	☹	☹	☹	☹	☹			☹	
	P2841S-4N-E67	4	11	4	11°	96°	4		☹	☹	☹	☹	☹	☹			☹	
	P2841S-5N-E67	4	12,7	4,8	11°	96°	5		☹	☹	☹	☹	☹	☹			☹	
	P2841S-6N-E67	4	15	4,8	11°	96°	6		☹	☹	☹	☹	☹	☹			☹	
	P2841S-7N-E67	4	17,6	5,6	11°	96°	7		☹	☹	☹	☹	☹	☹			☹	
	P2840S-1N-E77	4	6,35	2,4	14°	90°	1									☹	☹	
	P2840S-2N-E77	4	7,8	3,2	14°	90°	02									☹	☹	
	P2840S-3N-E77	4	9,52	4	11°	96°	03									☹	☹	
	P2840S-4N-E77	4	11	4	11°	96°	4									☹	☹	
	P2840S-5N-E77	4	12,7	4,8	11°	96°	5									☹	☹	
	P2840S-6N-E77	4	15	4,8	11°	96°	6									☹	☹	
	P2840S-7N-E77	4	17,6	5,6	11°	96°	7									☹	☹	

Exemplo de pedido para a classe WKP25S: P2840S-1N-A57 WKP25S

Exemplo de pedido para a classe WKP35S: P2840S-1N-A57 WKP35S

Exemplo de pedido para a classe WSP45G: P2840S-1N-A57 WSP45G

HC = metal duro com revestimento

HW = Metal duro não revestido

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

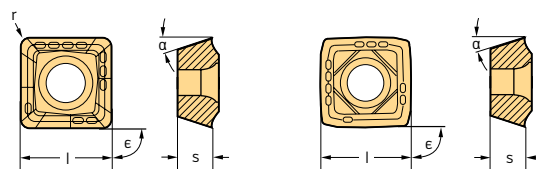
→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹

Quadrado

P484 .



Insertos intercambiáveis

Denominação	Quantidade de arestas de corte	l mm	s mm	r mm	α	ε	Tamanho	P		M	K	N		S
								HC	HC	HC	HC	HW	HC	
								WKP25S	WKP35S	WSP45G	WKP25S	WKP35S	WNN15	WNN15
 P484P-1R-A57	4	4,55	2	0,29	11°	90°	1							
P484P-2R-A57	4	5,52	2,3	0,34	11°	90°	02							
P484P-3R-A57	4	6,5	2,8	0,4	11°	90°	03							
P484P-4R-A57	4	7,8	3,4	0,48	11°	90°	4							
P484P-5R-A57	4	9,56	4,1	0,59	11°	90°	5							
P484P-6R-A57	4	11,75	4,9	0,7	11°	90°	6							
P484P-7R-A57	4	14,03	5,5	0,8	11°	90°	7							
P484P-8R-A57	4	16,5	5,5	1	11°	90°	8							
 P484P-1R-E57	4	4,55	2	0,29	11°	90°	1							
P484P-2R-E57	4	5,52	2,3	0,34	11°	90°	02							
P484P-3R-E57	4	6,5	2,8	0,4	11°	90°	03							
P484P-4R-E57	4	7,8	3,4	0,48	11°	90°	4							
P484P-5R-E57	4	9,56	4,1	0,59	11°	90°	5							
P484P-6R-E57	4	11,75	4,9	0,7	11°	90°	6							
P484P-7R-E57	4	14,03	5,5	0,8	11°	90°	7							
P484P-8R-E57	4	16,5	5,5	1	11°	90°	8							
 P484P-1R-E67	4	4,55	2	0,29	11°	90°	1							
P484P-2R-E67	4	5,52	2,3	0,34	11°	90°	02							
P484P-3R-E67	4	6,5	2,8	0,4	11°	90°	03							
P484P-4R-E67	4	7,8	3,4	0,48	11°	90°	4							
P484P-5R-E67	4	9,56	4,1	0,59	11°	90°	5							
P484P-6R-E67	4	11,75	4,9	0,7	11°	90°	6							
P484P-7R-E67	4	14,03	5,5	0,8	11°	90°	7							
P484P-8R-E67	4	16,5	5,5	1	11°	90°	8							
 P484P-1R-E77	4	4,55	2	0,29	11°	90°	1							
P484P-2R-E77	4	5,52	2,3	0,34	11°	90°	02							
P484P-3R-E77	4	6,5	2,8	0,4	11°	90°	03							
P484P-4R-E77	4	7,8	3,4	0,48	11°	90°	4							
P484P-5R-E77	4	9,56	4,1	0,59	11°	90°	5							
P484P-6R-E77	4	11,75	4,9	0,7	11°	90°	6							
P484P-7R-E77	4	14,03	5,5	0,8	11°	90°	7							
P484P-8R-E77	4	16,5	5,5	1	11°	90°	8							

Exemplo de pedido para a classe WKP25S: P484P-1R-A57 WKP25S

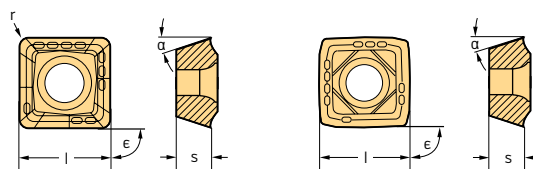
Exemplo de pedido para a classe WKP35S: P484P-1R-A57 WKP35S

Exemplo de pedido para a classe WSP45G: P484P-1R-A57 WSP45G

HC = metal duro com revestimento

HW = Metal duro não revestido

Quadrado P484 .



Insertos intercambiáveis

B1

	Denominação	Quantidade de arestas de corte	l mm	s mm	r mm	α	ε	Tamanho	P			M	K		N		S
									HC			HC	HC	HC	HW	HC	
									WKP25S	WKP35S	WSP45G	WSP45G	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4841P-1R-A57	4	4,55	2	0,29	11°	90°	1									
	P4841P-2R-A57	4	5,52	2,3	0,34	11°	90°	02									
	P4841P-3R-A57	4	6,5	2,8	0,4	11°	90°	03									
	P4841P-4R-A57	4	7,8	3,4	0,48	11°	90°	4									
	P4841P-5R-A57	4	9,56	4,1	0,59	11°	90°	5									
	P4841P-6R-A57	4	11,75	4,9	0,7	11°	90°	6									
	P4841P-7R-A57	4	14,03	5,5	0,8	11°	90°	7									
	P4841P-8R-A57	4	16,5	5,5	1	11°	90°	8									
	P4841P-1R-E57	4	4,55	2	0,29	11°	90°	1									
	P4841P-2R-E57	4	5,52	2,3	0,34	11°	90°	02									
	P4841P-3R-E57	4	6,5	2,8	0,4	11°	90°	03									
	P4841P-4R-E57	4	7,8	3,4	0,48	11°	90°	4									
	P4841P-5R-E57	4	9,56	4,1	0,59	11°	90°	5									
	P4841P-6R-E57	4	11,75	4,9	0,7	11°	90°	6									
	P4841P-7R-E57	4	14,03	5,5	0,8	11°	90°	7									
	P4841P-8R-E57	4	16,5	5,5	1	11°	90°	8									

Exemplo de pedido para a classe WKP25S: P4840P-1R-A57 WKP25S

Exemplo de pedido para a classe WKP35S: P4840P-1R-A57 WKP35S

Exemplo de pedido para a classe WSP45G: P4840P-1R-A57 WSP45G

HC = metal duro com revestimento

HW = Metal duro não revestido

Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l mm	s mm	r mm	α	ε	Tamanho	P		M		K	N		S	
									HC		HC		HC	HC	HW	HC	
									WKP35S	WXP40	WSP45G	WXP40	WSP45G	WKP35S	WNN15	WNN15	WSP45G
	P4841C-1R-A57	4	4,9	2	0,29	11°	90°	1									
	P4841C-2R-A57	4	5,95	2,4	0,34	11°	90°	02									
	P4841C-3R-A57	4	7	2,8	0,4	11°	90°	03									
	P4841C-4R-A57	4	8,4	3,4	0,48	11°	90°	4									
	P4841C-5R-A57	4	10,29	4,1	0,59	11°	90°	5									
	P4841C-6R-A57	4	12,24	4,9	0,7	11°	90°	6									
	P4841C-7R-A57	4	14,69	5,5	0,8	11°	90°	7									
	P4841C-8R-A57	4	17,49	5,6	1	11°	90°	8									
	P4841C-1R-E57	4	4,9	2	0,29	11°	90°	1									
	P4841C-2R-E57	4	5,95	2,4	0,34	11°	90°	02									
	P4841C-3R-E57	4	7	2,8	0,4	11°	90°	03									
	P4841C-4R-E57	4	8,4	3,4	0,48	11°	90°	4									
	P4841C-5R-E57	4	10,29	4,1	0,59	11°	90°	5									
	P4841C-6R-E57	4	12,24	4,9	0,7	11°	90°	6									
	P4841C-7R-E57	4	14,69	5,5	0,8	11°	90°	7									
	P4841C-8R-E57	4	17,49	5,6	1	11°	90°	8									

Exemplo de pedido para a classe WKP35S: P4841C-1R-A57 WKP35S

Exemplo de pedido para a classe WSP45G: P4841C-1R-A57 WSP45G

HC = metal duro com revestimento

HW = Metal duro não revestido

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

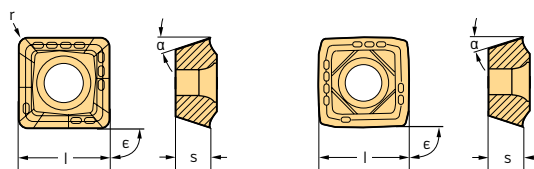
→ boas =

→ médias =

→ desfavoráveis =

Quadrado

P484 .



Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l mm	s mm	r mm	α	ε	Tamanho	P			M		K	N		S
									WKP35S	HC	WSP45G	WXP40	WSP45G	WKP35S	HC	HW	HC
	P4840C-1R-E67	4	4,9	2	0,29	11°	90°	1	✖	✖	✖	✖	✖	✖			✖
	P4840C-2R-E67	4	5,95	2,4	0,34	11°	90°	02	✖	✖	✖	✖	✖	✖			✖
	P4840C-3R-E67	4	7	2,8	0,4	11°	90°	03	✖	✖	✖	✖	✖	✖			✖
	P4840C-4R-E67	4	8,4	3,4	0,48	11°	90°	4	✖	✖	✖	✖	✖	✖			✖
	P4840C-5R-E67	4	10,29	4,1	0,59	11°	90°	5	✖	✖	✖	✖	✖	✖			✖
	P4840C-6R-E67	4	12,24	4,9	0,7	11°	90°	6	✖	✖	✖	✖	✖	✖			✖
	P4840C-7R-E67	4	14,69	5,5	0,8	11°	90°	7	✖	✖	✖	✖	✖	✖			✖
	P4840C-8R-E67	4	17,49	5,6	1	11°	90°	8	✖	✖	✖	✖	✖	✖			✖
	P4840C-1R-E77	4	4,9	2	0,29	11°	90°	1						✖	✖		
	P4840C-2R-E77	4	5,95	2,4	0,34	11°	90°	02						✖	✖		
	P4840C-3R-E77	4	7	2,8	0,4	11°	90°	03						✖	✖		
	P4840C-4R-E77	4	8,4	3,4	0,48	11°	90°	4						✖	✖		
	P4840C-5R-E77	4	10,29	4,1	0,59	11°	90°	5						✖	✖		
	P4840C-6R-E77	4	12,24	4,9	0,7	11°	90°	6						✖	✖		
	P4840C-7R-E77	4	14,69	5,5	0,8	11°	90°	7						✖	✖		
	P4840C-8R-E77	4	17,49	5,6	1	11°	90°	8						✖	✖		

Exemplo de pedido para a classe WKP35S: P4841C-1R-A57 WKP35S

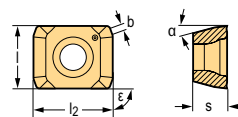
Exemplo de pedido para a classe WSP45G: P4841C-1R-A57 WSP45G

HC = metal duro com revestimento

HW = Metal duro não revestido

B1

Retangular LCGX



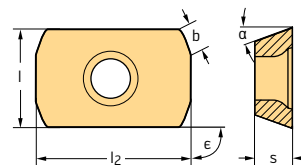
Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l mm	l ₂ mm	s mm	α	ε	b mm	N	
									HC	HW
									WN15	WN15
									WN15	WN15
	LCGX050203-E77	2	4	5,2	2,4	7°	90°	0,6	☺	☺
	LCGX06T204-E77	2	5,2	6,6	2,8	7°	90°	0,8	☺	☺

Exemplo de pedido para a classe WN15: LCGX050203-E77 WN15

HC = metal duro com revestimento
HW = Metal duro não revestido

Retangular LCMX



Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l mm	l ₂ mm	s mm	α	ε	b mm	P				M	K	S	
									HC				HC	HC	HC	HC
									WKP25S	WKP35S	WXP40	WSP45G	WXP40	WSP45G	WKP25S	WKP35S
	LCMX050203-B57	2	4	5,2	2,4	7°	90°	0,6								
	LCMX06T204-B57	2	5,2	6,6	2,8	7°	90°	0,8								
	LCMX050203-D57	2	4	5,2	2,4	7°	90°	0,6								
	LCMX06T204-D57	2	5,2	6,6	2,8	7°	90°	0,8								
	LCMX050203-E57	2	4	5,2	2,4	7°	90°	0,6								
	LCMX06T204-E57	2	5,2	6,6	2,8	7°	90°	0,8								

Exemplo de pedido para a classe WKP25S: LCMX050203-B57 WKP25S

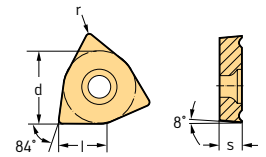
Exemplo de pedido para a classe WKP35S: LCMX050203-B57 WKP35S

Exemplo de pedido para a classe WSP45G: LCMX050203-B57 WSP45G

HC = metal duro com revestimento

Trigonais

WOMX / WOEX



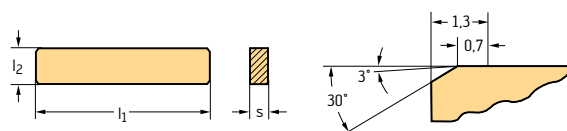
Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l mm	s mm	r mm	α	ε	P				M		K			S
								HC				HC		HC			HC
								WKP25S	WKP35S	WXP40	WSP45G	WXP40	WSP45G	WAK15	WKP25S	WKP35S	WSP45G
	WOMX030204-B57	3	3,31	2,3	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX040304-B57	3	4,2	3,2	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX05T304-B57	3	5,29	3,8	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX06T304-B57	3	6,62	3,8	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX080408-B57	3	7,94	4,8	0,8	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX100508-B57	3	9,92	5,3	0,8	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX120608-B57	3	11,64	6	0,8	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX030204-D57	3	3,31	2,3	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX040304-D57	3	4,2	3,2	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX05T304-D57	3	5,29	3,8	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX06T304-D57	3	6,62	3,8	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX080408-D57	3	7,94	4,8	0,8	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX100508-D57	3	9,92	5,3	0,8	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOMX120608-D57	3	11,64	6	0,8	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOEX030204-E57	3	3,31	2,3	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOEX040304-E57	3	4,2	3,2	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOEX05T304-E57	3	5,29	3,8	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOEX06T304-E57	3	6,62	3,8	0,4	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOEX080408-E57	3	7,94	4,8	0,8	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOEX100508-E57	3	9,92	5,3	0,8	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	WOEX120608-E57	3	11,64	6	0,8	8°	84°	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

Exemplo de pedido para a classe WKP35S: WOMX030204-B57 WKP35S
Exemplo de pedido para a classe WSP45G: WOMX030204-B57 WSP45G

HC = metal duro com revestimento

Formato básico positivo P6500



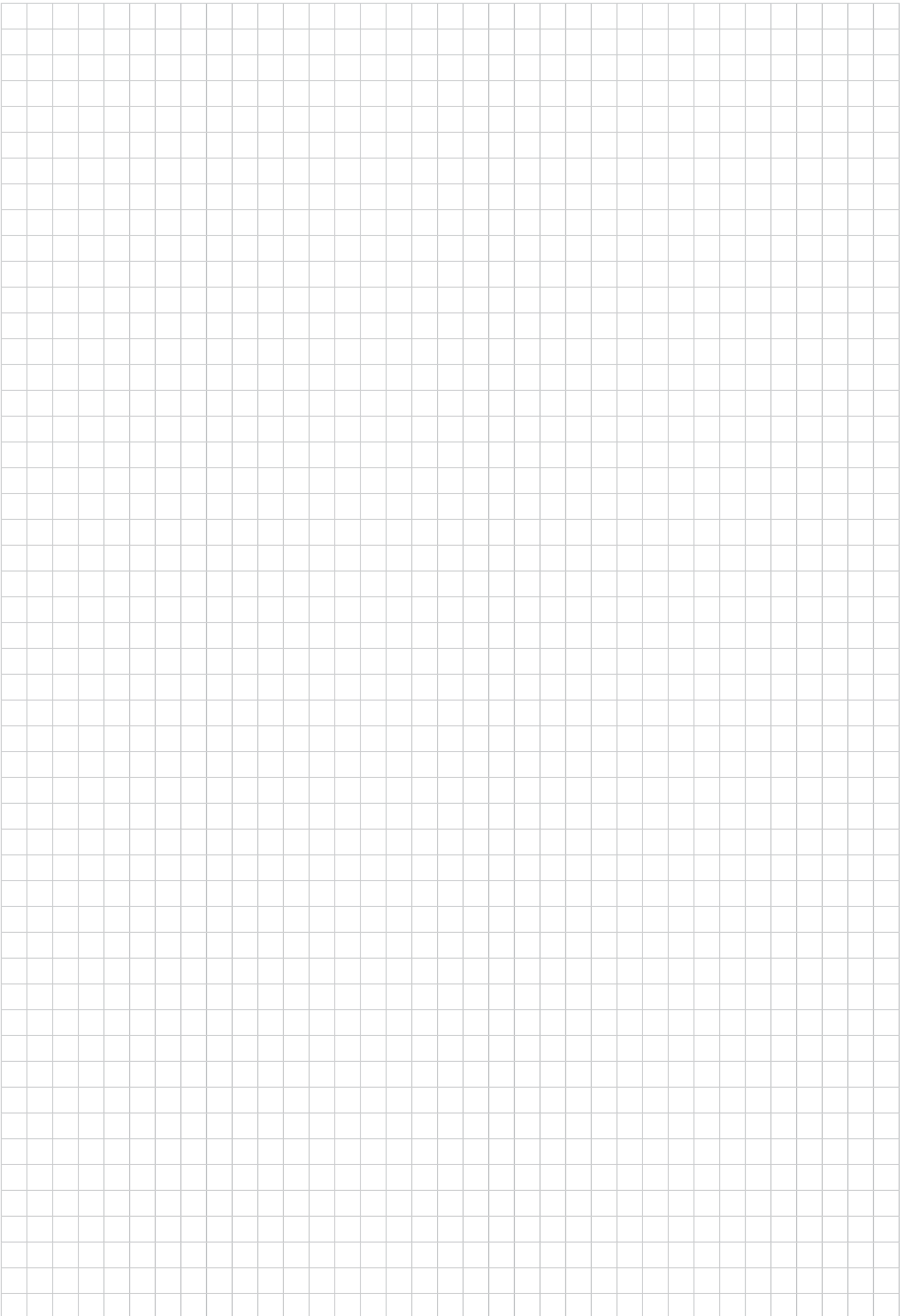
Insertos intercambiáveis

B1

	Denominação	Quantidade de arestas de corte	l ₁ mm	l ₂ mm	s mm	Chanfro	P	K
							HC	HC
							WXP15	WXX05
	P6500-1R-A88-E1	2	20	3	1,5	E1	☺	☹
	P6500-2R-A88-E1	2	20	4,5	4,5	E1	☺	☹
	P6500-4R-A88-E1	2	25	7	2,3	E1	☺	☹
	P6500-0R-B88-E1	2	20	2,5	1,2	E1	☺	☹
	P6500-1R-B88-E1	2	20	3	1,5	E1	☺	☺
	P6500-2R-B88-E1	2	20	4,5	4,5	E1	☺	☺
	P6500-4R-B88-E1	2	25	7	2,3	E1	☺	☺
	P6500-1R-B88-E5	2	20	3	1,5	E5	☹	☹
	P6500-2R-B88-E5	2	20	4,5	4,5	E5	☹	☹
	P6500-4R-B88-E5	2	25	7	2,3	E5	☹	☹

Exemplo de pedido para a classe WXP15: P6500-1R-A88-E1 WXP15

HC = metal duro com revestimento



B1

Broca com insertos intercambiáveis

B1

Usinagem



Profundidade de furação

 $2,5 \times D_C$
 $1,3 \times D_C$
 $3 \times D_C$
 $3 \times D_C$
 $5 \times D_C$


Descrição

D4240
Drion-tec®

D4140
Drion-tec®

D4140
Drion-tec®

D4140
Drion-tec®

D4140
Drion-tec®

Aresta efetiva

2

2

2

2

2

Faixa de Ø

[mm]

12–29

12–25,99

0,472–1,22

0,472–1,496

0,472–1,22

[inch]

P Aço

●●

●●

●●

●●

●●

M Aço inoxidável

●●

●●

●●

●●

●●

K Ferro fundido

●●

●●

●●

●●

●●

N Metais não ferrosos

●●

●●

●●

●●

●●

S Materiais de usinagem difícil

●●

●●

●●

●●

●

H Materiais endurecidos

O Outros

Tipos de insertos intercambiáveis



P600 .

Quantidade de arestas de corte

1

1

1

1

1

Página do catálogo

B 230

B 232

B 236

B 234

B 242

QR Code



www.walter-tools.com/woc/

D4240

D4140

D4140

D4140

D4140

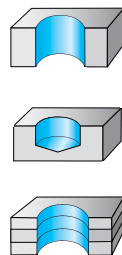
WALTER SELECT

●● Aplicação principal

● Aplicação secundária

Broca com insertos intercambiáveis

Usinagem



Profundidade de furação	5 x D _C	7 x D _C	7 x D _C	10 x D _C



Descrição	D4140 Drion-tec®	D4140 Drion-tec®	D4140 Drion-tec®	D4140 Drion-tec®
Aresta efetiva	2	2	2	2
Faixa de Ø				
[mm]	12–37,99	12–31,99	12–37,99	12–25,99
[inch]	0,472–1,496	0,472–1,22	0,472–1,496	0,472–1,023
P Aço	●●	●●	●●	●●
M Aço inoxidável	●●	●	●	●
K Ferro fundido	●●	●●	●●	●●
N Metais não ferrosos	●●	●●	●●	●●
S Materiais de usinagem difícil	●	●	●	●
H Materiais endurecidos				
O Outros				

Tipos de insertos intercambiáveis



P600 .

Quantidade de arestas de corte	1	1	1	1
Página do catálogo	B 242	B 250	B 250	B 256

QR Code


www.walter-tools.com/woc/

D4140

D4140

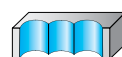
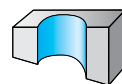
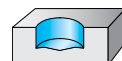
D4140

D4140

Broca com insertos intercambiáveis

B1

Usinagem



Profundidade de furação

 $3 \times D_C$
 $2 \times D_C$
 $3 \times D_C$
 $4 \times D_C$
 $5 \times D_C$


Descrição

D4170
Drion-tec®

D4120
Drion-tec®

D4120
Drion-tec®

D4120
Drion-tec®

D4120
Drion-tec®

Aresta efetiva

1

1

1

1

1

Faixa de Ø

[mm]

65–80

13,5–59

13,5–59

16,5–59

16,5–59

[inch]

0,531–2,250

0,531–2,250

0,656–2,250

0,656–2,250

P Aço

●●

●●

●●

●●

●●

M Aço inoxidável

●●

●●

●●

●

K Ferro fundido

●●

●●

●●

●●

●●

N Metais não ferrosos

●●

●●

●●

●●

●●

S Materiais de usinagem difícil

●●

●●

●●

●

H Materiais endurecidos

O Outros

Tipos de insertos intercambiáveis



P484 .C



P484 .P

Quantidade de arestas de corte

4

4

4

4

4

Página do catálogo

B 296

B 264

B 274

B 266

B 266

QR Code



www.walter-tools.com/woc/

D4170

D4120

D4120

D4120

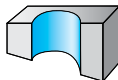
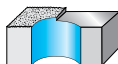
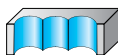
D4120

WALTER SELECT

●● Aplicação principal ● Aplicação secundária

Broca com insertos intercambiáveis

B1

Usinagem					
	2 x D _C	3 x D _C	4 x D _C	2 x D _C	2 x D _C
					
	D3120 Drion-tec®	D3120 Drion-tec®	D3120 Drion-tec®	B3212	B3212
	1	1	1	1	1
Faixa de Ø					
[mm]	16–42	16–58	16–42	10–18	
[inch]		0,750–1,500	0,750–1,500		0,391–0,625
P Aço	● ●	● ●	● ●	● ●	● ●
M Aço inoxidável	● ●	● ●	●	● ●	● ●
K Ferro fundido	● ●	● ●	● ●	● ●	● ●
N Metais não ferrosos	● ●	● ●	● ●	● ●	● ●
S Materiais de usinagem difícil	● ●	● ●	●	● ●	● ●
H Materiais endurecidos					
O Outros					
Tipos de insertos intercambiáveis					
	P284 .S		LC .		
Quantidade de arestas de corte	4	4	4		
Página do catálogo	B 298	B 300	B 308	B 312	B 314
QR Code					
	D3120	D3120	D3120	B3212	B3212

www.walter-tools.com/woc/

www.walter-tools.com/woc/

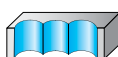
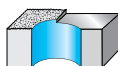
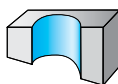
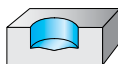
WALTER SELECT

●● Aplicação principal ● Aplicação secundária

Broca com insertos intercambiáveis

B1

Usinagem



Profundidade de furação

 $3 \times D_C$
 $3 \times D_C$
 $4 \times D_C$


Descrição

B3213

B3213

B3214

Aresta efetiva

1

1

1

Faixa de Ø

[mm]

10–18

10–18

[inch]

0,391–0,64

P Aço

●●

●●

M Aço inoxidável

●●

●●

K Ferro fundido

●●

●●

●●

N Metais não ferrosos

●●

●●

●●

S Materiais de usinagem difícil

●●

●●

H Materiais endurecidos

O Outros

Tipos de insertos intercambiáveis



LC .

Quantidade de arestas de corte

B 316

B 316

B 320

Página do catálogo

B 316

B 316

B 320

QR Code


www.walter-tools.com/woc/

B3213

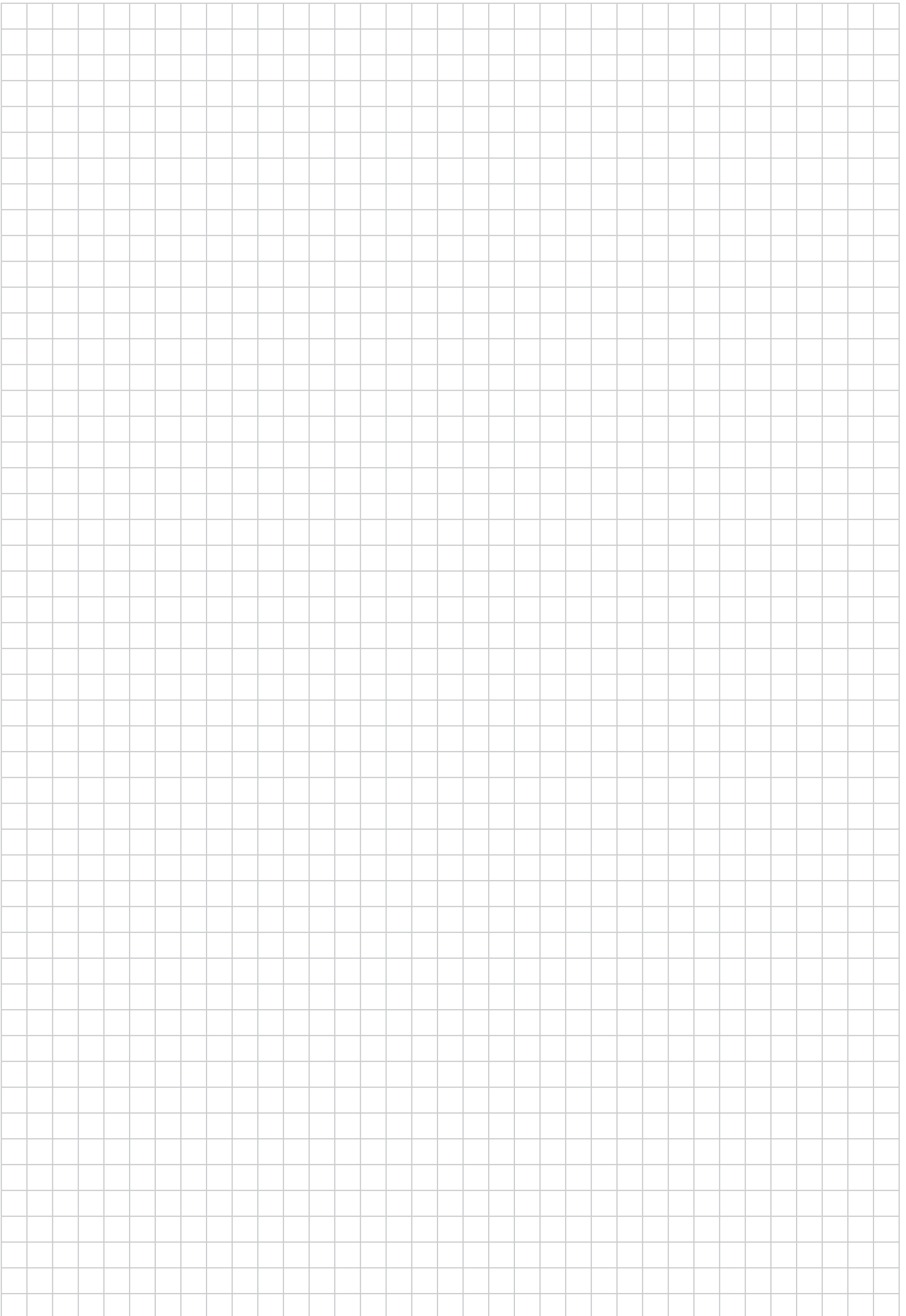
B3213

B3214

WALTER SELECT

●● Aplicação principal

● Aplicação secundária



B1

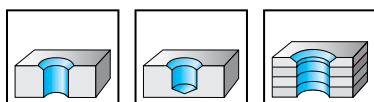
Broca com insertos intercambiáveis

D4240 mm

Drion-tec®



B1



D_c 12– 29,99	$2,5 \times D_c$	90°	140°	Z=2

	P	M	K	N	S	H	O
D4240	●	●	●	●	●		

Ferramenta

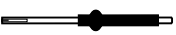
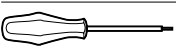
Denominação	D_c mm	D_1 mm	L_c mm	l_4 mm	l_5 mm	d_1 mm	d_4 mm	kg	Qnt. insertos	Tama- nhos do assento	Tipo
D4240-02-12.00F20-A	12	23,7	36,5	68	50	20	30	0,22	1	A	P600 . -D12, ..
D4240-02-14.00F20-B	14	25,7	40,6	76	50	20	30	0,25	1	B	P600 . -D14, ..
D4240-02-15.00F20-B	15	26,7	47,8	80	50	20	30	0,25	1	B	P600 . -D15, ..
D4240-02-17.00F20-C	17	28,7	48,2	88	50	20	30	0,3	1	C	P600 . -D17, ..
D4240-02-19.00F20-D	19	30,7	53,4	96	50	20	30	0,34	1	D	P600 . -D19, ..
D4240-02-21.00F20-E	21	32,7	54,6	104	50	20	30	0,37	1	E	P600 . -D21, ..
D4240-02-24.00F25-G	24	43,4	61,7	117	56	25	35	0,63	1	G	P600 . -D24, ..
D4240-02-26.00F25-H	26	45,4	67,3	125	56	25	35	0,64	1	H	P600 . -D26, ..
D4240-02-29.00F32-J	29	48,4	69,2	138	60	32	42	1,08	1	J	P600 . -D29, ..

Corpo e componentes estão incluídos no escopo de fornecimento

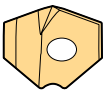
Componentes

	D _c [mm]	12	14-15	17	19	21	24	26	29
	Parafuso para ponta única P600. Torque de aperto	FS1396 (T7IP) 1,2 Nm	FS1397 (T8IP) 2 Nm	FS1398 (T8IP) 2 Nm	FS1399 (T15IP) 4 Nm	FS1400 (T20IP) 5 Nm	FS1402 (T20IP) 5 Nm	FS1403 (T25IP) 5,5 Nm	FS1404 (T25IP) 5,5 Nm
	Parafuso para inserto de chanfrar TC.. Torque de aperto	FS2061 (T7IP) 0,9 Nm	FS2061 (T7IP) 0,9 Nm	FS2061 (T7IP) 0,9 Nm	FS2061 (T7IP) 0,9 Nm	FS2061 (T7IP) 0,9 Nm	FS2063 (T15IP) 3 Nm	FS2063 (T15IP) 3 Nm	FS2063 (T15IP) 3 Nm

Acessórios

	D _c [mm]	12	14-17	19	21-24	26-29
	Chave T com controle de torque					FS2041
	Chave com controle de torque, analógica	FS2001	FS2003	FS2003	FS2003	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	l mm	D _c mm	r mm	P				M		K		N		S	
					HC				HC		HC		HC		HC	
					WMP35	WPP20G	WPP25	WPP45C	WSM20S	WMP35	WSM20S	WKK20S	WKK45C	WNN25	WMP35	WSM20S
	P6001-D..		12-29,8													
	P6003-D..		12-29,8													
	P6004-D..		12-29,5													
	P6005-D..		12-29,8													
	P6006-D..		12-29,8													
	TCGT110208-MP4	11		0,8												
	TCGT16T308-MK4	16,5		0,8												
	TCGT16T308-MM4	16,5		0,8												
	TCMT110208-MK4	11		0,8												
	TCMT110208-MM4	11		0,8												
	TCMT110208-MP4	11		0,8												
	TCMT16T308-MK4	16,5		0,8												
	TCMT16T308-MM4	16,5		0,8												
	TCMT16T308-MP4	16,5		0,8												

HC = Coated carbide

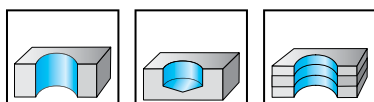
Broca com insertos intercambiáveis

D4140

Drion-tec®



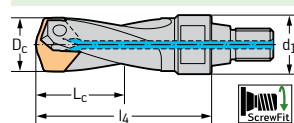
B1



D_c 12– 25,99	$1,3 \times D_c$	140°	$Z=2$

	P	M	K	N	S	H	O
D4140	●	●	●	●	●		

Ferramenta



ScrewFit

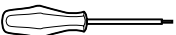
Denominação	D_c mm	L_c mm	l_4 mm	d_1	Z	kg	Qnt. insertos	Tama- nhos do assento	Tipo
D4140-01-12.00T14-A	12	18	48	T14	2	0,05	1	A	P600 . -D12, ..
D4140-01-13.00T14-A	13	19	50	T14	2	0,05	1	A	P600 . -D13, ..
D4140-01-14.00T14-B	14	21	52	T14	2	0,06	1	B	P600 . -D14, ..
D4140-01-15.00T18-B	15	22	55	T18	2	0,08	1	B	P600 . -D15, ..
D4140-01-16.00T18-C	16	24	57	T18	2	0,08	1	C	P600 . -D16, ..
D4140-01-17.00T18-C	17	25	59	T18	2	0,09	1	C	P600 . -D17, ..
D4140-01-18.00T18-D	18	27	61	T18	2	0,1	1	D	P600 . -D18, ..
D4140-01-19.00T22-D	19	28	64	T22	2	0,12	1	D	P600 . -D19, ..
D4140-01-20.00T22-E	20	30	66	T22	2	0,13	1	E	P600 . -D20, ..
D4140-01-21.00T22-E	21	31	68	T22	2	0,14	1	E	P600 . -D21, ..
D4140-01-22.00T22-F	22	33	72	T22	2	0,16	1	F	P600 . -D22, ..
D4140-01-23.00T28-F	23	34	74	T28	2	0,23	1	F	P600 . -D23, ..
D4140-01-24.00T28-G	24	36	76	T28	2	0,24	1	G	P600 . -D24, ..
D4140-01-25.00T28-G	25	37	79	T28	2	0,25	1	G	P600 . -D25, ..

Corpo e componentes estão incluídos no escopo de fornecimento

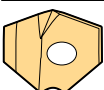
Componentes

	D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 1,2 Nm	FS1397 (T8IP) 2 Nm	FS1398 (T8IP) 2 Nm	FS1399 (T15IP) 4 Nm	FS1400 (T20IP) 5 Nm	FS1401 (T20IP) 5 Nm	FS1402 (T20IP) 5 Nm

Acessórios

	D _c [mm]	12-13	14-17	18-19	20-25
	Chave com controle de torque, analógica	FS2001	FS2003	FS2003	FS2003
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)

Pastilhas intercambiáveis

	Denominação	D _c mm	P		M	K	N	S
			WMP35	WPP25	WPP45C	WKP45C	WNN25	WMP35
	P6001-D..	12-25,8			☺			
	P6003-D..	12-25,8	☹		☹			☹
	P6004-D..	12-25,5					☹	
	P6005-D..	12-25,8				☹		
	P6006-D..	12-25,8	☺					

HC = Coated carbide

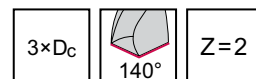
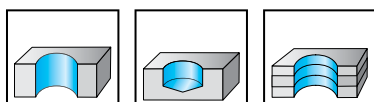
Broca com insertos intercambiáveis

D4140

Drion-tec®

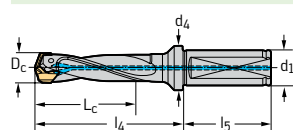


B1



	P	M	K	N	S	H	O
D4140	●	●	●	●	●		

Ferramenta



Cylindrical shank with flat

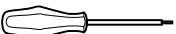
Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tama- nhos do assento	Tipo
D4140-03-12.00F16-A	12	36	68	48	16	20	0,13	1	A	P600 . -D12, ..
D4140-03-13.00F16-A	13	41	72	48	16	20	0,14	1	A	P600 . -D13, ..
D4140-03-14.00F16-B	14	45	76	48	16	20	0,13	1	B	P600 . -D14, ..
D4140-03-15.00F16-B	15	48	80	48	16	20	0,15	1	B	P600 . -D15, ..
D4140-03-16.00F20-C	16	51	84	50	20	25	0,2	1	C	P600 . -D16, ..
D4140-03-17.00F20-C	17	54	88	50	20	25	0,22	1	C	P600 . -D17, ..
D4140-03-18.00F20-D	18	57	92	50	20	25	0,25	1	D	P600 . -D18, ..
D4140-03-19.00F20-D	19	61	96	50	20	25	0,26	1	D	P600 . -D19, ..
D4140-03-20.00F20-E	20	64	100	50	20	25	0,28	1	E	P600 . -D20, ..
D4140-03-21.00F20-E	21	67	104	50	20	25	0,27	1	E	P600 . -D21, ..
D4140-03-22.00F25-F	22	70	109	56	25	32	0,44	1	F	P600 . -D22, ..
D4140-03-23.00F25-F	23	73	113	56	25	32	0,46	1	F	P600 . -D23, ..
D4140-03-24.00F25-G	24	76	117	56	25	32	0,48	1	G	P600 . -D24, ..
D4140-03-25.00F25-G	25	80	121	56	25	32	0,5	1	G	P600 . -D25, ..
D4140-03-26.00F25-H	26	83	125	56	25	32	0,52	1	H	P600 . -D26, ..
D4140-03-27.00F25-H	27	86	129	56	25	32	0,55	1	H	P600 . -D27, ..
D4140-03-28.00F32-J	28	89	134	60	32	40	0,76	1	J	P600 . -D28, ..
D4140-03-29.00F32-J	29	92	138	60	32	40	0,85	1	J	P600 . -D29, ..
D4140-03-30.00F32-K	30	95	142	60	32	40	0,89	1	K	P600 . -D30, ..
D4140-03-31.00F32-K	31	99	146	60	32	40	0,92	1	K	P600 . -D31, ..
D4140-03-32.00F40-M	32	102	150	70	40	50	1,31	1	M	P600 . -D32, ..
D4140-03-33.00F40-M	33	105	154	70	40	50	1,38	1	M	P600 . -D33, ..
D4140-03-34.00F40-N	34	108	158	70	40	50	1,37	1	N	P600 . -D34, ..
D4140-03-35.00F40-N	35	111	162	70	40	50	1,43	1	N	P600 . -D35, ..
D4140-03-36.00F40-P	36	115	166	70	40	50	1,46	1	P	P600 . -D36, ..
D4140-03-37.00F40-P	37	118	170	70	40	50	1,54	1	P	P600 . -D37, ..

Corpo e componentes estão incluídos no escopo de fornecimento

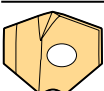
Componentes

	D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-33	34-37
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 1,2 Nm	FS1397 (T8IP) 2 Nm	FS1398 (T8IP) 2 Nm	FS1399 (T15IP) 4 Nm	FS1400 (T20IP) 5 Nm	FS1401 (T20IP) 5 Nm	FS1402 (T20IP) 5 Nm	FS1403 (T25IP) 5,5 Nm	FS1404 (T25IP) 5,5 Nm	FS2159 (T25IP) 5,5 Nm

Acessórios

	D _c [mm]	12-13	14-17	18-19	20-25	26-37
	Chave T com controle de torque					FS2041
	Chave com controle de torque, analógica	FS2001	FS2003	FS2003	FS2003	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	D _c mm	P		M		K		N		S	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35	WPP25	WPP45C	WNN25
	P6001-D..	12-38										
	P6003-D..	12-38										
	P6004-D..	12-31,5										
	P6005-D..	12-38										
	P6006-D..	12-38										

HC = Coated carbide

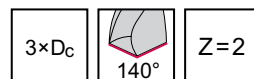
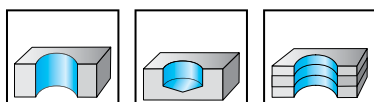
Broca com insertos intercambiáveis

D4140 inch

Drion-tec®

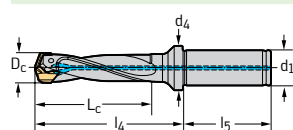


B1



	P	M	K	N	S	H	O
D4140	●	●	●	●	●		

Ferramenta



Cylindrical shank with collar

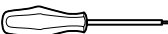
Denominação	D _c inch	L _c inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos	Tamanhos do assento	Tipo
D4140.03-12.00A15-A	0,472	1,496	2,677	1,890	0,625	0,787	0,287	1	A	P600 . -D12, ..
D4140.03-13.00A15-A	0,512	1,614	2,835	1,890	0,625	0,787	0,309	1	A	P600 . -D13, ..
D4140.03-14.00A15-B	0,551	1,772	2,992	1,890	0,625	0,787	0,353	1	B	P600 . -D14, ..
D4140.03-15.00A15-B	0,591	1,890	3,150	1,890	0,625	0,787	0,351	1	B	P600 . -D15, ..
D4140.03-16.00A19-C	0,630	2,008	3,307	2,031	0,750	0,984	0,485	1	C	P600 . -D16, ..
D4140.03-17.00A19-C	0,669	2,126	3,465	2,031	0,750	0,984	0,536	1	C	P600 . -D17, ..
D4140.03-18.00A19-D	0,709	2,244	3,622	2,031	0,750	0,984	0,551	1	D	P600 . -D18, ..
D4140.03-19.00A19-D	0,748	2,362	3,780	2,031	0,750	0,984	0,562	1	D	P600 . -D19, ..
D4140.03-20.00A19-E	0,787	2,48	3,937	2,031	0,750	0,984	0,615	1	E	P600 . -D20, ..
D4140.03-21.00A19-E	0,827	2,598	4,094	2,031	0,750	0,984	0,639	1	E	P600 . -D21, ..
D4140.03-22.00A26-F	0,866	2,756	4,291	2,281	1,000	1,260	1,019	1	F	P600 . -D22, ..
D4140.03-24.00A26-G	0,945	2,992	4,606	2,281	1,000	1,260	1,257	1	G	P600 . -D24, ..
D4140.03-26.00A26-H	1,024	3,268	4,921	2,281	1,000	1,260	1,213	1	H	P600 . -D26, ..
D4140.03-28.00A31-J	1,102	3,504	5,276	2,281	1,250	1,575	1,786	1	J	P600 . -D28, ..
D4140.03-30.00A31-K	1,181	3,74	5,591	2,281	1,250	1,575	1,94	1	K	P600 . -D30, ..

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [inch]	0,472–0,512	0,551–0,591	0,63–0,669	0,709–0,748	0,787–0,827	0,866	0,945	1,024	1,102–1,181
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 0,885 lbs	FS1397 (T8IP) 1,475 lbs	FS1398 (T8IP) 1,475 lbs	FS1399 (T15IP) 2,95 lbs	FS1400 (T20IP) 3,688 lbs	FS1401 (T20IP) 3,688 lbs	FS1402 (T20IP) 3,688 lbs	FS1403 (T25IP) 4,057 lbs	FS1404 (T25IP) 4,057 lbs

Acessórios

	D _c [inch]	0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,945	1,024–1,181
	Chave T com controle de torque					FS2042
	Chave com controle de torque, analógica	FS2002	FS2004	FS2004	FS2004	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	D _c inch	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35			
	P6001-D..	0,472–1,201			☼							
	P6003-D..	0,472–1,201	☼			☼					☼	
	P6004-D..	0,472–1,201						☼				
	P6005-D..	0,472–1,201				☼						
	P6006-D..	0,472–1,201	☼									

HC = Coated carbide

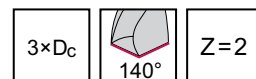
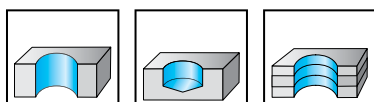
Broca com insertos intercambiáveis

D4140 inch

Drion-tec®

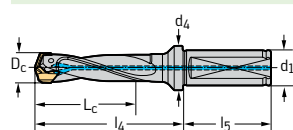


B1



	P	M	K	N	S	H	O
D4140	●	●	●	●	●		

Ferramenta



Cylindrical shank with flat

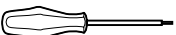
Denominação	D _c inch	L _c inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos	Tamanhos do assento	Tipo
D4140.03-12.00F15-A	0,472	1,496	2,677	1,890	0,625	0,787	0,311	1	A	P600 . -D12, ..
D4140.03-13.00F15-A	0,512	1,614	2,835	1,890	0,625	0,787	0,322	1	A	P600 . -D13, ..
D4140.03-14.00F15-B	0,551	1,772	2,992	1,890	0,625	0,787	0,282	1	B	P600 . -D14, ..
D4140.03-15.00F15-B	0,591	1,890	3,150	1,890	0,625	0,787	0,359	1	B	P600 . -D15, ..
D4140.03-16.00F19-C	0,630	2,008	3,307	2,031	0,750	0,984	0,485	1	C	P600 . -D16, ..
D4140.03-17.00F19-C	0,669	2,126	3,465	2,031	0,750	0,984	0,507	1	C	P600 . -D17, ..
D4140.03-18.00F19-D	0,709	2,244	3,622	2,031	0,750	0,984	0,538	1	D	P600 . -D18, ..
D4140.03-19.00F19-D	0,748	2,362	3,780	2,031	0,750	0,984	0,569	1	D	P600 . -D19, ..
D4140.03-20.00F19-E	0,787	2,520	3,937	2,031	0,750	0,984	0,602	1	E	P600 . -D20, ..
D4140.03-21.00F19-E	0,827	2,638	4,094	2,031	0,750	0,984	0,635	1	E	P600 . -D21, ..
D4140.03-22.00F26-F	0,866	2,756	4,291	2,281	1,000	1,260	0,999	1	F	P600 . -D22, ..
D4140.03-23.00F26-F	0,906	2,874	4,449	2,281	1,000	1,260	1,045	1	F	P600 . -D23, ..
D4140.03-24.00F26-G	0,945	2,992	4,606	2,281	1,000	1,260	1,082	1	G	P600 . -D24, ..
D4140.03-25.00F26-G	0,984	3,150	4,764	2,281	1,000	1,260	1,133	1	G	P600 . -D25, ..
D4140.03-26.00F26-H	1,024	3,268	4,921	2,281	1,000	1,260	1,184	1	H	P600 . -D26, ..
D4140.03-27.00F26-H	1,063	3,386	5,079	2,281	1,000	1,260	1,265	1	H	P600 . -D27, ..
D4140.03-28.00F31-J	1,102	3,504	5,276	2,281	1,250	1,575	1,706	1	J	P600 . -D28, ..
D4140.03-29.00F31-J	1,142	3,622	5,433	2,281	1,250	1,575	1,843	1	J	P600 . -D29, ..
D4140.03-30.00F31-K	1,181	3,74	5,591	2,281	1,250	1,575	1,905	1	K	P600 . -D30, ..
D4140.03-31.00F31-K	1,22	3,898	5,748	2,281	1,250	1,575	1,973	1	K	P600 . -D31, ..
D4140.03-32.00F31-M	1,260	4,016	5,906	2,281	1,250	1,575	2,006	1	M	P600 . -D32, ..
D4140.03-33.00F31-M	1,299	4,134	6,063	2,281	1,250	1,575	2,083	1	M	P600 . -D33, ..
D4140.03-34.00F38-N	1,339	4,252	6,22	2,688	1,500	1,969	2,806	1	N	P600 . -D34, ..
D4140.03-35.00F38-N	1,378	4,37	6,378	2,688	1,500	1,969	2,989	1	N	P600 . -D35, ..
D4140.03-36.00F38-P	1,417	4,528	6,535	2,688	1,500	1,969	2,954	1	P	P600 . -D36, ..
D4140.03-37.00F38-P	1,457	4,646	6,693	2,688	1,500	1,969	3,153	1	P	P600 . -D37, ..

Corpo e componentes estão incluídos no escopo de fornecimento

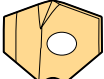
Componentes

	D _c [inch]	0,472–0,512	0,551–0,591	0,63–0,669	0,709–0,748	0,787–0,827	0,866–0,906	0,945–0,984	1,024–1,063	1,102–1,299	1,339–1,457
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 0,885 lbs	FS1397 (T8IP) 1,475 lbs	FS1398 (T8IP) 1,475 lbs	FS1399 (T15IP) 2,95 lbs	FS1400 (T20IP) 3,688 lbs	FS1401 (T20IP) 3,688 lbs	FS1402 (T20IP) 3,688 lbs	FS1403 (T25IP) 4,057 lbs	FS1404 (T25IP) 4,057 lbs	FS2159 (T25IP) 4,057 lbs

Acessórios

	D _c [inch]	0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,984	1,024–1,457
	Chave T com controle de torque					FS2042
	Chave com controle de torque, analógica	FS2002	FS2004	FS2004	FS2004	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	D _c inch	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35			
	P6001-D..	0,472–1,496			☼							
	P6003-D..	0,472–1,496	☼			☼					☼	
	P6004-D..	0,472–1,240							☼			
	P6005-D..	0,472–1,496					☼					
	P6006-D..	0,472–1,496		☼								

HC = Coated carbide

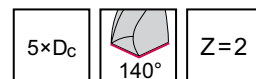
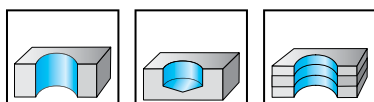
Broca com insertos intercambiáveis

D4140 mm

Drion-tec®

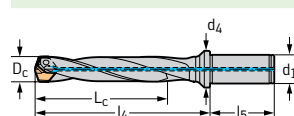


B1



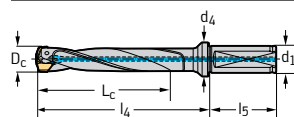
	P	M	K	N	S	H	O
D4140	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank with collar

Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tamanhos do assento	Tipo
D4140-05-12.00A16-A	12	62	92	48	16	20	0,15	1	A	P600 . -D12, ..
D4140-05-13.00A16-A	13	67	98	48	16	20	0,16	1	A	P600 . -D13, ..
D4140-05-14.00A16-B	14	73	104	48	16	20	0,15	1	B	P600 . -D14, ..
D4140-05-15.00A16-B	15	78	110	48	16	20	0,16	1	B	P600 . -D15, ..
D4140-05-16.00A20-C	16	83	116	50	20	25	0,26	1	C	P600 . -D16, ..
D4140-05-17.00A20-C	17	88	122	50	20	25	0,26	1	C	P600 . -D17, ..
D4140-05-18.00A20-D	18	93	128	50	20	25	0,3	1	D	P600 . -D18, ..
D4140-05-19.00A20-D	19	98	134	50	20	25	0,29	1	D	P600 . -D19, ..
D4140-05-20.00A20-E	20	104	140	50	20	25	0,34	1	E	P600 . -D20, ..
D4140-05-21.00A20-E	21	109	146	50	20	25	0,38	1	E	P600 . -D21, ..
D4140-05-22.00A25-F	22	114	153	56	25	32	0,53	1	F	P600 . -D22, ..
D4140-05-23.00A25-F	23	119	159	56	25	32	0,56	1	F	P600 . -D23, ..
D4140-05-24.00A25-G	24	124	165	56	25	32	0,59	1	G	P600 . -D24, ..
D4140-05-25.00A25-G	25	130	171	56	25	32	0,62	1	G	P600 . -D25, ..
D4140-05-26.00A25-H	26	135	177	56	25	32	0,6	1	H	P600 . -D26, ..
D4140-05-27.00A25-H	27	140	183	56	25	32	0,7	1	H	P600 . -D27, ..
D4140-05-28.00A32-J	28	145	190	60	32	40	0,8	1	J	P600 . -D28, ..
D4140-05-29.00A32-J	29	150	196	60	32	40	1	1	J	P600 . -D29, ..
D4140-05-30.00A32-K	30	155	202	60	32	40	1	1	K	P600 . -D30, ..
D4140-05-31.00A32-K	31	161	208	60	32	40	1,14	1	K	P600 . -D31, ..



Cylindrical shank with flat

D4140-05-12.00F16-A	12	62	92	48	16	20	0,14	1	A	P600 . -D12, ..
D4140-05-13.00F16-A	13	67	98	48	16	20	0,14	1	A	P600 . -D13, ..
D4140-05-14.00F16-B	14	73	104	48	16	20	0,16	1	B	P600 . -D14, ..
D4140-05-15.00F16-B	15	78	110	48	16	20	0,18	1	B	P600 . -D15, ..
D4140-05-16.00F20-C	16	83	116	50	20	25	0,24	1	C	P600 . -D16, ..
D4140-05-17.00F20-C	17	88	122	50	20	25	0,25	1	C	P600 . -D17, ..
D4140-05-18.00F20-D	18	93	128	50	20	25	0,29	1	D	P600 . -D18, ..
D4140-05-19.00F20-D	19	98	134	50	20	25	0,28	1	D	P600 . -D19, ..
D4140-05-20.00F20-E	20	104	140	50	20	25	0,31	1	E	P600 . -D20, ..
D4140-05-21.00F20-E	21	109	146	50	20	25	0,37	1	E	P600 . -D21, ..
D4140-05-22.00F25-F	22	114	153	56	25	32	0,53	1	F	P600 . -D22, ..
D4140-05-23.00F25-F	23	119	159	56	25	32	0,56	1	F	P600 . -D23, ..
D4140-05-24.00F25-G	24	124	165	56	25	32	0,59	1	G	P600 . -D24, ..
D4140-05-25.00F25-G	25	130	171	56	25	32	0,62	1	G	P600 . -D25, ..
D4140-05-26.00F25-H	26	135	177	56	25	32	0,65	1	H	P600 . -D26, ..

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

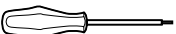
→ boa = 😊

→ razoável = 😊

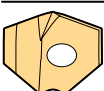
Componentes

	D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-33	34-37
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 1,2 Nm	FS1397 (T8IP) 2 Nm	FS1398 (T8IP) 2 Nm	FS1399 (T15IP) 4 Nm	FS1400 (T20IP) 5 Nm	FS1401 (T20IP) 5 Nm	FS1402 (T20IP) 5 Nm	FS1403 (T25IP) 5,5 Nm	FS1404 (T25IP) 5,5 Nm	FS2159 (T25IP) 5,5 Nm

Acessórios

	D _c [mm]	12-13	14-17	18-19	20-25	26-37
	Chave T com controle de torque					FS2041
	Chave com controle de torque, analógica	FS2001	FS2003	FS2003	FS2003	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	D _c mm	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35			
	P6001-D..	12-38			★							
	P6003-D..	12-38	★			★					★	
	P6004-D..	12-31,5						★				
	P6005-D..	12-38				★						
	P6006-D..	12-38	★									

HC = Coated carbide

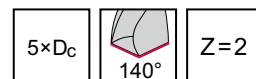
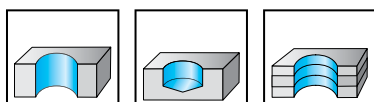
Broca com insertos intercambiáveis

D4140 mm

Drion-tec®

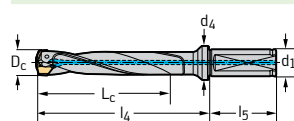


B1



	P	M	K	N	S	H	O
D4140	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank with flat

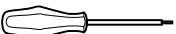
Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tamanhos do assento	Tipo
D4140-05-27.00F25-H	27	140	183	56	25	32	0,69	1	H	P600 . -D27, ..
D4140-05-28.00F32-J	28	145	190	60	32	40	0,97	1	J	P600 . -D28, ..
D4140-05-29.00F32-J	29	150	196	60	32	40	1	1	J	P600 . -D29, ..
D4140-05-30.00F32-K	30	155	202	60	32	40	1,05	1	K	P600 . -D30, ..
D4140-05-31.00F32-K	31	161	208	60	32	40	1,12	1	K	P600 . -D31, ..
D4140-05-32.00F40-M	32	166	214	70	40	50	1,51	1	M	P600 . -D32, ..
D4140-05-33.00F40-M	33	171	220	70	40	50	1,55	1	M	P600 . -D33, ..
D4140-05-34.00F40-N	34	176	226	70	40	50	1,61	1	N	P600 . -D34, ..
D4140-05-35.00F40-N	35	181	232	70	40	50	1,66	1	N	P600 . -D35, ..
D4140-05-36.00F40-P	36	187	238	70	40	50	1,72	1	P	P600 . -D36, ..
D4140-05-37.00F40-P	37	192	244	70	40	50	1,78	1	P	P600 . -D37, ..

Corpo e componentes estão incluídos no escopo de fornecimento

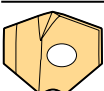
Componentes

	D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-33	34-37
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 1,2 Nm	FS1397 (T8IP) 2 Nm	FS1398 (T8IP) 2 Nm	FS1399 (T15IP) 4 Nm	FS1400 (T20IP) 5 Nm	FS1401 (T20IP) 5 Nm	FS1402 (T20IP) 5 Nm	FS1403 (T25IP) 5,5 Nm	FS1404 (T25IP) 5,5 Nm	FS2159 (T25IP) 5,5 Nm

Acessórios

	D _c [mm]	12-13	14-17	18-19	20-25	26-37
	Chave T com controle de torque					FS2041
	Chave com controle de torque, analógica	FS2001	FS2003	FS2003	FS2003	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	D _c mm	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35			
	P6001-D..	12-38										
	P6003-D..	12-38										
	P6004-D..	12-31,5										
	P6005-D..	12-38										
	P6006-D..	12-38										

HC = Coated carbide

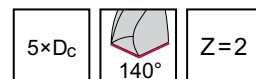
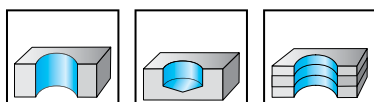
Broca com insertos intercambiáveis

D4140 inch

Drion-tec®

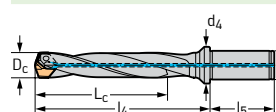


B1



	P	M	K	N	S	H	O
D4140	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank with collar

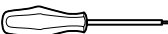
Denominação	D _c inch	L _c inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos	Tamanhos do assento	Tipo
D4140.05-12.00A15-A	0,472	2,441	3,622	1,890	0,625	0,787	0,348	1	A	P600 . -D12, ..
D4140.05-13.00A15-A	0,512	2,638	3,858	1,890	0,625	0,787	0,37	1	A	P600 . -D13, ..
D4140.05-14.00A15-B	0,551	2,874	4,094	1,890	0,625	0,787	0,39	1	B	P600 . -D14, ..
D4140.05-15.00A15-B	0,591	3,071	4,331	1,890	0,625	0,787	0,417	1	B	P600 . -D15, ..
D4140.05-16.00A19-C	0,630	3,268	4,567	2,031	0,750	0,984	0,560	1	C	P600 . -D16, ..
D4140.05-17.00A19-C	0,669	3,465	4,803	2,031	0,750	0,984	0,551	1	C	P600 . -D17, ..
D4140.05-18.00A19-D	0,709	3,661	5,039	2,031	0,750	0,984	0,619	1	D	P600 . -D18, ..
D4140.05-19.00A19-D	0,748	3,858	5,276	2,031	0,750	0,984	0,705	1	D	P600 . -D19, ..
D4140.05-20.00A19-E	0,787	4,094	5,512	2,031	0,750	0,984	0,765	1	E	P600 . -D20, ..
D4140.05-21.00A19-E	0,827	4,291	5,748	2,031	0,750	0,984	0,814	1	E	P600 . -D21, ..
D4140.05-22.00A26-F	0,866	4,488	6,024	2,281	1,000	1,260	1,19	1	F	P600 . -D22, ..
D4140.05-24.00A26-G	0,945	4,882	6,496	2,281	1,000	1,260	1,323	1	G	P600 . -D24, ..
D4140.05-26.00A26-H	1,024	5,315	6,968	2,281	1,000	1,260	1,49	1	H	P600 . -D26, ..
D4140.05-28.00A31-J	1,102	5,709	7,48	2,281	1,250	1,575	1,947	1	J	P600 . -D28, ..
D4140.05-30.00A31-K	1,181	6,102	7,953	2,281	1,250	1,575	2,313	1	K	P600 . -D30, ..

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [inch]	0,472–0,512	0,551–0,591	0,63–0,669	0,709–0,748	0,787–0,827	0,866	0,945	1,024	1,102–1,181
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 0,885 lbs	FS1397 (T8IP) 1,475 lbs	FS1398 (T8IP) 1,475 lbs	FS1399 (T15IP) 2,95 lbs	FS1400 (T20IP) 3,688 lbs	FS1401 (T20IP) 3,688 lbs	FS1402 (T20IP) 3,688 lbs	FS1403 (T25IP) 4,057 lbs	FS1404 (T25IP) 4,057 lbs

Acessórios

	D _c [inch]	0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,945	1,024–1,181
	Chave T com controle de torque					FS2042
	Chave com controle de torque, analógica	FS2002	FS2004	FS2004	FS2004	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	D _c inch	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35			
	P6001-D..	0,472–1,201			★							
	P6003-D..	0,472–1,201	★			★					★	
	P6004-D..	0,472–1,201						★				
	P6005-D..	0,472–1,201				★						
	P6006-D..	0,472–1,201	★									

HC = Coated carbide

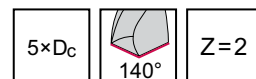
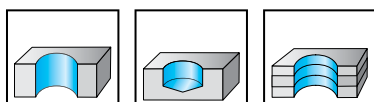
Broca com insertos intercambiáveis

D4140 inch

Drion-tec®

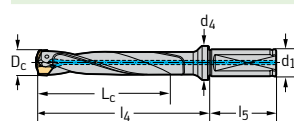


B1



	P	M	K	N	S	H	O
D4140	●	●	●	●	●		

Ferramenta



Cylindrical shank with flat

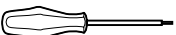
Denominação	D _c inch	L _c inch	I _d inch	I _s inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos	Tamanhos do assento	Tipo
D4140.05-12.00F15-A	0,472	2,441	3,622	1,890	0,625	0,787	0,340	1	A	P600 . -D12, ..
D4140.05-13.00F15-A	0,512	2,638	3,858	1,890	0,625	0,787	0,302	1	A	P600 . -D13, ..
D4140.05-14.00F15-B	0,551	2,874	4,094	1,890	0,625	0,787	0,379	1	B	P600 . -D14, ..
D4140.05-15.00F15-B	0,591	3,071	4,331	1,890	0,625	0,787	0,406	1	B	P600 . -D15, ..
D4140.05-16.00F19-C	0,630	3,268	4,567	2,031	0,750	0,984	0,551	1	C	P600 . -D16, ..
D4140.05-17.00F19-C	0,669	3,465	4,803	2,031	0,750	0,984	0,573	1	C	P600 . -D17, ..
D4140.05-18.00F19-D	0,709	3,661	5,039	2,031	0,750	0,984	0,622	1	D	P600 . -D18, ..
D4140.05-19.00F19-D	0,748	3,858	5,276	2,031	0,750	0,984	0,666	1	D	P600 . -D19, ..
D4140.05-20.00F19-E	0,787	4,094	5,512	2,031	0,750	0,984	0,750	1	E	P600 . -D20, ..
D4140.05-21.00F19-E	0,827	4,291	5,748	2,031	0,750	0,984	0,798	1	E	P600 . -D21, ..
D4140.05-22.00F26-F	0,866	4,488	6,024	2,281	1,000	1,260	1,19	1	F	P600 . -D22, ..
D4140.05-23.00F26-F	0,906	4,685	6,260	2,281	1,000	1,260	1,263	1	F	P600 . -D23, ..
D4140.05-24.00F26-G	0,945	4,882	6,496	2,281	1,000	1,260	1,316	1	G	P600 . -D24, ..
D4140.05-25.00F26-G	0,984	5,118	6,732	2,281	1,000	1,260	1,400	1	G	P600 . -D25, ..
D4140.05-26.00F26-H	1,024	5,315	6,968	2,281	1,000	1,260	1,464	1	H	P600 . -D26, ..
D4140.05-27.00F26-H	1,063	5,512	7,205	2,281	1,000	1,260	1,537	1	H	P600 . -D27, ..
D4140.05-28.00F31-J	1,102	5,709	7,48	2,281	1,250	1,575	2,079	1	J	P600 . -D28, ..
D4140.05-29.00F31-J	1,142	5,906	7,717	2,281	1,250	1,575	2,18	1	J	P600 . -D29, ..
D4140.05-30.00F31-K	1,181	6,339	7,953	2,281	1,250	1,575	2,271	1	K	P600 . -D30, ..
D4140.05-31.00F31-K	1,22	6,339	8,189	2,281	1,250	1,575	2,394	1	K	P600 . -D31, ..
D4140.05-32.00F31-M	1,260	6,535	8,425	2,281	1,250	1,575	2,429	1	M	P600 . -D32, ..
D4140.05-33.00F31-M	1,299	6,732	8,661	2,281	1,250	1,575	2,551	1	M	P600 . -D33, ..
D4140.05-34.00F38-N	1,339	6,929	8,898	2,688	1,500	1,969	3,331	1	N	P600 . -D34, ..
D4140.05-35.00F38-N	1,378	7,126	9,134	2,688	1,500	1,969	3,417	1	N	P600 . -D35, ..
D4140.05-36.00F38-P	1,417	7,362	9,37	2,688	1,500	1,969	3,578	1	P	P600 . -D36, ..
D4140.05-37.00F38-P	1,457	7,559	9,606	2,688	1,500	1,969	3,704	1	P	P600 . -D37, ..

Corpo e componentes estão incluídos no escopo de fornecimento

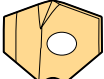
Componentes

	D _c [inch]	0,472–0,512	0,551–0,591	0,63–0,669	0,709–0,748	0,787–0,827	0,866–0,906	0,945–0,984	1,024–1,063	1,102–1,299	1,339–1,457
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 0,885 lbs	FS1397 (T8IP) 1,475 lbs	FS1398 (T8IP) 1,475 lbs	FS1399 (T15IP) 2,95 lbs	FS1400 (T20IP) 3,688 lbs	FS1401 (T20IP) 3,688 lbs	FS1402 (T20IP) 3,688 lbs	FS1403 (T25IP) 4,057 lbs	FS1404 (T25IP) 4,057 lbs	FS2159 (T25IP) 4,057 lbs

Acessórios

	D _c [inch]	0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,984	1,024–1,457
	Chave T com controle de torque					FS2042
	Chave com controle de torque, analógica	FS2002	FS2004	FS2004	FS2004	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	D _c inch	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35			
	P6001-D..	0,472–1,496			☼							
	P6003-D..	0,472–1,496	☼			☼						
	P6004-D..	0,472–1,240						☼				
	P6005-D..	0,472–1,496					☼					
	P6006-D..	0,472–1,496		☼								

HC = Coated carbide

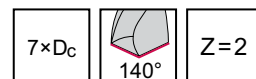
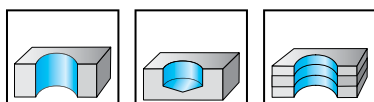
Broca com insertos intercambiáveis

D4140

Drion-tec®

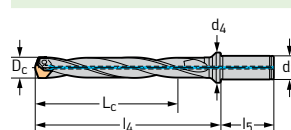


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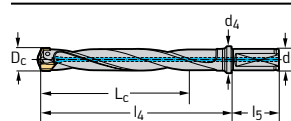
	P	M	K	N	S	H	O
D4140	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank with collar

Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tamanhos do assento	Tipo
D4140-07-12.00A16-A	12	86	116	48	16	20	0,17	1	A	P600 . -D12, ..
D4140-07-13.00A16-A	13	93	124	48	16	20	0,18	1	A	P600 . -D13, ..
D4140-07-14.00A16-B	14	101	132	48	16	20	0,2	1	B	P600 . -D14, ..
D4140-07-15.00A16-B	15	108	140	48	16	20	0,23	1	B	P600 . -D15, ..
D4140-07-16.00A20-C	16	115	148	50	20	25	0,31	1	C	P600 . -D16, ..
D4140-07-17.00A20-C	17	122	156	50	20	25	0,33	1	C	P600 . -D17, ..
D4140-07-18.00A20-D	18	133	164	50	20	25	0,35	1	D	P600 . -D18, ..
D4140-07-19.00A20-D	19	136	172	50	20	25	0,37	1	D	P600 . -D19, ..
D4140-07-20.00A20-E	20	144	180	50	20	25	0,4	1	E	P600 . -D20, ..
D4140-07-21.00A20-E	21	151	188	50	20	25	0,43	1	E	P600 . -D21, ..
D4140-07-22.00A25-F	22	158	197	56	25	32	0,61	1	F	P600 . -D22, ..
D4140-07-23.00A25-F	23	165	205	56	25	32	0,65	1	F	P600 . -D23, ..
D4140-07-24.00A25-G	24	172	213	56	25	32	0,69	1	G	P600 . -D24, ..
D4140-07-25.00A25-G	25	180	221	56	25	32	0,76	1	G	P600 . -D25, ..
D4140-07-26.00A25-H	26	187	229	56	25	32	0,8	1	H	P600 . -D26, ..
D4140-07-27.00A25-H	27	194	237	56	25	32	0,84	1	H	P600 . -D27, ..
D4140-07-28.00A32-J	28	201	246	60	32	40	1,04	1	J	P600 . -D28, ..
D4140-07-29.00A32-J	29	208	254	60	32	40	1	1	J	P600 . -D29, ..
D4140-07-30.00A32-K	30	215	262	60	32	40	1,24	1	K	P600 . -D30, ..
D4140-07-31.00A32-K	31	223	270	60	32	40	1,3	1	K	P600 . -D31, ..



Cylindrical shank with flat

D4140-07-12.00F16-A	12	86	116	48	16	20	0,16	1	A	P600 . -D12, ..
D4140-07-13.00F16-A	13	93	124	48	16	20	0,17	1	A	P600 . -D13, ..
D4140-07-14.00F16-B	14	101	132	48	16	20	0,19	1	B	P600 . -D14, ..
D4140-07-15.00F16-B	15	108	140	48	16	20	0,2	1	B	P600 . -D15, ..
D4140-07-16.00F20-C	16	115	148	50	20	25	0,3	1	C	P600 . -D16, ..
D4140-07-17.00F20-C	17	122	156	50	20	25	0,32	1	C	P600 . -D17, ..
D4140-07-18.00F20-D	18	126	164	50	20	25	0,34	1	D	P600 . -D18, ..
D4140-07-19.00F20-D	19	136	172	50	20	25	0,37	1	D	P600 . -D19, ..
D4140-07-20.00F20-E	20	144	180	50	20	25	0,39	1	E	P600 . -D20, ..
D4140-07-21.00F20-E	21	151	188	50	20	25	0,43	1	E	P600 . -D21, ..
D4140-07-22.00F25-F	22	158	197	56	25	32	0,6	1	F	P600 . -D22, ..
D4140-07-23.00F25-F	23	165	205	56	25	32	0,64	1	F	P600 . -D23, ..
D4140-07-24.00F25-G	24	172	213	56	25	32	0,68	1	G	P600 . -D24, ..
D4140-07-25.00F25-G	25	180	221	56	25	32	0,71	1	G	P600 . -D25, ..
D4140-07-26.00F25-H	26	187	229	56	25	32	0,78	1	H	P600 . -D26, ..

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

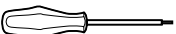
→ boa = 😊

→ razoável = 😊

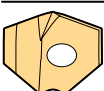
Componentes

	D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-33	34-37
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 1,2 Nm	FS1397 (T8IP) 2 Nm	FS1398 (T8IP) 2 Nm	FS1399 (T15IP) 4 Nm	FS1400 (T20IP) 5 Nm	FS1401 (T20IP) 5 Nm	FS1402 (T20IP) 5 Nm	FS1403 (T25IP) 5,5 Nm	FS1404 (T25IP) 5,5 Nm	FS2159 (T25IP) 5,5 Nm

Acessórios

	D _c [mm]	12-13	14-17	18-19	20-25	26-37
	Chave T com controle de torque					FS2041
	Chave com controle de torque, analógica	FS2001	FS2003	FS2003	FS2003	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	D _c mm	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35			
	P6001-D..	12-38										
	P6003-D..	12-38										
	P6004-D..	12-31,5										
	P6005-D..	12-38										
	P6006-D..	12-38										

HC = Coated carbide

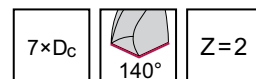
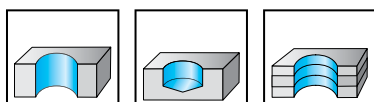
Broca com insertos intercambiáveis

D4140

Drion-tec®

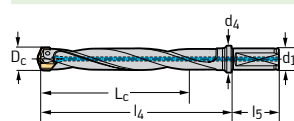


B1



	P	M	K	N	S	H	O
D4140	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank with flat

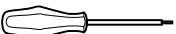
Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tamanhos do assento	Tipo
D4140-07-27.00F25-H	27	194	237	56	25	32	0,82	1	H	P600 . -D27, ..
D4140-07-28.00F32-J	28	201	246	60	32	40	1,04	1	J	P600 . -D28, ..
D4140-07-29.00F32-J	29	208	254	60	32	40	1,14	1	J	P600 . -D29, ..
D4140-07-30.00F32-K	30	215	262	60	32	40	1,24	1	K	P600 . -D30, ..
D4140-07-31.00F32-K	31	223	270	60	32	40	1,28	1	K	P600 . -D31, ..
D4140-07-32.00F40-M	32	230	278	70	40	50	1,8	1	M	P600 . -D32, ..
D4140-07-33.00F40-M	33	237	286	70	40	50	1,86	1	M	P600 . -D33, ..
D4140-07-34.00F40-N	34	244	294	70	40	50	1,94	1	N	P600 . -D34, ..
D4140-07-35.00F40-N	35	251	302	70	40	50	2,06	1	N	P600 . -D35, ..
D4140-07-36.00F40-P	36	259	310	70	40	50	2,09	1	P	P600 . -D36, ..
D4140-07-37.00F40-P	37	266	318	70	40	50	2,21	1	P	P600 . -D37, ..

Corpo e componentes estão incluídos no escopo de fornecimento

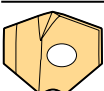
Componentes

	D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-33	34-37
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 1,2 Nm	FS1397 (T8IP) 2 Nm	FS1398 (T8IP) 2 Nm	FS1399 (T15IP) 4 Nm	FS1400 (T20IP) 5 Nm	FS1401 (T20IP) 5 Nm	FS1402 (T20IP) 5 Nm	FS1403 (T25IP) 5,5 Nm	FS1404 (T25IP) 5,5 Nm	FS2159 (T25IP) 5,5 Nm

Acessórios

	D _c [mm]	12-13	14-17	18-19	20-25	26-37
	Chave T com controle de torque					FS2041
	Chave com controle de torque, analógica	FS2001	FS2003	FS2003	FS2003	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	D _c mm	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35			
	P6001-D..	12-38			★							
	P6003-D..	12-38	★			★					★	
	P6004-D..	12-31,5						★				
	P6005-D..	12-38				★						
	P6006-D..	12-38	★									

HC = Coated carbide

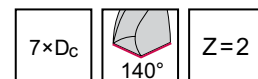
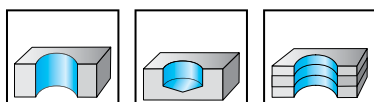
Broca com insertos intercambiáveis

D4140 inch

Drion-tec®

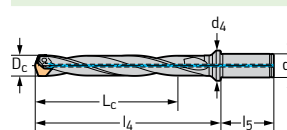


B1



	P	M	K	N	S	H	O
D4140	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank with collar

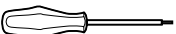
Denominação	D _c inch	L _c inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos	Tamanhos do assento	Tipo
D4140.07-12.00A15-A	0,472	3,386	4,567	1,890	0,625	0,787	0,377	1	A	P600 . -D12, ..
D4140.07-13.00A15-A	0,512	3,661	4,882	1,890	0,625	0,787	0,406	1	A	P600 . -D13, ..
D4140.07-14.00A15-B	0,551	3,976	5,197	1,890	0,625	0,787	0,419	1	B	P600 . -D14, ..
D4140.07-15.00A15-B	0,591	4,252	5,512	1,890	0,625	0,787	0,467	1	B	P600 . -D15, ..
D4140.07-16.00A19-C	0,630	4,528	5,827	2,031	0,750	0,984	0,659	1	C	P600 . -D16, ..
D4140.07-17.00A19-C	0,669	4,803	6,142	2,031	0,750	0,984	0,710	1	C	P600 . -D17, ..
D4140.07-18.00A19-D	0,709	5,079	6,457	2,031	0,750	0,984	0,750	1	D	P600 . -D18, ..
D4140.07-19.00A19-D	0,748	5,354	6,772	2,031	0,750	0,984	0,805	1	D	P600 . -D19, ..
D4140.07-20.00A19-E	0,787	5,669	7,087	2,031	0,750	0,984	0,875	1	E	P600 . -D20, ..
D4140.07-21.00A19-E	0,827	5,945	7,402	2,031	0,750	0,984	0,946	1	E	P600 . -D21, ..
D4140.07-22.00A26-F	0,866	6,22	7,756	2,281	1,000	1,260	1,345	1	F	P600 . -D22, ..
D4140.07-24.00A26-G	0,945	6,772	8,386	2,281	1,000	1,260	1,541	1	G	P600 . -D24, ..
D4140.07-26.00A26-H	1,024	7,362	9,016	2,281	1,000	1,260	1,720	1	H	P600 . -D26, ..
D4140.07-28.00A31-J	1,102	7,913	9,685	2,281	1,250	1,575	2,427	1	J	P600 . -D28, ..
D4140.07-30.00A31-K	1,181	8,465	10,315	2,281	1,250	1,575	2,668	1	K	P600 . -D30, ..

Corpo e componentes estão incluídos no escopo de fornecimento

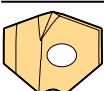
Componentes

	D _c [inch]	0,472–0,512	0,551–0,591	0,63–0,669	0,709–0,748	0,787–0,827	0,866	0,945	1,024	1,102–1,181
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 0,885 lbs	FS1397 (T8IP) 1,475 lbs	FS1398 (T8IP) 1,475 lbs	FS1399 (T15IP) 2,95 lbs	FS1400 (T20IP) 3,688 lbs	FS1401 (T20IP) 3,688 lbs	FS1402 (T20IP) 3,688 lbs	FS1403 (T25IP) 4,057 lbs	FS1404 (T25IP) 4,057 lbs

Acessórios

	D _c [inch]	0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,945	1,024–1,181
	Chave T com controle de torque					FS2042
	Chave com controle de torque, analógica	FS2002	FS2004	FS2004	FS2004	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	D _c inch	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35			
	P6001-D..	0,472–1,201			☼							
	P6003-D..	0,472–1,201	☼			☼					☼	
	P6004-D..	0,472–1,201						☼				
	P6005-D..	0,472–1,201				☼						
	P6006-D..	0,472–1,201	☼									

HC = Coated carbide

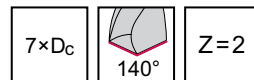
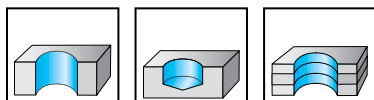
Broca com insertos intercambiáveis

D4140 inch

Drion-tec®

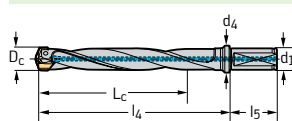


B1



	P	M	K	N	S	H	O
D4140	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank with flat

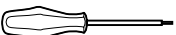
Denominação	D _c inch	L _c inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos	Tamanhos do assento	Tipo
D4140.07-12.00F15-A	0,472	3,386	4,567	1,890	0,625	0,787	0,366	1	A	P600 . -D12, ..
D4140.07-13.00F15-A	0,512	3,661	4,882	1,890	0,625	0,787	0,39	1	A	P600 . -D13, ..
D4140.07-14.00F15-B	0,551	3,976	5,197	1,890	0,625	0,787	0,421	1	B	P600 . -D14, ..
D4140.07-15.00F15-B	0,591	4,252	5,512	1,890	0,625	0,787	0,454	1	B	P600 . -D15, ..
D4140.07-16.00F19-C	0,630	4,528	5,827	2,031	0,750	0,984	0,617	1	C	P600 . -D16, ..
D4140.07-17.00F19-C	0,669	4,803	6,142	2,031	0,750	0,984	0,697	1	C	P600 . -D17, ..
D4140.07-18.00F19-D	0,709	5,079	6,457	2,031	0,750	0,984	0,734	1	D	P600 . -D18, ..
D4140.07-19.00F19-D	0,748	5,354	6,772	2,031	0,750	0,984	0,794	1	D	P600 . -D19, ..
D4140.07-20.00F19-E	0,787	5,669	7,087	2,031	0,750	0,984	0,858	1	E	P600 . -D20, ..
D4140.07-21.00F19-E	0,827	5,945	7,402	2,031	0,750	0,984	0,933	1	E	P600 . -D21, ..
D4140.07-22.00F26-F	0,866	6,22	7,756	2,281	1,000	1,260	1,351	1	F	P600 . -D22, ..
D4140.07-23.00F26-F	0,906	6,496	8,071	2,281	1,000	1,260	1,429	1	F	P600 . -D23, ..
D4140.07-24.00F26-G	0,945	6,772	8,386	2,281	1,000	1,260	1,523	1	G	P600 . -D24, ..
D4140.07-25.00F26-G	0,984	7,087	8,701	2,281	1,000	1,260	1,609	1	G	P600 . -D25, ..
D4140.07-26.00F26-H	1,024	7,362	9,016	2,281	1,000	1,260	1,702	1	H	P600 . -D26, ..
D4140.07-27.00F26-H	1,063	7,638	9,331	2,281	1,000	1,260	1,803	1	H	P600 . -D27, ..
D4140.07-28.00F31-J	1,102	7,913	9,685	2,281	1,250	1,575	2,379	1	J	P600 . -D28, ..
D4140.07-29.00F31-J	1,142	8,189	10,000	2,281	1,250	1,575	2,425	1	J	P600 . -D29, ..
D4140.07-30.00F31-K	1,181	8,465	10,315	2,281	1,250	1,575	2,844	1	K	P600 . -D30, ..
D4140.07-31.00F31-K	1,22	8,780	10,630	2,281	1,250	1,575	2,811	1	K	P600 . -D31, ..
D4140.07-32.00F31-M	1,260	9,055	10,945	2,281	1,250	1,575	2,866	1	M	P600 . -D32, ..
D4140.07-33.00F31-M	1,299	9,331	11,260	2,281	1,250	1,575	3,263	1	M	P600 . -D33, ..
D4140.07-34.00F38-N	1,339	9,606	11,575	2,688	1,500	1,969	4,034	1	N	P600 . -D34, ..
D4140.07-35.00F38-N	1,378	9,882	11,890	2,688	1,500	1,969	4,255	1	N	P600 . -D35, ..
D4140.07-36.00F38-P	1,417	10,197	12,205	2,688	1,500	1,969	4,359	1	P	P600 . -D36, ..
D4140.07-37.00F38-P	1,457	10,433	12,520	2,688	1,500	1,969	4,592	1	P	P600 . -D37, ..

Corpo e componentes estão incluídos no escopo de fornecimento

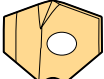
Componentes

	D _c [inch]	0,472–0,512	0,551–0,591	0,63–0,669	0,709–0,748	0,787–0,827	0,866–0,906	0,945–0,984	1,024–1,063	1,102–1,299	1,339–1,457
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 0,885 lbs	FS1397 (T8IP) 1,475 lbs	FS1398 (T8IP) 1,475 lbs	FS1399 (T15IP) 2,95 lbs	FS1400 (T20IP) 3,688 lbs	FS1401 (T20IP) 3,688 lbs	FS1402 (T20IP) 3,688 lbs	FS1403 (T25IP) 4,057 lbs	FS1404 (T25IP) 4,057 lbs	FS2159 (T25IP) 4,057 lbs

Acessórios

	D _c [inch]	0,472–0,512	0,551–0,669	0,709–0,748	0,787–0,984	1,024–1,457
	Chave T com controle de torque					FS2042
	Chave com controle de torque, analógica	FS2002	FS2004	FS2004	FS2004	
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2049 (T25IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1487 (T25IP)

Pastilhas intercambiáveis

	Denominação	D _c inch	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35			
	P6001-D..	0,472–1,496			☼							
	P6003-D..	0,472–1,496	☼			☼					☼	
	P6004-D..	0,472–1,240							☼			
	P6005-D..	0,472–1,496					☼					
	P6006-D..	0,472–1,496		☼								

HC = Coated carbide

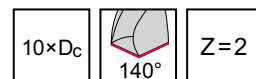
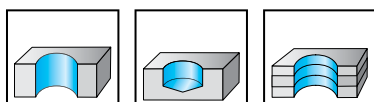
Broca com insertos intercambiáveis

D4140 inch

Drion-tec®

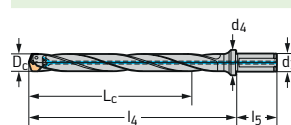


B1

– P6006 – Para aplicação sem furação piloto até $10 \times D_c$


	P	M	K	N	S	H	O
D4140	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank with flat

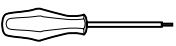
Denominação	D _c inch	L _c inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qty. insertos	Tamanhos do assento	Tipo
D4140.10-12.00F15-A	0,472	4,724	5,984	1,890	0,625	0,787	0,353	1	A	P600 . -D12, ..
D4140.10-15.00F15-B	0,591	5,906	7,283	1,890	0,625	0,787	0,485	1	B	P600 . -D15, ..
D4140.10-19.00F19-D	0,748	7,48	9,016	2,031	0,750	0,984	0,882	1	D	P600 . -D19, ..
D4140.10-22.00F26-F	0,866	8,661	10,354	2,281	1,000	1,260	1,543	1	F	P600 . -D22, ..
D4140.10-25.00F26-G	0,984	9,843	11,654	2,281	1,000	1,260	1,984	1	G	P600 . -D25, ..

Corpo e componentes estão incluídos no escopo de fornecimento

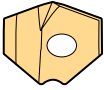
Componentes

	D _c [inch]	0,472	0,591	0,748	0,866	0,984
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 0,885 lbs	FS1397 (T8IP) 1,475 lbs	FS1399 (T15IP) 2,95 lbs	FS1401 (T20IP) 3,688 lbs	FS1402 (T20IP) 3,688 lbs

Acessórios

	D _c [inch]	0,472	0,591	0,748	0,866–0,984
	Chave com controle de torque, analógica	FS2002	FS2004	FS2004	FS2004
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1486 (T20IP)

Pastilhas intercambiáveis

	Denominação	D _c inch	P		M	K	N	S
			HC		HC	HC	HC	HC
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25
	P6001-D..	0,472–1,016			☼			
	P6003-D..	0,472–1,016	☼		☼			☼
	P6004-D..	0,472–1,004				☼		
	P6005-D..	0,472–1,016				☼		
	P6006-D..	0,472–1,016	☼					

HC = Coated carbide

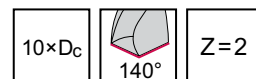
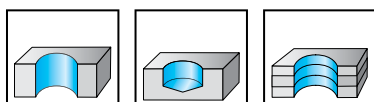
Broca com insertos intercambiáveis

D4140

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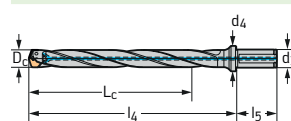


B1

– P6006 – Para aplicação sem furação piloto até $10 \times D_c$


	P	M	K	N	S	H	O
D4140	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank with flat

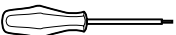
Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tamanhos do assento	Tipo
D4140-10-12.00F16-A	12	120	152	48	16	20	0,16	1	A	P600 . -D12, ..
D4140-10-13.00F16-A	13	130	163	48	16	20	0,18	1	A	P600 . -D13, ..
D4140-10-14.00F16-B	14	140	174	48	16	20	0,2	1	B	P600 . -D14, ..
D4140-10-15.00F16-B	15	150	185	48	16	20	0,22	1	B	P600 . -D15, ..
D4140-10-16.00F20-C	16	160	196	50	20	25	0,31	1	C	P600 . -D16, ..
D4140-10-17.00F20-C	17	170	207	50	20	25	0,34	1	C	P600 . -D17, ..
D4140-10-18.00F20-D	18	180	218	50	20	25	0,4	1	D	P600 . -D18, ..
D4140-10-19.00F20-D	19	190	229	50	20	25	0,4	1	D	P600 . -D19, ..
D4140-10-20.00F20-E	20	200	240	50	20	25	0,48	1	E	P600 . -D20, ..
D4140-10-21.00F20-E	21	210	251	50	20	25	0,47	1	E	P600 . -D21, ..
D4140-10-22.00F25-F	22	220	263	56	25	32	0,71	1	F	P600 . -D22, ..
D4140-10-23.00F25-F	23	230	274	56	25	32	0,72	1	F	P600 . -D23, ..
D4140-10-24.00F25-G	24	240	285	56	25	32	0,82	1	G	P600 . -D24, ..
D4140-10-25.00F25-G	25	250	296	56	25	32	0,87	1	G	P600 . -D25, ..

Corpo e componentes estão incluídos no escopo de fornecimento

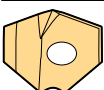
Componentes

	D _c [mm]	12-13	14-15	16-17	18-19	20-21	22-23	24-25
	Parafuso para ponta única Torque de aperto	FS1396 (T7IP) 1,2 Nm	FS1397 (T8IP) 2 Nm	FS1398 (T8IP) 2 Nm	FS1399 (T15IP) 4 Nm	FS1400 (T20IP) 5 Nm	FS1401 (T20IP) 5 Nm	FS1402 (T20IP) 5 Nm

Acessórios

	D _c [mm]	12-13	14-17	18	19	20-24	21-25
	Chave com controle de torque, analógica	FS2001	FS2003	FS2003	FS2003	FS2003	FS2003
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2014 (T15IP)	FS2014 (T15IP)	FS2015 (T20IP)	FS2015 (T20IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1485 (T15IP)	FS1485 (T15IP)	FS1486 (T20IP)	FS1486 (T20IP)

Pastilhas intercambiáveis

	Denominação	D _c mm	P		M		K		N		S	
			HC		HC		HC		HC		HC	
			WMP35	WPP25	WPP45C	WMP35	WKK45C	WNN25	WMP35	WPP25	WPP45C	WPP35
	P6001-D..	12-25,8										
	P6003-D..	12-25,8										
	P6004-D..	12-25,5										
	P6005-D..	12-25,8										
	P6006-D..	12-25,8										

HC = Coated carbide

Broca com insertos intercambiáveis

D4120

mm

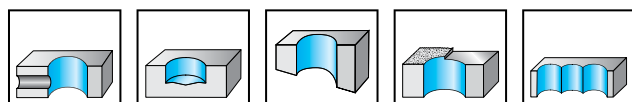
Drion-tec®



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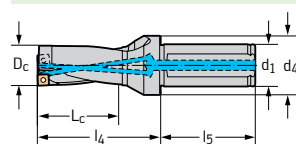
2xD_C

Z = 1



	P	M	K	N	S	H	O
D4120	●	●	●	●	●		

Ferramenta



Cylindrical shank with flat

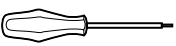
Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tipo
D4120-02-13.50F20-P41	13,5	27	47	50	20	25	0,16	1 / 1	P484 . P-1R- .. P484 . C-1R- ..
D4120-02-14.00F20-P41	14	28	48	50	20	25	0,19	1 / 1	
D4120-02-14.50F20-P41	14,5	29	49	50	20	25	0,19	1 / 1	
D4120-02-15.00F20-P41	15	30	50	50	20	25	0,18	1 / 1	
D4120-02-15.50F20-P41	15,5	31	51	50	20	25	0,21	1 / 1	
D4120-02-16.00F25-P41	16	32	57	56	25	35	0,33	1 / 1	P484 . P-2R- .. P484 . C-2R- ..
D4120-02-16.50F25-P42	16,5	33	58	56	25	35	0,37	1 / 1	
D4120-02-17.00F25-P42	17	34	59	56	25	35	0,37	1 / 1	
D4120-02-17.50F25-P42	17,5	35	60	56	25	35	0,34	1 / 1	
D4120-02-18.00F25-P42	18	36	61	56	25	35	0,38	1 / 1	
D4120-02-18.50F25-P42	18,5	37	62	56	25	35	0,32	1 / 1	
D4120-02-19.00F25-P42	19	38	63	56	25	35	0,35	1 / 1	
D4120-02-19.50F25-P42	19,5	39	64	56	25	35	0,4	1 / 1	
D4120-02-20.00F25-P42	20	40	65	56	25	35	0,4	1 / 1	
D4120-02-20.50F25-P43	20,5	41	66	56	25	35	0,39	1 / 1	P484 . P-3R- .. P484 . C-3R- ..
D4120-02-21.00F25-P43	21	42	67	56	25	35	0,4	1 / 1	
D4120-02-21.50F25-P43	21,5	43	68	56	25	35	0,41	1 / 1	
D4120-02-22.00F25-P43	22	44	69	56	25	35	0,41	1 / 1	
D4120-02-22.50F25-P43	22,5	45	70	56	25	35	0,42	1 / 1	
D4120-02-23.00F25-P43	23	46	71	56	25	35	0,42	1 / 1	
D4120-02-23.50F25-P43	23,5	47	72	56	25	35	0,43	1 / 1	
D4120-02-24.00F25-P43	24	48	73	56	25	35	0,43	1 / 1	P484 . P-4R- .. P484 . C-4R- ..
D4120-02-24.50F25-P44	24,5	49	74	56	25	35	0,42	1 / 1	
D4120-02-25.00F25-P44	25	50	75	56	25	35	0,42	1 / 1	
D4120-02-25.50F32-P44	25,5	51	83	60	32	42	0,69	1 / 1	
D4120-02-26.00F32-P44	26	52	84	60	32	42	0,66	1 / 1	
D4120-02-26.50F32-P44	26,5	53	85	60	32	42	0,7	1 / 1	
D4120-02-27.00F32-P44	27	54	86	60	32	42	0,71	1 / 1	
D4120-02-27.50F32-P44	27,5	55	87	60	32	42	0,75	1 / 1	
D4120-02-28.00F32-P44	28	56	88	60	32	42	0,69	1 / 1	
D4120-02-28.50F32-P44	28,5	57	89	60	32	42	0,74	1 / 1	
D4120-02-29.00F32-P44	29	58	90	60	32	42	0,71	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–35	35,5–42	43–59
	Parafuso para inserto intercambiável Torque de aperto	FS2120 (T6IP) 0,4 Nm	FS2111 (T7IP) 0,9 Nm	FS1454 (T8IP) 1,2 Nm	FS1457 (T9IP) 2 Nm	FS2080 (T15IP) 2,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1495 (T20IP) 5 Nm

Acessórios

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–42	43–59
	Chave com controle de torque, analógica	FS2001	FS2001	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital			FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2085 (T6IP)	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2086 (T6IP)	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-.R-E67		☹	☹	☹	☹	☹	☹	☹			☹
	P4840C-.R-E77									☹	☹	
	P4841C-.R-A57		☹	☹	☹	☹	☹	☹	☹			☹
	P4841C-.R-E57		☹	☹	☹	☹	☹	☹	☹			☹
	P4840C-2R-E67		☹	☹	☹	☹	☹	☹	☹			☹
	P4840C-2R-E77									☹	☹	
	P4841C-2R-A57		☹	☹	☹	☹	☹	☹	☹			☹
	P4841C-2R-E57		☹	☹	☹	☹	☹	☹	☹			☹
	P4840C-3R-E67		☹	☹	☹	☹	☹	☹	☹			☹
	P4840C-3R-E77									☹	☹	
	P4841C-3R-A57		☹	☹	☹	☹	☹	☹	☹			☹
	P4841C-3R-E57		☹	☹	☹	☹	☹	☹	☹			☹
	P4840P-.R-A57	☹	☹	☹		☹		☹	☹			☹
	P4840P-.R-E57	☹	☹	☹		☹		☹	☹			☹
	P4840P-.R-E67	☹	☹	☹		☹		☹	☹			☹
	P4840P-.R-E77									☹	☹	
	P4841P-.R-A57	☹	☹	☹		☹		☹	☹			☹
	P4841P-.R-E57	☹	☹	☹		☹		☹	☹			☹
	P4840P-2R-A57	☹	☹	☹		☹		☹	☹			☹
	P4840P-2R-E57	☹	☹	☹		☹		☹	☹			☹
	P4840P-2R-E67	☹	☹	☹		☹		☹	☹			☹
	P4840P-2R-E77									☹	☹	
	P4841P-2R-A57	☹	☹	☹		☹		☹	☹			☹
	P4841P-2R-E57	☹	☹	☹		☹		☹	☹			☹
	P4840P-3R-A57	☹	☹	☹		☹		☹	☹			☹
	P4840P-3R-E57	☹	☹	☹		☹		☹	☹			☹
	P4840P-3R-E67	☹	☹	☹		☹		☹	☹			☹
	P4840P-3R-E77									☹	☹	
	P4841P-3R-A57	☹	☹	☹		☹		☹	☹			☹
	P4841P-3R-E57	☹	☹	☹		☹		☹	☹			☹

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D4120 mm

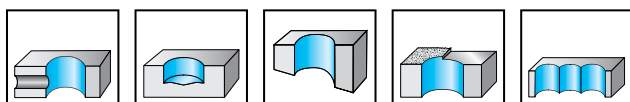
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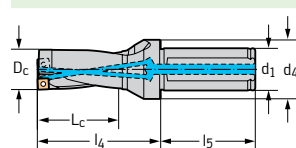
2×D_c

Z = 1



	P	M	K	N	S	H	O
D4120	●	●	●	●	●		

Ferramenta



Cylindrical shank with flat

Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tipo
D4120-02-29.50F32-P45	29,5	59	91	60	32	42	0,79	1 / 1	P484 . P-5R- .. P484 . C-5R- ..
D4120-02-30.00F32-P45	30	60	92	60	32	42	0,73	1 / 1	
D4120-02-30.50F32-P45	30,5	61	93	60	32	42	0,74	1 / 1	
D4120-02-31.00F32-P45	31	62	94	60	32	42	0,75	1 / 1	
D4120-02-31.50F32-P45	31,5	63	95	60	32	42	0,77	1 / 1	
D4120-02-32.00F32-P45	32	64	96	60	32	42	0,78	1 / 1	
D4120-02-32.50F32-P45	32,5	65	97	60	32	42	0,79	1 / 1	
D4120-02-33.00F32-P45	33	66	98	60	32	42	0,84	1 / 1	
D4120-02-33.50F32-P45	33,5	67	99	60	32	42	0,82	1 / 1	
D4120-02-34.00F32-P45	34	68	100	60	32	42	0,83	1 / 1	
D4120-02-34.50F32-P45	34,5	69	101	60	32	42	0,85	1 / 1	P484 . P-6R- .. P484 . C-6R- ..
D4120-02-35.00F32-P45	35	70	102	60	32	42	0,9	1 / 1	
D4120-02-35.50F32-P46	35,5	71	103	60	32	42	0,84	1 / 1	
D4120-02-36.00F32-P46	36	72	104	60	32	42	0,84	1 / 1	
D4120-02-36.50F32-P46	36,5	73	105	60	32	42	0,87	1 / 1	
D4120-02-37.00F40-P46	37	74	114	70	40	50	1,43	1 / 1	
D4120-02-37.50F40-P46	37,5	75	115	70	40	50	1,36	1 / 1	
D4120-02-38.00F40-P46	38	76	116	70	40	50	1,47	1 / 1	
D4120-02-38.50F40-P46	38,5	77	117	70	40	50	1,39	1 / 1	
D4120-02-39.00F40-P46	39	78	118	70	40	50	1,55	1 / 1	
D4120-02-39.50F40-P46	39,5	79	119	70	40	50	1,43	1 / 1	P484 . P-7R- .. P484 . C-7R- ..
D4120-02-40.00F40-P46	40	80	120	70	40	50	1,45	1 / 1	
D4120-02-40.50F40-P46	40,5	81	121	70	40	50	1,49	1 / 1	
D4120-02-41.00F40-P46	41	82	122	70	40	50	1,5	1 / 1	
D4120-02-41.50F40-P46	41,5	83	123	70	40	50	1,51	1 / 1	
D4120-02-42.00F40-P46	42	84	124	70	40	50	1,64	1 / 1	
D4120-02-43.00F40-P47	43	86	126	70	40	50	1,6	1 / 1	
D4120-02-44.00F40-P47	44	88	128	70	40	50	1,66	1 / 1	
D4120-02-45.00F40-P47	45	90	130	70	40	50	1,7	1 / 1	
D4120-02-46.00F40-P47	46	92	132	70	40	50	1,74	1 / 1	
D4120-02-47.00F40-P47	47	94	134	70	40	50	1,8	1 / 1	
D4120-02-48.00F40-P47	48	96	136	70	40	50	1,85	1 / 1	
D4120-02-49.00F40-P47	49	98	138	70	40	50	1,9	1 / 1	
D4120-02-50.00F40-P47	50	100	140	70	40	50	1,84	1 / 1	

Cylindrical shank with flat

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

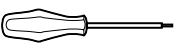
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–35	35,5–42	43–59
	Parafuso para inserto intercambiável Torque de aperto	FS2120 (T6IP) 0,4 Nm	FS2111 (T7IP) 0,9 Nm	FS1454 (T8IP) 1,2 Nm	FS1457 (T9IP) 2 Nm	FS2080 (T15IP) 2,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1495 (T20IP) 5 Nm

Acessórios

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–42	43–59
	Chave com controle de torque, analógica	FS2001	FS2001	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital			FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2085 (T6IP)	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2086 (T6IP)	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-.R-E67		☹	☹	☹	☹	☹	☹	☹			☹
	P4840C-.R-E77									☹	☹	
	P4841C-.R-A57		☹	☹	☹	☹	☹	☹	☹			☹
	P4841C-.R-E57		☹	☹	☹	☹	☹	☹	☹			☹
	P4840C-2R-E67		☹	☹	☹	☹	☹	☹	☹			☹
	P4840C-2R-E77									☹	☹	
	P4841C-2R-A57		☹	☹	☹	☹	☹	☹	☹			☹
	P4841C-2R-E57		☹	☹	☹	☹	☹	☹	☹			☹
	P4840C-3R-E67		☹	☹	☹	☹	☹	☹	☹			☹
	P4840C-3R-E77									☹	☹	
	P4841C-3R-A57		☹	☹	☹	☹	☹	☹	☹			☹
	P4841C-3R-E57		☹	☹	☹	☹	☹	☹	☹			☹
	P4840P-.R-A57	☹	☹	☹		☹		☹	☹			☹
	P4840P-.R-E57	☹	☹	☹		☹		☹	☹			☹
	P4840P-.R-E67	☹	☹	☹		☹		☹	☹			☹
	P4840P-.R-E77									☹	☹	
	P4841P-.R-A57	☹	☹	☹		☹		☹	☹			☹
	P4841P-.R-E57	☹	☹	☹		☹		☹	☹			☹
	P4840P-2R-A57	☹	☹	☹		☹		☹	☹			☹
	P4840P-2R-E57	☹	☹	☹		☹		☹	☹			☹
	P4840P-2R-E67	☹	☹	☹		☹		☹	☹			☹
	P4840P-2R-E77									☹	☹	
	P4841P-2R-A57	☹	☹	☹		☹		☹	☹			☹
	P4841P-2R-E57	☹	☹	☹		☹		☹	☹			☹
	P4840P-3R-A57	☹	☹	☹		☹		☹	☹			☹
	P4840P-3R-E57	☹	☹	☹		☹		☹	☹			☹
	P4840P-3R-E67	☹	☹	☹		☹		☹	☹			☹
	P4840P-3R-E77									☹	☹	
	P4841P-3R-A57	☹	☹	☹		☹		☹	☹			☹
	P4841P-3R-E57	☹	☹	☹		☹		☹	☹			☹

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D4120

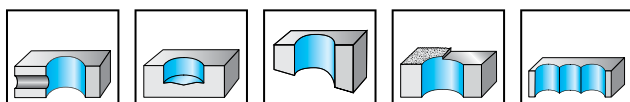
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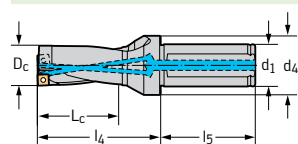
2×D_c

Z = 1



	P	M	K	N	S	H	O
D4120	●●	●●	●●	●●	●●		

Ferramenta



Cylindrical shank with flat

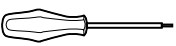
Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tipo
D4120-02-51.00F40-P48	51	102	142	70	40	50	2,01	1 / 1	P484 . P-8R- .. P484 . C-8R- ..
D4120-02-52.00F40-P48	52	104	144	70	40	50	2,04	1 / 1	
D4120-02-53.00F40-P48	53	106	146	70	40	50	2,17	1 / 1	
D4120-02-54.00F40-P48	54	108	148	70	40	50	2,24	1 / 1	
D4120-02-55.00F40-P48	55	110	150	70	40	50	2,19	1 / 1	
D4120-02-56.00F40-P48	56	112	152	70	40	50	2,37	1 / 1	
D4120-02-57.00F40-P48	57	114	154	70	40	50	2,45	1 / 1	
D4120-02-58.00F40-P48	58	116	156	70	40	50	2,54	1 / 1	
D4120-02-59.00F40-P48	59	118	158	70	40	50	2,62	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–35	35,5–42	43–59
	Parafuso para inserto intercambiável Torque de aperto	FS2120 (T6IP) 0,4 Nm	FS2111 (T7IP) 0,9 Nm	FS1454 (T8IP) 1,2 Nm	FS1457 (T9IP) 2 Nm	FS2080 (T15IP) 2,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1495 (T20IP) 5 Nm

Acessórios

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–42	43–59
	Chave com controle de torque, analógica	FS2001	FS2001	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital			FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2085 (T6IP)	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2086 (T6IP)	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-R-E67	1-8										
	P4840C-R-E77	1-8										
	P4841C-R-A57	1-8										
	P4841C-R-E57	1-8										
	P4840C-2R-E67	2										
	P4840C-2R-E77	2										
	P4841C-2R-A57	2										
	P4841C-2R-E57	2										
	P4840C-3R-E67	3										
	P4840C-3R-E77	3										
	P4841C-3R-A57	3										
	P4841C-3R-E57	3										
	P4840P-R-A57	1-8										
	P4840P-R-E57	1-8										
	P4840P-R-E67	1-8										
	P4840P-R-E77	1-8										
	P4841P-R-A57	1-8										
	P4841P-R-E57	1-8										
	P4840P-2R-A57	2										
	P4840P-2R-E57	2										
	P4840P-2R-E67	2										
	P4840P-2R-E77	2										
	P4841P-2R-A57	2										
	P4841P-2R-E57	2										
	P4840P-3R-A57	3										
	P4840P-3R-E57	3										
	P4840P-3R-E67	3										
	P4840P-3R-E77	3										
	P4841P-3R-A57	3										
	P4841P-3R-E57	3										

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D4120 inch

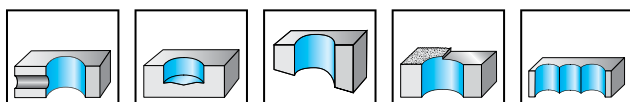
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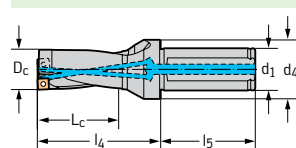
2×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●	●	●	●	●		

Ferramenta



Cylindrical shank with flat

Denominação	D _C inch	L _C inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos	Tipo
D4120.02-13.49F19-P41	0,531	1,062	1,849	2,031	0,750	1,125	0,509	1 / 1	P484 . P-1R- .. P484 . C-1R- ..
D4120.02-13.89F19-P41	0,547	1,094	1,881	2,031	0,750	1,125	0,511	1 / 1	
D4120.02-14.27F19-P41	0,562	1,124	1,911	2,031	0,750	1,125	0,516	1 / 1	
D4120.02-14.68F19-P41	0,578	1,156	1,943	2,031	0,750	1,125	0,419	1 / 1	
D4120.02-15.09F19-P41	0,594	1,188	1,975	2,031	0,750	1,125	0,525	1 / 1	
D4120.02-15.47F19-P41	0,609	1,218	2,005	2,031	0,750	1,125	0,529	1 / 1	P484 . P-2R- .. P484 . C-2R- ..
D4120.02-15.88F19-P41	0,625	1,250	2,037	2,031	0,750	1,125	0,437	1 / 1	
D4120.02-16.66F26-P42	0,656	1,312	2,310	2,281	1,000	1,375	0,922	1 / 1	
D4120.02-17.04F26-P42	0,671	1,342	2,34	2,281	1,000	1,375	0,926	1 / 1	
D4120.02-17.45F26-P42	0,687	1,374	2,37	2,281	1,000	1,375	0,767	1 / 1	
D4120.02-17.86F26-P42	0,703	1,406	2,410	2,281	1,000	1,375	0,948	1 / 1	
D4120.02-18.24F26-P42	0,718	1,436	2,44	2,281	1,000	1,375	0,891	1 / 1	
D4120.02-19.05F26-P42	0,750	1,500	2,500	2,281	1,000	1,375	0,895	1 / 1	
D4120.02-19.43F26-P42	0,765	1,530	2,530	2,281	1,000	1,375	0,97	1 / 1	
D4120.02-19.84F26-P42	0,781	1,562	2,560	2,281	1,000	1,375	0,882	1 / 1	
D4120.02-20.62F26-P43	0,812	1,624	2,62	2,281	1,000	1,375	0,097	1 / 1	P484 . P-3R- .. P484 . C-3R- ..
D4120.02-21.41F26-P43	0,843	1,686	2,69	2,281	1,000	1,375	0,992	1 / 1	
D4120.02-22.23F31-P43	0,875	1,750	2,880	2,281	1,250	1,625	1,433	1 / 1	
D4120.02-23.01F31-P43	0,906	1,812	2,94	2,281	1,250	1,625	1,455	1 / 1	
D4120.02-23.39F31-P43	0,921	1,842	2,97	2,281	1,250	1,625	1,466	1 / 1	
D4120.02-23.80F31-P43	0,937	1,874	3,000	2,281	1,250	1,625	1,477	1 / 1	P484 . P-4R- .. P484 . C-4R- ..
D4120.02-24.59F31-P44	0,968	1,936	3,07	2,281	1,250	1,625	1,554	1 / 1	
D4120.02-24.99F31-P44	0,984	1,968	3,100	2,281	1,250	1,625	1,398	1 / 1	
D4120.02-25.40F31-P44	1,000	2,000	3,130	2,281	1,250	1,625	1,576	1 / 1	
D4120.02-26.57F31-P44	1,046	2,092	3,22	2,281	1,250	1,625	1,590	1 / 1	
D4120.02-26.97F31-P44	1,062	2,124	3,250	2,281	1,250	1,625	1,609	1 / 1	
D4120.02-28.17F31-P44	1,109	2,218	3,350	2,281	1,250	1,625	1,66	1 / 1	
D4120.02-28.58F31-P44	1,125	2,250	3,380	2,281	1,250	1,625	1,698	1 / 1	P484 . P-5R- .. P484 . C-5R- ..
D4120.02-29.74F31-P45	1,171	2,342	3,47	2,281	1,250	1,625	1,695	1 / 1	
D4120.02-30.15F31-P45	1,187	2,374	3,500	2,281	1,250	1,625	1,737	1 / 1	
D4120.02-31.75F31-P45	1,250	2,500	3,630	2,281	1,250	1,625	1,808	1 / 1	
D4120.02-33.32F31-P45	1,312	2,624	3,750	2,281	1,250	1,625	1,9	1 / 1	
D4120.02-34.11F31-P45	1,343	2,686	3,82	2,281	1,250	1,625	1,953	1 / 1	
D4120.02-34.93F31-P45	1,375	2,750	3,880	2,281	1,250	1,625	1,993	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

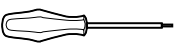
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [inch]	0,531–0,625	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,375	1,421–1,625	1,687–2,25
	Parafuso para inserto intercambiável Torque de aperto	FS2120 (T6IP) 0,295 lbs	FS2111 (T7IP) 0,664 lbs	FS1454 (T8IP) 0,885 lbs	FS1457 (T9IP) 1,475 lbs	FS2080 (T15IP) 1,844 lbs	FS1453 (T15IP) 2,581 lbs	FS1495 (T20IP) 3,688 lbs

Acessórios

	D _c [inch]	0,531–0,625	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,625	1,687–2,25
	Chave com controle de torque, analógica	FS2002	FS2002	FS2002	FS2004	FS2004	FS2004
	Chave com controle de torque, digital			FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2085 (T6IP)	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2086 (T6IP)	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-.R-E67											
	P4840C-.R-E77											
	P4841C-.R-A57											
	P4841C-.R-E57											
	P4840C-2R-E67											
	P4840C-2R-E77											
	P4841C-2R-A57											
	P4841C-2R-E57											
	P4840C-3R-E67											
	P4840C-3R-E77											
	P4841C-3R-A57											
	P4841C-3R-E57											
	P4840P-.R-A57											
	P4840P-.R-E57											
	P4840P-.R-E67											
	P4840P-.R-E77											
	P4841P-.R-A57											
	P4841P-.R-E57											
	P4840P-2R-A57											
	P4840P-2R-E57											
	P4840P-2R-E67											
	P4840P-2R-E77											
	P4841P-2R-A57											
	P4841P-2R-E57											
	P4840P-3R-A57											
	P4840P-3R-E57											
	P4840P-3R-E67											
	P4840P-3R-E77											
	P4841P-3R-A57											
	P4841P-3R-E57											

P48 ... C = inserto central
P48 ... P = inserto periférico

HC = metal duro com revestimento
HW = Metal duro não revestido

Broca com insertos intercambiáveis

D4120 inch

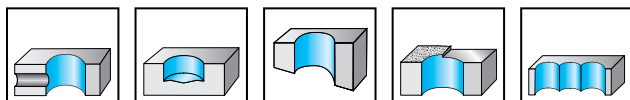
Drion-tec®



B1

2×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●	●	●	●	●		

Ferramenta

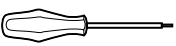
	Denominação	D _C inch	L _C inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos	Tipo
 Cylindrical shank with flat	D4120.02-36.09F31-P46	1,421	2,842	3,97	2,281	1,250	1,625	1,94	1 / 1	P484 . P-6R- .. P484 . C-6R- ..
	D4120.02-36.50F38-P46	1,437	2,874	4,250	2,688	1,500	1,940	2,734	1 / 1	
	D4120.02-38.10F38-P46	1,500	3,000	4,380	2,688	1,500	1,940	2,939	1 / 1	
	D4120.02-39.67F38-P46	1,562	3,124	4,500	2,688	1,500	1,940	2,987	1 / 1	
	D4120.02-41.28F38-P46	1,625	3,250	4,630	2,688	1,500	1,940	3,064	1 / 1	
 Cylindrical shank with flat	D4120.02-42.85F38-P47	1,687	3,374	4,750	2,688	1,500	1,940	3,025	1 / 1	P484 . P-7R- .. P484 . C-7R- ..
	D4120.02-44.45F38-P47	1,750	3,500	4,880	2,688	1,500	1,940	3,166	1 / 1	
	D4120.02-46.02F38-P47	1,812	3,624	5,000	2,688	1,500	1,940	3,32	1 / 1	
	D4120.02-47.63F38-P47	1,875	3,750	5,130	2,688	1,500	1,940	3,499	1 / 1	
	D4120.02-49.20F38-P47	1,937	3,874	5,250	2,688	1,500	1,940	3,691	1 / 1	
 Cylindrical shank with flat	D4120.02-50.80F51-P48	2,000	4,000	5,62	3,250	2,000	2,440	5,944	1 / 1	P484 . P-8R- .. P484 . C-8R- ..
	D4120.02-52.37F51-P48	2,062	4,124	5,74	3,250	2,000	2,440	6,169	1 / 1	
	D4120.02-53.98F51-P48	2,125	4,250	5,87	3,250	2,000	2,440	6,418	1 / 1	
	D4120.02-55.55F51-P48	2,187	4,374	5,99	3,250	2,000	2,440	6,656	1 / 1	
	D4120.02-57.15F51-P48	2,250	4,500	6,12	3,250	2,000	2,440	6,925	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [inch]	0,531–0,625	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,375	1,421–1,625	1,687–2,25
	Parafuso para inserto intercambiável Torque de aperto	FS2120 (T6IP) 0,295 lbs	FS2111 (T7IP) 0,664 lbs	FS1454 (T8IP) 0,885 lbs	FS1457 (T9IP) 1,475 lbs	FS2080 (T15IP) 1,844 lbs	FS1453 (T15IP) 2,581 lbs	FS1495 (T20IP) 3,688 lbs

Acessórios

	D _c [inch]	0,531–0,625	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,625	1,687–2,25
	Chave com controle de torque, analógica	FS2002	FS2002	FS2002	FS2004	FS2004	FS2004
	Chave com controle de torque, digital			FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2085 (T6IP)	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2086 (T6IP)	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-.R-E67											
	P4840C-.R-E77											
	P4841C-.R-A57											
	P4841C-.R-E57											
	P4840C-2R-E67											
	P4840C-2R-E77											
	P4841C-2R-A57											
	P4841C-2R-E57											
	P4840C-3R-E67											
	P4840C-3R-E77											
	P4841C-3R-A57											
	P4841C-3R-E57											
	P4840P-.R-A57											
	P4840P-.R-E57											
	P4840P-.R-E67											
	P4840P-.R-E77											
	P4841P-.R-A57											
	P4841P-.R-E57											
	P4840P-2R-A57											
	P4840P-2R-E57											
	P4840P-2R-E67											
	P4840P-2R-E77											
	P4841P-2R-A57											
	P4841P-2R-E57											
	P4840P-3R-A57											
	P4840P-3R-E57											
	P4840P-3R-E67											
	P4840P-3R-E77											
	P4841P-3R-A57											
	P4841P-3R-E57											

P48 ... C = inserto central
P48 ... P = inserto periférico

HC = metal duro com revestimento
HW = Metal duro não revestido

Broca com insertos intercambiáveis

D4120 mm

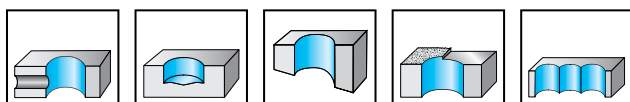
Drion-tec®



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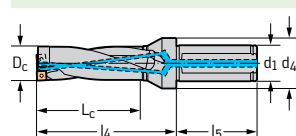
3×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●	●	●	●	●		

Ferramenta



Cylindrical shank with flat

Denominação	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tipo
D4120-03-13.50F20-P41	13,5	40,5	60,5	50	20	25	0,16	1 / 1	P484 . P-1R- ... P484 . C-1R- ...
D4120-03-14.00F20-P41	14	42	62	50	20	25	0,17	1 / 1	
D4120-03-14.50F20-P41	14,5	43,5	63,5	50	20	25	0,2	1 / 1	
D4120-03-15.00F20-P41	15	45	65	50	20	25	0,2	1 / 1	
D4120-03-15.50F20-P41	15,5	46,5	66,5	50	20	25	0,21	1 / 1	
D4120-03-16.00F25-P41	16	48	73	56	25	35	0,37	1 / 1	P484 . P-2R- ... P484 . C-2R- ...
D4120-03-16.50F25-P42	16,5	49,5	75	56	25	35	0,2	1 / 1	
D4120-03-17.00F25-P42	17	51	76	56	25	35	0,35	1 / 1	
D4120-03-17.50F25-P42	17,5	52,5	77,5	56	25	35	0,4	1 / 1	
D4120-03-18.00F25-P42	18	54	79	56	25	35	0,36	1 / 1	
D4120-03-18.50F25-P42	18,5	55,5	80,5	56	25	35	0,39	1 / 1	P484 . P-3R- ... P484 . C-3R- ...
D4120-03-19.00F25-P42	19	57	82	56	25	35	0,4	1 / 1	
D4120-03-19.50F25-P42	19,5	58,5	84	56	25	35	0,4	1 / 1	
D4120-03-20.00F25-P42	20	60	85	56	25	35	0,43	1 / 1	
D4120-03-20.50F25-P43	20,5	61,5	87	56	25	35	0,43	1 / 1	
D4120-03-21.00F25-P43	21	63	88	56	25	35	0,43	1 / 1	P484 . P-4R- ... P484 . C-4R- ...
D4120-03-21.50F25-P43	21,5	64,5	90	56	25	35	0,44	1 / 1	
D4120-03-22.00F25-P43	22	66	91	56	25	35	0,43	1 / 1	
D4120-03-22.50F25-P43	22,5	67,5	93	56	25	35	0,46	1 / 1	
D4120-03-23.00F25-P43	23	69	94	56	25	35	0,43	1 / 1	
D4120-03-23.50F25-P43	23,5	70,5	96	56	25	35	0,51	1 / 1	P484 . P-4R- ... P484 . C-4R- ...
D4120-03-24.00F25-P43	24	72	97	56	25	35	0,49	1 / 1	
D4120-03-24.50F25-P44	24,5	73,5	99	56	25	35	0,47	1 / 1	
D4120-03-25.00F25-P44	25	75	100	56	25	35	0,48	1 / 1	
D4120-03-25.50F32-P44	25,5	76,5	109	60	32	42	0,78	1 / 1	
D4120-03-26.00F32-P44	26	78	110	60	32	42	0,71	1 / 1	P484 . P-4R- ... P484 . C-4R- ...
D4120-03-26.50F32-P44	26,5	79,5	112	60	32	42	0,77	1 / 1	
D4120-03-27.00F32-P44	27	81	113	60	32	42	0,74	1 / 1	
D4120-03-27.50F32-P44	27,5	82,5	115	60	32	42	0,83	1 / 1	
D4120-03-28.00F32-P44	28	84	116	60	32	42	0,83	1 / 1	
D4120-03-28.50F32-P44	28,5	85,5	118	60	32	42	0,78	1 / 1	P484 . P-4R- ... P484 . C-4R- ...
D4120-03-29.00F32-P44	29	87	119	60	32	42	0,87	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

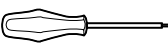
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–35	35,5–42	43–59
	Parafuso para inserto intercambiável Torque de aperto	FS2120 (T6IP) 0,4 Nm	FS2111 (T7IP) 0,9 Nm	FS1454 (T8IP) 1,2 Nm	FS1457 (T9IP) 2 Nm	FS2080 (T15IP) 2,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1495 (T20IP) 5 Nm

Acessórios

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–42	43–59
	Chave com controle de torque, analógica	FS2001	FS2001	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital			FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2085 (T6IP)	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2086 (T6IP)	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC	HW	HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-R-E67		☹	☹	☹	☹	☹		☹			☹
	P4840C-R-E77									☹	☹	
	P4841C-R-A57		☹	☹	☹	☹	☹		☹			☹
	P4841C-R-E57		☹	☹	☹	☹	☹		☹			☹
	P4840C-2R-E67		☹	☹	☹	☹	☹		☹			☹
	P4840C-2R-E77									☹	☹	
	P4841C-2R-A57		☹	☹	☹	☹	☹		☹			☹
	P4841C-2R-E57		☹	☹	☹	☹	☹		☹			☹
	P4840C-3R-E67		☹	☹	☹	☹	☹		☹			☹
	P4840C-3R-E77									☹	☹	
	P4841C-3R-A57		☹	☹	☹	☹	☹		☹			☹
	P4841C-3R-E57		☹	☹	☹	☹	☹		☹			☹
	P4840P-R-A57	☹	☹	☹				☹	☹			☹
	P4840P-R-E57	☹	☹	☹				☹	☹			☹
	P4840P-R-E67	☹	☹	☹				☹	☹			☹
	P4840P-R-E77									☹	☹	
	P4841P-R-A57	☹	☹	☹				☹	☹			☹
	P4841P-R-E57	☹	☹	☹				☹	☹			☹
	P4840P-2R-A57	☹	☹	☹				☹	☹			☹
	P4840P-2R-E57	☹	☹	☹				☹	☹			☹
	P4840P-2R-E67	☹	☹	☹				☹	☹			☹
	P4840P-2R-E77									☹	☹	
	P4841P-2R-A57	☹	☹	☹				☹	☹			☹
	P4841P-2R-E57	☹	☹	☹				☹	☹			☹
	P4840P-3R-A57	☹	☹	☹				☹	☹			☹
	P4840P-3R-E57	☹	☹	☹				☹	☹			☹
	P4840P-3R-E67	☹	☹	☹				☹	☹			☹
	P4840P-3R-E77									☹	☹	
	P4841P-3R-A57	☹	☹	☹				☹	☹			☹
	P4841P-3R-E57	☹	☹	☹				☹	☹			☹

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D4120 mm

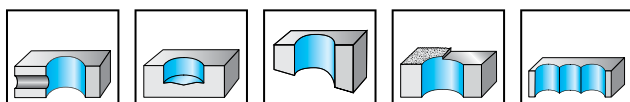
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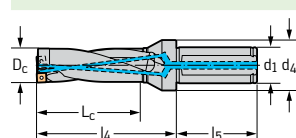
3×D_c

Z = 1



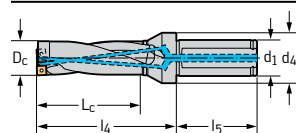
	P	M	K	N	S	H	O
D4120	●	●	●	●	●		

Ferramenta



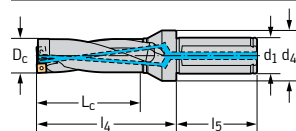
Cylindrical shank with flat

Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tipo
D4120-03-29.50F32-P45	29,5	88,5	121	60	32	42	0,88	1 / 1	P484 . P-5R- ..
D4120-03-30.00F32-P45	30	90	122	60	32	42	0,82	1 / 1	P484 . C-5R- ..
D4120-03-30.50F32-P45	30,5	91,5	124	60	32	42	0,84	1 / 1	
D4120-03-31.00F32-P45	31	93	125	60	32	42	0,93	1 / 1	
D4120-03-31.50F32-P45	31,5	94,5	127	60	32	42	0,88	1 / 1	
D4120-03-32.00F32-P45	32	96	128	60	32	42	0,95	1 / 1	
D4120-03-32.50F32-P45	32,5	97,5	130	60	32	42	0,92	1 / 1	
D4120-03-33.00F32-P45	33	99	131	60	32	42	0,93	1 / 1	
D4120-03-33.50F32-P45	33,5	100,5	133	60	32	42	0,96	1 / 1	
D4120-03-34.00F32-P45	34	102	134	60	32	42	0,97	1 / 1	
D4120-03-34.50F32-P45	34,5	103,5	136	60	32	42	1	1 / 1	
D4120-03-35.00F32-P45	35	105	137	60	32	42	1,08	1 / 1	



Cylindrical shank with flat

D4120-03-35.50F32-P46	35,5	106,5	139	60	32	42	1	1 / 1	P484 . P-6R- ..
D4120-03-36.00F32-P46	36	108	140	60	32	42	1,02	1 / 1	P484 . C-6R- ..
D4120-03-36.50F32-P46	36,5	109,5	142	60	32	42	1,04	1 / 1	
D4120-03-37.00F40-P46	37	111	151	70	40	50	1,68	1 / 1	
D4120-03-37.50F40-P46	37,5	112,5	153	70	40	50	1,55	1 / 1	
D4120-03-38.00F40-P46	38	114	154	70	40	50	1,17	1 / 1	
D4120-03-38.50F40-P46	38,5	115,5	156	70	40	50	1,6	1 / 1	
D4120-03-39.00F40-P46	39	117	157	70	40	50	1,76	1 / 1	
D4120-03-39.50F40-P46	39,5	118,5	159	70	40	50	1,66	1 / 1	
D4120-03-40.00F40-P46	40	120	160	70	40	50	1,68	1 / 1	
D4120-03-40.50F40-P46	40,5	121,5	162	70	40	50	1,71	1 / 1	
D4120-03-41.00F40-P46	41	123	163	70	40	50	1,82	1 / 1	
D4120-03-41.50F40-P46	41,5	124,5	165	70	40	50	1,78	1 / 1	
D4120-03-42.00F40-P46	42	126	166	70	40	50	1,94	1 / 1	



Cylindrical shank with flat

D4120-03-43.00F40-P47	43	129	169	70	40	50	1,79	1 / 1	P484 . P-7R- ..
D4120-03-44.00F40-P47	44	132	172	70	40	50	2,03	1 / 1	P484 . C-7R- ..
D4120-03-45.00F40-P47	45	135	175	70	40	50	1,92	1 / 1	
D4120-03-46.00F40-P47	46	138	178	70	40	50	2,17	1 / 1	
D4120-03-47.00F40-P47	47	141	181	70	40	50	2,18	1 / 1	
D4120-03-48.00F40-P47	48	144	184	70	40	50	2,15	1 / 1	
D4120-03-49.00F40-P47	49	147	187	70	40	50	2,33	1 / 1	
D4120-03-50.00F40-P47	50	150	190	70	40	50	2,45	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

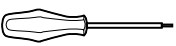
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–35	35,5–42	43–59
	Parafuso para inserto intercambiável Torque de aperto	FS2120 (T6IP) 0,4 Nm	FS2111 (T7IP) 0,9 Nm	FS1454 (T8IP) 1,2 Nm	FS1457 (T9IP) 2 Nm	FS2080 (T15IP) 2,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1495 (T20IP) 5 Nm

Acessórios

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–42	43–59
	Chave com controle de torque, analógica	FS2001	FS2001	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital			FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2085 (T6IP)	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2086 (T6IP)	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S	
		HC				HC		HC		HC		HW	
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G	
	P4840C-R-E67	1-8											
	P4840C-R-E77	1-8											
	P4841C-R-A57	1-8											
	P4841C-R-E57	1-8											
	P4840C-2R-E67	2											
	P4840C-2R-E77	2											
	P4841C-2R-A57	2											
	P4841C-2R-E57	2											
	P4840C-3R-E67	3											
	P4840C-3R-E77	3											
	P4841C-3R-A57	3											
	P4841C-3R-E57	3											
	P4840P-R-A57	1-8											
	P4840P-R-E57	1-8											
	P4840P-R-E67	1-8											
	P4840P-R-E77	1-8											
	P4841P-R-A57	1-8											
	P4841P-R-E57	1-8											
	P4840P-2R-A57	2											
	P4840P-2R-E57	2											
	P4840P-2R-E67	2											
	P4840P-2R-E77	2											
	P4841P-2R-A57	2											
	P4841P-2R-E57	2											
	P4840P-3R-A57	3											
	P4840P-3R-E57	3											
	P4840P-3R-E67	3											
	P4840P-3R-E77	3											
	P4841P-3R-A57	3											
	P4841P-3R-E57	3											

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D4120

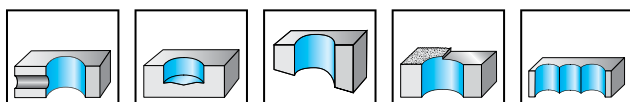
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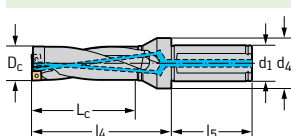
3×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●●	●●	●●	●●	●●		

Ferramenta



Cylindrical shank with flat

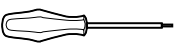
Denominação	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tipo
D4120-03-51.00F40-P48	51	153	193	70	40	50	2,5	1 / 1	P484 . P-8R- ... P484 . C-8R- ...
D4120-03-52.00F40-P48	52	156	196	70	40	50	2,6	1 / 1	
D4120-03-53.00F40-P48	53	159	199	70	40	50	2,69	1 / 1	
D4120-03-54.00F40-P48	54	162	202	70	40	50	2,8	1 / 1	
D4120-03-55.00F40-P48	55	165	205	70	40	50	2,9	1 / 1	
D4120-03-56.00F40-P48	56	168	208	70	40	50	3	1 / 1	
D4120-03-57.00F40-P48	57	171	211	70	40	50	3,12	1 / 1	
D4120-03-58.00F40-P48	58	174	214	70	40	50	3,23	1 / 1	
D4120-03-59.00F40-P48	59	177	217	70	40	50	3,36	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–35	35,5–42	43–59
	Parafuso para inserto intercambiável Torque de aperto	FS2120 (T6IP) 0,4 Nm	FS2111 (T7IP) 0,9 Nm	FS1454 (T8IP) 1,2 Nm	FS1457 (T9IP) 2 Nm	FS2080 (T15IP) 2,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1495 (T20IP) 5 Nm

Acessórios

	D _c [mm]	13,5–16	16,5–20	20,5–24	24,5–29	29,5–42	43–59
	Chave com controle de torque, analógica	FS2001	FS2001	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital			FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2085 (T6IP)	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2086 (T6IP)	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-.R-E67											
	P4840C-.R-E77											
	P4841C-.R-A57											
	P4841C-.R-E57											
	P4840C-2R-E67											
	P4840C-2R-E77											
	P4841C-2R-A57											
	P4841C-2R-E57											
	P4840C-3R-E67											
	P4840C-3R-E77											
	P4841C-3R-A57											
	P4841C-3R-E57											
	P4840P-.R-A57											
	P4840P-.R-E57											
	P4840P-.R-E67											
	P4840P-.R-E77											
	P4841P-.R-A57											
	P4841P-.R-E57											
	P4840P-2R-A57											
	P4840P-2R-E57											
	P4840P-2R-E67											
	P4840P-2R-E77											
	P4841P-2R-A57											
	P4841P-2R-E57											
	P4840P-3R-A57											
	P4840P-3R-E57											
	P4840P-3R-E67											
	P4840P-3R-E77											
	P4841P-3R-A57											
	P4841P-3R-E57											

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D4120 inch

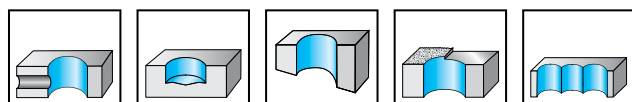
Drion-tec®



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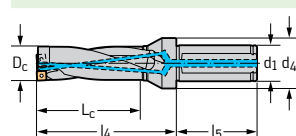
3×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●	●	●	●	●		

Ferramenta



Cylindrical shank with flat

Denominação	D _C inch	L _C inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos	Tipo
D4120.03-13.49F19-P41	0,531	1,593	2,380	2,031	0,750	1,125	0,419	1 / 1	P484 . P-1R- .. P484 . C-1R- ..
D4120.03-13.89F19-P41	0,547	1,641	2,428	2,031	0,750	1,125	0,373	1 / 1	
D4120.03-14.27F19-P41	0,562	1,686	2,473	2,031	0,750	1,125	0,531	1 / 1	
D4120.03-14.68F19-P41	0,578	1,734	2,521	2,031	0,750	1,125	0,538	1 / 1	
D4120.03-15.09F19-P41	0,594	1,782	2,569	2,031	0,750	1,125	0,441	1 / 1	
D4120.03-15.47F19-P41	0,609	1,827	2,614	2,031	0,750	1,125	0,452	1 / 1	
D4120.03-15.88F19-P41	0,625	1,875	2,662	2,031	0,750	1,125	0,465	1 / 1	P484 . P-2R- .. P484 . C-2R- ..
D4120.03-16.66F26-P42	0,656	1,968	2,97	2,281	1,000	1,375	0,948	1 / 1	
D4120.03-17.04F26-P42	0,671	2,013	3,010	2,281	1,000	1,375	0,882	1 / 1	
D4120.03-17.45F26-P42	0,687	2,061	3,060	2,281	1,000	1,375	0,904	1 / 1	
D4120.03-17.86F26-P42	0,703	2,109	3,110	2,281	1,000	1,375	0,904	1 / 1	
D4120.03-18.24F26-P42	0,718	2,154	3,150	2,281	1,000	1,375	0,926	1 / 1	
D4120.03-19.05F26-P42	0,750	2,250	3,250	2,281	1,000	1,375	0,946	1 / 1	P484 . P-3R- .. P484 . C-3R- ..
D4120.03-19.43F26-P42	0,765	2,295	3,300	2,281	1,000	1,375	0,948	1 / 1	
D4120.03-19.84F26-P42	0,781	2,343	3,34	2,281	1,000	1,375	1,036	1 / 1	
D4120.03-20.62F26-P43	0,812	2,436	3,44	2,281	1,000	1,375	0,974	1 / 1	
D4120.03-21.41F26-P43	0,843	2,529	3,530	2,281	1,000	1,375	1,058	1 / 1	
D4120.03-22.23F31-P43	0,875	2,625	3,760	2,281	1,250	1,625	1,453	1 / 1	
D4120.03-23.01F31-P43	0,906	2,718	3,850	2,281	1,250	1,625	1,543	1 / 1	P484 . P-4R- .. P484 . C-4R- ..
D4120.03-23.39F31-P43	0,921	2,763	3,89	2,281	1,250	1,625	1,499	1 / 1	
D4120.03-23.80F31-P43	0,937	2,811	3,94	2,281	1,250	1,625	1,521	1 / 1	
D4120.03-24.59F31-P44	0,968	2,904	4,030	2,281	1,250	1,625	1,477	1 / 1	
D4120.03-24.99F31-P44	0,984	2,952	4,080	2,281	1,250	1,625	1,499	1 / 1	
D4120.03-25.40F31-P44	1,000	3,000	4,130	2,281	1,250	1,625	1,676	1 / 1	
D4120.03-26.57F31-P44	1,046	3,138	4,27	2,281	1,250	1,625	1,565	1 / 1	P484 . P-5R- .. P484 . C-5R- ..
D4120.03-26.97F31-P44	1,062	3,186	4,32	2,281	1,250	1,625	1,764	1 / 1	
D4120.03-28.17F31-P44	1,109	3,327	4,460	2,281	1,250	1,625	1,731	1 / 1	
D4120.03-28.58F31-P44	1,125	3,375	4,510	2,281	1,250	1,625	1,764	1 / 1	
D4120.03-29.74F31-P45	1,171	3,513	4,64	2,281	1,250	1,625	1,764	1 / 1	
D4120.03-30.15F31-P45	1,187	3,561	4,69	2,281	1,250	1,625	1,852	1 / 1	
D4120.03-31.75F31-P45	1,250	3,750	4,880	2,281	1,250	1,625	1,984	1 / 1	P484 . P-5R- .. P484 . C-5R- ..
D4120.03-33.32F31-P45	1,312	3,936	5,07	2,281	1,250	1,625	2,123	1 / 1	
D4120.03-34.11F31-P45	1,343	4,029	5,160	2,281	1,250	1,625	2,172	1 / 1	
D4120.03-34.93F31-P45	1,375	4,125	5,260	2,281	1,250	1,625	2,339	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

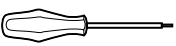
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [inch]	0,531–0,625	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,375	1,421–1,625	1,687–2,25
	Parafuso para inserto intercambiável Torque de aperto	FS2120 (T6IP) 0,295 lbs	FS2111 (T7IP) 0,664 lbs	FS1454 (T8IP) 0,885 lbs	FS1457 (T9IP) 1,475 lbs	FS2080 (T15IP) 1,844 lbs	FS1453 (T15IP) 2,581 lbs	FS1495 (T20IP) 3,688 lbs

Acessórios

	D _c [inch]	0,531–0,625	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,625	1,687–2,25
	Chave com controle de torque, analógica	FS2002	FS2002	FS2002	FS2004	FS2004	FS2004
	Chave com controle de torque, digital			FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2085 (T6IP)	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2086 (T6IP)	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-.R-E67											
	P4840C-.R-E77											
	P4841C-.R-A57											
	P4841C-.R-E57											
	P4840C-2R-E67											
	P4840C-2R-E77											
	P4841C-2R-A57											
	P4841C-2R-E57											
	P4840C-3R-E67											
	P4840C-3R-E77											
	P4841C-3R-A57											
	P4841C-3R-E57											
	P4840P-.R-A57											
	P4840P-.R-E57											
	P4840P-.R-E67											
	P4840P-.R-E77											
	P4841P-.R-A57											
	P4841P-.R-E57											
	P4840P-2R-A57											
	P4840P-2R-E57											
	P4840P-2R-E67											
	P4840P-2R-E77											
	P4841P-2R-A57											
	P4841P-2R-E57											
	P4840P-3R-A57											
	P4840P-3R-E57											
	P4840P-3R-E67											
	P4840P-3R-E77											
	P4841P-3R-A57											
	P4841P-3R-E57											

P48...C = inserto central
P48...P = inserto periférico

HC = metal duro com revestimento
HW = Metal duro não revestido

Broca com insertos intercambiáveis

D4120 inch

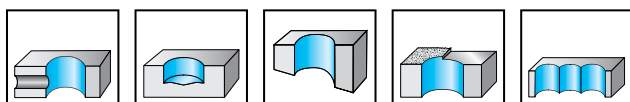
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B1

3×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●●	●●	●●	●●	●●		

Ferramenta

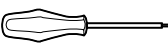
	Denominação	D _C inch	L _C inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos	Tipo
 Cylindrical shank with flat	D4120.03-36.09F31-P46	1,421	4,263	5,39	2,281	1,250	1,625	2,271	1 / 1	P484 . P-6R- .. P484 . C-6R- ..
	D4120.03-36.50F38-P46	1,437	4,311	5,69	2,688	1,500	1,940	3,086	1 / 1	
	D4120.03-38.10F38-P46	1,500	4,500	5,880	2,688	1,500	1,940	3,362	1 / 1	
	D4120.03-39.67F38-P46	1,562	4,686	6,07	2,688	1,500	1,940	3,461	1 / 1	
	D4120.03-41.28F38-P46	1,625	4,875	6,260	2,688	1,500	1,940	3,527	1 / 1	
 Cylindrical shank with flat	D4120.03-42.85F38-P47	1,687	5,061	6,44	2,688	1,500	1,940	3,675	1 / 1	P484 . P-7R- .. P484 . C-7R- ..
	D4120.03-44.45F38-P47	1,750	5,250	6,630	2,688	1,500	1,940	3,900	1 / 1	
	D4120.03-46.02F38-P47	1,812	5,436	6,82	2,688	1,500	1,940	4,365	1 / 1	
	D4120.03-47.63F38-P47	1,875	5,625	7,010	2,688	1,500	1,940	4,42	1 / 1	
	D4120.03-49.20F38-P47	1,937	5,811	7,19	2,688	1,500	1,940	4,711	1 / 1	
 Cylindrical shank with flat	D4120.03-50.80F51-P48	2,000	6,000	7,62	3,250	2,000	2,440	7,002	1 / 1	P484 . P-8R- .. P484 . C-8R- ..
	D4120.03-52.37F51-P48	2,062	6,186	7,810	3,250	2,000	2,440	7,322	1 / 1	
	D4120.03-53.98F51-P48	2,125	6,375	8,000	3,250	2,000	2,440	7,685	1 / 1	
	D4120.03-55.55F51-P48	2,187	6,561	8,180	3,250	2,000	2,440	8,047	1 / 1	
	D4120.03-57.15F51-P48	2,250	6,750	8,37	3,250	2,000	2,440	8,508	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [inch]	0,531–0,625	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,375	1,421–1,625	1,687–2,25
	Parafuso para inserto intercambiável Torque de aperto	FS2120 (T6IP) 0,295 lbs	FS2111 (T7IP) 0,664 lbs	FS1454 (T8IP) 0,885 lbs	FS1457 (T9IP) 1,475 lbs	FS2080 (T15IP) 1,844 lbs	FS1453 (T15IP) 2,581 lbs	FS1495 (T20IP) 3,688 lbs

Acessórios

	D _c [inch]	0,531–0,625	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,625	1,687–2,25
	Chave com controle de torque, analógica	FS2002	FS2002	FS2002	FS2004	FS2004	FS2004
	Chave com controle de torque, digital			FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2085 (T6IP)	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2086 (T6IP)	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S	
		HC				HC		HC		HC HW		HC	
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G	
	P4840C-.R-E67												
	P4840C-.R-E77												
	P4841C-.R-A57												
	P4841C-.R-E57												
	P4840C-2R-E67												
	P4840C-2R-E77												
	P4841C-2R-A57												
	P4841C-2R-E57												
	P4840C-3R-E67												
	P4840C-3R-E77												
	P4841C-3R-A57												
	P4841C-3R-E57												
	P4840P-.R-A57												
	P4840P-.R-E57												
	P4840P-.R-E67												
	P4840P-.R-E77												
	P4841P-.R-A57												
	P4841P-.R-E57												
	P4840P-2R-A57												
	P4840P-2R-E57												
	P4840P-2R-E67												
	P4840P-2R-E77												
	P4841P-2R-A57												
	P4841P-2R-E57												
	P4840P-3R-A57												
	P4840P-3R-E57												
	P4840P-3R-E67												
	P4840P-3R-E77												
	P4841P-3R-A57												
	P4841P-3R-E57												

P48...C = inserto central
P48...P = inserto periférico

HC = metal duro com revestimento
HW = Metal duro não revestido

Broca com insertos intercambiáveis

D4120 mm

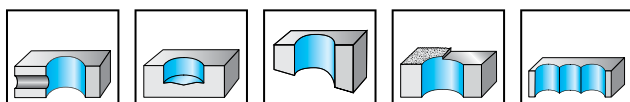
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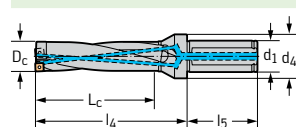
4×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●	●	●	●	●		

Ferramenta



Cylindrical shank with flat

Denominação	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos EA	Tipo
D4120-04-16.50F25-P42	16,5	66	91	56	25	35	0,36	1 / 1	P484 . P-2R- .. P484 . C-2R- ..
D4120-04-17.00F25-P42	17	68	93	56	25	35	0,4	1 / 1	
D4120-04-17.50F25-P42	17,5	70	95	56	25	35	0,38	1 / 1	
D4120-04-18.00F25-P42	18	72	97	56	25	35	0,42	1 / 1	
D4120-04-18.50F25-P42	18,5	74	99	56	25	35	0,39	1 / 1	
D4120-04-19.00F25-P42	19	76	101	56	25	35	0,44	1 / 1	
D4120-04-19.50F25-P42	19,5	78	103	56	25	35	0,41	1 / 1	
D4120-04-20.00F25-P42	20	80	105	56	25	35	0,45	1 / 1	
D4120-04-20.50F25-P43	20,5	82	107	56	25	35	0,41	1 / 1	P484 . P-3R- .. P484 . C-3R- ..
D4120-04-21.00F25-P43	21	84	109	56	25	35	0,45	1 / 1	
D4120-04-21.50F25-P43	21,5	86	111	56	25	35	0,43	1 / 1	
D4120-04-22.00F25-P43	22	88	113	56	25	35	0,48	1 / 1	
D4120-04-22.50F25-P43	22,5	90	115	56	25	35	0,45	1 / 1	
D4120-04-23.00F25-P43	23	92	117	56	25	35	0,5	1 / 1	
D4120-04-23.50F25-P43	23,5	94	119	56	25	35	0,48	1 / 1	
D4120-04-24.00F25-P43	24	96	121	56	25	35	0,56	1 / 1	
D4120-04-24.50F25-P44	24,5	98	123	56	25	35	0,48	1 / 1	P484 . P-4R- .. P484 . C-4R- ..
D4120-04-25.00F25-P44	25	100	125	56	25	35	0,56	1 / 1	
D4120-04-25.50F32-P44	25,5	102	134	60	32	42	0,76	1 / 1	
D4120-04-26.00F32-P44	26	104	136	60	32	42	0,85	1 / 1	
D4120-04-26.50F32-P44	26,5	106	138	60	32	42	0,8	1 / 1	
D4120-04-27.00F32-P44	27	108	140	60	32	42	0,81	1 / 1	
D4120-04-27.50F32-P44	27,5	110	142	60	32	42	0,83	1 / 1	
D4120-04-28.00F32-P44	28	112	144	60	32	42	0,91	1 / 1	
D4120-04-28.50F32-P44	28,5	114	146	60	32	42	0,87	1 / 1	
D4120-04-29.00F32-P44	29	116	148	60	32	42	1	1 / 1	
D4120-04-29.50F32-P45	29,5	118	150	60	32	42	0,9	1 / 1	P484 . P-5R- .. P484 . C-5R- ..
D4120-04-30.00F32-P45	30	120	152	60	32	42	0,91	1 / 1	
D4120-04-30.50F32-P45	30,5	122	154	60	32	42	0,94	1 / 1	
D4120-04-31.00F32-P45	31	124	156	60	32	42	1,07	1 / 1	
D4120-04-31.50F32-P45	31,5	126	158	60	32	42	0,99	1 / 1	
D4120-04-32.00F32-P45	32	128	160	60	32	42	1,1	1 / 1	
D4120-04-32.50F32-P45	32,5	130	162	60	32	42	1,03	1 / 1	
D4120-04-33.00F32-P45	33	132	164	60	32	42	1,13	1 / 1	
D4120-04-33.50F32-P45	33,5	134	166	60	32	42	1,09	1 / 1	

Cylindrical shank with flat

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

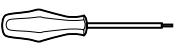
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [mm]	16,5–20	20,5–24	24,5–29	29,5–35	35,5–42	43–59
	Parafuso para inserto intercambiável Torque de aperto	FS2111 (T7IP) 0,9 Nm	FS1454 (T8IP) 1,2 Nm	FS1457 (T9IP) 2 Nm	FS2080 (T15IP) 2,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1495 (T20IP) 5 Nm

Acessórios

	D _c [mm]	16,5–20	20,5–24	24,5–29	29,5–42	43–59
	Chave com controle de torque, analógica	FS2001	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital		FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-2R-E67		☒	☒	☒	☒	☒	☒	☒			☒
	P4840C-2R-E77									☒	☒	
	P4841C-2R-A57		☒	☒	☒	☒	☒					☒
	P4841C-2R-E57		☒	☒	☒	☒	☒					☒
	P4840C-3R-E67		☒	☒	☒	☒	☒					☒
	P4840C-3R-E77									☒	☒	
	P4841C-3R-A57		☒	☒	☒	☒	☒					☒
	P4841C-3R-E57		☒	☒	☒	☒	☒					☒
	P4840C-.R-E67		☒	☒	☒	☒	☒					☒
	P4840C-.R-E77									☒	☒	
	P4841C-.R-A57		☒	☒	☒	☒	☒					☒
	P4841C-.R-E57		☒	☒	☒	☒	☒					☒
	P4840P-2R-A57	☒	☒	☒		☒		☒	☒			☒
	P4840P-2R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-2R-E67	☒	☒	☒		☒		☒	☒			☒
	P4840P-2R-E77									☒	☒	
	P4841P-2R-A57	☒	☒	☒		☒		☒	☒			☒
	P4841P-2R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-A57	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-E67	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-E77									☒	☒	
	P4841P-3R-A57	☒	☒	☒		☒		☒	☒			☒
	P4841P-3R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-A57	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-E67	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-E77									☒	☒	
	P4841P-.R-A57	☒	☒	☒		☒		☒	☒			☒
	P4841P-.R-E57	☒	☒	☒		☒		☒	☒			☒

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D4120 mm

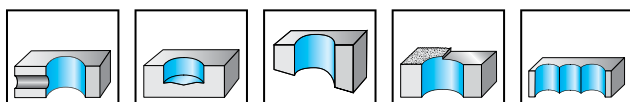
Drion-tec®



B1

4×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●	●	●	●	●	●	●

Ferramenta	Denominação	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos EA	Tipo
 Cylindrical shank with flat	D4120-04-34.00F32-P45	34	136	168	60	32	42	1,11	1 / 1	P484 . P-5R- .. P484 . C-5R- ..
	D4120-04-34.50F32-P45	34,5	138	170	60	32	42	1,14	1 / 1	
	D4120-04-35.00F32-P45	35	140	172	60	32	42	1,24	1 / 1	
 Cylindrical shank with flat	D4120-04-35.50F32-P46	35,5	142	174	60	32	42	1,13	1 / 1	P484 . P-6R- .. P484 . C-6R- ..
	D4120-04-36.00F32-P46	36	144	176	60	32	42	1,26	1 / 1	
	D4120-04-36.50F32-P46	36,5	146	178	60	32	42	1,19	1 / 1	
	D4120-04-37.00F40-P46	37	148	188	70	40	50	1,82	1 / 1	
	D4120-04-37.50F40-P46	37,5	150	190	70	40	50	1,71	1 / 1	
	D4120-04-38.00F40-P46	38	152	192	70	40	50	1,19	1 / 1	
	D4120-04-38.50F40-P46	38,5	154	194	70	40	50	1,78	1 / 1	
	D4120-04-39.00F40-P46	39	156	196	70	40	50	1,96	1 / 1	
	D4120-04-39.50F40-P46	39,5	158	198	70	40	50	1,86	1 / 1	
	D4120-04-40.00F40-P46	40	160	200	70	40	50	2,04	1 / 1	
	D4120-04-40.50F40-P46	40,5	162	202	70	40	50	1,93	1 / 1	
	D4120-04-41.00F40-P46	41	164	204	70	40	50	2,08	1 / 1	
 Cylindrical shank with flat	D4120-04-41.50F40-P46	41,5	166	206	70	40	50	2,01	1 / 1	P484 . P-7R- .. P484 . C-7R- ..
	D4120-04-42.00F40-P46	42	168	208	70	40	50	2,13	1 / 1	
	D4120-04-43.00F40-P47	43	172	212	70	40	50	2,23	1 / 1	
	D4120-04-44.00F40-P47	44	176	216	70	40	50	2,15	1 / 1	
	D4120-04-45.00F40-P47	45	180	220	70	40	50	2,4	1 / 1	
	D4120-04-46.00F40-P47	46	184	224	70	40	50	2,44	1 / 1	
	D4120-04-47.00F40-P47	47	188	228	70	40	50	2,54	1 / 1	
	D4120-04-48.00F40-P47	48	192	232	70	40	50	2,54	1 / 1	
 Cylindrical shank with flat	D4120-04-49.00F40-P47	49	196	236	70	40	50	2,84	1 / 1	P484 . P-8R- .. P484 . C-8R- ..
	D4120-04-50.00F40-P47	50	200	240	70	40	50	2,78	1 / 1	
	D4120-04-51.00F40-P48	51	204	244	70	40	50	2,98	1 / 1	
	D4120-04-52.00F40-P48	52	208	248	70	40	50	3,11	1 / 1	
	D4120-04-53.00F40-P48	53	212	252	70	40	50	3,25	1 / 1	
	D4120-04-54.00F40-P48	54	216	256	70	40	50	3,32	1 / 1	
	D4120-04-55.00F40-P48	55	220	260	70	40	50	3,44	1 / 1	
	D4120-04-56.00F40-P48	56	224	264	70	40	50	3,6	1 / 1	
	D4120-04-57.00F40-P48	57	228	268	70	40	50	3,8	1 / 1	
	D4120-04-58.00F40-P48	58	232	272	70	40	50	3,97	1 / 1	
	D4120-04-59.00F40-P48	59	236	276	70	40	50	4,09	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

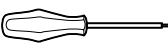
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [mm]	16,5–20	20,5–24	24,5–29	29,5–35	35,5–42	43–59
	Parafuso para inserto intercambiável Torque de aperto	FS2111 (T7IP) 0,9 Nm	FS1454 (T8IP) 1,2 Nm	FS1457 (T9IP) 2 Nm	FS2080 (T15IP) 2,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1495 (T20IP) 5 Nm

Acessórios

	D _c [mm]	16,5–20	20,5–24	24,5–29	29,5–42	43–59
	Chave com controle de torque, analógica	FS2001	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital		FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

	Denominação	Tamanho	P					M			K	N		S
			WKP25S	WKP35S	WSP45G	WXP40	ND	WSP45G	WXP40	ND	HC	WNN15	WNI15	WSP45G
	P4840C-2R-E67	2												
	P4840C-2R-E77	2												
	P4841C-2R-A57	2												
	P4841C-2R-E57	2												
	P4840C-3R-E67	3												
	P4840C-3R-E77	3												
	P4841C-3R-A57	3												
	P4841C-3R-E57	3												
	P4840C-.R-E67	4-8												
	P4840C-.R-E77	4-8												
	P4841C-.R-A57	4-8												
	P4841C-.R-E57	4-8												
	P4840P-2R-A57	2												
	P4840P-2R-E57	2												
	P4840P-2R-E67	2												
	P4840P-2R-E77	2												
	P4841P-2R-A57	2												
	P4841P-2R-E57	2												
	P4840P-3R-A57	3												
	P4840P-3R-E57	3												
	P4840P-3R-E67	3												
	P4840P-3R-E77	3												
	P4841P-3R-A57	3												
	P4841P-3R-E57	3												
	P4840P-.R-A57	4-8												
	P4840P-.R-E57	4-8												
	P4840P-.R-E67	4-8												
	P4840P-.R-E77	4-8												
	P4841P-.R-A57	4-8												
	P4841P-.R-E57	4-8												

HC = Coated carbide

ND =

HW = Uncoated carbide

Broca com insertos intercambiáveis

D4120 inch

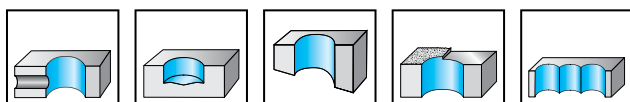
Drion-tec®



B1

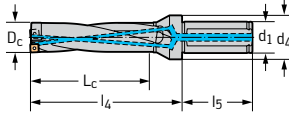
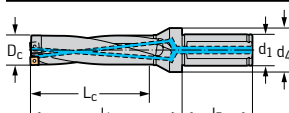
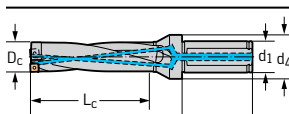
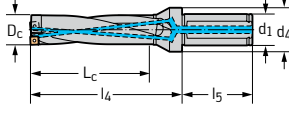
4×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●	●	●	●	●		

Ferramenta

	Denominação	D _C inch	L _C inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos EA	Tipo
 Cylindrical shank with flat	D4120.04-16.66F26-P42	0,656	2,624	3,62	2,281	1,000	1,375	0,904	1 / 1	P484 . P-2R- .. P484 . C-2R- ..
	D4120.04-17.04F26-P42	0,671	2,684	3,680	2,281	1,000	1,375	0,926	1 / 1	
	D4120.04-17.45F26-P42	0,687	2,748	3,750	2,281	1,000	1,375	0,926	1 / 1	
	D4120.04-17.86F26-P42	0,703	2,812	3,810	2,281	1,000	1,375	0,961	1 / 1	
	D4120.04-18.24F26-P42	0,718	2,872	3,87	2,281	1,000	1,375	0,725	1 / 1	
	D4120.04-19.05F26-P42	0,750	3,000	4,000	2,281	1,000	1,375	0,992	1 / 1	
	D4120.04-19.43F26-P42	0,765	3,060	4,060	2,281	1,000	1,375	1,014	1 / 1	
	D4120.04-19.84F26-P42	0,781	3,124	4,12	2,281	1,000	1,375	1,030	1 / 1	
	D4120.04-20.62F26-P43	0,812	3,248	4,250	2,281	1,000	1,375	1,030	1 / 1	P484 . P-3R- .. P484 . C-3R- ..
	D4120.04-21.41F26-P43	0,843	3,372	4,37	2,281	1,000	1,375	1,058	1 / 1	
 Cylindrical shank with flat	D4120.04-22.23F31-P43	0,875	3,500	4,630	2,281	1,250	1,625	1,653	1 / 1	
	D4120.04-23.01F31-P43	0,906	3,624	4,750	2,281	1,250	1,625	1,62	1 / 1	
	D4120.04-23.39F31-P43	0,921	3,684	4,810	2,281	1,250	1,625	1,493	1 / 1	
	D4120.04-23.80F31-P43	0,937	3,748	4,880	2,281	1,250	1,625	1,735	1 / 1	
	D4120.04-24.59F31-P44	0,968	3,872	5,000	2,281	1,250	1,625	1,587	1 / 1	P484 . P-4R- .. P484 . C-4R- ..
	D4120.04-24.99F31-P44	0,984	3,936	5,07	2,281	1,250	1,625	1,795	1 / 1	
	D4120.04-25.40F31-P44	1,000	4,000	5,130	2,281	1,250	1,625	1,812	1 / 1	
	D4120.04-26.57F31-P44	1,046	4,184	5,310	2,281	1,250	1,625	1,764	1 / 1	
	D4120.04-26.97F31-P44	1,062	4,248	5,380	2,281	1,250	1,625	1,925	1 / 1	
	D4120.04-28.17F31-P44	1,109	4,436	5,57	2,281	1,250	1,625	1,896	1 / 1	
 Cylindrical shank with flat	D4120.04-28.58F31-P44	1,125	4,500	5,630	2,281	1,250	1,625	1,94	1 / 1	
	D4120.04-29.74F31-P45	1,171	4,684	5,810	2,281	1,250	1,625	2,028	1 / 1	P484 . P-5R- .. P484 . C-5R- ..
	D4120.04-30.15F31-P45	1,187	4,748	5,880	2,281	1,250	1,625	2,156	1 / 1	
	D4120.04-31.75F31-P45	1,250	5,000	6,130	2,281	1,250	1,625	2,308	1 / 1	
	D4120.04-33.32F31-P45	1,312	5,248	6,380	2,281	1,250	1,625	2,392	1 / 1	
	D4120.04-34.11F31-P45	1,343	5,372	6,496	2,281	1,250	1,625	2,359	1 / 1	
	D4120.04-34.93F31-P45	1,375	5,500	6,630	2,281	1,250	1,625	2,685	1 / 1	
	D4120.04-36.09F31-P46	1,421	5,684	6,810	2,281	1,250	1,625	2,394	1 / 1	P484 . P-6R- .. P484 . C-6R- ..
	D4120.04-36.50F38-P46	1,437	5,748	7,130	2,688	1,500	1,940	3,3	1 / 1	
	D4120.04-38.10F38-P46	1,500	6,000	7,380	2,688	1,500	1,940	3,682	1 / 1	
 Cylindrical shank with flat	D4120.04-39.67F38-P46	1,562	6,248	7,630	2,688	1,500	1,940	3,924	1 / 1	
	D4120.04-41.28F38-P46	1,625	6,500	7,880	2,688	1,500	1,940	4,048	1 / 1	
	D4120.04-42.85F38-P47	1,687	6,748	8,128	2,688	1,500	1,940	4,231	1 / 1	P484 . P-7R- .. P484 . C-7R- ..
	D4120.04-44.45F38-P47	1,750	7,000	8,380	2,688	1,500	1,940	4,539	1 / 1	
	D4120.04-46.02F38-P47	1,812	7,248	8,628	2,688	1,500	1,940	4,868	1 / 1	
	D4120.04-47.63F38-P47	1,875	7,500	8,880	2,688	1,500	1,940	5,232	1 / 1	
	D4120.04-49.20F38-P47	1,937	7,748	9,128	2,688	1,500	1,940	5,626	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

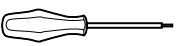
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [inch]	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,375	1,421–1,625	1,687–2,25
	Parafuso para inserto intercambiável Torque de aperto	FS2111 (T7IP) 0,664 lbs	FS1454 (T8IP) 0,885 lbs	FS1457 (T9IP) 1,475 lbs	FS2080 (T15IP) 1,844 lbs	FS1453 (T15IP) 2,581 lbs	FS1495 (T20IP) 3,688 lbs

Acessórios

	D _c [inch]	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,625	1,687–2,25
	Chave com controle de torque, analógica	FS2002	FS2002	FS2004	FS2004	FS2004
	Chave com controle de torque, digital		FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

		P				M		K		N		S	
		HC				HC		HC		HC	HW	HC	
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WN15	WSP45G	
Denominação	Tamanho												
	P4840C-2R-E67		☒	☒	☒	☒	☒		☒			☒	
	P4840C-2R-E77									☒	☒		
	P4841C-2R-A57		☒	☒	☒	☒	☒		☒			☒	
	P4841C-2R-E57		☒	☒	☒	☒	☒		☒			☒	
	P4840C-3R-E67		☒	☒	☒	☒	☒		☒			☒	
	P4840C-3R-E77									☒	☒		
	P4841C-3R-A57		☒	☒	☒	☒	☒		☒			☒	
	P4841C-3R-E57		☒	☒	☒	☒	☒		☒			☒	
	P4840C-.R-E67		☒	☒	☒	☒	☒		☒			☒	
	P4840C-.R-E77									☒	☒		
	P4841C-.R-A57		☒	☒	☒	☒	☒		☒			☒	
P4841C-.R-E57		☒	☒	☒	☒	☒		☒			☒		
	P4840P-2R-A57	☒	☒	☒		☒		☒	☒			☒	
	P4840P-2R-E57	☒	☒	☒		☒		☒	☒			☒	
	P4840P-2R-E67	☒	☒	☒		☒		☒	☒			☒	
	P4840P-2R-E77									☒	☒		
	P4841P-2R-A57	☒	☒	☒		☒		☒	☒			☒	
	P4841P-2R-E57	☒	☒	☒		☒		☒	☒			☒	
	P4840P-3R-A57	☒	☒	☒		☒		☒	☒			☒	
	P4840P-3R-E57	☒	☒	☒		☒		☒	☒			☒	
	P4840P-3R-E67	☒	☒	☒		☒		☒	☒			☒	
	P4840P-3R-E77									☒	☒		
	P4841P-3R-A57	☒	☒	☒		☒		☒	☒			☒	
	P4841P-3R-E57	☒	☒	☒		☒		☒	☒			☒	
	P4840P-.R-A57	☒	☒	☒		☒		☒	☒			☒	
	P4840P-.R-E57	☒	☒	☒		☒		☒	☒			☒	
	P4840P-.R-E67	☒	☒	☒		☒		☒	☒			☒	
	P4840P-.R-E77									☒	☒		
	P4841P-.R-A57	☒	☒	☒		☒		☒	☒			☒	
	P4841P-.R-E57	☒	☒	☒		☒		☒	☒			☒	

P48...C = inserto central
P48...P = inserto periférico

HC = metal duro com revestimento
HW = Metal duro não revestido

Broca com insertos intercambiáveis

D4120 inch

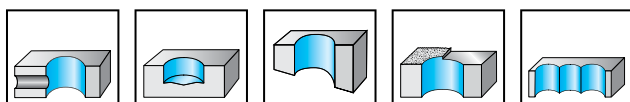
Drion-tec®



B1

4×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●●	●	●●	●●	●		

Ferramenta

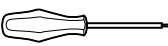
	Denominação	D _C inch	L _C inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qty. insertos EA	Tipo
Cylindrical shank with flat	D4120.04-50.80F51-P48	2,000	8,000	9,62	3,250	2,000	2,440	8,128	1 / 1	P484 . P-8R- ... P484 . C-8R- ...
	D4120.04-52.37F51-P48	2,062	8,248	9,868	3,250	2,000	2,440	8,578	1 / 1	
	D4120.04-53.98F51-P48	2,125	8,500	10,12	3,250	2,000	2,440	9,414	1 / 1	
	D4120.04-55.55F51-P48	2,187	8,748	10,368	3,250	2,000	2,440	9,557	1 / 1	
	D4120.04-57.15F51-P48	2,250	9,000	10,62	3,250	2,000	2,440	10,093	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [inch]	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,375	1,421–1,625	1,687–2,25
	Parafuso para inserto intercambiável Torque de aperto	FS2111 (T7IP) 0,664 lbs	FS1454 (T8IP) 0,885 lbs	FS1457 (T9IP) 1,475 lbs	FS2080 (T15IP) 1,844 lbs	FS1453 (T15IP) 2,581 lbs	FS1495 (T20IP) 3,688 lbs

Acessórios

	D _c [inch]	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,625	1,687–2,25
	Chave com controle de torque, analógica	FS2002	FS2002	FS2004	FS2004	FS2004
	Chave com controle de torque, digital		FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

												P				M		K		N		S	
												HC				HC		HC		HC	HW	HC	
												WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WN15	WSP45G	
Denominação	Tamanho																						
	P4840C-2R-E67												☑	☑	☑	☑	☑		☑				☑
	P4840C-2R-E77																			☑	☑		
	P4841C-2R-A57												☑	☑	☑	☑	☑		☑			☑	
	P4841C-2R-E57												☑	☑	☑	☑	☑		☑			☑	
	P4840C-3R-E67												☑	☑	☑	☑	☑		☑			☑	
	P4840C-3R-E77																			☑	☑		
	P4841C-3R-A57												☑	☑	☑	☑	☑		☑			☑	
	P4841C-3R-E57												☑	☑	☑	☑	☑		☑			☑	
	P4840C-.R-E67	0,2–0,3											☑	☑	☑	☑	☑		☑			☑	
	P4840C-.R-E77	0,2–0,3																		☑	☑		
	P4841C-.R-A57	0,2–0,3											☑	☑	☑	☑	☑		☑			☑	
P4841C-.R-E57	0,2–0,3											☑	☑	☑	☑	☑		☑			☑		
	P4840P-2R-A57	0,1										☑	☑	☑		☑		☑	☑			☑	
	P4840P-2R-E57	0,1										☑	☑	☑		☑		☑	☑			☑	
	P4840P-2R-E67	0,1										☑	☑	☑		☑		☑	☑			☑	
	P4840P-2R-E77	0,1																		☑	☑		
	P4841P-2R-A57	0,1										☑	☑	☑		☑		☑	☑			☑	
	P4841P-2R-E57	0,1										☑	☑	☑		☑		☑	☑			☑	
	P4840P-3R-A57	0,1										☑	☑	☑		☑		☑	☑			☑	
	P4840P-3R-E57	0,1										☑	☑	☑		☑		☑	☑			☑	
	P4840P-3R-E67	0,1										☑	☑	☑		☑		☑	☑			☑	
	P4840P-3R-E77	0,1																		☑	☑		
	P4841P-3R-A57	0,1										☑	☑	☑		☑		☑	☑			☑	
	P4841P-3R-E57	0,1										☑	☑	☑		☑		☑	☑			☑	
	P4840P-.R-A57	0,2–0,3										☑	☑	☑		☑		☑	☑			☑	
	P4840P-.R-E57	0,2–0,3										☑	☑	☑		☑		☑	☑			☑	
	P4840P-.R-E67	0,2–0,3										☑	☑	☑		☑		☑	☑			☑	
	P4840P-.R-E77	0,2–0,3																		☑	☑		
	P4841P-.R-A57	0,2–0,3										☑	☑	☑		☑		☑	☑			☑	
	P4841P-.R-E57	0,2–0,3										☑	☑	☑		☑		☑	☑			☑	

P48...C = inserto central
P48...P = inserto periférico

HC = metal duro com revestimento
HW = Metal duro não revestido

Broca com insertos intercambiáveis

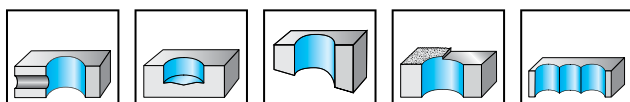
D4120

mm

Drion-tec®

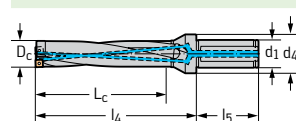

5×D_c

Z=1



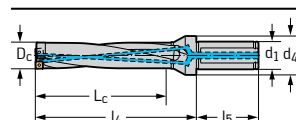
	P	M	K	N	S	H	O
D4120	●●		●●	●●			

Ferramenta

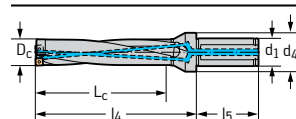


Cylindrical shank with flat

Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos EA	Tipo
D4120-05-16.50F25-P42	16,5	82,5	107,5	56	25	35	0,38	1 / 1	P484 . P-2R- .. P484 . C-2R- ..
D4120-05-17.00F25-P42	17	85	110	56	25	35	0,39	1 / 1	
D4120-05-17.50F25-P42	17,5	87,5	112,5	56	25	35	0,39	1 / 1	
D4120-05-18.00F25-P42	18	90	115	56	25	35	0,45	1 / 1	
D4120-05-18.50F25-P42	18,5	92,5	117,5	56	25	35	0,41	1 / 1	
D4120-05-19.00F25-P42	19	95	120	56	25	35	0,47	1 / 1	
D4120-05-19.50F25-P42	19,5	97,5	122,5	56	25	35	0,43	1 / 1	
D4120-05-20.00F25-P42	20	100	125	56	25	35	0,47	1 / 1	
D4120-05-20.50F25-P43	20,5	102,5	127,5	56	25	35	0,44	1 / 1	P484 . P-3R- .. P484 . C-3R- ..
D4120-05-21.00F25-P43	21	105	130	56	25	35	0,44	1 / 1	
D4120-05-21.50F25-P43	21,5	107,5	132,5	56	25	35	0,46	1 / 1	
D4120-05-22.00F25-P43	22	110	135	56	25	35	0,51	1 / 1	
D4120-05-22.50F25-P43	22,5	112,5	137,5	56	25	35	0,49	1 / 1	
D4120-05-23.00F25-P43	23	115	140	56	25	35	0,55	1 / 1	
D4120-05-23.50F25-P43	23,5	117,5	142,5	56	25	35	0,52	1 / 1	
D4120-05-24.00F25-P43	24	120	145	56	25	35	0,53	1 / 1	
D4120-05-24.50F25-P44	24,5	122,5	147,5	56	25	35	0,53	1 / 1	P484 . P-4R- .. P484 . C-4R- ..
D4120-05-25.00F25-P44	25	125	150	56	25	35	0,61	1 / 1	
D4120-05-25.50F32-P44	25,5	127,5	159,5	60	32	42	0,82	1 / 1	
D4120-05-26.00F32-P44	26	130	162	60	32	42	0,95	1 / 1	
D4120-05-26.50F32-P44	26,5	132,5	164,5	60	32	42	0,86	1 / 1	
D4120-05-27.00F32-P44	27	135	167	60	32	42	0,93	1 / 1	
D4120-05-27.50F32-P44	27,5	137,5	169,5	60	32	42	0,9	1 / 1	
D4120-05-28.00F32-P44	28	140	172	60	32	42	1,03	1 / 1	
D4120-05-28.50F32-P44	28,5	142,5	174,5	60	32	42	0,95	1 / 1	P484 . P-5R- .. P484 . C-5R- ..
D4120-05-29.00F32-P44	29	145	177	60	32	42	1,04	1 / 1	
D4120-05-29.50F32-P45	29,5	147,5	179,5	60	32	42	0,98	1 / 1	
D4120-05-30.00F32-P45	30	150	182	60	32	42	1,01	1 / 1	
D4120-05-30.50F32-P45	30,5	152,5	184,5	60	32	42	1,03	1 / 1	
D4120-05-31.00F32-P45	31	155	187	60	32	42	1,13	1 / 1	
D4120-05-31.50F32-P45	31,5	157,5	189,5	60	32	42	1,09	1 / 1	
D4120-05-32.00F32-P45	32	160	192	60	32	42	1,19	1 / 1	
D4120-05-32.50F32-P45	32,5	162,5	194,5	60	32	42	1,15	1 / 1	
D4120-05-33.00F32-P45	33	165	197	60	32	42	1,25	1 / 1	
D4120-05-33.50F32-P45	33,5	167,5	199,5	60	32	42	1,21	1 / 1	



Cylindrical shank with flat



Cylindrical shank with flat

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

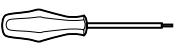
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [mm]	16,5–20	20,5–24	24,5–29	29,5–35	35,5–42	43–59
	Parafuso para inserto intercambiável Torque de aperto	FS2111 (T7IP) 0,9 Nm	FS1454 (T8IP) 1,2 Nm	FS1457 (T9IP) 2 Nm	FS2080 (T15IP) 2,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1495 (T20IP) 5 Nm

Acessórios

	D _c [mm]	16,5–20	20,5–24	24,5–29	29,5–42	43–59
	Chave com controle de torque, analógica	FS2001	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital		FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-2R-E67		☒	☒	☒	☒	☒	☒	☒			☒
	P4840C-2R-E77									☒	☒	
	P4841C-2R-A57		☒	☒	☒	☒	☒					☒
	P4841C-2R-E57		☒	☒	☒	☒	☒					☒
	P4840C-3R-E67		☒	☒	☒	☒	☒					☒
	P4840C-3R-E77									☒	☒	
	P4841C-3R-A57		☒	☒	☒	☒	☒					☒
	P4841C-3R-E57		☒	☒	☒	☒	☒					☒
	P4840C-.R-E67		☒	☒	☒	☒	☒					☒
	P4840C-.R-E77									☒	☒	
	P4841C-.R-A57		☒	☒	☒	☒	☒					☒
	P4841C-.R-E57		☒	☒	☒	☒	☒					☒
	P4840P-2R-A57	☒	☒	☒		☒		☒	☒			☒
	P4840P-2R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-2R-E67	☒	☒	☒		☒		☒	☒			☒
	P4840P-2R-E77									☒	☒	
	P4841P-2R-A57	☒	☒	☒		☒		☒	☒			☒
	P4841P-2R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-A57	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-E67	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-E77									☒	☒	
	P4841P-3R-A57	☒	☒	☒		☒		☒	☒			☒
	P4841P-3R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-A57	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-E67	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-E77									☒	☒	
	P4841P-.R-A57	☒	☒	☒		☒		☒	☒			☒
	P4841P-.R-E57	☒	☒	☒		☒		☒	☒			☒

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D4120

mm

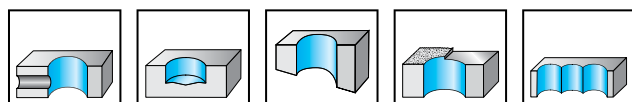
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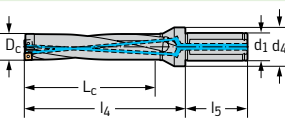
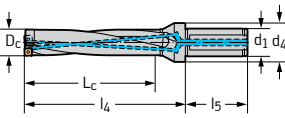
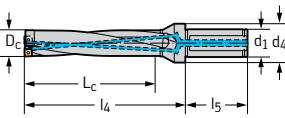
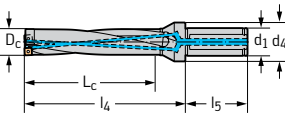
5×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●●		●●	●●			

Ferramenta

	Denominação	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Insertos EA	Tipo
	D4120-05-34.00F32-P45	34	170	202	60	32	42	1,31	1 / 1	P484 . P-5R- .. P484 . C-5R- ..
	D4120-05-34.50F32-P45	34,5	172,5	204,5	60	32	42	1,28	1 / 1	
	D4120-05-35.00F32-P45	35	175	207	60	32	42	1,3	1 / 1	
Cylindrical shank with flat										
	D4120-05-35.50F32-P46	35,5	177,5	209,5	60	32	42	1,28	1 / 1	P484 . P-6R- .. P484 . C-6R- ..
	D4120-05-36.00F32-P46	36	180	212	60	32	42	1,32	1 / 1	
	D4120-05-36.50F32-P46	36,5	182,5	214,5	60	32	50	1,35	1 / 1	
	D4120-05-37.00F40-P46	37	185	225	70	40	50	1,45	1 / 1	
	D4120-05-37.50F40-P46	37,5	187,5	227,5	70	40	50	1,89	1 / 1	
	D4120-05-38.00F40-P46	38	190	230	70	40	50	2,02	1 / 1	
	D4120-05-38.50F40-P46	38,5	192,5	232,5	70	40	50	1,97	1 / 1	
	D4120-05-39.00F40-P46	39	195	235	70	40	50	2,09	1 / 1	
	D4120-05-39.50F40-P46	39,5	197,5	237,5	70	40	50	2,06	1 / 1	
	D4120-05-40.00F40-P46	40	200	240	70	40	50	2,17	1 / 1	
	D4120-05-40.50F40-P46	40,5	202,5	242,5	70	40	50	2,16	1 / 1	
	D4120-05-41.00F40-P46	41	205	245	70	40	50	2,32	1 / 1	P484 . P-7R- .. P484 . C-7R- ..
	D4120-05-41.50F40-P46	41,5	207,5	247,5	70	40	50	2,26	1 / 1	
	D4120-05-42.00F40-P46	42	210	250	70	40	50	2,45	1 / 1	
	D4120-05-43.00F40-P47	43	215	255	70	40	50	2,49	1 / 1	
	D4120-05-44.00F40-P47	44	220	260	70	40	50	2,61	1 / 1	
	D4120-05-45.00F40-P47	45	225	265	70	40	50	2,71	1 / 1	
	D4120-05-46.00F40-P47	46	230	270	70	40	50	2,81	1 / 1	
	D4120-05-47.00F40-P47	47	235	275	70	40	50	2,93	1 / 1	
	D4120-05-48.00F40-P47	48	240	280	70	40	50	3,08	1 / 1	P484 . P-8R- .. P484 . C-8R- ..
	D4120-05-49.00F40-P47	49	245	285	70	40	50	3,2	1 / 1	
	D4120-05-50.00F40-P47	50	250	290	70	40	50	3,39	1 / 1	
	D4120-05-51.00F40-P48	51	255	295	70	40	50	3,45	1 / 1	
	D4120-05-52.00F40-P48	52	260	300	70	40	50	3,61	1 / 1	
	D4120-05-53.00F40-P48	53	265	305	70	40	50	3,74	1 / 1	
	D4120-05-54.00F40-P48	54	270	310	70	40	50	3,86	1 / 1	
	D4120-05-55.00F40-P48	55	275	315	70	40	50	4,07	1 / 1	
	D4120-05-56.00F40-P48	56	280	320	70	40	50	4,22	1 / 1	
	D4120-05-57.00F40-P48	57	285	325	70	40	50	4,2	1 / 1	
	D4120-05-58.00F40-P48	58	290	330	70	40	50	4,39	1 / 1	
	D4120-05-59.00F40-P48	59	295	335	70	40	50	4,8	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

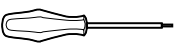
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [mm]	16,5–20	20,5–24	24,5–29	29,5–35	35,5–42	43–59
	Parafuso para inserto intercambiável Torque de aperto	FS2111 (T7IP) 0,9 Nm	FS1454 (T8IP) 1,2 Nm	FS1457 (T9IP) 2 Nm	FS2080 (T15IP) 2,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1495 (T20IP) 5 Nm

Acessórios

	D _c [mm]	16,5–20	20,5–24	24,5–29	29,5–42	43–59
	Chave com controle de torque, analógica	FS2001	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital		FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-2R-E67		☒	☒	☒	☒	☒	☒	☒			☒
	P4840C-2R-E77									☒	☒	
	P4841C-2R-A57		☒	☒	☒	☒	☒					☒
	P4841C-2R-E57		☒	☒	☒	☒	☒					☒
	P4840C-3R-E67		☒	☒	☒	☒	☒					☒
	P4840C-3R-E77									☒	☒	
	P4841C-3R-A57		☒	☒	☒	☒	☒					☒
	P4841C-3R-E57		☒	☒	☒	☒	☒					☒
	P4840C-.R-E67		☒	☒	☒	☒	☒					☒
	P4840C-.R-E77									☒	☒	
	P4841C-.R-A57		☒	☒	☒	☒	☒					☒
	P4841C-.R-E57		☒	☒	☒	☒	☒					☒
	P4840P-2R-A57	☒	☒	☒		☒		☒	☒			☒
	P4840P-2R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-2R-E67	☒	☒	☒		☒		☒	☒			☒
	P4840P-2R-E77									☒	☒	
	P4841P-2R-A57	☒	☒	☒		☒		☒	☒			☒
	P4841P-2R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-A57	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-E67	☒	☒	☒		☒		☒	☒			☒
	P4840P-3R-E77									☒	☒	
	P4841P-3R-A57	☒	☒	☒		☒		☒	☒			☒
	P4841P-3R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-A57	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-E57	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-E67	☒	☒	☒		☒		☒	☒			☒
	P4840P-.R-E77									☒	☒	
	P4841P-.R-A57	☒	☒	☒		☒		☒	☒			☒
	P4841P-.R-E57	☒	☒	☒		☒		☒	☒			☒

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D4120 inch

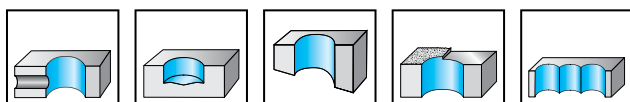
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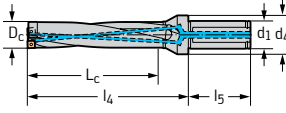
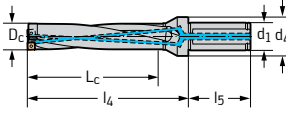
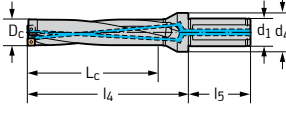
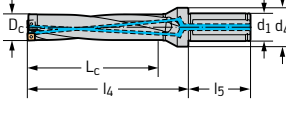
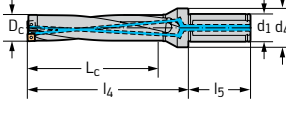
5×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●●		●●	●●			

Ferramenta

	Denominação	D _C inch	L _C inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos EA	Tipo
 Cylindrical shank with flat	D4120.05-16.66F26-P42	0,656	3,280	4,280	2,281	1,000	1,375	1,030	1 / 1	P484 . P-2R- .. P484 . C-2R- ..
	D4120.05-17.04F26-P42	0,671	3,355	4,355	2,281	1,000	1,375	1,047	1 / 1	
	D4120.05-17.45F26-P42	0,687	3,435	4,435	2,281	1,000	1,375	1,071	1 / 1	
	D4120.05-17.86F26-P42	0,703	3,515	4,515	2,281	1,000	1,375	1,049	1 / 1	
	D4120.05-18.24F26-P42	0,718	3,590	4,59	2,281	1,000	1,375	1,107	1 / 1	
	D4120.05-19.05F26-P42	0,750	3,750	4,750	2,281	1,000	1,375	1,177	1 / 1	
	D4120.05-19.43F26-P42	0,765	3,825	4,825	2,281	1,000	1,375	1,118	1 / 1	
	D4120.05-19.84F26-P42	0,781	3,905	4,905	2,281	1,000	1,375	1,135	1 / 1	
	D4120.05-20.62F26-P43	0,812	4,06	5,060	2,281	1,000	1,375	1,155	1 / 1	
	D4120.05-21.41F26-P43	0,843	4,215	5,215	2,281	1,000	1,375	1,239	1 / 1	
 Cylindrical shank with flat	D4120.05-22.23F31-P43	0,875	4,375	5,505	2,281	1,250	1,625	1,671	1 / 1	P484 . P-3R- .. P484 . C-3R- ..
	D4120.05-23.01F31-P43	0,906	4,530	5,660	2,281	1,250	1,625	1,775	1 / 1	
	D4120.05-23.39F31-P43	0,921	4,605	5,735	2,281	1,250	1,625	1,799	1 / 1	
	D4120.05-23.80F31-P43	0,937	4,685	5,815	2,281	1,250	1,625	1,830	1 / 1	
	D4120.05-24.59F31-P44	0,968	4,840	5,97	2,281	1,250	1,625	1,759	1 / 1	
	D4120.05-24.99F31-P44	0,984	4,92	6,050	2,281	1,250	1,625	1,764	1 / 1	
	D4120.05-25.40F31-P44	1,000	5,000	6,130	2,362	1,250	1,625	1,94	1 / 1	
	D4120.05-26.57F31-P44	1,046	5,230	6,360	2,281	1,250	1,625	2,064	1 / 1	
	D4120.05-26.97F31-P44	1,062	5,31	6,44	2,281	1,250	1,625	2,072	1 / 1	
	D4120.05-28.17F31-P44	1,109	5,545	6,675	2,281	1,250	1,625	2,22	1 / 1	
 Cylindrical shank with flat	D4120.05-28.58F31-P44	1,125	5,625	6,755	2,281	1,250	1,625	2,227	1 / 1	P484 . P-4R- .. P484 . C-4R- ..
	D4120.05-29.74F31-P45	1,171	5,855	6,985	2,281	1,250	1,625	2,33	1 / 1	
	D4120.05-30.15F31-P45	1,187	5,935	7,065	2,281	1,250	1,625	2,374	1 / 1	
	D4120.05-31.75F31-P45	1,250	6,250	7,380	2,281	1,250	1,625	2,579	1 / 1	
	D4120.05-33.32F31-P45	1,312	6,56	7,69	2,281	1,250	1,625	2,789	1 / 1	
	D4120.05-34.11F31-P45	1,343	6,715	7,845	2,281	1,250	1,625	2,908	1 / 1	
	D4120.05-34.93F31-P45	1,375	6,875	8,005	2,281	1,250	1,625	2,91	1 / 1	
	D4120.05-36.09F31-P46	1,421	7,105	8,235	2,281	1,250	1,625	2,932	1 / 1	
	D4120.05-36.50F38-P46	1,437	7,185	8,565	2,688	1,500	1,940	3,814	1 / 1	
	D4120.05-38.10F38-P46	1,500	7,500	8,880	2,688	1,500	1,940	4,079	1 / 1	
 Cylindrical shank with flat	D4120.05-39.67F38-P46	1,562	7,81	9,19	2,688	1,500	1,940	4,597	1 / 1	P484 . P-6R- .. P484 . C-6R- ..
	D4120.05-41.28F38-P46	1,625	8,125	9,505	2,688	1,500	1,940	4,579	1 / 1	
	D4120.05-42.85F38-P47	1,687	8,435	9,815	2,688	1,500	1,940	4,665	1 / 1	
	D4120.05-44.45F38-P47	1,750	8,750	10,130	2,688	1,500	1,940	5,146	1 / 1	
	D4120.05-46.02F38-P47	1,812	9,06	10,44	2,688	1,500	1,940	5,54	1 / 1	
	D4120.05-47.63F38-P47	1,875	9,375	10,755	2,688	1,500	1,940	5,977	1 / 1	
	D4120.05-49.20F38-P47	1,937	9,685	11,065	2,688	1,500	1,940	6,446	1 / 1	
 Cylindrical shank with flat										P484 . P-7R- .. P484 . C-7R- ..

Corpo e componentes estão incluídos no escopo de fornecimento

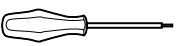
WALTER SELECT

Estabilidade da máquina, peça e fixação → muito boa = 😊 → boa = 😊 → razoável = 😊

Componentes

	D _c [inch]	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,375	1,421–1,625	1,687–2,25
	Parafuso para inserto intercambiável Torque de aperto	FS2111 (T7IP) 0,664 lbs	FS1454 (T8IP) 0,885 lbs	FS1457 (T9IP) 1,475 lbs	FS2080 (T15IP) 1,844 lbs	FS1453 (T15IP) 2,581 lbs	FS1495 (T20IP) 3,688 lbs

Acessórios

	D _c [inch]	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,625	1,687–2,25
	Chave com controle de torque, analógica	FS2002	FS2002	FS2004	FS2004	FS2004
	Chave com controle de torque, digital		FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-2R-E67											
	P4840C-2R-E77											
	P4841C-2R-A57											
	P4841C-2R-E57											
	P4840C-3R-E67											
	P4840C-3R-E77											
	P4841C-3R-A57											
	P4841C-3R-E57											
	P4840C-.R-E67											
	P4840C-.R-E77											
	P4841C-.R-A57											
	P4841C-.R-E57											
	P4840P-2R-A57											
	P4840P-2R-E57											
	P4840P-2R-E67											
	P4840P-2R-E77											
	P4841P-2R-A57											
	P4841P-2R-E57											
	P4840P-3R-A57											
	P4840P-3R-E57											
	P4840P-3R-E67											
	P4840P-3R-E77											
	P4841P-3R-A57											
	P4841P-3R-E57											
	P4840P-.R-A57											
	P4840P-.R-E57											
	P4840P-.R-E67											
	P4840P-.R-E77											
	P4841P-.R-A57											
	P4841P-.R-E57											

P48...C = inserto central
P48...P = inserto periférico

HC = metal duro com revestimento
HW = Metal duro não revestido

Broca com insertos intercambiáveis

D4120 inch

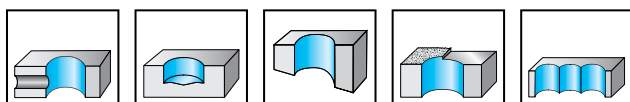
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B1

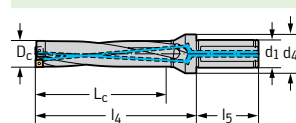
5×D_C

Z = 1



	P	M	K	N	S	H	O
D4120	●●		●●	●●			

Ferramenta



Cylindrical shank with flat

Denominação

D_C
inch

L_C
inch

l₄
inch

l₅
inch

d₁
inch

d₄
inch

Qnt.
insertos
EA

Tipo

D4120.05-50.80F51-P48

2,000

10,000

11,62

3,250

2,000

2,440

9,132

1 / 1

P484 . P-8R- ..

D4120.05-52.37F51-P48

2,062

10,31

11,930

3,250

2,000

2,440

9,685

1 / 1

P484 . C-8R- ..

D4120.05-53.98F51-P48

2,125

10,625

12,245

3,250

2,000

2,440

10,28

1 / 1

D4120.05-55.55F51-P48

2,187

10,935

12,555

3,250

2,000

2,440

10,895

1 / 1

D4120.05-57.15F51-P48

2,250

11,250

12,87

3,250

2,000

2,440

11,559

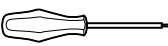
1 / 1

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [inch]	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,375	1,421–1,625	1,687–2,25
	Parafuso para inserto intercambiável Torque de aperto	FS2111 (T7IP) 0,664 lbs	FS1454 (T8IP) 0,885 lbs	FS1457 (T9IP) 1,475 lbs	FS2080 (T15IP) 1,844 lbs	FS1453 (T15IP) 2,581 lbs	FS1495 (T20IP) 3,688 lbs

Acessórios

	D _c [inch]	0,656–0,781	0,812–0,937	0,968–1,125	1,171–1,625	1,687–2,25
	Chave com controle de torque, analógica	FS2002	FS2002	FS2004	FS2004	FS2004
	Chave com controle de torque, digital		FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2011 (T7IP)	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS2088 (T7IP)	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC HW		HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNN15	WSP45G
	P4840C-2R-E67		☑	☑	☑	☑	☑	☑	☑			☑
	P4840C-2R-E77									☑	☑	
	P4841C-2R-A57		☑	☑	☑	☑	☑	☑	☑			☑
	P4841C-2R-E57		☑	☑	☑	☑	☑	☑	☑			☑
	P4840C-3R-E67		☑	☑	☑	☑	☑	☑	☑			☑
	P4840C-3R-E77									☑	☑	
	P4841C-3R-A57		☑	☑	☑	☑	☑	☑	☑			☑
	P4841C-3R-E57		☑	☑	☑	☑	☑	☑	☑			☑
	P4840C-.R-E67		☑	☑	☑	☑	☑	☑	☑			☑
	P4840C-.R-E77									☑	☑	
	P4841C-.R-A57		☑	☑	☑	☑	☑	☑	☑			☑
	P4841C-.R-E57		☑	☑	☑	☑	☑	☑	☑			☑
	P4840P-2R-A57	☑	☑	☑		☑		☑	☑			☑
	P4840P-2R-E57	☑	☑	☑		☑		☑	☑			☑
	P4840P-2R-E67	☑	☑	☑		☑		☑	☑			☑
	P4840P-2R-E77									☑	☑	
	P4841P-2R-A57	☑	☑	☑		☑		☑	☑			☑
	P4841P-2R-E57	☑	☑	☑		☑		☑	☑			☑
	P4840P-3R-A57	☑	☑	☑		☑		☑	☑			☑
	P4840P-3R-E57	☑	☑	☑		☑		☑	☑			☑
	P4840P-3R-E67	☑	☑	☑		☑		☑	☑			☑
	P4840P-3R-E77									☑	☑	
	P4841P-3R-A57	☑	☑	☑		☑		☑	☑			☑
	P4841P-3R-E57	☑	☑	☑		☑		☑	☑			☑
	P4840P-.R-A57	☑	☑	☑		☑		☑	☑			☑
	P4840P-.R-E57	☑	☑	☑		☑		☑	☑			☑
	P4840P-.R-E67	☑	☑	☑		☑		☑	☑			☑
	P4840P-.R-E77									☑	☑	
	P4841P-.R-A57	☑	☑	☑		☑		☑	☑			☑
	P4841P-.R-E57	☑	☑	☑		☑		☑	☑			☑

P48 ... C = inserto central
P48 ... P = inserto periférico

HC = metal duro com revestimento
HW = Metal duro não revestido

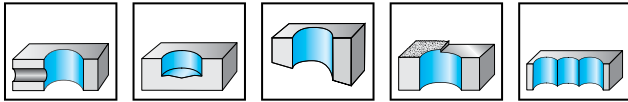
Broca com insertos intercambiáveis com cápsula

D4170 mm

Drion-tec®



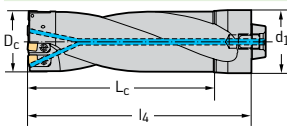
B1



D_c 65-80	$3 \times D_c$	$Z = 1$

	P	M	K	N	S	H	O
D4170	●	●	●	●	●		

Ferramenta

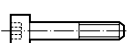


Modular NCT adaptor

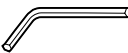
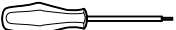
Denominação	D_c mm	L_c mm	l_4 mm	d_1 mm	d_2	kg	Qnt. insertos	Tipo
D4170-03-65.00N8-P45	65	195	245	80	NCT 80	4,32	3 / 1	P484 . P-5R- .. P484 . C-5R- ..
D4170-03-68.00N8-P46	68	204	254	80	NCT 80	4,4	3 / 1	P484 . P-6R- .. P484 . C-6R- ..
D4170-03-70.00N8-P46	70	210	260	80	NCT 80	4,64	3 / 1	
D4170-03-78.00N8-P46	78	234	284	80	NCT 80	6,13	3 / 1	
D4170-03-80.00N8-P45	80	240	290	80	NCT 80	6,33	5 / 1	P484 . P-5R- .. P484 . C-5R- ..

Atenção: em furos passantes origina-se um disco quando a ferramenta gira. Há possibilidade deste ser lançado para fora. Adotar as medidas de proteção apropriadas! | Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [mm]	65	68	70	78	80
	Parafuso para inserto intercambiável Torque de aperto	FS1453 (T15IP) 3,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1453 (T15IP) 3,5 Nm	FS1453 (T15IP) 3,5 Nm
	Cápsula interna	FR737C-5	FR743C-6	FR743C-6	FR743C-6	FR737C-5
	Cápsula externa 1	FR738P-5	FR744P-6	FR744P-6	FR744P-6	FR738P-5
	Parafuso de regulagem radial	FS334 (SW 2)	FS334 (SW 2)			
	Cápsula externa 2	FR741P-5	FR745P-6	FR746P-6	FR748P-6	FR739P-5
	Cápsula externa 2 Parafuso para Torque de aperto	FS1149 (SW 4) 5 Nm	FS1149 (SW 4) 5 Nm	FS1149 (SW 4) 5 Nm	FS1149 (SW 4) 5 Nm	FS1149 (SW 4) 5 Nm
	Cápsula externa 2 Parafuso para Torque de aperto	FS966 (SW 5) 8 Nm	FS966 (SW 5) 8 Nm	FS966 (SW 5) 8 Nm	FS966 (SW 5) 8 Nm	FS966 (SW 5) 8 Nm

Acessórios

	D _c [mm]	65-80
	Chave com controle de torque, analógica	FS2003
	Chave com controle de torque, digital	FS2248
	Haste intercambiável	FS2014 (T15IP)
	Cápsula externa 2 Chave ISO 2936 para	ISO2936-4 (SW 4)
	Cápsula externa 2 Chave ISO 2936 para	ISO2936-5 (SW 5)
	Chave	FS1485 (T15IP)

Nas ferramentas com diâmetro D_c = 80 mm, a cápsula externa 1 (FR738P-5) é montada três vezes

Insertos intercambiáveis

	Denominação	Tamanho	P				M		K		N		S
			HC				HC		HC		HC HW		HC
			WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WN15	WSP45G
	P4840C-.R-E67	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P4840C-.R-E77	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P4841C-.R-A57	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P4841C-.R-E57	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P4840P-.R-A57	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P4840P-.R-E57	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P4840P-.R-E67	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P4840P-.R-E77	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P4841P-.R-A57	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P4841P-.R-E57	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

P48...C = inserto central
P48...P = inserto periférico

HC = metal duro com revestimento
HW = Metal duro não revestido

Broca com insertos intercambiáveis

D3120

mm

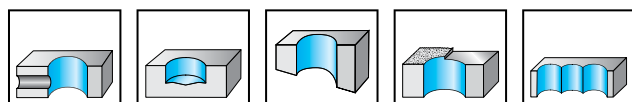
Drion-tec®



B1

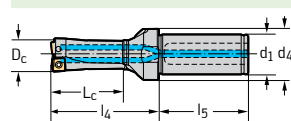
2×D_c

Z = 1



	P	M	K	N	S	H	O
D3120	●	●	●	●	●		

Ferramenta



Cylindrical shank with flat

Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tipo
D3120-02-16.00F25-P21	16	32	57	56	25	32	0,3	2	P284 . S-1N- ..
D3120-02-17.00F25-P21	17	34	59	56	25	32	0,31	2	
D3120-02-18.00F25-P21	18	36	61	56	25	32	0,31	2	
D3120-02-19.00F25-P21	19	38	63	56	25	32	0,32	2	
D3120-02-20.00F25-P21	20	40	65	56	25	32	0,34	2	
D3120-02-21.00F25-P22	21	42	67	56	25	32	0,33	2	P284 . S-2N- ..
D3120-02-22.00F25-P22	22	44	69	56	25	32	0,35	2	
D3120-02-23.00F25-P22	23	46	71	56	25	32	0,36	2	
D3120-02-24.00F25-P22	24	48	73	56	25	32	0,37	2	
D3120-02-25.00F25-P22	25	50	75	56	25	32	0,39	2	
D3120-02-26.00F32-P23	26	52	84	60	32	40	0,62	2	P284 . S-3N- ..
D3120-02-27.00F32-P23	27	54	86	60	32	40	0,68	2	
D3120-02-28.00F32-P23	28	56	88	60	32	40	0,7	2	
D3120-02-29.00F32-P23	29	58	90	60	32	40	0,69	2	
D3120-02-30.00F32-P23	30	60	92	60	32	40	0,71	2	
D3120-02-31.00F32-P24	31	62	94	60	32	40	0,69	2	P284 . S-4N- ..
D3120-02-32.00F32-P24	32	64	96	60	32	40	0,72	2	
D3120-02-33.00F32-P24	33	66	98	60	32	40	0,75	2	
D3120-02-34.00F32-P24	34	68	100	60	32	40	0,78	2	
D3120-02-35.00F32-P24	35	70	102	60	32	40	0,81	2	
D3120-02-36.00F32-P24	36	72	104	60	32	40	0,85	2	P284 . S-5N- ..
D3120-02-37.00F40-P25	37	74	114	70	40	50	1,28	2	
D3120-02-38.00F40-P25	38	76	116	70	40	50	1,32	2	
D3120-02-39.00F40-P25	39	78	118	70	40	50	1,36	2	
D3120-02-40.00F40-P25	40	80	120	70	40	50	1,39	2	
D3120-02-41.00F40-P25	41	82	122	70	40	50	1,44	2	
D3120-02-42.00F40-P25	42	84	124	70	40	50	1,48	2	

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

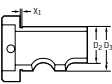
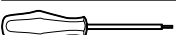
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [mm]	16–20	21–25	26–30	31–36	37–42
	Parafuso para inserto intercambiável Torque de aperto	FS1454 (T8IP) 1,2 Nm	FS1456 (T9IP) 2 Nm	FS2181 (T15IP) 3 Nm	FS2119 (T15IP) 3 Nm	FS2139 (T20IP) 5 Nm

Acessórios

	D _c [mm]	16–20	21–25	26–36	37–42
	Luva excêntrica, faixa ajuste -0,2 – +0,55mm a Ø	FS722	FS722	FS723	FS724
	Chave com controle de torque, analógica	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital	FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

	Denominação	Tamanho	P				M		K		N		S	
			HC				HC		HC		HC HW		HC	
			WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNI15	WSP45G	
	P2840S-.N-A57	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-.N-E67	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-.N-E77	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-.N-A57	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-.N-E57	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-.N-E67	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-2N-A57	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-2N-E67	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-2N-E77	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-2N-A57	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-2N-E57	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-2N-E67	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-3N-A57	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-3N-E67	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-3N-E77	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-3N-A57	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-3N-E57	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-3N-E67	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D3120 mm

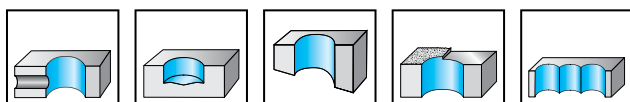
Drion-tec®



B1

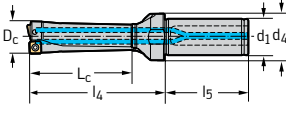
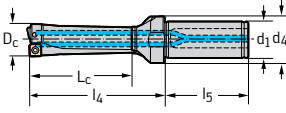
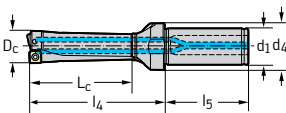
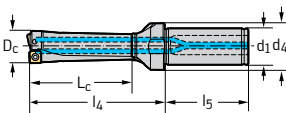
3×D_C

Z = 1



	P	M	K	N	S	H	O
D3120	●	●	●	●	●		

Ferramenta

	Denominação	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tipo
 Cylindrical shank with flat	D3120-03-16.00F25-P21	16	48	73	56	25	32	0,34	2	P284 . S-1N- ..
	D3120-03-17.00F25-P21	17	51	76	56	25	32	0,32	2	
	D3120-03-17.50F25-P21	17,5	52,5	77,5	56	25	32	0,32	2	
	D3120-03-18.00F25-P21	18	54	79	56	25	32	0,33	2	
	D3120-03-19.00F25-P21	19	57	82	56	25	32	0,34	2	
	D3120-03-19.50F25-P21	19,5	58,5	83,5	56	25	32	0,39	2	
	D3120-03-20.00F25-P21	20	60	85	56	25	32	0,36	2	
 Cylindrical shank with flat	D3120-03-21.00F25-P22	21	63	88	56	25	32	0,36	2	P284 . S-2N- ..
	D3120-03-22.00F25-P22	22	66	91	56	25	32	0,39	2	
	D3120-03-23.00F25-P22	23	69	94	56	25	32	0,37	2	
	D3120-03-24.00F25-P22	24	72	97	56	25	32	0,42	2	
	D3120-03-25.00F25-P22	25	75	100	56	25	32	0,46	2	
	D3120-03-26.00F32-P23	26	78	110	60	32	40	0,71	2	P284 . S-3N- ..
	D3120-03-26.50F32-P23	26,5	79,5	111,5	60	32	40	0,69	2	
 Cylindrical shank with flat	D3120-03-27.00F32-P23	27	81	113	60	32	40	0,74	2	
	D3120-03-28.00F32-P23	28	84	116	60	32	40	0,73	2	
	D3120-03-29.00F32-P23	29	87	119	60	32	40	0,76	2	
	D3120-03-29.50F32-P23	29,5	88,5	120,5	60	32	40	0,78	2	
	D3120-03-30.00F32-P23	30	90	122	60	32	40	0,79	2	
	D3120-03-31.00F32-P24	31	93	125	60	32	40	0,78	2	P284 . S-4N- ..
	D3120-03-32.00F32-P24	32	96	128	60	32	40	0,81	2	
 Cylindrical shank with flat	D3120-03-33.00F32-P24	33	99	131	60	32	40	0,86	2	
	D3120-03-34.00F32-P24	34	102	134	60	32	40	0,9	2	
	D3120-03-35.00F32-P24	35	105	137	60	32	40	0,98	2	
	D3120-03-36.00F32-P24	36	108	140	60	32	40	1,06	2	

Corpo e componentes estão incluídos no escopo de fornecimento

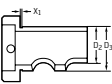
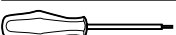
WALTER SELECT

Estabilidade da máquina, peça e fixação → muito boa = 😊 → boa = 😊 → razoável = 😊

Componentes

	D _c [mm]	16–20	21–25	26–30	31–36
	Parafuso para inserto intercambiável Torque de aperto	FS1454 (T8IP) 1,2 Nm	FS1456 (T9IP) 2 Nm	FS2181 (T15IP) 3 Nm	FS2119 (T15IP) 3 Nm

Acessórios

	D _c [mm]	16–20	21–25	26–36
	Luva excêntrica, faixa ajuste -0,2 – +0,55mm a Ø	FS722	FS722	FS723
	Chave com controle de torque, analógica	FS2001	FS2003	FS2003
	Chave com controle de torque, digital	FS2248	FS2248	FS2248
	Haste intercambiável	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)
	Chave	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)

Insertos intercambiáveis

	Denominação	Tamanho	P				M		K		N		S
			HC				HC		HC		HC HW		
			WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WN15	
	P2840S-.N-A57	1-4	☺	☺	☺		☺		☺				☺
	P2840S-.N-E67	1-4		☺	☺		☺		☺				☺
	P2840S-.N-E77	1-4								☺	☺		
	P2841S-.N-A57	1-4	☺	☺	☺	☺	☺	☺	☺				☺
	P2841S-.N-E57	1-4	☺	☺	☺	☺	☺	☺	☺				☺
	P2841S-.N-E67	1-4		☺	☺	☺	☺		☺				☺
	P2840S-2N-A57	2	☺	☺	☺		☺		☺	☺			☺
	P2840S-2N-E67	2		☺	☺		☺		☺				☺
	P2840S-2N-E77	2								☺	☺		
	P2841S-2N-A57	2	☺	☺	☺	☺	☺	☺	☺				☺
	P2841S-2N-E57	2	☺	☺	☺	☺	☺	☺	☺				☺
	P2841S-2N-E67	2		☺	☺	☺	☺		☺				☺
	P2840S-3N-A57	3	☺				☺		☺	☺			☺
	P2840S-3N-E67	3		☺	☺		☺		☺				☺
	P2840S-3N-E77	3								☺	☺		
	P2841S-3N-A57	3	☺	☺	☺	☺	☺	☺	☺				☺
	P2841S-3N-E57	3	☺	☺	☺	☺	☺	☺	☺				☺
	P2841S-3N-E67	3		☺	☺	☺	☺		☺				☺

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

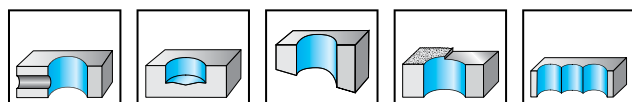
D3120

mm

Drion-tec®



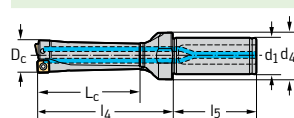
B1


3×D_c

Z = 1

	P	M	K	N	S	H	O
D3120	●	●	●	●	●		

Ferramenta



Cylindrical shank with flat

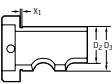
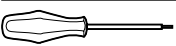
Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tipo
D3120-03-37.00F40-P25	37	111	151	70	40	50	1,43	2	P284 . S-5N- ..
D3120-03-37.50F40-P25	37,5	112,5	152,5	70	40	50	1,46	2	
D3120-03-38.00F40-P25	38	114	154	70	40	50	1,49	2	
D3120-03-39.00F40-P25	39	117	157	70	40	50	1,64	2	
D3120-03-40.00F40-P25	40	120	160	70	40	50	1,6	2	
D3120-03-40.50F40-P25	40,5	121,5	161,5	70	40	50	1,64	2	
D3120-03-41.00F40-P25	41	123	163	70	40	50	1,67	2	
D3120-03-42.00F40-P25	42	126	166	70	40	50	1,83	2	
D3120-03-43.00F40-P26	43	129	169	70	40	50	1,74	2	P284 . S-6N- ..
D3120-03-44.00F40-P26	44	132	172	70	40	50	1,81	2	
D3120-03-45.00F40-P26	45	135	175	70	40	50	1,89	2	
D3120-03-46.00F40-P26	46	138	178	70	40	50	1,98	2	
D3120-03-47.00F40-P26	47	141	181	70	40	50	2,05	2	
D3120-03-48.00F40-P26	48	144	184	70	40	50	2,14	2	
D3120-03-49.00F40-P26	49	147	187	70	40	50	2,23	2	
D3120-03-50.00F40-P26	50	150	190	70	40	50	2,33	2	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [mm]	37-42	43-50
	Parafuso para inserto intercambiável Torque de aperto	FS2139 (T20IP) 5 Nm	FS2281 (T20IP) 5 Nm

Acessórios

	D _c [mm]	37-50
	Luva excêntrica, faixa ajuste -0,2 – +0,55mm a Ø	FS724
	Chave com controle de torque, analógica	FS2003
	Chave com controle de torque, digital	FS2248
	Haste intercambiável	FS2015 (T20IP)
	Chave	FS1486 (T20IP)

Insertos intercambiáveis

	Denominação	Tamanho	P				M		K		N		S
			HC				HC		HC		HC HW		HC
			WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNI15	WSP45G
	P2840S-.N-A57	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-.N-E67	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-.N-E77	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-.N-A57	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-.N-E57	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-.N-E67	5-6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

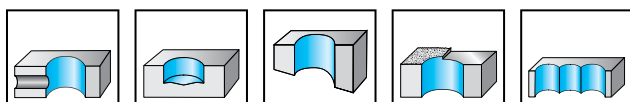
D3120

mm

Drion-tec®

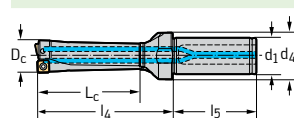


B1

 $3 \times D_c$
 $Z = 1$


	P	M	K	N	S	H	O
D3120	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank with flat

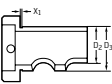
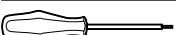
Denominação	D _c mm	L _c mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tipo
D3120-03-50.50F40-P27	50,5	151,5	191,5	70	40	50	2,29	2	P284 . S-7N- ..
D3120-03-51.00F40-P27	51	153	193	70	40	50	2,34	2	
D3120-03-52.00F40-P27	52	156	196	70	40	50	2,44	2	
D3120-03-53.00F40-P27	53	159	199	70	40	50	2,55	2	
D3120-03-54.00F40-P27	54	162	202	70	40	50	2,67	2	
D3120-03-54.50F40-P27	54,5	163,5	203,5	70	40	50	2,73	2	
D3120-03-55.00F40-P27	55	165	205	70	40	50	2,79	2	
D3120-03-56.00F40-P27	56	168	208	70	40	50	2,91	2	
D3120-03-57.00F40-P27	57	171	211	70	40	50	3,04	2	
D3120-03-58.00F40-P27	58	174	214	70	40	50	3,17	2	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [mm]	50,5–58
	Parafuso para inserto intercambiável Torque de aperto	FS2281 (T20IP) 5 Nm

Acessórios

	D _c [mm]	50,5–58
	Luva excêntrica, faixa ajuste -0,2 – +0,55mm a Ø	FS724
	Chave com controle de torque, analógica	FS2003
	Chave com controle de torque, digital	FS2248
	Haste intercambiável	FS2015 (T20IP)
	Chave	FS1486 (T20IP)

Insertos intercambiáveis

			P				M		K		N		S
			HC				HC		HC		HC HW		HC
	Denominação	Tamanho	WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNI15	WSP45G
	P2840S-.N-A57	7											
	P2840S-.N-E67	7											
	P2840S-.N-E77	7											
	P2841S-.N-A57	7											
	P2841S-.N-E57	7											
	P2841S-.N-E67	7											

HC = Coated carbide
HW = Uncoated carbide

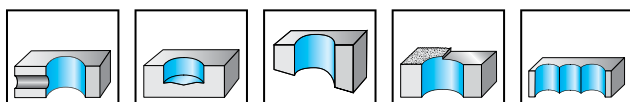
Broca com insertos intercambiáveis

D3120 inch

Drion-tec®



B1

 $3 \times D_c$
 $Z = 1$


	P	M	K	N	S	H	O
D3120	●	●	●	●	●		

Ferramenta

	Denominação	D_c inch	L_c inch	l_4 inch	l_5 inch	d_1 inch	d_4 inch	lbs	Qnt. insertos	Tipo
 Cylindrical shank with flat	D3120.03-19.05F26-P21	0,750	2,252	3,256	2,281	1,000	1,378	0,825	2	P284 . S-1N- ..
	D3120.03-22.23F26-P22	0,875	2,626	3,630	2,281	1,000	1,378	0,902	2	P284 . S-2N- ..
	D3120.03-25.40F26-P22	1,000	3,000	4,004	2,281	1,000	1,378	1,054	2	P284 . S-3N- ..
 Cylindrical shank with flat	D3120.03-28.58F31-P23	1,125	3,378	4,634	2,281	1,250	1,622	1,618	2	P284 . S-3N- ..
	D3120.03-31.75F31-P24	1,250	3,752	5,008	2,281	1,250	1,622	1,75	2	P284 . S-4N- ..
 Cylindrical shank with flat	D3120.03-34.93F31-P24	1,375	4,126	5,382	2,281	1,250	1,622	2,055	2	P284 . S-4N- ..
	D3120.03-38.10F38-P25	1,500	4,500	6,075	2,688	1,500	1,929	3,100	2	P284 . S-5N- ..
Corpo e componentes estão incluídos no escopo de fornecimento										

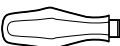
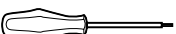
WALTER SELECT

Estabilidade da máquina, peça e fixação → muito boa = 😊 → boa = 😐 → razoável = 😞

Componentes

	D _c [inch]	0,75	0,875-1	1,125	1,25-1,375	1,5
	Parafuso para inserto intercambiável Torque de aperto	FS1454 (T8IP) 0,885 lbs	FS1456 (T9IP) 1,475 lbs	FS2181 (T15IP) 2,213 lbs	FS2119 (T15IP) 2,213 lbs	FS2139 (T20IP) 3,688 lbs

Acessórios

	D _c [inch]	0,75	0,875-1	1,125-1,375	1,5
	Chave com controle de torque, analógica	FS2002	FS2004	FS2004	FS2004
	Chave com controle de torque, digital	FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC	HW	HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNI15	WSP45G
	P2840S-.N-A57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2840S-.N-E67		☺	☺	☺	☺	☺	☺	☺			☺
	P2840S-.N-E77									☺	☺	
	P2841S-.N-A57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2841S-.N-E57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2841S-.N-E67		☺	☺	☺	☺	☺	☺	☺			☺
	P2840S-2N-A57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2840S-2N-E67		☺	☺	☺	☺	☺	☺	☺			☺
	P2840S-2N-E77									☺	☺	
	P2841S-2N-A57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2841S-2N-E57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2841S-2N-E67		☺	☺	☺	☺	☺	☺	☺			☺
	P2840S-3N-A57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2840S-3N-E67		☺	☺	☺	☺	☺	☺	☺			☺
	P2840S-3N-E77									☺	☺	
	P2841S-3N-A57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2841S-3N-E57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2841S-3N-E67		☺	☺	☺	☺	☺	☺	☺			☺

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D3120

mm

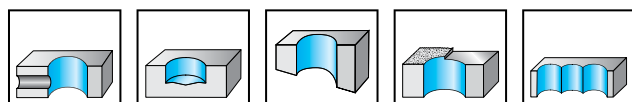
Drion-tec®



B1

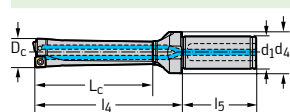
4×D_C

Z=1



	P	M	K	N	S	H	O
D3120	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank with flat

Denominação	D _C mm	L _C mm	l ₄ mm	l ₅ mm	d ₁ mm	d ₄ mm	kg	Qnt. insertos	Tipo
D3120-04-16.00F25-P21	16	64	89	56	25	32	0,35	2	P284 . S-1N- ..
D3120-04-17.00F25-P21	17	68	93	56	25	32	0,33	2	
D3120-04-18.00F25-P21	18	72	97	56	25	32	0,35	2	
D3120-04-19.00F25-P21	19	76	101	56	25	32	0,36	2	
D3120-04-20.00F25-P21	20	80	105	56	25	32	0,38	2	
D3120-04-21.00F25-P22	21	84	109	56	25	32	0,38	2	P284 . S-2N- ..
D3120-04-22.00F25-P22	22	88	113	56	25	32	0,43	2	
D3120-04-23.00F25-P22	23	92	117	56	25	32	0,43	2	
D3120-04-24.00F25-P22	24	96	121	56	25	32	0,48	2	
D3120-04-25.00F25-P22	25	100	125	56	25	32	0,51	2	
D3120-04-26.00F32-P23	26	104	136	60	32	40	0,72	2	P284 . S-3N- ..
D3120-04-27.00F32-P23	27	108	140	60	32	40	0,76	2	
D3120-04-28.00F32-P23	28	112	144	60	32	40	0,8	2	
D3120-04-29.00F32-P23	29	116	148	60	32	40	0,84	2	
D3120-04-30.00F32-P23	30	120	152	60	32	40	0,88	2	
D3120-04-31.00F32-P24	31	124	156	60	32	40	0,86	2	P284 . S-4N- ..
D3120-04-32.00F32-P24	32	128	160	60	32	40	0,91	2	
D3120-04-33.00F32-P24	33	132	164	60	32	40	0,96	2	
D3120-04-34.00F32-P24	34	136	168	60	32	40	1,08	2	
D3120-04-35.00F32-P24	35	140	172	60	32	40	1,08	2	
D3120-04-36.00F32-P24	36	144	176	60	32	40	1,15	2	P284 . S-5N- ..
D3120-04-37.00F40-P25	37	148	188	70	40	50	1,59	2	
D3120-04-38.00F40-P25	38	152	192	70	40	50	1,66	2	
D3120-04-39.00F40-P25	39	156	196	70	40	50	1,74	2	
D3120-04-40.00F40-P25	40	160	200	70	40	50	1,89	2	
D3120-04-41.00F40-P25	41	164	204	70	40	50	1,9	2	
D3120-04-42.00F40-P25	42	168	208	70	40	50	1,99	2	

Corpo e componentes estão incluídos no escopo de fornecimento

WALTER SELECT

Estabilidade da máquina, peça e fixação

→ muito boa = 😊

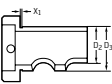
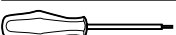
→ boa = 😊

→ razoável = 😊

Componentes

	D _c [mm]	16–20	21–25	26–30	31–36	37–42
	Parafuso para inserto intercambiável Torque de aperto	FS1454 (T8IP) 1,2 Nm	FS1456 (T9IP) 2 Nm	FS2181 (T15IP) 3 Nm	FS2119 (T15IP) 3 Nm	FS2139 (T20IP) 5 Nm

Acessórios

	D _c [mm]	16–20	21–25	26–36	37–42
	Luva excêntrica, faixa ajuste -0,2 – +0,55mm a Ø	FS722	FS722	FS723	FS724
	Chave com controle de torque, analógica	FS2001	FS2003	FS2003	FS2003
	Chave com controle de torque, digital	FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

	Denominação	Tamanho	P				M		K		N		S	
			HC				HC		HC		HC HW		HC	
			WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WN15	WSP45G	
	P2840S-.N-A57	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-.N-E67	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-.N-E77	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-.N-A57	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-.N-E57	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-.N-E67	1-5	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-2N-A57	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-2N-E67	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-2N-E77	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-2N-A57	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-2N-E57	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-2N-E67	2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-3N-A57	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-3N-E67	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2840S-3N-E77	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-3N-A57	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-3N-E57	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P2841S-3N-E67	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

Broca com insertos intercambiáveis

D3120 inch

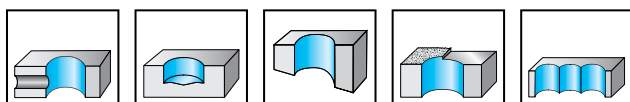
Drion-tec®



B1

4×D_C

Z = 1



	P	M	K	N	S	H	O
D3120	●	●	●	●	●	●	●

Ferramenta

	Denominação	D _C inch	L _C inch	l ₄ inch	l ₅ inch	d ₁ inch	d ₄ inch	lbs	Qnt. insertos	Tipo
	D3120.04-19.05F26-P21	0,750	3,000	4,004	2,281	1,000	1,378	0,869	2	P284 . S-1N- ..
Cylindrical shank with flat										
	D3120.04-25.40F26-P22	1,000	4,000	5,004	2,281	1,000	1,378	1,168	2	P284 . S-2N- ..
Cylindrical shank with flat										
	D3120.04-31.75F31-P24	1,250	5,000	6,256	2,281	1,250	1,622	1,953	2	P284 . S-4N- ..
Cylindrical shank with flat										
	D3120.04-38.10F38-P25	1,500	6,000	7,626	2,688	1,500	1,929	3,503	2	P284 . S-5N- ..
Cylindrical shank with flat										

Corpo e componentes estão incluídos no escopo de fornecimento

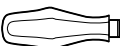
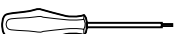
WALTER SELECT

Estabilidade da máquina, peça e fixação → muito boa = 😊 → boa = 😐 → razoável = 😞

Componentes

	D _c [inch]	0,75	1	1,25	1,5
	Parafuso para inserto intercambiável Torque de aperto	FS1454 (T8IP) 0,885 lbs	FS1456 (T9IP) 1,475 lbs	FS2119 (T15IP) 2,213 lbs	FS2139 (T20IP) 3,688 lbs

Acessórios

	D _c [inch]	0,75	1	1,25	1,5
	Chave com controle de torque, analógica	FS2002	FS2004	FS2004	FS2004
	Chave com controle de torque, digital	FS2248	FS2248	FS2248	FS2248
	Haste intercambiável	FS2012 (T8IP)	FS2013 (T9IP)	FS2014 (T15IP)	FS2015 (T20IP)
	Chave	FS1483 (T8IP)	FS1484 (T9IP)	FS1485 (T15IP)	FS1486 (T20IP)

Insertos intercambiáveis

Denominação	Tamanho	P				M		K		N		S
		HC				HC		HC		HC	HW	HC
		WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNI15	WSP45G
	P2840S-.N-A57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2840S-.N-E67		☺	☺	☺	☺		☺	☺			☺
	P2840S-.N-E77									☺	☺	
	P2841S-.N-A57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2841S-.N-E57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2841S-.N-E67		☺	☺	☺	☺		☺	☺			☺
	P2840S-2N-A57	☺	☺	☺	☺	☺		☺	☺			☺
	P2840S-2N-E67		☺	☺	☺	☺		☺	☺			☺
	P2840S-2N-E77									☺	☺	
	P2841S-2N-A57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2841S-2N-E57	☺	☺	☺	☺	☺	☺	☺	☺			☺
	P2841S-2N-E67		☺	☺	☺	☺		☺	☺			☺

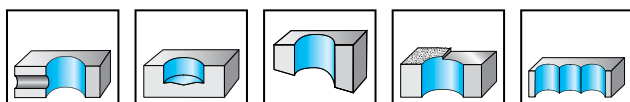
HC = Coated carbide
HW = Uncoated carbide

Brocas

B3212 mm



B1



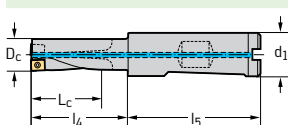
D_c
10-18

$2 \times D_c$

$Z = 1$

	P	M	K	N	S	H	O
B3212	●	●	●	●	●		

Ferramenta



DIN 6535 HE, turned 180° DIN 6535 HB

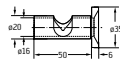
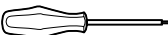
Denominação	D_c mm	L_c mm	l_4 mm	l_5 mm	d_1 mm	kg	Qnt. insertos	Tipo
B3212.DF.10.0.Z01.20R	10	20	31	48	16	0,09	1 / 1	LCMX050203- ..
B3212.DF.10.2.Z01.20R	10,2	20,4	31	48	16	0,09	1 / 1	LCMX050203- ..
B3212.DF.10.5.Z01.21R	10,5	21	32	48	16	0,09	1 / 1	..
B3212.DF.11.0.Z01.22R	11	22	34	48	16	0,09	1 / 1	..
B3212.DF.11.5.Z01.23R	11,5	23	35	48	16	0,09	1 / 1	
B3212.DF.11.7.Z01.23R	11,7	23,4	35	48	16	0,09	1 / 1	
B3212.DF.12.0.Z01.24R	12	24	36	48	16	0,1	1 / 1	
B3212.DF.12.5.Z01.25R	12,5	25	38	48	16	0,1	1 / 1	
B3212.DF.13.0.Z01.26R	13	26	39	48	16	0,1	1 / 1	
B3212.DF.13.5.Z01.27R	13,5	27	40	48	16	0,1	1 / 1	
B3212.DF.13.7.Z01.27R	13,7	27,4	41	48	16	0,1	1 / 1	
B3212.DF.14.0.Z01.28R	14	28	42	48	16	0,1	1 / 1	LCMX06T204- ..
B3212.DF.14.5.Z01.29R	14,5	29	43	48	16	0,11	1 / 1	LCMX06T204- ..
B3212.DF.15.0.Z01.30R	15	30	44	48	16	0,11	1 / 1	
B3212.DF.15.5.Z01.31R	15,5	31	45	48	16	0,11	1 / 1	
B3212.DF.15.7.Z01.31R	15,7	31,4	46	48	16	0,11	1 / 1	
B3212.DF.16.0.Z01.32R	16	32	47	48	16	0,11	1 / 1	
B3212.DF.16.5.Z01.33R	16,5	33	48	48	16	0,12	1 / 1	
B3212.DF.17.0.Z01.34R	17	34	49	48	16	0,12	1 / 1	
B3212.DF.17.5.Z01.35R	17,5	35	51	48	16	0,13	1 / 1	
B3212.DF.18.0.Z01.36R	18	36	52	48	16	0,13	1 / 1	

Deslocamento X possível para a furação em material maciço maior do que o diâmetro nominal | $X = +0,2 \text{ mm} / -0,1 \text{ mm} \rightarrow \Delta D = +0,4 \text{ mm} / -0,2 \text{ mm}$ | Atenção: em furos passantes origina-se um disco quando a ferramenta gira. Há possibilidade deste ser lançado para fora. Adotar as medidas de proteção apropriadas! | Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

D _c [mm]	10–13,7	14–15,7	16–18
 Parafuso para inserto intercambiável Torque de aperto	FS1012 (T6) 0,4 Nm	FS1004 (T7) 0,6 Nm	FS1020 (T7) 0,6 Nm

Acessórios

D _c [mm]	10–13,7	14–18
 Luva de fixação excêntrica	FS1207	FS1207
 Chave	FS1063 (T6)	FS309 (T7)
 Parafuso para mandril	FS1209 (SW 8)	FS1209 (SW 8)
 Chave com controle de torque, analógica	FS2001	FS2001
 Haste intercambiável	FS2005 (T6)	FS2006 (T7)

Insertos intercambiáveis

Denominação	l mm	l ₂ mm	P				M		K		N		S
			HC				HC		HC		HC HW		HC
			WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNI15	WSP45G
	LCGX050203-E77	4	5,2										
	LCMX050203-B57	4	5,2										
	LCMX050203-D57	4	5,2										
	LCMX050203-E57	4	5,2										
	LCGX06T204-E77	5,2	6,6										
	LCMX06T204-B57	5,2	6,6										
	LCMX06T204-D57	5,2	6,6										
	LCMX06T204-E57	5,2	6,6										

HC = Coated carbide
HW = Uncoated carbide

Brocas

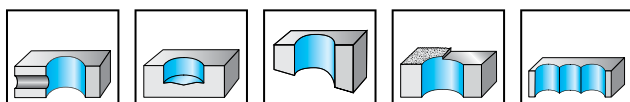
B3212 inch



B1

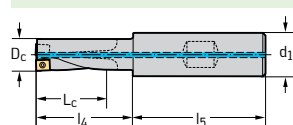
2×D_C

Z = 1



	P	M	K	N	S	H	O
B3212	●●	●●	●●	●●	●●		

Ferramenta



Cylindrical shank with flat

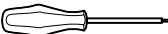
Denominação	D _C inch	L _C inch	l ₄ inch	l ₅ inch	d ₁ inch	lbs	Qnt. insertos	Tipo
B3212.U3F.0099.Z01.20R	0,391	0,782	1,229	1,969	0,750	0,284	1 / 1	LCMX050203- ..
B3212.U3F.0103.Z01.21R	0,406	0,812	1,275	1,969	0,750	0,287	1 / 1	LCMX050203- ..
B3212.U3F.0107.Z01.21R	0,421	0,842	1,321	1,969	0,750	0,326	1 / 1	..
B3212.U3F.0111.Z01.22R	0,437	0,874	1,370	1,969	0,750	0,295	1 / 1	..
B3212.U3F.0115.Z01.23R	0,453	0,906	1,420	1,969	0,750	0,293	1 / 1	
B3212.U3F.0119.Z01.24R	0,469	0,938	1,469	1,969	0,750	0,304	1 / 1	
B3212.U3F.0123.Z01.25R	0,484	0,968	1,516	1,969	0,750	0,306	1 / 1	
B3212.U3F.0127.Z01.25R	0,500	1,000	1,565	1,969	0,750	0,452	1 / 1	
B3212.U3F.0131.Z01.26R	0,515	1,030	1,612	1,969	0,750	0,333	1 / 1	
B3212.U3F.0135.Z01.27R	0,531	1,062	1,661	1,969	0,750	0,439	1 / 1	
B3212.U3F.0139.Z01.28R	0,547	1,094	1,722	1,969	0,750	0,320	1 / 1	LCMX06T204- ..
B3212.U3F.0143.Z01.29R	0,562	1,124	1,768	1,969	0,750	0,324	1 / 1	LCMX06T204- ..
B3212.U3F.0155.Z01.31R	0,609	1,218	1,914	1,969	0,750	0,337	1 / 1	
B3212.U3F.0159.Z01.32R	0,625	1,250	1,963	1,969	0,750	0,448	1 / 1	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [inch]	0,391–0,531	0,547–0,625
	Parafuso para inserto intercambiável Torque de aperto	FS1012 (T6) 0,295 lbs	FS1004 (T7) 0,443 lbs

Acessórios

	D _c [inch]	0,391–0,531	0,547–0,625
	Chave	FS1063 (T6)	FS309 (T7)
	Chave com controle de torque, analógica	FS2002	FS2002
	Haste intercambiável	FS2005 (T6)	FS2006 (T7)

Insertos intercambiáveis

	Denominação	l inch	l ₂ inch	P				M		K		N		S	
				HC				HC		HC		HC		HC	
				WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WN15	WSP45G	
	LCGX050203-E77	0,157	0,205												
	LCMX050203-B57	0,157	0,205												
	LCMX050203-D57	0,157	0,205												
	LCMX050203-E57	0,157	0,205												
	LCGX06T204-E77	0,205	0,260												
	LCMX06T204-B57	0,205	0,260												
	LCMX06T204-D57	0,205	0,260												
	LCMX06T204-E57	0,205	0,260												

HC = Coated carbide
HW = Uncoated carbide

Brocas

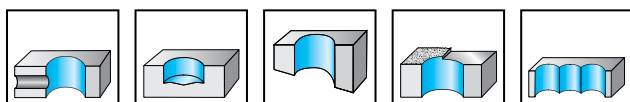
B3213 inch



B1

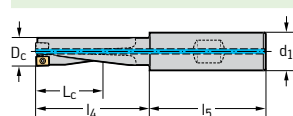
3×D_C

Z = 1



	P	M	K	N	S	H	O
B3213	●●	●●	●●	●●	●●	●●	●●

Ferramenta



Cylindrical shank with flat

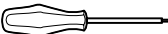
Denominação	D _C inch	L _C inch	l ₄ inch	l ₅ inch	d ₁ inch	lbs	Qnt. insertos	Tipo
B3213.U3F.0099.Z01.30R	0,391	1,173	1,585	1,969	0,750	0,291	1 / 1	LCMX050203- ..
B3213.U3F.0103.Z01.31R	0,406	1,218	1,644	1,969	0,750	0,293	1 / 1	LCMX050203- ..
B3213.U3F.0107.Z01.32R	0,421	1,263	1,704	1,969	0,750	0,397	1 / 1	LCMX050203- ..
B3213.U3F.0111.Z01.33R	0,437	1,311	1,768	1,969	0,750	0,306	1 / 1	LCMX050203- ..
B3213.U3F.0115.Z01.35R	0,453	1,359	1,832	1,969	0,750	0,306	1 / 1	LCMX050203- ..
B3213.U3F.0119.Z01.36R	0,469	1,407	1,896	1,969	0,750	0,315	1 / 1	LCMX050203- ..
B3213.U3F.0123.Z01.37R	0,484	1,452	1,956	1,969	0,750	0,320	1 / 1	LCMX050203- ..
B3213.U3F.0127.Z01.38R	0,500	1,500	2,020	1,969	0,750	0,434	1 / 1	LCMX050203- ..
B3213.U3F.0131.Z01.39R	0,515	1,545	2,081	1,969	0,750	0,324	1 / 1	LCMX050203- ..
B3213.U3F.0135.Z01.40R	0,531	1,593	2,144	1,969	0,750	0,419	1 / 1	LCMX050203- ..
B3213.U3F.0139.Z01.42R	0,547	1,641	2,220	1,969	0,750	0,454	1 / 1	LCMX06T204- ..
B3213.U3F.0143.Z01.43R	0,562	1,686	2,279	1,969	0,750	0,487	1 / 1	LCMX06T204- ..
B3213.U3F.0147.Z01.44R	0,578	1,734	2,344	1,969	0,750	0,355	1 / 1	LCMX06T204- ..
B3213.U3F.0155.Z01.46R	0,609	1,827	2,468	1,969	0,750	0,406	1 / 1	LCMX06T204- ..
B3213.U3F.0159.Z01.48R	0,625	1,875	2,532	1,969	0,750	0,37	1 / 1	LCMX06T204- ..
B3213.U3F.0163.Z01.49R	0,64	1,92	2,592	1,969	0,750	0,384	1 / 1	LCMX06T204- ..

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [inch]	0,391–0,531	0,547–0,64
	Parafuso para inserto intercambiável Torque de aperto	FS1012 (T6) 0,295 lbs	FS1004 (T7) 0,443 lbs

Acessórios

	D _c [inch]	0,391–0,531	0,547–0,64
	Chave	FS1063 (T6)	FS309 (T7)
	Chave com controle de torque, analógica	FS2002	FS2002
	Haste intercambiável	FS2005 (T6)	FS2006 (T7)

Insertos intercambiáveis

	Denominação	l inch	l ₂ inch	P				M		K		N		S
				HC				HC		HC		HC	HW	HC
				WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WN15	WSP45G
	LCGX050203-E77	0.157	0.205									Ⓒ	Ⓒ	
	LCMX050203-B57	0.157	0.205	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ			Ⓒ
	LCMX050203-D57	0.157	0.205	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ			Ⓒ
	LCMX050203-E57	0.157	0.205	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ			Ⓒ
	LCGX06T204-E77	0.205	0.260									Ⓒ	Ⓒ	
	LCMX06T204-B57	0.205	0.260	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ			Ⓒ
	LCMX06T204-D57	0.205	0.260	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ			Ⓒ
	LCMX06T204-E57	0.205	0.260	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ			Ⓒ

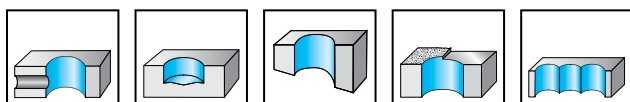
HC = Coated carbide
HW = Uncoated carbide

Brocas

B3213 mm



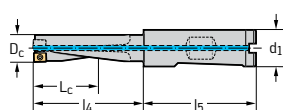
B1



D_c 10-18	$3 \times D_c$	$Z = 1$

	P	M	K	N	S	H	O
B3213	●●	●●	●●	●●	●●	●●	●●

Ferramenta



DIN 6535 HE, turned 180° DIN 6535 HB

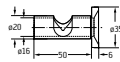
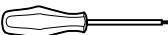
Denominação	D_c mm	L_c mm	l_4 mm	l_5 mm	d_1 mm	kg	Qnt. insertos	Tipo
B3213.DF.10.0.Z01.30R	10	30	41	48	16	0,09	1 / 1	LCMX050203-
B3213.DF.10.2.Z01.30R	10,2	30,6	41	48	16	0,09	1 / 1	..
B3213.DF.10.5.Z01.31R	10,5	31,5	43	48	16	0,09	1 / 1	LCMX050203-
B3213.DF.11.0.Z01.33R	11	33	45	48	16	0,1	1 / 1	..
B3213.DF.11.5.Z01.34R	11,5	34,5	47	48	16	0,1	1 / 1	
B3213.DF.11.7.Z01.35R	11,7	35,1	48	48	16	0,1	1 / 1	
B3213.DF.12.0.Z01.36R	12	36	48	48	16	0,1	1 / 1	
B3213.DF.12.5.Z01.37R	12,5	37,5	50	48	16	0,1	1 / 1	
B3213.DF.13.0.Z01.39R	13	39	52	48	16	0,11	1 / 1	
B3213.DF.13.5.Z01.40R	13,5	40,5	54	48	16	0,11	1 / 1	
B3213.DF.13.7.Z01.41R	13,7	41,1	55	48	16	0,11	1 / 1	
B3213.DF.14.0.Z01.42R	14	42	56	48	16	0,11	1 / 1	LCMX06T204- ..
B3213.DF.14.5.Z01.43R	14,5	43,5	57	48	16	0,11	1 / 1	LCMX06T204- ..
B3213.DF.15.0.Z01.45R	15	45	59	48	16	0,12	1 / 1	
B3213.DF.15.5.Z01.46R	15,5	46,5	61	48	16	0,12	1 / 1	
B3213.DF.15.7.Z01.47R	15,7	47	62	48	16	0,13	1 / 1	
B3213.DF.16.0.Z01.48R	16	48	63	48	16	0,12	1 / 1	
B3213.DF.16.5.Z01.49R	16,5	49,5	65	48	16	0,14	1 / 1	
B3213.DF.17.0.Z01.51R	17	51	66	48	16	0,14	1 / 1	
B3213.DF.17.5.Z01.52R	17,5	52,5	68	48	16	0,14	1 / 1	
B3213.DF.18.0.Z01.54R	18	54	70	48	16	0,15	1 / 1	

Deslocamento X possível para a furação em material maciço maior do que o diâmetro nominal | $X = +0,2 \text{ mm} / -0,1 \text{ mm} \rightarrow \Delta D = +0,4 \text{ mm} / -0,2 \text{ mm}$ | Atenção: em furos passantes origina-se um disco quando a ferramenta gira. Há possibilidade deste ser lançado para fora. Adotar as medidas de proteção apropriadas! | Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [mm]	10–13,7	14–15,7	16–18
	Parafuso para inserto intercambiável Torque de aperto	FS1012 (T6) 0,4 Nm	FS1004 (T7) 0,6 Nm	FS1020 (T7) 0,6 Nm

Acessórios

	D _c [mm]	10–13,5	13,7	14–18
	Luva de fixação excêntrica	FS1207	FS1207	FS1207
	Chave	FS1063 (T6)	FS1063 (T6)	FS309 (T7)
	Parafuso para mandril	FS1209 (SW 8)	FS1209 (SW 8)	FS1209 (SW 8)
	Chave com controle de torque, analógica	FS2001	FS2001	FS2001
	Haste intercambiável	FS2005 (T6)	FS2006 (T7)	FS2006 (T7)

Insertos intercambiáveis

	Denominação	l mm	l ₂ mm	P				M		K		N		S
				HC				HC		HC		HC HW		HC
				WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNI15	WSP45G
	LCGX050203-E77	4	5,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX050203-B57	4	5,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX050203-D57	4	5,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX050203-E57	4	5,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCGX06T204-E77	5,2	6,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX06T204-B57	5,2	6,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX06T204-D57	5,2	6,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX06T204-E57	5,2	6,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

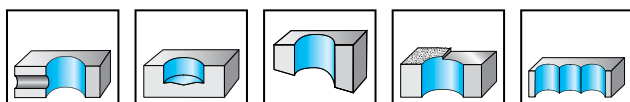
HC = Coated carbide
HW = Uncoated carbide

Brocas

B3214 mm



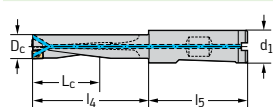
B1



D_c 10-18	$4 \times D_c$	$Z = 1$

	P	M	K	N	S	H	O
B3214			●●	●●			

Ferramenta



DIN 6535 HE, turned 180° DIN 6535 HB

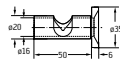
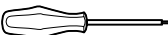
Denominação	D_c mm	L_c mm	l_4 mm	l_5 mm	d_1 mm	kg	Qnt. insertos	Tipo
B3214.DF.10.0.Z01.40R	10	40	51	48	16	0,09	1 / 1	LCMX050203- ..
B3214.DF.10.5.Z01.42R	10,5	42	53	48	16	0,1	1 / 1	LCMX050203- ..
B3214.DF.11.0.Z01.44R	11	44	56	48	16	0,1	1 / 1	..
B3214.DF.11.5.Z01.46R	11,5	46	58	48	16	0,1	1 / 1	..
B3214.DF.12.0.Z01.48R	12	48	60	48	16	0,11	1 / 1	
B3214.DF.12.5.Z01.50R	12,5	50	62	48	16	0,11	1 / 1	
B3214.DF.13.0.Z01.52R	13	52	65	48	16	0,11	1 / 1	
B3214.DF.13.5.Z01.54R	13,5	54	67	48	16	0,12	1 / 1	
B3214.DF.14.0.Z01.56R	14	56	70	48	16	0,12	1 / 1	LCMX06T204- ..
B3214.DF.14.5.Z01.58R	14,5	58	72	48	16	0,13	1 / 1	LCMX06T204- ..
B3214.DF.15.0.Z01.60R	15	60	74	48	16	0,13	1 / 1	
B3214.DF.15.5.Z01.62R	15,5	62	77	48	16	0,12	1 / 1	
B3214.DF.16.0.Z01.64R	16	64	78	48	16	0,14	1 / 1	
B3214.DF.16.5.Z01.66R	16,5	66	82	48	16	0,15	1 / 1	
B3214.DF.17.5.Z01.70R	17,5	70	85	48	16	0,17	1 / 1	
B3214.DF.18.0.Z01.72R	18	72	88	48	16	0,17	1 / 1	

Deslocamento X possível para a furação em material maciço maior do que o diâmetro nominal ! $X = +0,2 \text{ mm} / -0,1 \text{ mm} \rightarrow \Delta D = +0,4 \text{ mm} / -0,2 \text{ mm}$! Atenção: em furos passantes origina-se um disco quando a ferramenta gira. Há possibilidade deste ser lançado para fora. Adotar as medidas de proteção apropriadas! | Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	D _c [mm]	10–13,5	14–15,5	16–18
	Parafuso para inserto intercambiável Torque de aperto	FS1012 (T6) 0,4 Nm	FS1004 (T7) 0,6 Nm	FS1020 (T7) 0,6 Nm

Acessórios

	D _c [mm]	10–13,5	14–18
	Luva de fixação excêntrica	FS1207	FS1207
	Chave	FS1063 (T6)	FS309 (T7)
	Parafuso para mandril	FS1209 (SW 8)	FS1209 (SW 8)
	Chave com controle de torque, analogica	FS2001	FS2001
	Haste intercambiável	FS2005 (T6)	FS2006 (T7)

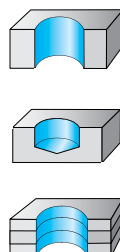
Insertos intercambiáveis

	Denominação	l mm	l ₂ mm	P				M		K		N		S
				HC				HC		HC		HC HW		HC
				WKP25S	WKP35S	WSP45G	WXP40	WSP45G	WXP40	WKP25S	WKP35S	WNN15	WNI15	WSP45G
	LCGX050203-E77	4	5,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX050203-B57	4	5,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX050203-D57	4	5,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX050203-E57	4	5,2	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCGX06T204-E77	5,2	6,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX06T204-B57	5,2	6,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX06T204-D57	5,2	6,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	LCMX06T204-E57	5,2	6,6	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide
HW = Uncoated carbide

Ferramentas para furação/mandrilamento de HSS

B1



Profundidade de furação

 $3 \times D_C$
 $5 \times D_C$


Descrição

A1154TFT
VA Inox

A1149XPL
UFL®

A1148
UFL®

A3153

A3143

Outros serviços



Norma

DIN 1897

DIN 1897

DIN 1897

DIN 1899

DIN 1899

Revestimento / classe

TFT

XPL

não revestido

não revestido

não revestido

Haste

Haste cilíndrica

Haste cilíndrica

Haste cilíndrica

Haste cilíndrica

Haste cilíndrica

Faixa de Ø [mm]

2-16

1-20

1-20

0,15-1,4

0,05-1,45

P Aço

●

●●

●●

●●

●●

M Aço inoxidável

●●

●●

●●

●

●

K Ferro fundido

●●

●●

●●

●●

●●

N Metais não ferrosos

●●

●●

●●

●●

●●

S Materiais de usinagem difícil

●

●

●●

●●

●●

H Materiais endurecidos

●

●

●

●

●

O Outros

●

●

●

●

●

Página do catálogo

B 336

B 330

B 339

B 348

B 345

QR Code


www.walter-tools.com/woc/

A1154TFT

A1149XPL

A1148

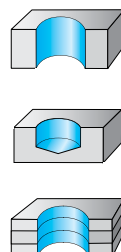
A3153

A3143

WALTER SELECT

●● Aplicação principal ● Aplicação secundária

Ferramentas para furação/mandrilamento de HSS



Profundidade de furação

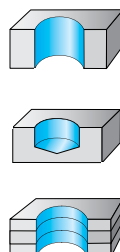
 $8 \times D_C$ 

Descrição	A1254TFT VA Inox	A1249XPL UFL®	A1222 UFL®	A1244 VA	Z3515
Outros serviços					
Norma	DIN 338	DIN 338	DIN 338	DIN 338	DIN 338
Revestimento / classe	TFT	XPL	não revestido	não revestido	
Haste	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica	
Faixa de Ø [mm]	3–16	1–20	1–16	0,3–15	–
P Aço	●	●●	●●	●	●
M Aço inoxidável	●●	●●	●	●●	●●
K Ferro fundido		●●	●●		
N Metais não ferrosos	●●	●●	●●	●	●
S Materiais de usinagem difícil	●	●	●	●●	●●
H Materiais endurecidos					
O Outros	●	●	●		
Página do catálogo	B 355	B 350	B 370	B 362	B 368
QR Code					
	A1254TFT	A1249XPL	A1222	A1244	Z3515

www.walter-tools.com/woc/

Ferramentas para furação/mandrilamento de HSS

B1



Profundidade de furação

 $8 \times D_c$


Descrição

Z3516

A4244
VA

A1247
Alpha® XE

A4247
Alpha® XE

DA110
Perform

Outros serviços

Norma

DIN 345

DIN 338

DIN 345

DIN 338

Revestimento / classe

não revestido

não revestido

não revestido

WZ90AJ

Haste

Cone Morse

Haste cilíndrica

Cone Morse

Haste cilíndrica

Faixa de Ø [mm]

–

10–32

1–16

10–40

1–16

P Aço

●

●

●●

●●

●●

M Aço inoxidável

●●

●●

●●

●●

●

K Ferro fundido

●●

●●

●●

●●

●●

N Metais não ferrosos

●

●

●●

●●

●

S Materiais de usinagem difícil

●●

●●

●●

●●

●●

H Materiais endurecidos

●●

●●

●●

●●

●●

O Outros

●●

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Página do catálogo

B 369

B 424

B 357

B 426

B 394

QR Code



www.walter-tools.com/woc/

Z3516

A4244

A1247

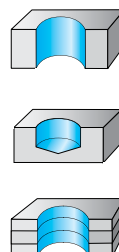
A4247

DA110

WALTER SELECT

●● Aplicação principal ● Aplicação secundária

Ferramentas para furação/mandrilamento de HSS



Profundidade de furação

 $8 \times D_C$ 

Descrição

DA110
Perform

A1211TIN

A1211

Z3213

Z3218

Outros serviços

Norma

DIN 338

DIN 338

DIN 338

DIN 338

DIN 338

Revestimento / classe

TIN

não revestido

Haste

Haste cilíndrica

Haste cilíndrica

Faixa de Ø [mm]

-

0,5-16

0,2-22

-

-

P Aço

●●

●●

●●

●●

●●

M Aço inoxidável

●

●

●

●

●

K Ferro fundido

●●

●●

●●

●●

●●

N Metais não ferrosos

●

●

●

●

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S Materiais de usinagem difícil

●

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H Materiais endurecidos

●

●

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O Outros

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Página do catálogo

B 397

B 376

B 376

B 392

B 390

QR Code



www.walter-tools.com/woc/

DA110

A1211TIN

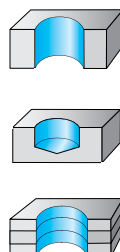
A1211

Z3213

Z3218

Ferramentas para furação/mandrilamento de HSS

B1



Profundidade de furação

 $12 \times D_c$


Descrição

A1549TFP
UFL®

A1522
UFL®

A4422
UFL®

A1544
VA

A1547
Alpha® XE

Outros serviços



Norma

DIN 340

DIN 340

DIN 341

DIN 340

DIN 340

Revestimento / classe

TFP

não revestido

não revestido

não revestido

não revestido

Haste

Haste cilíndrica

Haste cilíndrica

Cone Morse

Haste cilíndrica

Haste cilíndrica

Faixa de Ø [mm]

1-12

1-22,225

10-31

1-12

1-12,7

P Aço

●●

●●

●●

●

●

M Aço inoxidável

●●

●

●

●●

●●

K Ferro fundido

●●

●●

●●

●●

●●

N Metais não ferrosos

●●

●●

●●

●

●

S Materiais de usinagem difícil

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●●

●●

H Materiais endurecidos

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O Outros

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●

Página do catálogo

B 399

B 408

B 428

B 405

B 402

QR Code



www.walter-tools.com/woc/

A1549TFP

A1522

A4422

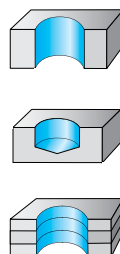
A1544

A1547

WALTER SELECT

●● Aplicação principal ● Aplicação secundária

Ferramentas para furação/mandrilamento de HSS



Profundidade de furação	12 x D _C	16 x D _C	22 x D _C



Descrição	A1511	A1622 UFL®	A4622 UFL®	A4611	A1722 UFL®

Outros serviços



Norma	DIN 340	DIN 1869 I	DIN 1870 I	DIN 1870 I	DIN 1869 II

Revestimento / classe

não revestido

não revestido

não revestido

não revestido

não revestido

Haste	Haste cilíndrica	Haste cilíndrica	Cone Morse	Cone Morse	Haste cilíndrica

Faixa de Ø [mm]

0,5–22

2–12,7

12–30

8–40

3–12

P Aço	●	●●	●●	●	●●
M Aço inoxidável	●	●	●	●	●
K Ferro fundido	●	●●	●●	●	●●
N Metais não ferrosos	●	●●	●●	●	●●
S Materiais de usinagem difícil	●	●	●	●	●
H Materiais endurecidos					
O Outros	●	●	●	●	●

Página do catálogo

B 413

B 416

B 430

B 431

B 420

QR Code



www.walter-tools.com/woc/

A1511

A1622

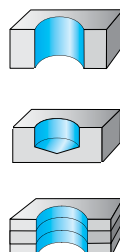
A4622

A4611

A1722

Ferramentas para furação/mandrilamento de HSS

B1



Profundidade de furação

22 x D_C

30 x D_C

60 x D_C

85 x D_C


Descrição

A4722
UFL®

A1822
UFL®

A1922S
UFL®

A1922L
UFL®

Z3219TIN

Outros serviços



Norma

DIN 1870 II

DIN 1869 III

Walter

Walter

DIN 338

Revestimento / classe

não revestido

não revestido

não revestido

não revestido

Haste

Cone Morse

Haste cilíndrica

Haste cilíndrica

Haste cilíndrica

Faixa de Ø [mm]

8–40

3,5–12

6–14

8–12

–

P Aço

●●

●●

●●

●●

●●

M Aço inoxidável

●

●

●

●

●

K Ferro fundido

●●

●●

●●

●●

●●

N Metais não ferrosos

●●

●●

●●

●●

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S Materiais de usinagem difícil

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H Materiais endurecidos

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O Outros

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Página do catálogo

B 432

B 421

B 422

B 423

B 389

QR Code



www.walter-tools.com/woc/

A4722

A1822

A1922S

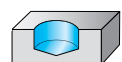
A1922L

Z3219TIN

WALTER SELECT

●● Aplicação principal ● Aplicação secundária

Ferramentas para furação/mandrilamento de HSS



Profundidade de furação



Descrição	Z3219	Z3216

Outros serviços

Norma	DIN 338	DIN 338

Revestimento / classe

Haste		

Faixa de Ø [mm]

	-	-
P Aço	●●	●●
M Aço inoxidável	●	●
K Ferro fundido	●●	●●
N Metais não ferrosos	●	●
S Materiais de usinagem difícil	●	●
H Materiais endurecidos		
O Outros	●	●

Página do catálogo

B 389

B 393

QR Code



www.walter-tools.com/woc/

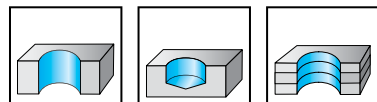
Z3219

Z3216

Brocas helicoidais de HSS-E, extra curtas

A1149XPL

UFL®


~3×D_c

DIN 1897



130°

B1

	P	M	K	N	S	H	O
XPL	●●	●●	●●	●●	●		●

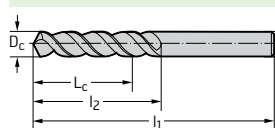
Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
Cylindrical shank	Denominação						
	A1149XPL-1	1		4	26	6	1
	A1149XPL-NO60	1,016	No. 60	4	26	6	1,016
	A1149XPL-NO59	1,041	No. 59	4	26	6	1,041
	A1149XPL-NO58	1,067	No. 58	5	28	7	1,067
	A1149XPL-NO57	1,092	No. 57	5	28	7	1,092
	A1149XPL-1.1	1,1		5	28	7	1,1
	A1149XPL-NO56	1,181	No. 56	6	30	8	1,181
	A1149XPL-3/64IN	1,191	3/64"	6	30	8	1,191
	A1149XPL-1.2	1,2		6	30	8	1,2
	A1149XPL-1.3	1,3		6	30	8	1,3
	A1149XPL-NO55	1,321	No. 55	6	32	9	1,321
	A1149XPL-NO54	1,397	No. 54	6	32	9	1,397
	A1149XPL-1.4	1,4		6	32	9	1,4
	A1149XPL-1.5	1,5		6	32	9	1,5
	A1149XPL-NO53	1,511	No. 53	7	34	10	1,511
	A1149XPL-1/16IN	1,588	1/16"	7	34	10	1,588
	A1149XPL-1.6	1,6		7	34	10	1,6
	A1149XPL-NO52	1,613	No. 52	7	34	10	1,613
	A1149XPL-1.7	1,7		7	34	10	1,7
	A1149XPL-NO51	1,702	No. 51	8	36	11	1,702
	A1149XPL-NO50	1,778	No. 50	8	36	11	1,778
	A1149XPL-1.8	1,8		8	36	11	1,8
	A1149XPL-NO49	1,854	No. 49	8	36	11	1,854
	A1149XPL-1.9	1,9		8	36	11	1,9
	A1149XPL-NO48	1,930	No. 48	8	38	12	1,93
	A1149XPL-5/64IN	1,984	5/64"	8	38	12	1,984
	A1149XPL-NO47	1,994	No. 47	8	38	12	1,994
	A1149XPL-2	2		8	38	12	2
	A1149XPL-NO46	2,057	No. 46	8	38	12	2,057
	A1149XPL-NO45	2,083	No. 45	8	38	12	2,083
	A1149XPL-2.1	2,1		8	38	12	2,1
	A1149XPL-NO44	2,184	No. 44	9	40	13	2,184
	A1149XPL-2.2	2,2		9	40	13	2,2
	A1149XPL-NO43	2,261	No. 43	9	40	13	2,261
	A1149XPL-2.3	2,3		9	40	13	2,3
	A1149XPL-NO42	2,375	No. 42	10	43	14	2,375

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = 😞

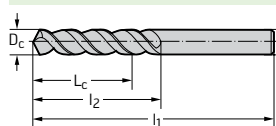
Ferramenta



Cylindrical shank

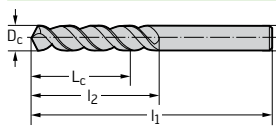
Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1149XPL-3/32IN	2,381	3/32"	10	43	14	2,381
A1149XPL-2.4	2,4		10	43	14	2,4
A1149XPL-NO41	2,438	No. 41	10	43	14	2,438
A1149XPL-NO40	2,489	No. 40	10	43	14	2,489
A1149XPL-2.5	2,5		10	43	14	2,5
A1149XPL-NO39	2,527	No. 39	10	43	14	2,527
A1149XPL-NO38	2,578	No. 38	10	43	14	2,578
A1149XPL-2.6	2,6		10	43	14	2,6
A1149XPL-NO37	2,642	No. 37	10	43	14	2,642
A1149XPL-2.7	2,7		11	46	16	2,7
A1149XPL-NO36	2,705	No. 36	11	46	16	2,705
A1149XPL-7/64IN	2,778	7/64"	11	46	16	2,778
A1149XPL-NO35	2,794	No. 35	11	46	16	2,794
A1149XPL-2.8	2,8		11	46	16	2,8
A1149XPL-NO34	2,819	No. 34	11	46	16	2,819
A1149XPL-NO33	2,870	No. 33	11	46	16	2,87
A1149XPL-2.9	2,9		11	46	16	2,9
A1149XPL-NO32	2,946	No. 32	11	46	16	2,946
A1149XPL-3	3		11	46	16	3
A1149XPL-NO31	3,048	No. 31	12	49	18	3,048
A1149XPL-3.1	3,1		12	49	18	3,1
A1149XPL-1/8IN	3,175	1/8"	12	49	18	3,175
A1149XPL-3.2	3,2		12	49	18	3,2
A1149XPL-NO30	3,264	No. 30	12	49	18	3,264
A1149XPL-3.3	3,3		12	49	18	3,3
A1149XPL-3.4	3,4		14	52	20	3,4
A1149XPL-NO29	3,454	No. 29	14	52	20	3,454
A1149XPL-3.5	3,5		14	52	20	3,5
A1149XPL-NO28	3,569	No. 28	14	52	20	3,569
A1149XPL-9/64IN	3,572	9/64"	14	52	20	3,572
A1149XPL-3.6	3,6		14	52	20	3,6
A1149XPL-NO27	3,658	No. 27	14	52	20	3,658
A1149XPL-3.7	3,7		14	52	20	3,7
A1149XPL-NO26	3,734	No. 26	14	52	20	3,734
A1149XPL-NO25	3,797	No. 25	15	55	22	3,797
A1149XPL-3.8	3,8		15	55	22	3,8
A1149XPL-NO24	3,861	No. 24	15	55	22	3,861
A1149XPL-3.9	3,9		15	55	22	3,9
A1149XPL-NO23	3,912	No. 23	15	55	22	3,912
A1149XPL-5/32IN	3,969	5/32"	15	55	22	3,969
A1149XPL-NO22	3,988	No. 22	15	55	22	3,988
A1149XPL-4	4		15	55	22	4
A1149XPL-NO21	4,039	No. 21	15	55	22	4,039
A1149XPL-NO20	4,089	No. 20	15	55	22	4,089
A1149XPL-4.1	4,1		15	55	22	4,1
A1149XPL-4.2	4,2		15	55	22	4,2

Ferramenta



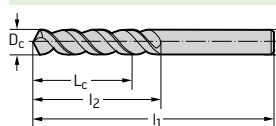
Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1149XPL-NO19	4,216	No. 19	15	55	22	4,216
A1149XPL-4.3	4,3		16	58	24	4,3
A1149XPL-NO18	4,305	No. 18	16	58	24	4,305
A1149XPL-11/64IN	4,366	11/64"	16	58	24	4,366
A1149XPL-NO17	4,394	No. 17	16	58	24	4,394
A1149XPL-4.4	4,4		16	58	24	4,4
A1149XPL-NO16	4,496	No. 16	16	58	24	4,496
A1149XPL-4.5	4,5		16	58	24	4,5
A1149XPL-NO15	4,572	No. 15	16	58	24	4,572
A1149XPL-4.6	4,6		16	58	24	4,6
A1149XPL-NO14	4,623	No. 14	16	58	24	4,623
A1149XPL-4.65	4,65		16	58	24	4,65
A1149XPL-NO13	4,699	No. 13	16	58	24	4,699
A1149XPL-4.7	4,7		16	58	24	4,7
A1149XPL-3/16IN	4,763	3/16"	18	62	26	4,763
A1149XPL-4.8	4,8		18	62	26	4,8
A1149XPL-NO12	4,801	No. 12	18	62	26	4,801
A1149XPL-NO11	4,851	No. 11	18	62	26	4,851
A1149XPL-4.9	4,9		18	62	26	4,9
A1149XPL-NO10	4,915	No. 10	18	62	26	4,915
A1149XPL-NO9	4,978	No. 09	18	62	26	4,978
A1149XPL-5	5		18	62	26	5
A1149XPL-NO8	5,055	No. 08	18	62	26	5,055
A1149XPL-5.1	5,1		18	62	26	5,1
A1149XPL-NO7	5,105	No. 07	18	62	26	5,105
A1149XPL-13/64IN	5,159	13/64"	18	62	26	5,159
A1149XPL-NO6	5,182	No. 06	18	62	26	5,182
A1149XPL-5.2	5,2		18	62	26	5,2
A1149XPL-NO5	5,220	No. 05	18	62	26	5,22
A1149XPL-5.3	5,3		18	62	26	5,3
A1149XPL-NO4	5,309	No. 04	19	66	28	5,309
A1149XPL-5.4	5,4		19	66	28	5,4
A1149XPL-NO3	5,410	No. 03	19	66	28	5,41
A1149XPL-5.5	5,5		19	66	28	5,5
A1149XPL-5.55	5,55		19	66	28	5,55
A1149XPL-7/32IN	5,556	7/32"	19	66	28	5,556
A1149XPL-5.6	5,6		19	66	28	5,6
A1149XPL-NO2	5,613	No. 02	19	66	28	5,613
A1149XPL-5.7	5,7		19	66	28	5,7
A1149XPL-NO1	5,791	No. 01	19	66	28	5,791
A1149XPL-5.8	5,8		19	66	28	5,8
A1149XPL-5.9	5,9		19	66	28	5,9
A1149XPL-LET.A	5,944	Let. A	19	66	28	5,944
A1149XPL-15/64IN	5,953	15/64"	19	66	28	5,953
A1149XPL-6	6		19	66	28	6
A1149XPL-LET.B	6,045	Let. B	20	70	31	6,045

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1149XPL-6.1	6,1		20	70	31	6,1
	A1149XPL-LET.C	6,147	Let. C	20	70	31	6,147
	A1149XPL-6.2	6,2		20	70	31	6,2
	A1149XPL-LET.D	6,248	Let. D	20	70	31	6,248
	A1149XPL-6.3	6,3		20	70	31	6,3
	A1149XPL-1/4IN	6,350	1/4"	20	70	31	6,35
	A1149XPL-6.4	6,4		20	70	31	6,4
	A1149XPL-6.5	6,5		20	70	31	6,5
	A1149XPL-LET.F	6,528	Let. F	20	70	31	6,528
	A1149XPL-6.6	6,6		20	70	31	6,6
	A1149XPL-LET.G	6,629	Let. G	20	70	31	6,629
	A1149XPL-6.7	6,7		20	70	31	6,7
	A1149XPL-17/64IN	6,747	17/64"	22	74	34	6,747
	A1149XPL-LET.H	6,756	Let. H	22	74	34	6,756
	A1149XPL-6.8	6,8		22	74	34	6,8
	A1149XPL-6.9	6,9		22	74	34	6,9
	A1149XPL-LET.I	6,909	Let. I	22	74	34	6,909
	A1149XPL-7	7		22	74	34	7
	A1149XPL-LET.J	7,036	Let. J	22	74	34	7,036
	A1149XPL-7.1	7,1		22	74	34	7,1
	A1149XPL-LET.K	7,137	Let. K	22	74	34	7,137
	A1149XPL-9/32IN	7,144	9/32"	22	74	34	7,144
	A1149XPL-7.2	7,2		22	74	34	7,2
	A1149XPL-7.3	7,3		22	74	34	7,3
	A1149XPL-LET.L	7,366	Let. L	22	74	34	7,366
	A1149XPL-7.4	7,4		22	74	34	7,4
	A1149XPL-LET.M	7,493	Let. M	22	74	34	7,493
	A1149XPL-7.5	7,5		22	74	34	7,5
	A1149XPL-19/64IN	7,541	19/64"	24	79	37	7,541
	A1149XPL-7.6	7,6		24	79	37	7,6
	A1149XPL-LET.N	7,671	Let. N	24	79	37	7,671
	A1149XPL-7.7	7,7		24	79	37	7,7
	A1149XPL-7.8	7,8		24	79	37	7,8
	A1149XPL-7.9	7,9		24	79	37	7,9
	A1149XPL-5/16IN	7,938	5/16"	24	79	37	7,938
	A1149XPL-8	8		24	79	37	8
	A1149XPL-LET.O	8,026	Let. O	24	79	37	8,026
	A1149XPL-8.1	8,1		24	79	37	8,1
	A1149XPL-8.2	8,2		24	79	37	8,2
	A1149XPL-LET.P	8,204	Let. P	24	79	37	8,204
	A1149XPL-8.3	8,3		24	79	37	8,3
	A1149XPL-21/64IN	8,334	21/64"	24	79	37	8,334
	A1149XPL-8.4	8,4		24	79	37	8,4
	A1149XPL-LET.Q	8,433	Let. Q	24	79	37	8,433
	A1149XPL-8.5	8,5		24	79	37	8,5
	A1149XPL-8.6	8,6		25	84	40	8,6

Cylindrical shank

Ferramenta



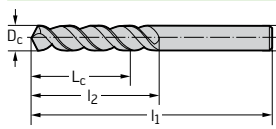
Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1149XPL-LET.R	8,611	Let. R	25	84	40	8,611
A1149XPL-8.7	8,7		25	84	40	8,7
A1149XPL-11/32IN	8,731	11/32"	25	84	40	8,731
A1149XPL-8.8	8,8		25	84	40	8,8
A1149XPL-LET.S	8,839	Let. S	25	84	40	8,839
A1149XPL-8.9	8,9		25	84	40	8,9
A1149XPL-9	9		25	84	40	9
A1149XPL-LET.T	9,093	Let. T	25	84	40	9,093
A1149XPL-9.1	9,1		25	84	40	9,1
A1149XPL-23/64IN	9,128	23/64"	25	84	40	9,128
A1149XPL-9.2	9,2		25	84	40	9,2
A1149XPL-9.3	9,3		25	84	40	9,3
A1149XPL-LET.U	9,347	Let. U	25	84	40	9,347
A1149XPL-9.4	9,4		25	84	40	9,4
A1149XPL-9.5	9,5		25	84	40	9,5
A1149XPL-3/8IN	9,525	3/8"	27	89	43	9,525
A1149XPL-LET.V	9,576	Let. V	27	89	43	9,576
A1149XPL-9.6	9,6		27	89	43	9,6
A1149XPL-9.7	9,7		27	89	43	9,7
A1149XPL-9.8	9,8		27	89	43	9,8
A1149XPL-LET.W	9,804	Let. W	27	89	43	9,804
A1149XPL-9.9	9,9		27	89	43	9,9
A1149XPL-25/64IN	9,922	25/64"	27	89	43	9,922
A1149XPL-10	10		27	89	43	10
A1149XPL-LET.X	10,084	Let. X	27	89	43	10,084
A1149XPL-10.2	10,2		27	89	43	10,2
A1149XPL-LET.Y	10,262	Let. Y	27	89	43	10,262
A1149XPL-13/32IN	10,319	13/32"	27	89	43	10,319
A1149XPL-LET.Z	10,490	Let. Z	27	89	43	10,49
A1149XPL-10.5	10,5		27	89	43	10,5
A1149XPL-27/64IN	10,716	27/64"	29	95	47	10,716
A1149XPL-10.8	10,8		29	95	47	10,8
A1149XPL-11	11		29	95	47	11
A1149XPL-7/16IN	11,113	7/16"	29	95	47	11,113
A1149XPL-11.2	11,2		29	95	47	11,2
A1149XPL-11.3	11,3		29	95	47	11,3
A1149XPL-11.5	11,5		29	95	47	11,5
A1149XPL-29/64IN	11,509	29/64"	29	95	47	11,509
A1149XPL-11.8	11,8		29	95	47	11,8
A1149XPL-15/32IN	11,906	15/32"	37	102	51	11,906
A1149XPL-12	12		37	102	51	12
A1149XPL-31/64IN	12,303	31/64"	37	102	51	12,303
A1149XPL-12.5	12,5		37	102	51	12,5
A1149XPL-1/2IN	12,700	1/2"	37	102	51	12,7
A1149XPL-12.8	12,8		37	102	51	12,8
A1149XPL-13	13		37	102	51	13

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
Cylindrical shank	A1149XPL-33/64IN	13,097		37	102	51	13,097
	A1149XPL-13.1	13,1		37	102	51	13,1
	A1149XPL-13.3	13,3		40	107	54	13,3
	A1149XPL-17/32IN	13,494	17/32"	40	107	54	13,494
	A1149XPL-13.5	13,5		40	107	54	13,5
	A1149XPL-35/64IN	13,891		40	107	54	13,891
	A1149XPL-14	14		40	107	54	14
	A1149XPL-9/16IN	14,288	9/16"	41	111	56	14,288
	A1149XPL-14.5	14,5		41	111	56	14,5
	A1149XPL-37/64IN	14,684	37/64"	41	111	56	14,684
	A1149XPL-15	15		41	111	56	15
	A1149XPL-19/32IN	15,081	19/32"	42	115	58	15,081
	A1149XPL-15.1	15,1		42	115	58	15,1
	A1149XPL-15.3	15,3		42	115	58	15,3
	A1149XPL-39/64IN	15,478	39/64"	42	115	58	15,478
	A1149XPL-15.5	15,5		42	115	58	15,5
	A1149XPL-5/8IN	15,875	5/8"	42	115	58	15,875
	A1149XPL-16	16		42	115	58	16
	A1149XPL-41/64IN	16,272		43	119	60	16,272
	A1149XPL-16.5	16,5		43	119	60	16,5
	A1149XPL-21/32IN	16,669		43	119	60	16,669
	A1149XPL-17	17		43	119	60	17
	A1149XPL-43/64IN	17,066		44	123	62	17,066
	A1149XPL-11/16IN	17,463		44	123	62	17,463
	A1149XPL-17.5	17,5		44	123	62	17,5
	A1149XPL-45/64IN	17,859	45/64"	44	123	62	17,859
	A1149XPL-18	18		44	123	62	18
	A1149XPL-23/32IN	18,256	23/32"	45	127	64	18,256
	A1149XPL-18.5	18,5		45	127	64	18,5
	A1149XPL-47/64IN	18,653	47/64"	45	127	64	18,653
	A1149XPL-19	19		45	127	64	19
	A1149XPL-3/4IN	19,050	3/4"	46	131	66	19,05
	A1149XPL-19.5	19,5		46	131	66	19,5
	A1149XPL-20	20		46	131	66	20

B1

WALTER
SELECT

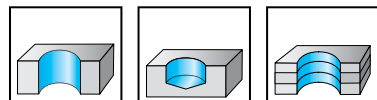
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas helicoidais de HSS-E, extra curtas

A1154TFT

VA Inox



~3×D_c

DIN 1897



118°

B1

	P	M	K	N	S	H	O
TFT	●	●●	●	●●	●	●	●

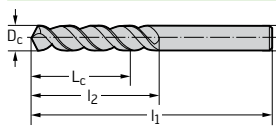
Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
Cylindrical shank	A1154TFT-2	2	8	38	12	2
	A1154TFT-2.1	2,1	8	38	12	2,1
	A1154TFT-2.2	2,2	9	40	13	2,2
	A1154TFT-2.3	2,3	9	40	13	2,3
	A1154TFT-2.4	2,4	10	43	14	2,4
	A1154TFT-2.5	2,5	10	43	14	2,5
	A1154TFT-2.6	2,6	10	43	14	2,6
	A1154TFT-2.7	2,7	11	46	16	2,7
	A1154TFT-2.8	2,8	11	46	16	2,8
	A1154TFT-2.9	2,9	11	46	16	2,9
	A1154TFT-3	3	11	46	16	3
	A1154TFT-3.1	3,1	12	49	18	3,1
	A1154TFT-3.2	3,2	12	49	18	3,2
	A1154TFT-3.3	3,3	12	49	18	3,3
	A1154TFT-3.4	3,4	14	52	20	3,4
	A1154TFT-3.5	3,5	14	52	20	3,5
	A1154TFT-3.6	3,6	14	52	20	3,6
	A1154TFT-3.7	3,7	14	52	20	3,7
	A1154TFT-3.8	3,8	15	55	22	3,8
	A1154TFT-3.9	3,9	15	55	22	3,9
	A1154TFT-4	4	15	55	22	4
	A1154TFT-4.1	4,1	15	55	22	4,1
	A1154TFT-4.2	4,2	15	55	22	4,2
	A1154TFT-4.3	4,3	16	58	24	4,3
	A1154TFT-4.4	4,4	16	58	24	4,4
	A1154TFT-4.5	4,5	16	58	24	4,5
	A1154TFT-4.6	4,6	16	58	24	4,6
	A1154TFT-4.65	4,65	16	58	24	4,65
	A1154TFT-4.7	4,7	16	58	24	4,7
	A1154TFT-4.8	4,8	18	62	26	4,8
	A1154TFT-4.9	4,9	18	62	26	4,9
	A1154TFT-5	5	18	62	26	5
	A1154TFT-5.1	5,1	18	62	26	5,1
	A1154TFT-5.2	5,2	18	62	26	5,2
	A1154TFT-5.3	5,3	18	62	26	5,3
	A1154TFT-5.4	5,4	19	66	28	5,4

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹

Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação					
	A1154TFT-5.5	5,5	19	66	28	5,5
	A1154TFT-5.55	5,55	19	66	28	5,55
	A1154TFT-5.6	5,6	19	66	28	5,6
	A1154TFT-5.7	5,7	19	66	28	5,7
	A1154TFT-5.8	5,8	19	66	28	5,8
	A1154TFT-5.9	5,9	19	66	28	5,9
	A1154TFT-6	6	19	66	28	6
	A1154TFT-6.1	6,1	20	70	31	6,1
	A1154TFT-6.2	6,2	20	70	31	6,2
	A1154TFT-6.3	6,3	20	70	31	6,3
	A1154TFT-6.4	6,4	20	70	31	6,4
	A1154TFT-6.5	6,5	20	70	31	6,5
	A1154TFT-6.6	6,6	20	70	31	6,6
	A1154TFT-6.7	6,7	20	70	31	6,7
	A1154TFT-6.8	6,8	22	74	34	6,8
	A1154TFT-6.9	6,9	22	74	34	6,9
	A1154TFT-7	7	22	74	34	7
	A1154TFT-7.1	7,1	22	74	34	7,1
	A1154TFT-7.2	7,2	22	74	34	7,2
	A1154TFT-7.3	7,3	22	74	34	7,3
	A1154TFT-7.4	7,4	22	74	34	7,4
	A1154TFT-7.5	7,5	22	74	34	7,5
	A1154TFT-7.6	7,6	24	79	37	7,6
	A1154TFT-7.7	7,7	24	79	37	7,7
	A1154TFT-7.8	7,8	24	79	37	7,8
	A1154TFT-7.9	7,9	24	79	37	7,9
	A1154TFT-8	8	24	79	37	8
	A1154TFT-8.1	8,1	24	79	37	8,1
	A1154TFT-8.2	8,2	24	79	37	8,2
	A1154TFT-8.3	8,3	24	79	37	8,3
	A1154TFT-8.4	8,4	24	79	37	8,4
	A1154TFT-8.5	8,5	24	79	37	8,5
	A1154TFT-8.6	8,6	25	84	40	8,6
	A1154TFT-8.7	8,7	25	84	40	8,7
	A1154TFT-8.8	8,8	25	84	40	8,8
	A1154TFT-8.9	8,9	25	84	40	8,9
	A1154TFT-9	9	25	84	40	9
	A1154TFT-9.1	9,1	25	84	40	9,1
	A1154TFT-9.2	9,2	25	84	40	9,2
	A1154TFT-9.3	9,3	25	84	40	9,3
	A1154TFT-9.4	9,4	25	84	40	9,4
	A1154TFT-9.5	9,5	25	84	40	9,5
	A1154TFT-9.6	9,6	27	89	43	9,6
	A1154TFT-9.7	9,7	27	89	43	9,7
	A1154TFT-9.8	9,8	27	89	43	9,8
	A1154TFT-9.9	9,9	27	89	43	9,9

Cylindrical shank

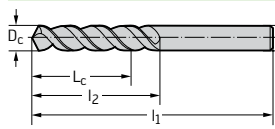
B1

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação					
	A1154TFT-10	10	27	89	43	10
	A1154TFT-10.2	10,2	27	89	43	10,2
	A1154TFT-10.3	10,3	27	89	43	10,3
	A1154TFT-10.5	10,5	27	89	43	10,5
	A1154TFT-10.6	10,6	27	89	43	10,6
	A1154TFT-10.7	10,7	29	95	47	10,7
	A1154TFT-10.8	10,8	29	95	47	10,8
	A1154TFT-10.9	10,9	29	95	47	10,9
	A1154TFT-11	11	29	95	47	11
	A1154TFT-11.1	11,1	29	95	47	11,1
	A1154TFT-11.2	11,2	29	95	47	11,2
	A1154TFT-11.3	11,3	29	95	47	11,3
	A1154TFT-11.5	11,5	29	95	47	11,5
	A1154TFT-11.6	11,6	29	95	47	11,6
	A1154TFT-11.8	11,8	29	95	47	11,8
	A1154TFT-11.9	11,9	37	102	51	11,9
	A1154TFT-12	12	37	102	51	12
	A1154TFT-12.1	12,1	37	102	51	12,1
	A1154TFT-12.3	12,3	37	102	51	12,3
	A1154TFT-12.5	12,5	37	102	51	12,5
	A1154TFT-12.6	12,6	37	102	51	12,6
	A1154TFT-12.7	12,700	37	102	51	12,7
	A1154TFT-13	13	37	102	51	13
	A1154TFT-13.1	13,1	37	102	51	13,1
	A1154TFT-13.2	13,2	37	102	51	13,2
	A1154TFT-13.3	13,3	40	107	54	13,3
	A1154TFT-13.4	13,4	40	107	54	13,4
	A1154TFT-13.5	13,5	40	107	54	13,5
	A1154TFT-13.6	13,6	40	107	54	13,6
	A1154TFT-14	14	40	107	54	14
	A1154TFT-14.1	14,1	41	111	56	14,1
	A1154TFT-14.2	14,2	41	111	56	14,2
	A1154TFT-14.5	14,5	41	111	56	14,5
	A1154TFT-14.8	14,8	41	111	56	14,8
	A1154TFT-15	15	41	111	56	15
	A1154TFT-15.1	15,1	42	115	58	15,1
	A1154TFT-15.2	15,2	42	115	58	15,2
	A1154TFT-15.3	15,3	42	115	58	15,3
	A1154TFT-15.5	15,5	42	115	58	15,5
	A1154TFT-15.8	15,8	42	115	58	15,8
	A1154TFT-16	16	42	115	58	16

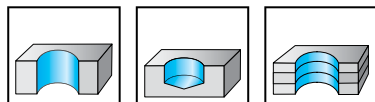
Brocas helicoidais de HSS-E, extra curtas

A1148

UFL®



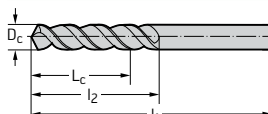
– Sem tratamento até 1,9 mm

~3×D_cDIN
1897

130°

	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●		●

B1

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1148-1	1		4	26	6	1
	A1148-NO60	1,016	No. 60	4	26	6	1,016
	A1148-NO59	1,041	No. 59	4	26	6	1,041
	A1148-NO58	1,067	No. 58	5	28	7	1,067
	A1148-NO57	1,092	No. 57	5	28	7	1,092
	A1148-1.1	1,1		5	28	7	1,1
	A1148-NO56	1,181	No. 56	6	30	8	1,181
	A1148-3/64IN	1,191	3/64"	6	30	8	1,191
	A1148-1.2	1,2		6	30	8	1,2
	A1148-1.3	1,3		6	30	8	1,3
	A1148-NO55	1,321	No. 55	6	32	9	1,321
	A1148-NO54	1,397	No. 54	6	32	9	1,397
	A1148-1.4	1,4		6	32	9	1,4
	A1148-1.5	1,5		6	32	9	1,5
	A1148-NO53	1,511	No. 53	7	34	10	1,511
	A1148-1/16IN	1,588	1/16"	7	34	10	1,588
	A1148-1.6	1,6		7	34	10	1,6
	A1148-NO52	1,613	No. 52	7	34	10	1,613
	A1148-1.7	1,7		7	34	10	1,7
	A1148-NO51	1,702	No. 51	8	36	11	1,702
	A1148-NO50	1,778	No. 50	8	36	11	1,778
	A1148-1.8	1,8		8	36	11	1,8
	A1148-NO49	1,854	No. 49	8	36	11	1,854
	A1148-1.9	1,9		8	36	11	1,9
	A1148-NO48	1,930	No. 48	8	38	12	1,93
	A1148-5/64IN	1,984	5/64"	8	38	12	1,984
	A1148-NO47	1,994	No. 47	8	38	12	1,994
	A1148-2	2		8	38	12	2
	A1148-NO46	2,057	No. 46	8	38	12	2,057
	A1148-NO45	2,083	No. 45	8	38	12	2,083
	A1148-2.1	2,1		8	38	12	2,1
	A1148-NO44	2,184	No. 44	9	40	13	2,184
	A1148-2.2	2,2		9	40	13	2,2
	A1148-NO43	2,261	No. 43	9	40	13	2,261
	A1148-2.3	2,3		9	40	13	2,3
	A1148-NO42	2,375	No. 42	10	43	14	2,375

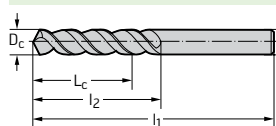
Cylindrical shank

WALTER
SELECT

Ferramenta ideal para condições de usinagem

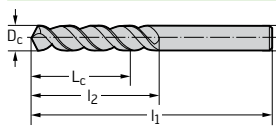
●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹

Ferramenta



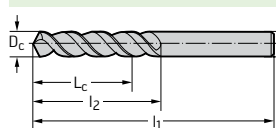
Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1148-3/32IN	2,381	3/32"	10	43	14	2,381
A1148-2.4	2,4		10	43	14	2,4
A1148-N041	2,438	No. 41	10	43	14	2,438
A1148-N040	2,489	No. 40	10	43	14	2,489
A1148-2.5	2,5		10	43	14	2,5
A1148-N039	2,527	No. 39	10	43	14	2,527
A1148-N038	2,578	No. 38	10	43	14	2,578
A1148-2.6	2,6		10	43	14	2,6
A1148-N037	2,642	No. 37	10	43	14	2,642
A1148-2.7	2,7		11	46	16	2,7
A1148-N036	2,705	No. 36	11	46	16	2,705
A1148-7/64IN	2,778	7/64"	11	46	16	2,778
A1148-N035	2,794	No. 35	11	46	16	2,794
A1148-2.8	2,8		11	46	16	2,8
A1148-N034	2,819	No. 34	11	46	16	2,819
A1148-N033	2,870	No. 33	11	46	16	2,87
A1148-2.9	2,9		11	46	16	2,9
A1148-N032	2,946	No. 32	11	46	16	2,946
A1148-3	3		11	46	16	3
A1148-N031	3,048	No. 31	12	49	18	3,048
A1148-3.1	3,1		12	49	18	3,1
A1148-1/8IN	3,175	1/8"	12	49	18	3,175
A1148-3.2	3,2		12	49	18	3,2
A1148-N030	3,264	No. 30	12	49	18	3,264
A1148-3.3	3,3		12	49	18	3,3
A1148-3.4	3,4		14	52	20	3,4
A1148-N029	3,454	No. 29	14	52	20	3,454
A1148-3.5	3,5		14	52	20	3,5
A1148-N028	3,569	No. 28	14	52	20	3,569
A1148-9/64IN	3,572	9/64"	14	52	20	3,572
A1148-3.6	3,6		14	52	20	3,6
A1148-N027	3,658	No. 27	14	52	20	3,658
A1148-3.7	3,7		14	52	20	3,7
A1148-N026	3,734	No. 26	14	52	20	3,734
A1148-N025	3,797	No. 25	15	55	22	3,797
A1148-3.8	3,8		15	55	22	3,8
A1148-N024	3,861	No. 24	15	55	22	3,861
A1148-3.9	3,9		15	55	22	3,9
A1148-N023	3,912	No. 23	15	55	22	3,912
A1148-5/32IN	3,969	5/32"	15	55	22	3,969
A1148-N022	3,988	No. 22	15	55	22	3,988
A1148-4	4		15	55	22	4
A1148-N021	4,039	No. 21	15	55	22	4,039
A1148-N020	4,089	No. 20	15	55	22	4,089
A1148-4.1	4,1		15	55	22	4,1
A1148-4.2	4,2		15	55	22	4,2

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1148-NO19	4,216	No. 19	15	55	22	4,216
	A1148-4.3	4,3		16	58	24	4,3
	A1148-NO18	4,305	No. 18	16	58	24	4,305
	A1148-11/64IN	4,366	11/64"	16	58	24	4,366
	A1148-NO17	4,394	No. 17	16	58	24	4,394
	A1148-4.4	4,4		16	58	24	4,4
	A1148-NO16	4,496	No. 16	16	58	24	4,496
	A1148-4.5	4,5		16	58	24	4,5
	A1148-NO15	4,572	No. 15	16	58	24	4,572
	A1148-4.6	4,6		16	58	24	4,6
	A1148-NO14	4,623	No. 14	16	58	24	4,623
	A1148-NO13	4,699	No. 13	16	58	24	4,699
	A1148-4.7	4,7		16	58	24	4,7
	A1148-3/16IN	4,763	3/16"	18	62	26	4,763
	A1148-4.8	4,8		18	62	26	4,8
	A1148-NO12	4,801	No. 12	18	62	26	4,801
	A1148-NO11	4,851	No. 11	18	62	26	4,851
	A1148-4.9	4,9		18	62	26	4,9
	A1148-NO10	4,915	No. 10	18	62	26	4,915
	A1148-NO9	4,978	No. 09	18	62	26	4,978
	A1148-5	5		18	62	26	5
	A1148-NO8	5,055	No. 08	18	62	26	5,055
	A1148-5.1	5,1		18	62	26	5,1
	A1148-NO7	5,105	No. 07	18	62	26	5,105
	A1148-13/64IN	5,159	13/64"	18	62	26	5,159
	A1148-NO6	5,182	No. 06	18	62	26	5,182
	A1148-5.2	5,2		18	62	26	5,2
	A1148-NO5	5,220	No. 05	18	62	26	5,22
	A1148-5.3	5,3		18	62	26	5,3
	A1148-NO4	5,309	No. 04	19	66	28	5,309
	A1148-5.4	5,4		19	66	28	5,4
	A1148-NO3	5,410	No. 03	19	66	28	5,41
	A1148-5.5	5,5		19	66	28	5,5
	A1148-7/32IN	5,556	7/32"	19	66	28	5,556
	A1148-5.6	5,6		19	66	28	5,6
	A1148-NO2	5,613	No. 02	19	66	28	5,613
	A1148-5.7	5,7		19	66	28	5,7
	A1148-NO1	5,791	No. 01	19	66	28	5,791
	A1148-5.8	5,8		19	66	28	5,8
	A1148-5.9	5,9		19	66	28	5,9
	A1148-LET.A	5,944	Let. A	19	66	28	5,944
	A1148-15/64IN	5,953	15/64"	19	66	28	5,953
	A1148-6	6		19	66	28	6
	A1148-LET.B	6,045	Let. B	20	70	31	6,045
	A1148-6.1	6,1		20	70	31	6,1
	A1148-LET.C	6,147	Let. C	20	70	31	6,147

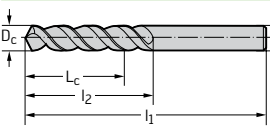
Cylindrical shank

Ferramenta

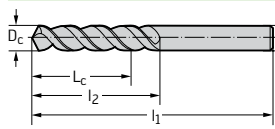


Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1148-6.2	6,2		20	70	31	6,2
A1148-LET.D	6,248	Let. D	20	70	31	6,248
A1148-6.3	6,3		20	70	31	6,3
A1148-1/4IN	6,350	1/4"	20	70	31	6,35
A1148-6.4	6,4		20	70	31	6,4
A1148-6.5	6,5		20	70	31	6,5
A1148-LET.F	6,528	Let. F	20	70	31	6,528
A1148-6.6	6,6		20	70	31	6,6
A1148-LET.G	6,629	Let. G	20	70	31	6,629
A1148-6.7	6,7		20	70	31	6,7
A1148-17/64IN	6,747	17/64"	22	74	34	6,747
A1148-LET.H	6,756	Let. H	22	74	34	6,756
A1148-6.8	6,8		22	74	34	6,8
A1148-6.9	6,9		22	74	34	6,9
A1148-LET.I	6,909	Let. I	22	74	34	6,909
A1148-7	7		22	74	34	7
A1148-LET.J	7,036	Let. J	22	74	34	7,036
A1148-7.1	7,1		22	74	34	7,1
A1148-LET.K	7,137	Let. K	22	74	34	7,137
A1148-9/32IN	7,144	9/32"	22	74	34	7,144
A1148-7.2	7,2		22	74	34	7,2
A1148-7.3	7,3		22	74	34	7,3
A1148-LET.L	7,366	Let. L	22	74	34	7,366
A1148-7.4	7,4		22	74	34	7,4
A1148-LET.M	7,493	Let. M	22	74	34	7,493
A1148-7.5	7,5		22	74	34	7,5
A1148-19/64IN	7,541	19/64"	24	79	37	7,541
A1148-7.6	7,6		24	79	37	7,6
A1148-LET.N	7,671	Let. N	24	79	37	7,671
A1148-7.7	7,7		24	79	37	7,7
A1148-7.8	7,8		24	79	37	7,8
A1148-7.9	7,9		24	79	37	7,9
A1148-5/16IN	7,938	5/16"	24	79	37	7,938
A1148-8	8		24	79	37	8
A1148-LET.O	8,026	Let. O	24	79	37	8,026
A1148-8.1	8,1		24	79	37	8,1
A1148-8.2	8,2		24	79	37	8,2
A1148-LET.P	8,204	Let. P	24	79	37	8,204
A1148-8.3	8,3		24	79	37	8,3
A1148-21/64IN	8,334	21/64"	24	79	37	8,334
A1148-8.4	8,4		24	79	37	8,4
A1148-LET.Q	8,433	Let. Q	24	79	37	8,433
A1148-8.5	8,5		24	79	37	8,5
A1148-8.6	8,6		25	84	40	8,6
A1148-LET.R	8,611	Let. R	25	84	40	8,611
A1148-8.7	8,7		25	84	40	8,7

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1148-11/32IN	8,731	11/32"	25	84	40	8,731
	A1148-8.8	8,8		25	84	40	8,8
	A1148-LET.S	8,839	Let. S	25	84	40	8,839
	A1148-8.9	8,9		25	84	40	8,9
	A1148-9	9		25	84	40	9
	A1148-LET.T	9,093	Let. T	25	84	40	9,093
	A1148-9.1	9,1		25	84	40	9,1
	A1148-23/64IN	9,128	23/64"	25	84	40	9,128
	A1148-9.2	9,2		25	84	40	9,2
	A1148-9.3	9,3		25	84	40	9,3
	A1148-LET.U	9,347	Let. U	25	84	40	9,347
	A1148-9.4	9,4		25	84	40	9,4
	A1148-9.5	9,5		25	84	40	9,5
	A1148-3/8IN	9,525	3/8"	27	89	43	9,525
	A1148-LET.V	9,576	Let. V	27	89	43	9,576
	A1148-9.6	9,6		27	89	43	9,6
	A1148-9.7	9,7		27	89	43	9,7
	A1148-9.8	9,8		27	89	43	9,8
	A1148-LET.W	9,804	Let. W	27	89	43	9,804
	A1148-9.9	9,9		27	89	43	9,9
	A1148-25/64IN	9,922	25/64"	27	89	43	9,922
	A1148-10	10		27	89	43	10
	A1148-LET.X	10,084	Let. X	27	89	43	10,084
	A1148-10.2	10,2		27	89	43	10,2
	A1148-LET.Y	10,262	Let. Y	27	89	43	10,262
	A1148-13/32IN	10,319	13/32"	27	89	43	10,319
	A1148-LET.Z	10,490	Let. Z	27	89	43	10,49
	A1148-10.5	10,5		27	89	43	10,5
	A1148-27/64IN	10,716	27/64"	29	95	47	10,716
	A1148-10.8	10,8		29	95	47	10,8
	A1148-11	11		29	95	47	11
	A1148-7/16IN	11,113	7/16"	29	95	47	11,113
	A1148-11.2	11,2		29	95	47	11,2
	A1148-11.5	11,5		29	95	47	11,5
	A1148-29/64IN	11,509	29/64"	29	95	47	11,509
	A1148-11.8	11,8		29	95	47	11,8
	A1148-15/32IN	11,906	15/32"	37	102	51	11,906
	A1148-12	12		37	102	51	12
	A1148-31/64IN	12,303	31/64"	37	102	51	12,303
	A1148-12.5	12,5		37	102	51	12,5
	A1148-1/2IN	12,700	1/2"	37	102	51	12,7
	A1148-12.8	12,8		37	102	51	12,8
	A1148-13	13		37	102	51	13
	A1148-33/64IN	13,097		37	102	51	13,097
	A1148-13.3	13,3		40	107	54	13,3
	A1148-17/32IN	13,494	17/32"	40	107	54	13,494

Cylindrical shank

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1148-13.5	13,5		40	107	54	13,5
	A1148-35/64IN	13,891		40	107	54	13,891
	A1148-14	14		40	107	54	14
	A1148-9/16IN	14,288	9/16"	41	111	56	14,288
	A1148-14.5	14,5		41	111	56	14,5
	A1148-37/64IN	14,684	37/64"	41	111	56	14,684
	A1148-15	15		41	111	56	15
	A1148-19/32IN	15,081	19/32"	42	115	58	15,081
	A1148-15.3	15,3		42	115	58	15,3
	A1148-39/64IN	15,478	39/64"	42	115	58	15,478
	A1148-15.5	15,5		42	115	58	15,5
	A1148-5/8IN	15,875	5/8"	42	115	58	15,875
	A1148-16	16		42	115	58	16
	A1148-41/64IN	16,272		43	119	60	16,272
	A1148-16.5	16,5		43	119	60	16,5
	A1148-21/32IN	16,669		43	119	60	16,669
	A1148-17	17		43	119	60	17
	A1148-43/64IN	17,066		44	123	62	17,066
	A1148-11/16IN	17,463		44	123	62	17,463
	A1148-17.5	17,5		44	123	62	17,5
	A1148-45/64IN	17,859	45/64"	44	123	62	17,859
	A1148-18	18		44	123	62	18
	A1148-23/32IN	18,256	23/32"	45	127	64	18,256
	A1148-18.5	18,5		45	127	64	18,5
	A1148-47/64IN	18,653	47/64"	45	127	64	18,653
	A1148-19	19		45	127	64	19
	A1148-3/4IN	19,050	3/4"	46	131	66	19,05
	A1148-19.5	19,5		46	131	66	19,5
	A1148-20	20		46	131	66	20

Cylindrical shank

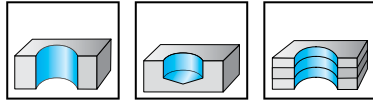
B1

Microbrocas de HSS-E

A3143



– Tipo ESU



	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●●		●

B1

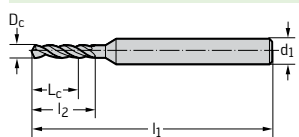
Ferramenta		D _c 0-0,004 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ h8 mm
 Cylindrical shank	Denominação					
	A3143-0.05	0,05	0,2	25	0,3	1
	A3143-0.06	0,06	0,2	25	0,3	1
	A3143-0.07	0,07	0,2	25	0,4	1
	A3143-0.08	0,08	0,2	25	0,4	1
	A3143-0.09	0,09	0,2	25	0,4	1
	A3143-0.1	0,1	0,3	25	0,5	1
	A3143-0.11	0,11	0,3	25	0,5	1
	A3143-0.12	0,12	0,3	25	0,5	1
	A3143-0.13	0,13	0,5	25	0,8	1
	A3143-0.14	0,14	0,5	25	0,8	1
	A3143-0.15	0,15	0,5	25	0,8	1
	A3143-0.16	0,16	0,8	25	1,1	1
	A3143-0.17	0,17	0,8	25	1,1	1
	A3143-0.18	0,18	0,8	25	1,1	1
	A3143-0.19	0,19	0,8	25	1,1	1
	A3143-0.2	0,2	1,1	25	1,5	1
	A3143-0.21	0,21	1,1	25	1,5	1
	A3143-0.22	0,22	1,1	25	1,5	1
	A3143-0.23	0,23	1,1	25	1,5	1
	A3143-0.24	0,24	1,1	25	1,5	1
	A3143-0.25	0,25	1,4	25	1,9	1
	A3143-0.26	0,26	1,4	25	1,9	1
	A3143-0.27	0,27	1,4	25	1,9	1
	A3143-0.28	0,28	1,4	25	1,9	1
	A3143-0.29	0,29	1,4	25	1,9	1
	A3143-0.3	0,3	1,4	25	1,9	1
	A3143-0.31	0,31	1,8	25	2,4	1
	A3143-0.32	0,32	1,8	25	2,4	1
	A3143-0.33	0,33	1,8	25	2,4	1
	A3143-0.34	0,34	1,8	25	2,4	1
	A3143-0.35	0,35	1,8	25	2,4	1
	A3143-0.36	0,36	1,8	25	2,4	1
	A3143-0.37	0,37	1,8	25	2,4	1
	A3143-0.38	0,38	1,8	25	2,4	1
	A3143-0.39	0,39	2,2	25	3	1
	A3143-0.4	0,4	2,2	25	3	1

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta		D_c 0-0,004 mm	L_c mm	l_1 mm	l_2 mm	d_1 h8 mm
Denominação						
A3143-0.41		0,41	2,2	25	3	1
A3143-0.42		0,42	2,2	25	3	1
A3143-0.43		0,43	2,2	25	3	1
A3143-0.44		0,44	2,2	25	3	1
A3143-0.45		0,45	2,2	25	3	1
A3143-0.46		0,46	2,2	25	3	1
A3143-0.47		0,47	2,2	25	3	1
A3143-0.48		0,48	2,2	25	3	1
A3143-0.49		0,49	2,6	25	3,4	1
A3143-0.5		0,5	2,6	25	3,4	1
A3143-0.51		0,51	2,6	25	3,4	1
A3143-0.52		0,52	2,6	25	3,4	1
A3143-0.53		0,53	2,6	25	3,4	1
A3143-0.54		0,54	3	25	3,9	1
A3143-0.55		0,55	3	25	3,9	1
A3143-0.56		0,56	3	25	3,9	1
A3143-0.57		0,57	3	25	3,9	1
A3143-0.58		0,58	3	25	3,9	1
A3143-0.59		0,59	3	25	3,9	1
A3143-0.6		0,6	3	25	3,9	1
A3143-0.61		0,61	3,1	25	4,2	1
A3143-0.62		0,62	3,1	25	4,2	1
A3143-0.63		0,63	3,1	25	4,2	1
A3143-0.64		0,64	3,1	25	4,2	1
A3143-0.65		0,65	3,1	25	4,2	1
A3143-0.66		0,66	3,1	25	4,2	1
A3143-0.67		0,67	3,1	25	4,2	1
A3143-0.68		0,68	3,6	25	4,8	1
A3143-0.69		0,69	3,6	25	4,8	1
A3143-0.7		0,7	3,6	25	4,8	1
A3143-0.71		0,71	3,6	25	4,8	1
A3143-0.72		0,72	3,6	25	4,8	1
A3143-0.73		0,73	3,6	25	4,8	1
A3143-0.74		0,74	3,6	25	4,8	1
A3143-0.75		0,75	3,6	25	4,8	1
A3143-0.76		0,76	4,1	25	5,3	1
A3143-0.77		0,77	4,1	25	5,3	1
A3143-0.78		0,78	4,1	25	5,3	1
A3143-0.79		0,79	4,1	25	5,3	1
A3143-0.8		0,8	4	25	5,3	1,5
A3143-0.81		0,81	4	25	5,3	1,5
A3143-0.82		0,82	4	25	5,3	1,5
A3143-0.83		0,83	4	25	5,3	1,5
A3143-0.84		0,84	4	25	5,3	1,5
A3143-0.85		0,85	4	25	5,3	1,5
A3143-0.86		0,86	4,5	25	6	1,5



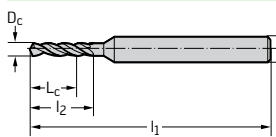
Cylindrical shank

B1

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta		D_c 0-0,004 mm	L_c mm	l_1 mm	l_2 mm	d_1 h8 mm
 Cylindrical shank	Denominação					
	A3143-0.87	0,87	4,5	25	6	1,5
	A3143-0.88	0,88	4,5	25	6	1,5
	A3143-0.89	0,89	4,5	25	6	1,5
	A3143-0.9	0,9	4,5	25	6	1,5
	A3143-0.91	0,91	4,5	25	6	1,5
	A3143-0.92	0,92	4,5	25	6	1,5
	A3143-0.93	0,93	4,5	25	6	1,5
	A3143-0.94	0,94	4,5	25	6	1,5
	A3143-0.95	0,95	4,5	25	6	1,5
	A3143-0.96	0,96	5	25	6,8	1,5
	A3143-0.97	0,97	5	25	6,8	1,5
	A3143-0.98	0,98	5	25	6,8	1,5
	A3143-0.99	0,99	5	25	6,8	1,5
	A3143-1	1	5	25	6,8	1,5
	A3143-1.05	1,05	5	25	6,8	1,5
	A3143-1.1	1,1	5	25	7,6	1,5
	A3143-1.15	1,15	5	25	7,6	1,5
	A3143-1.2	1,2	6	25	8,5	1,5
	A3143-1.25	1,25	6	25	8,5	1,5
	A3143-1.3	1,3	6	25	8,5	1,5
	A3143-1.35	1,35	7	25	9,5	1,5
	A3143-1.4	1,4	7	25	9,5	1,5
	A3143-1.45	1,45	7	25	9,5	1,5

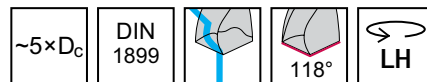
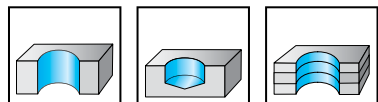
B1

Microbrocas de HSS-E

A3153



– Tipo ESU



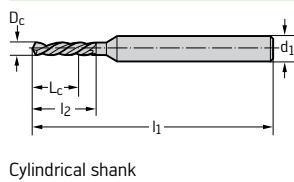
	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●●		●

Ferramenta		D _c 0-0,004 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ h8 mm
 Cylindrical shank	Denominação					
	A3153-0.15	0,15	0,5	25	0,8	1
	A3153-0.17	0,17	0,8	25	1,1	1
	A3153-0.18	0,18	0,8	25	1,1	1
	A3153-0.19	0,19	0,8	25	1,1	1
	A3153-0.2	0,2	1,1	25	1,5	1
	A3153-0.21	0,21	1,1	25	1,5	1
	A3153-0.23	0,23	1,1	25	1,5	1
	A3153-0.24	0,24	1,1	25	1,5	1
	A3153-0.25	0,25	1,4	25	1,9	1
	A3153-0.26	0,26	1,4	25	1,9	1
	A3153-0.27	0,27	1,4	25	1,9	1
	A3153-0.28	0,28	1,4	25	1,9	1
	A3153-0.3	0,3	1,4	25	1,9	1
	A3153-0.31	0,31	1,8	25	2,4	1
	A3153-0.32	0,32	1,8	25	2,4	1
	A3153-0.33	0,33	1,8	25	2,4	1
	A3153-0.34	0,34	1,8	25	2,4	1
	A3153-0.35	0,35	1,8	25	2,4	1
	A3153-0.37	0,37	1,8	25	2,4	1
	A3153-0.38	0,38	1,8	25	2,4	1
	A3153-0.4	0,4	2,2	25	3	1
	A3153-0.41	0,41	2,2	25	3	1
	A3153-0.43	0,43	2,2	25	3	1
	A3153-0.45	0,45	2,2	25	3	1
	A3153-0.47	0,47	2,2	25	3	1
	A3153-0.48	0,48	2,2	25	3	1
	A3153-0.49	0,49	2,6	25	3,4	1
	A3153-0.5	0,5	2,6	25	3,4	1
	A3153-0.52	0,52	2,6	25	3,4	1
	A3153-0.53	0,53	2,6	25	3,4	1
	A3153-0.54	0,54	3	25	3,9	1
	A3153-0.55	0,55	3	25	3,9	1
	A3153-0.56	0,56	3	25	3,9	1
	A3153-0.57	0,57	3	25	3,9	1
	A3153-0.58	0,58	3	25	3,9	1
	A3153-0.59	0,59	3	25	3,9	1

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

Ferramenta		D_c 0-0,004 mm	L_c mm	l_1 mm	l_2 mm	d_1 h8 mm
 Cylindrical shank	Denominação					
	A3153-0.6	0,6	3	25	3,9	1
	A3153-0.61	0,61	3,1	25	4,2	1
	A3153-0.62	0,62	3,1	25	4,2	1
	A3153-0.63	0,63	3,1	25	4,2	1
	A3153-0.65	0,65	3,1	25	4,2	1
	A3153-0.67	0,67	3,1	25	4,2	1
	A3153-0.68	0,68	3,6	25	4,8	1
	A3153-0.7	0,7	3,6	25	4,8	1
	A3153-0.72	0,72	3,6	25	4,8	1
	A3153-0.73	0,73	3,6	25	4,8	1
	A3153-0.74	0,74	3,6	25	4,8	1
	A3153-0.75	0,75	3,6	25	4,8	1
	A3153-0.76	0,76	4,1	25	5,3	1
	A3153-0.77	0,77	4,1	25	5,3	1
	A3153-0.78	0,78	4,1	25	5,3	1
	A3153-0.8	0,8	4	25	5,3	1,5
	A3153-0.82	0,82	4	25	5,3	1,5
	A3153-0.83	0,83	4	25	5,3	1,5
	A3153-0.84	0,84	4	25	5,3	1,5
	A3153-0.85	0,85	4	25	5,3	1,5
	A3153-0.87	0,87	4,5	25	6	1,5
	A3153-0.89	0,89	4,5	25	6	1,5
	A3153-0.9	0,9	4,5	25	6	1,5
	A3153-0.91	0,91	4,5	25	6	1,5
	A3153-0.92	0,92	4,5	25	6	1,5
	A3153-0.93	0,93	4,5	25	6	1,5
	A3153-0.94	0,94	4,5	25	6	1,5
	A3153-0.95	0,95	4,5	25	6	1,5
	A3153-0.96	0,96	5	25	6,8	1,5
	A3153-0.97	0,97	5	25	6,8	1,5
	A3153-0.98	0,98	5	25	6,8	1,5
	A3153-1	1	5	25	6,8	1,5
	A3153-1.05	1,05	5	25	6,8	1,5
	A3153-1.1	1,1	5	25	7,6	1,5
	A3153-1.15	1,15	5	25	7,6	1,5
	A3153-1.2	1,2	6	25	8,5	1,5
	A3153-1.3	1,3	6	25	8,5	1,5
	A3153-1.4	1,4	7	25	9,5	1,5

B1

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

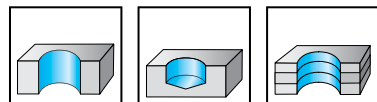
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas para furação profunda de HSS-E

A1249XPL

UFL®


~8×D_c

DIN 338



130°

B1

	P	M	K	N	S	H	O
XPL	●	●	●	●	●	●	●

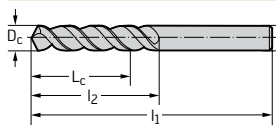
Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação						
	A1249XPL-1	1		10	34	12	1
	A1249XPL-NO60	1,016	No. 60	10	34	12	1,016
	A1249XPL-NO59	1,041	No. 59	10	34	12	1,041
	A1249XPL-NO58	1,067	No. 58	12	36	14	1,067
	A1249XPL-NO57	1,092	No. 57	12	36	14	1,092
	A1249XPL-1.1	1,1		12	36	14	1,1
	A1249XPL-NO56	1,181	No. 56	14	38	16	1,181
	A1249XPL-3/64IN	1,191	3/64"	14	38	16	1,191
	A1249XPL-1.2	1,2		14	38	16	1,2
	A1249XPL-1.3	1,3		14	38	16	1,3
	A1249XPL-NO55	1,321	No. 55	15	40	18	1,321
	A1249XPL-NO54	1,397	No. 54	15	40	18	1,397
	A1249XPL-1.4	1,4		15	40	18	1,4
	A1249XPL-1.5	1,5		15	40	18	1,5
	A1249XPL-NO53	1,511	No. 53	17	43	20	1,511
	A1249XPL-1/16IN	1,588	1/16"	17	43	20	1,588
	A1249XPL-1.6	1,6		17	43	20	1,6
	A1249XPL-NO52	1,613	No. 52	17	43	20	1,613
	A1249XPL-1.7	1,7		17	43	20	1,7
	A1249XPL-NO51	1,702	No. 51	19	46	22	1,702
	A1249XPL-NO50	1,778	No. 50	19	46	22	1,778
	A1249XPL-1.8	1,8		19	46	22	1,8
	A1249XPL-NO49	1,854	No. 49	19	46	22	1,854
	A1249XPL-1.9	1,9		19	46	22	1,9
	A1249XPL-NO48	1,930	No. 48	20	49	24	1,93
	A1249XPL-5/64IN	1,984	5/64"	20	49	24	1,984
	A1249XPL-NO47	1,994	No. 47	20	49	24	1,994
	A1249XPL-2	2		20	49	24	2
	A1249XPL-NO46	2,057	No. 46	20	49	24	2,057
	A1249XPL-NO45	2,083	No. 45	20	49	24	2,083
	A1249XPL-2.1	2,1		20	49	24	2,1
	A1249XPL-NO44	2,184	No. 44	23	53	27	2,184
	A1249XPL-2.2	2,2		23	53	27	2,2
	A1249XPL-NO43	2,261	No. 43	23	53	27	2,261
	A1249XPL-2.3	2,3		23	53	27	2,3
	A1249XPL-NO42	2,375	No. 42	26	57	30	2,375

WALTER
SELECT

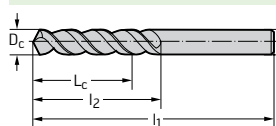
Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

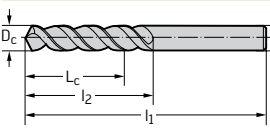
Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1249XPL-3/32IN	2,381	3/32"	26	57	30	2,381
	A1249XPL-2.4	2,4		26	57	30	2,4
	A1249XPL-NO41	2,438	No. 41	26	57	30	2,438
Cylindrical shank	A1249XPL-NO40	2,489	No. 40	26	57	30	2,489
	A1249XPL-2.5	2,5		26	57	30	2,5
	A1249XPL-NO39	2,527	No. 39	26	57	30	2,527
	A1249XPL-NO38	2,578	No. 38	26	57	30	2,578
	A1249XPL-2.6	2,6		26	57	30	2,6
	A1249XPL-NO37	2,642	No. 37	26	57	30	2,642
	A1249XPL-2.7	2,7		28	61	33	2,7
	A1249XPL-NO36	2,705	No. 36	28	61	33	2,705
	A1249XPL-7/64IN	2,778	7/64"	28	61	33	2,778
	A1249XPL-NO35	2,794	No. 35	28	61	33	2,794
	A1249XPL-2.8	2,8		28	61	33	2,8
	A1249XPL-NO34	2,819	No. 34	28	61	33	2,819
	A1249XPL-NO33	2,870	No. 33	28	61	33	2,87
	A1249XPL-2.9	2,9		28	61	33	2,9
	A1249XPL-NO32	2,946	No. 32	28	61	33	2,946
	A1249XPL-3	3		28	61	33	3
	A1249XPL-NO31	3,048	No. 31	30	65	36	3,048
	A1249XPL-3.1	3,1		30	65	36	3,1
	A1249XPL-1/8IN	3,175	1/8"	30	65	36	3,175
	A1249XPL-3.2	3,2		30	65	36	3,2
	A1249XPL-NO30	3,264	No. 30	30	65	36	3,264
	A1249XPL-3.3	3,3		30	65	36	3,3
	A1249XPL-3.4	3,4		33	70	39	3,4
	A1249XPL-NO29	3,454	No. 29	33	70	39	3,454
	A1249XPL-3.5	3,5		33	70	39	3,5
	A1249XPL-NO28	3,569	No. 28	33	70	39	3,569
	A1249XPL-9/64IN	3,572	9/64"	33	70	39	3,572
	A1249XPL-3.6	3,6		33	70	39	3,6
	A1249XPL-NO27	3,658	No. 27	33	70	39	3,658
	A1249XPL-3.7	3,7		33	70	39	3,7
	A1249XPL-NO26	3,734	No. 26	33	70	39	3,734
	A1249XPL-NO25	3,797	No. 25	36	75	43	3,797
	A1249XPL-3.8	3,8		36	75	43	3,8
	A1249XPL-NO24	3,861	No. 24	36	75	43	3,861
	A1249XPL-3.9	3,9		36	75	43	3,9
	A1249XPL-NO23	3,912	No. 23	36	75	43	3,912
	A1249XPL-5/32IN	3,969	5/32"	36	75	43	3,969
	A1249XPL-NO22	3,988	No. 22	36	75	43	3,988
	A1249XPL-4	4		36	75	43	4
	A1249XPL-NO21	4,039	No. 21	36	75	43	4,039
	A1249XPL-NO20	4,089	No. 20	36	75	43	4,089
	A1249XPL-4.1	4,1		36	75	43	4,1
	A1249XPL-4.2	4,2		36	75	43	4,2

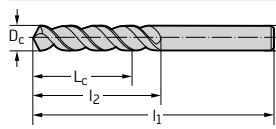
Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1249XPL-NO19	4,216	No. 19	36	75	43	4,216
A1249XPL-4.3	4,3		39	80	47	4,3
A1249XPL-NO18	4,305	No. 18	39	80	47	4,305
A1249XPL-11/64IN	4,366	11/64"	39	80	47	4,366
A1249XPL-NO17	4,394	No. 17	39	80	47	4,394
A1249XPL-4.4	4,4		39	80	47	4,4
A1249XPL-NO16	4,496	No. 16	39	80	47	4,496
A1249XPL-4.5	4,5		39	80	47	4,5
A1249XPL-NO15	4,572	No. 15	39	80	47	4,572
A1249XPL-4.6	4,6		39	80	47	4,6
A1249XPL-NO14	4,623	No. 14	39	80	47	4,623
A1249XPL-4.65	4,65		39	80	47	4,65
A1249XPL-NO13	4,699	No. 13	39	80	47	4,699
A1249XPL-4.7	4,7		39	80	47	4,7
A1249XPL-3/16IN	4,763	3/16"	44	86	52	4,763
A1249XPL-4.8	4,8		44	86	52	4,8
A1249XPL-NO12	4,801	No. 12	44	86	52	4,801
A1249XPL-NO11	4,851	No. 11	44	86	52	4,851
A1249XPL-4.9	4,9		44	86	52	4,9
A1249XPL-NO10	4,915	No. 10	44	86	52	4,915
A1249XPL-NO9	4,978	No. 09	44	86	52	4,978
A1249XPL-5	5		44	86	52	5
A1249XPL-NO8	5,055	No. 08	44	86	52	5,055
A1249XPL-5.1	5,1		44	86	52	5,1
A1249XPL-NO7	5,105	No. 07	44	86	52	5,105
A1249XPL-13/64IN	5,159	13/64"	44	86	52	5,159
A1249XPL-NO6	5,182	No. 06	44	86	52	5,182
A1249XPL-5.2	5,2		44	86	52	5,2
A1249XPL-NO5	5,220	No. 05	44	86	52	5,22
A1249XPL-5.3	5,3		44	86	52	5,3
A1249XPL-NO4	5,309	No. 04	48	93	57	5,309
A1249XPL-5.4	5,4		48	93	57	5,4
A1249XPL-NO3	5,410	No. 03	48	93	57	5,41
A1249XPL-5.5	5,5		48	93	57	5,5
A1249XPL-5.55	5,55		48	93	57	5,55
A1249XPL-7/32IN	5,556	7/32"	48	93	57	5,556
A1249XPL-5.6	5,6		48	93	57	5,6
A1249XPL-NO2	5,613	No. 02	48	93	57	5,613
A1249XPL-5.7	5,7		48	93	57	5,7
A1249XPL-NO1	5,791	No. 01	48	93	57	5,791
A1249XPL-5.8	5,8		48	93	57	5,8
A1249XPL-5.9	5,9		48	93	57	5,9
A1249XPL-15/64IN	5,953	15/64"	48	93	57	5,953
A1249XPL-6	6		48	93	57	6
A1249XPL-6.1	6,1		52	101	63	6,1
A1249XPL-6.2	6,2		52	101	63	6,2

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1249XPL-6.3	6,3		52	101	63	6,3
	A1249XPL-1/4IN	6,350	1/4"	52	101	63	6,35
	A1249XPL-6.4	6,4		52	101	63	6,4
	A1249XPL-6.5	6,5		52	101	63	6,5
Cylindrical shank	A1249XPL-6.6	6,6		52	101	63	6,6
	A1249XPL-6.7	6,7		52	101	63	6,7
	A1249XPL-17/64IN	6,747	17/64"	57	109	69	6,747
	A1249XPL-6.8	6,8		57	109	69	6,8
	A1249XPL-6.9	6,9		57	109	69	6,9
	A1249XPL-7	7		57	109	69	7
	A1249XPL-7.1	7,1		57	109	69	7,1
	A1249XPL-9/32IN	7,144	9/32"	57	109	69	7,144
	A1249XPL-7.2	7,2		57	109	69	7,2
	A1249XPL-7.3	7,3		57	109	69	7,3
	A1249XPL-7.4	7,4		57	109	69	7,4
	A1249XPL-7.5	7,5		57	109	69	7,5
	A1249XPL-19/64IN	7,541	19/64"	62	117	75	7,541
	A1249XPL-7.6	7,6		62	117	75	7,6
	A1249XPL-7.7	7,7		62	117	75	7,7
	A1249XPL-7.8	7,8		62	117	75	7,8
	A1249XPL-7.9	7,9		62	117	75	7,9
	A1249XPL-5/16IN	7,938	5/16"	62	117	75	7,938
	A1249XPL-8	8		62	117	75	8
	A1249XPL-8.1	8,1		62	117	75	8,1
	A1249XPL-8.2	8,2		62	117	75	8,2
	A1249XPL-8.3	8,3		62	117	75	8,3
	A1249XPL-21/64IN	8,334	21/64"	62	117	75	8,334
	A1249XPL-8.4	8,4		62	117	75	8,4
	A1249XPL-8.5	8,5		62	117	75	8,5
	A1249XPL-8.6	8,6		66	125	81	8,6
	A1249XPL-8.7	8,7		66	125	81	8,7
	A1249XPL-11/32IN	8,731	11/32"	66	125	81	8,731
	A1249XPL-8.8	8,8		66	125	81	8,8
	A1249XPL-8.9	8,9		66	125	81	8,9
	A1249XPL-9	9		66	125	81	9
	A1249XPL-9.1	9,1		66	125	81	9,1
	A1249XPL-23/64IN	9,128	23/64"	66	125	81	9,128
	A1249XPL-9.2	9,2		66	125	81	9,2
	A1249XPL-9.3	9,3		66	125	81	9,3
	A1249XPL-9.4	9,4		66	125	81	9,4
	A1249XPL-9.5	9,5		66	125	81	9,5
	A1249XPL-3/8IN	9,525	3/8"	71	133	87	9,525
	A1249XPL-9.6	9,6		71	133	87	9,6
	A1249XPL-9.7	9,7		71	133	87	9,7
	A1249XPL-9.8	9,8		71	133	87	9,8
	A1249XPL-9.9	9,9		71	133	87	9,9

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1249XPL-25/64IN	9,922	25/64"	71	133	87	9,922
	A1249XPL-10	10		71	133	87	10
	A1249XPL-10.2	10,2		71	133	87	10,2
	A1249XPL-13/32IN	10,319	13/32"	71	133	87	10,319
	A1249XPL-10.5	10,5		71	133	87	10,5
	A1249XPL-27/64IN	10,716	27/64"	76	142	94	10,716
	A1249XPL-11	11		76	142	94	11
	A1249XPL-7/16IN	11,113	7/16"	76	142	94	11,113
	A1249XPL-11.2	11,2		76	142	94	11,2
	A1249XPL-11.3	11,3		76	142	94	11,3
	A1249XPL-11.5	11,5		76	142	94	11,5
	A1249XPL-29/64IN	11,509	29/64"	76	142	94	11,509
	A1249XPL-15/32IN	11,906	15/32"	87	151	101	11,906
	A1249XPL-12	12		87	151	101	12
	A1249XPL-31/64IN	12,303	31/64"	87	151	101	12,303
	A1249XPL-12.5	12,5		87	151	101	12,5
	A1249XPL-1/2IN	12,700	1/2"	87	151	101	12,7
	A1249XPL-13	13		87	151	101	13
	A1249XPL-13.1	13,1		87	151	101	13,1
	A1249XPL-13.3	13,3		94	160	108	13,3
	A1249XPL-13.5	13,5		94	160	108	13,5
	A1249XPL-14	14		94	160	108	14
	A1249XPL-14.5	14,5		99	169	114	14,5
	A1249XPL-15	15		99	169	114	15
	A1249XPL-15.1	15,1		104	178	120	15,1
	A1249XPL-15.3	15,3		104	178	120	15,3
	A1249XPL-15.5	15,5		104	178	120	15,5
	A1249XPL-16	16		104	178	120	16
	A1249XPL-16.5	16,5		108	184	125	16,5
	A1249XPL-17	17		108	184	125	17
	A1249XPL-17.5	17,5		112	191	130	17,5
	A1249XPL-18	18		112	191	130	18
	A1249XPL-18.5	18,5		116	198	135	18,5
	A1249XPL-19	19		116	198	135	19
	A1249XPL-19.5	19,5		120	205	140	19,5
	A1249XPL-20	20		120	205	140	20

Cylindrical shank

B1

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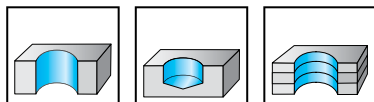
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas para furação profunda de HSS-E

A1254TFT

VA Inox



	P	M	K	N	S	H	O
TFT	●	●●	●●	●●	●	●	●

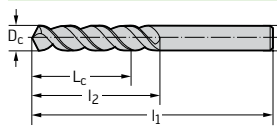
B1

Ferramenta	Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
Cylindrical shank	A1254TFT-3	3	28	61	33	3
	A1254TFT-3.2	3,2	30	65	36	3,2
	A1254TFT-3.3	3,3	30	65	36	3,3
	A1254TFT-3.4	3,4	33	70	39	3,4
	A1254TFT-3.5	3,5	33	70	39	3,5
	A1254TFT-3.7	3,7	33	70	39	3,7
	A1254TFT-3.8	3,8	36	75	43	3,8
	A1254TFT-4	4	36	75	43	4
	A1254TFT-4.2	4,2	36	75	43	4,2
	A1254TFT-4.3	4,3	39	80	47	4,3
	A1254TFT-4.5	4,5	39	80	47	4,5
	A1254TFT-4.65	4,65	39	80	47	4,65
	A1254TFT-4.7	4,7	39	80	47	4,7
	A1254TFT-4.8	4,8	44	86	52	4,8
	A1254TFT-5	5	44	86	52	5
	A1254TFT-5.1	5,1	44	86	52	5,1
	A1254TFT-5.3	5,3	44	86	52	5,3
	A1254TFT-5.5	5,5	48	93	57	5,5
	A1254TFT-5.55	5,55	48	93	57	5,55
	A1254TFT-5.6	5,6	48	93	57	5,6
	A1254TFT-5.8	5,8	48	93	57	5,8
	A1254TFT-6	6	48	93	57	6
	A1254TFT-6.5	6,5	52	101	63	6,5
	A1254TFT-6.6	6,6	52	101	63	6,6
	A1254TFT-6.8	6,8	57	109	69	6,8
	A1254TFT-6.9	6,9	57	109	69	6,9
	A1254TFT-7	7	57	109	69	7
	A1254TFT-7.4	7,4	57	109	69	7,4
	A1254TFT-7.5	7,5	57	109	69	7,5
	A1254TFT-7.8	7,8	62	117	75	7,8
	A1254TFT-8	8	62	117	75	8
	A1254TFT-8.5	8,5	62	117	75	8,5
	A1254TFT-8.6	8,6	66	125	81	8,6
	A1254TFT-8.8	8,8	66	125	81	8,8
	A1254TFT-9	9	66	125	81	9
	A1254TFT-9.3	9,3	66	125	81	9,3

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação					
Cylindrical shank	A1254TFT-9.4	9,4	66	125	81	9,4
	A1254TFT-9.5	9,5	66	125	81	9,5
	A1254TFT-9.8	9,8	71	133	87	9,8
	A1254TFT-10	10	71	133	87	10
	A1254TFT-10.2	10,2	71	133	87	10,2
	A1254TFT-10.3	10,3	71	133	87	10,3
	A1254TFT-10.5	10,5	71	133	87	10,5
	A1254TFT-11	11	76	142	94	11
	A1254TFT-11.2	11,2	76	142	94	11,2
	A1254TFT-11.3	11,3	76	142	94	11,3
	A1254TFT-11.5	11,5	76	142	94	11,5
	A1254TFT-11.8	11,8	76	142	94	11,8
	A1254TFT-12	12	87	151	101	12
	A1254TFT-12.1	12,1	87	151	101	12,1
	A1254TFT-12.5	12,5	87	151	101	12,5
	A1254TFT-13	13	87	151	101	13
	A1254TFT-13.2	13,2	87	151	101	13,2
	A1254TFT-13.5	13,5	94	160	108	13,5
	A1254TFT-14	14	94	160	108	14
	A1254TFT-14.1	14,1	99	169	114	14,1
	A1254TFT-14.2	14,2	99	169	114	14,2
	A1254TFT-14.5	14,5	99	169	114	14,5
	A1254TFT-15	15	99	169	114	15
	A1254TFT-15.1	15,1	104	178	120	15,1
	A1254TFT-15.2	15,2	104	178	120	15,2
	A1254TFT-15.5	15,5	104	178	120	15,5
	A1254TFT-16	16	104	178	120	16

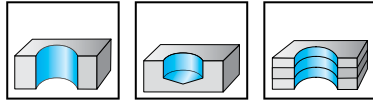
Brocas helicoidais de HSS-E

A1247

Alpha® XE



– Sem tratamento até 1,9 mm



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●		●

B1

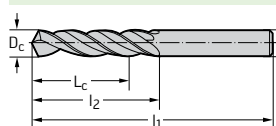
Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1247-1	1		10	34	12	1
	A1247-N060	1,016	No. 60	10	34	12	1,016
Cylindrical shank	A1247-N059	1,041	No. 59	10	34	12	1,041
	A1247-N058	1,067	No. 58	12	36	14	1,067
	A1247-N057	1,092	No. 57	12	36	14	1,092
	A1247-1.1	1,1		12	36	14	1,1
	A1247-N056	1,181	No. 56	14	38	16	1,181
	A1247-3/64IN	1,191	3/64"	14	38	16	1,191
	A1247-1.2	1,2		14	38	16	1,2
	A1247-1.25	1,25		14	38	16	1,25
	A1247-1.3	1,3		14	38	16	1,3
	A1247-N055	1,321	No. 55	15	40	18	1,321
	A1247-N054	1,397	No. 54	15	40	18	1,397
	A1247-1.4	1,4		15	40	18	1,4
	A1247-1.5	1,5		15	40	18	1,5
	A1247-N053	1,511	No. 53	17	43	20	1,511
	A1247-1/16IN	1,588	1/16"	17	43	20	1,588
	A1247-1.6	1,6		17	43	20	1,6
	A1247-N052	1,613	No. 52	17	43	20	1,613
	A1247-1.7	1,7		17	43	20	1,7
	A1247-N051	1,702	No. 51	19	46	22	1,702
	A1247-N050	1,778	No. 50	19	46	22	1,778
	A1247-1.8	1,8		19	46	22	1,8
	A1247-N049	1,854	No. 49	19	46	22	1,854
	A1247-1.9	1,9		19	46	22	1,9
	A1247-N048	1,930	No. 48	20	49	24	1,93
	A1247-5/64IN	1,984	5/64"	20	49	24	1,984
	A1247-N047	1,994	No. 47	20	49	24	1,994
	A1247-2	2		20	49	24	2
	A1247-N046	2,057	No. 46	20	49	24	2,057
	A1247-N045	2,083	No. 45	20	49	24	2,083
	A1247-2.1	2,1		20	49	24	2,1
	A1247-N044	2,184	No. 44	23	53	27	2,184
	A1247-2.2	2,2		23	53	27	2,2
	A1247-N043	2,261	No. 43	23	53	27	2,261
	A1247-2.3	2,3		23	53	27	2,3

WALTER
SELECT

Ferramenta ideal para condições de usinagem

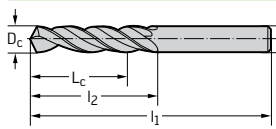
●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1247-N042	2,375	No. 42	26	57	30	2,375
A1247-3/32IN	2,381	3/32"	26	57	30	2,381
A1247-2.4	2,4		26	57	30	2,4
A1247-N041	2,438	No. 41	26	57	30	2,438
A1247-N040	2,489	No. 40	26	57	30	2,489
A1247-2.5	2,5		26	57	30	2,5
A1247-N039	2,527	No. 39	26	57	30	2,527
A1247-N038	2,578	No. 38	26	57	30	2,578
A1247-2.6	2,6		26	57	30	2,6
A1247-N037	2,642	No. 37	26	57	30	2,642
A1247-2.7	2,7		28	61	33	2,7
A1247-N036	2,705	No. 36	28	61	33	2,705
A1247-7/64IN	2,778	7/64"	28	61	33	2,778
A1247-N035	2,794	No. 35	28	61	33	2,794
A1247-2.8	2,8		28	61	33	2,8
A1247-N034	2,819	No. 34	28	61	33	2,819
A1247-N033	2,870	No. 33	28	61	33	2,87
A1247-2.9	2,9		28	61	33	2,9
A1247-N032	2,946	No. 32	28	61	33	2,946
A1247-3	3		28	61	33	3
A1247-N031	3,048	No. 31	30	65	36	3,048
A1247-3.1	3,1		30	65	36	3,1
A1247-1/8IN	3,175	1/8"	30	65	36	3,175
A1247-3.2	3,2		30	65	36	3,2
A1247-N030	3,264	No. 30	30	65	36	3,264
A1247-3.3	3,3		30	65	36	3,3
A1247-3.4	3,4		33	70	39	3,4
A1247-N029	3,454	No. 29	33	70	39	3,454
A1247-3.5	3,5		33	70	39	3,5
A1247-N028	3,569	No. 28	33	70	39	3,569
A1247-9/64IN	3,572	9/64"	33	70	39	3,572
A1247-3.6	3,6		33	70	39	3,6
A1247-N027	3,658	No. 27	33	70	39	3,658
A1247-3.7	3,7		33	70	39	3,7
A1247-N026	3,734	No. 26	33	70	39	3,734
A1247-N025	3,797	No. 25	36	75	43	3,797
A1247-3.8	3,8		36	75	43	3,8
A1247-N024	3,861	No. 24	36	75	43	3,861
A1247-3.9	3,9		36	75	43	3,9
A1247-N023	3,912	No. 23	36	75	43	3,912
A1247-5/32IN	3,969	5/32"	36	75	43	3,969
A1247-N022	3,988	No. 22	36	75	43	3,988
A1247-4	4		36	75	43	4
A1247-N021	4,039	No. 21	36	75	43	4,039
A1247-N020	4,089	No. 20	36	75	43	4,089
A1247-4.1	4,1		36	75	43	4,1

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1247-4.2	4,2		36	75	43	4,2
	A1247-N019	4,216	No. 19	36	75	43	4,216
	A1247-4.3	4,3		39	80	47	4,3
	A1247-N018	4,305	No. 18	39	80	47	4,305
	A1247-11/64IN	4,366	11/64"	39	80	47	4,366
	A1247-N017	4,394	No. 17	39	80	47	4,394
	A1247-4.4	4,4		39	80	47	4,4
	A1247-N016	4,496	No. 16	39	80	47	4,496
	A1247-4.5	4,5		39	80	47	4,5
	A1247-N015	4,572	No. 15	39	80	47	4,572
	A1247-4.6	4,6		39	80	47	4,6
	A1247-N014	4,623	No. 14	39	80	47	4,623
	A1247-N013	4,699	No. 13	39	80	47	4,699
	A1247-4.7	4,7		39	80	47	4,7
	A1247-3/16IN	4,763	3/16"	44	86	52	4,763
	A1247-4.8	4,8		44	86	52	4,8
	A1247-N012	4,801	No. 12	44	86	52	4,801
	A1247-N011	4,851	No. 11	44	86	52	4,851
	A1247-4.9	4,9		44	86	52	4,9
	A1247-N010	4,915	No. 10	44	86	52	4,915
	A1247-N09	4,978	No. 09	44	86	52	4,978
	A1247-5	5		44	86	52	5
	A1247-N08	5,055	No. 08	44	86	52	5,055
	A1247-5.1	5,1		44	86	52	5,1
	A1247-N07	5,105	No. 07	44	86	52	5,105
	A1247-13/64IN	5,159	13/64"	44	86	52	5,159
	A1247-N06	5,182	No. 06	44	86	52	5,182
	A1247-5.2	5,2		44	86	52	5,2
	A1247-N05	5,220	No. 05	44	86	52	5,22
	A1247-5.3	5,3		44	86	52	5,3
	A1247-N04	5,309	No. 04	48	93	57	5,309
	A1247-5.4	5,4		48	93	57	5,4
	A1247-N03	5,410	No. 03	48	93	57	5,41
	A1247-5.5	5,5		48	93	57	5,5
	A1247-7/32IN	5,556	7/32"	48	93	57	5,556
	A1247-5.6	5,6		48	93	57	5,6
	A1247-N02	5,613	No. 02	48	93	57	5,613
	A1247-5.7	5,7		48	93	57	5,7
	A1247-N01	5,791	No. 01	48	93	57	5,791
	A1247-5.8	5,8		48	93	57	5,8
	A1247-5.9	5,9		48	93	57	5,9
	A1247-15/64IN	5,953	15/64"	48	93	57	5,953
	A1247-6	6		48	93	57	6
	A1247-6.1	6,1		52	101	63	6,1
	A1247-6.2	6,2		52	101	63	6,2
	A1247-6.3	6,3		52	101	63	6,3

Cylindrical shank

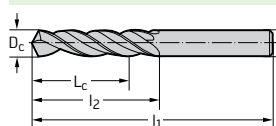
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Ferramenta ideal para condições de usinagem

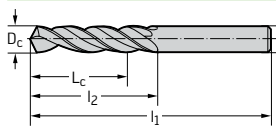
 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1247-1/4IN	6,350	1/4"	52	101	63	6,35
A1247-6.4	6,4		52	101	63	6,4
A1247-6.5	6,5		52	101	63	6,5
A1247-6.6	6,6		52	101	63	6,6
A1247-6.7	6,7		52	101	63	6,7
A1247-17/64IN	6,747	17/64"	57	109	69	6,747
A1247-6.8	6,8		57	109	69	6,8
A1247-6.9	6,9		57	109	69	6,9
A1247-7	7		57	109	69	7
A1247-7.1	7,1		57	109	69	7,1
A1247-9/32IN	7,144	9/32"	57	109	69	7,144
A1247-7.2	7,2		57	109	69	7,2
A1247-7.3	7,3		57	109	69	7,3
A1247-7.4	7,4		57	109	69	7,4
A1247-7.5	7,5		57	109	69	7,5
A1247-19/64IN	7,541	19/64"	62	117	75	7,541
A1247-7.6	7,6		62	117	75	7,6
A1247-7.7	7,7		62	117	75	7,7
A1247-7.8	7,8		62	117	75	7,8
A1247-7.9	7,9		62	117	75	7,9
A1247-5/16IN	7,938	5/16"	62	117	75	7,938
A1247-8	8		62	117	75	8
A1247-8.1	8,1		62	117	75	8,1
A1247-8.2	8,2		62	117	75	8,2
A1247-8.3	8,3		62	117	75	8,3
A1247-21/64IN	8,334	21/64"	62	117	75	8,334
A1247-8.4	8,4		62	117	75	8,4
A1247-8.5	8,5		62	117	75	8,5
A1247-8.6	8,6		66	125	81	8,6
A1247-8.7	8,7		66	125	81	8,7
A1247-11/32IN	8,731	11/32"	66	125	81	8,731
A1247-8.8	8,8		66	125	81	8,8
A1247-8.9	8,9		66	125	81	8,9
A1247-9	9		66	125	81	9
A1247-9.1	9,1		66	125	81	9,1
A1247-23/64IN	9,128	23/64"	66	125	81	9,128
A1247-9.2	9,2		66	125	81	9,2
A1247-9.3	9,3		66	125	81	9,3
A1247-9.4	9,4		66	125	81	9,4
A1247-9.5	9,5		66	125	81	9,5
A1247-3/8IN	9,525	3/8"	71	133	87	9,525
A1247-9.6	9,6		71	133	87	9,6
A1247-9.7	9,7		71	133	87	9,7
A1247-9.8	9,8		71	133	87	9,8
A1247-9.9	9,9		71	133	87	9,9
A1247-25/64IN	9,922	25/64"	71	133	87	9,922

Ferramenta		D_c h8 mm	D_c Inch/Nr	L_c mm	l_1 mm	l_2 mm	d_1 f11 mm
	Denominação						
	A1247-10	10		71	133	87	10
	A1247-10.2	10,2		71	133	87	10,2
	A1247-13/32IN	10,319	13/32"	71	133	87	10,319
	A1247-10.5	10,5		71	133	87	10,5
	A1247-27/64IN	10,716	27/64"	76	142	94	10,716
	A1247-10.8	10,8		76	142	94	10,8
	A1247-11	11		76	142	94	11
	A1247-7/16IN	11,113	7/16"	76	142	94	11,113
	A1247-11.2	11,2		76	142	94	11,2
	A1247-11.5	11,5		76	142	94	11,5
	A1247-29/64IN	11,509	29/64"	76	142	94	11,509
	A1247-11.8	11,8		76	142	94	11,8
	A1247-15/32IN	11,906	15/32"	87	151	101	11,906
	A1247-12	12		87	151	101	12
	A1247-31/64IN	12,303	31/64"	87	151	101	12,303
	A1247-12.5	12,5		87	151	101	12,5
	A1247-1/2IN	12,700	1/2"	87	151	101	12,7
	A1247-13	13		87	151	101	13
	A1247-13.1	13,1		87	151	101	13,1
	A1247-13.3	13,3		94	160	108	13,3
	A1247-13.5	13,5		94	160	108	13,5
	A1247-14	14		94	160	108	14
	A1247-14.5	14,5		99	169	114	14,5
	A1247-15	15		99	169	114	15
	A1247-15.1	15,1		104	178	120	15,1
	A1247-15.3	15,3		104	178	120	15,3
	A1247-15.5	15,5		104	178	120	15,5
	A1247-16	16		104	178	120	16

Cylindrical shank

B1

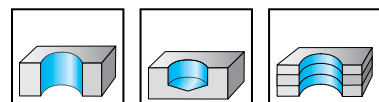
Brocas helicoidais de HSS-E

A1244

VA



– Disponíveis também em estojos



~8×D_c

DIN 338



130°

B1

	P	M	K	N	S	H	O
não revestido	●	●●	●	●	●●	●	●

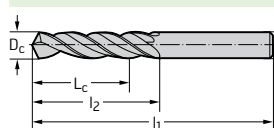
Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
Cylindrical shank	Denominação						
	A1244-0.3	0,3		2,5	19	3	0,3
	A1244-N080	0,343		3,4	19	4	0,343
	A1244-0.35	0,35		3,4	19	4	0,35
	A1244-1/64IN	0,397		4,2	20	5	0,397
	A1244-0.4	0,4		4,2	20	5	0,4
	A1244-N078	0,406		4,2	20	5	0,406
	A1244-0.45	0,45		4,2	20	5	0,45
	A1244-N077	0,457		4,2	20	5	0,457
	A1244-0.5	0,5		5,2	22	6	0,5
	A1244-N076	0,508	No.76	5,2	22	6	0,508
	A1244-N075	0,533		6,1	24	7	0,533
	A1244-0.55	0,55		6,1	24	7	0,55
	A1244-N074	0,572		6,1	24	7	0,572
	A1244-0.6	0,6		6,1	24	7	0,6
	A1244-N073	0,610		6,9	26	8	0,61
	A1244-N072	0,635	No.72	6,9	26	8	0,635
	A1244-0.65	0,65		6,9	26	8	0,65
	A1244-N071	0,660		6,9	26	8	0,66
	A1244-0.7	0,7		7,8	28	9	0,7
	A1244-N070	0,711		7,8	28	9	0,711
	A1244-N069	0,742		7,8	28	9	0,742
	A1244-0.75	0,75		7,8	28	9	0,75
	A1244-N068	0,787		8,7	30	10	0,787
	A1244-1/32IN	0,794	1/32"	8,7	30	10	0,794
	A1244-0.8	0,8		8,7	30	10	0,8
	A1244-N067	0,813		8,7	30	10	0,813
	A1244-N066	0,838		8,7	30	10	0,838
	A1244-0.85	0,85		8,7	30	10	0,85
	A1244-N065	0,889	No.65	9,5	32	11	0,889
	A1244-0.9	0,9		9,5	32	11	0,9
	A1244-N064	0,914		9,5	32	11	0,914
	A1244-N063	0,940		9,5	32	11	0,94
	A1244-0.95	0,95		9,5	32	11	0,95
	A1244-N062	0,965		10	34	12	0,965
	A1244-N061	0,991		10	34	12	0,991
	A1244-1	1		10	34	12	1

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = 😞

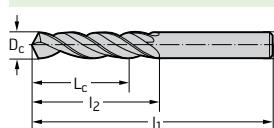
Ferramenta



Cylindrical shank

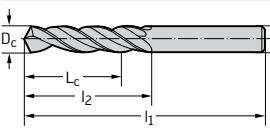
Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1244-N060	1,016	No. 60	10	34	12	1,016
A1244-N059	1,041	No. 59	10	34	12	1,041
A1244-1.05	1,05		10	34	12	1,05
A1244-N058	1,067	No. 58	12	36	14	1,067
A1244-N057	1,092	No. 57	12	36	14	1,092
A1244-1.1	1,1		12	36	14	1,1
A1244-1.15	1,15		12	36	14	1,15
A1244-N056	1,181	No. 56	14	38	16	1,181
A1244-3/64IN	1,191	3/64"	14	38	16	1,191
A1244-1.2	1,2		14	38	16	1,2
A1244-1.25	1,25		14	38	16	1,25
A1244-1.3	1,3		14	38	16	1,3
A1244-N055	1,321	No. 55	15	40	18	1,321
A1244-1.35	1,35		15	40	18	1,35
A1244-N054	1,397	No. 54	15	40	18	1,397
A1244-1.4	1,4		15	40	18	1,4
A1244-1.45	1,45		15	40	18	1,45
A1244-1.5	1,5		15	40	18	1,5
A1244-N053	1,511	No. 53	17	43	20	1,511
A1244-1.55	1,55		17	43	20	1,55
A1244-1/16IN	1,588	1/16"	17	43	20	1,588
A1244-1.6	1,6		17	43	20	1,6
A1244-N052	1,613	No. 52	17	43	20	1,613
A1244-1.65	1,65		17	43	20	1,65
A1244-1.7	1,7		17	43	20	1,7
A1244-N051	1,702	No. 51	19	46	22	1,702
A1244-1.75	1,75		19	46	22	1,75
A1244-N050	1,778	No. 50	19	46	22	1,778
A1244-1.8	1,8		19	46	22	1,8
A1244-1.85	1,85		19	46	22	1,85
A1244-N049	1,854	No. 49	19	46	22	1,854
A1244-1.9	1,9		19	46	22	1,9
A1244-N048	1,930	No. 48	20	49	24	1,93
A1244-1.95	1,95		20	49	24	1,95
A1244-5/64IN	1,984	5/64"	20	49	24	1,984
A1244-N047	1,994	No. 47	20	49	24	1,994
A1244-2	2		20	49	24	2
A1244-2.05	2,05		20	49	24	2,05
A1244-N046	2,057	No. 46	20	49	24	2,057
A1244-N045	2,083	No. 45	20	49	24	2,083
A1244-2.1	2,1		20	49	24	2,1
A1244-2.15	2,15		23	53	27	2,15
A1244-N044	2,184	No. 44	23	53	27	2,184
A1244-2.2	2,2		23	53	27	2,2
A1244-2.25	2,25		23	53	27	2,25
A1244-2.3	2,3		23	53	27	2,3

Ferramenta

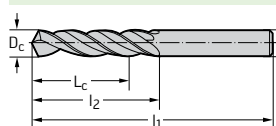


Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1244-2.35	2,35		23	53	27	2,35
A1244-N042	2,375	No. 42	26	57	30	2,375
A1244-3/32IN	2,381	3/32"	26	57	30	2,381
A1244-2.4	2,4		26	57	30	2,4
A1244-N041	2,438	No. 41	26	57	30	2,438
A1244-2.45	2,45		26	57	30	2,45
A1244-N040	2,489	No. 40	26	57	30	2,489
A1244-2.5	2,5		26	57	30	2,5
A1244-N039	2,527	No. 39	26	57	30	2,527
A1244-2.55	2,55		26	57	30	2,55
A1244-N038	2,578	No. 38	26	57	30	2,578
A1244-2.6	2,6		26	57	30	2,6
A1244-N037	2,642	No. 37	26	57	30	2,642
A1244-2.65	2,65		26	57	30	2,65
A1244-2.7	2,7		28	61	33	2,7
A1244-2.75	2,75		28	61	33	2,75
A1244-7/64IN	2,778	7/64"	28	61	33	2,778
A1244-2.8	2,8		28	61	33	2,8
A1244-N034	2,819	No. 34	28	61	33	2,819
A1244-2.85	2,85		28	61	33	2,85
A1244-N033	2,870	No. 33	28	61	33	2,87
A1244-2.9	2,9		28	61	33	2,9
A1244-N032	2,946	No. 32	28	61	33	2,946
A1244-2.95	2,95		28	61	33	2,95
A1244-3	3		28	61	33	3
A1244-N031	3,048	No. 31	30	65	36	3,048
A1244-3.1	3,1		30	65	36	3,1
A1244-1/8IN	3,175	1/8"	30	65	36	3,175
A1244-3.2	3,2		30	65	36	3,2
A1244-N030	3,264	No. 30	30	65	36	3,264
A1244-3.3	3,3		30	65	36	3,3
A1244-3.4	3,4		33	70	39	3,4
A1244-N029	3,454	No. 29	33	70	39	3,454
A1244-3.5	3,5		33	70	39	3,5
A1244-N028	3,569	No. 28	33	70	39	3,569
A1244-9/64IN	3,572	9/64"	33	70	39	3,572
A1244-3.6	3,6		33	70	39	3,6
A1244-3.65	3,65		33	70	39	3,65
A1244-N027	3,658	No. 27	33	70	39	3,658
A1244-3.7	3,7		33	70	39	3,7
A1244-N026	3,734	No. 26	33	70	39	3,734
A1244-N025	3,797	No. 25	36	75	43	3,797
A1244-3.8	3,8		36	75	43	3,8
A1244-N024	3,861	No. 24	36	75	43	3,861
A1244-3.9	3,9		36	75	43	3,9
A1244-N023	3,912	No. 23	36	75	43	3,912

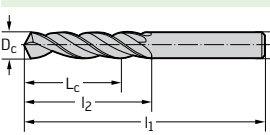
Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1244-5/32IN	3,969	5/32"	36	75	43	3,969
	A1244-4	4		36	75	43	4
	A1244-N021	4,039	No. 21	36	75	43	4,039
Cylindrical shank	A1244-N020	4,089	No. 20	36	75	43	4,089
	A1244-4.1	4,1		36	75	43	4,1
	A1244-4.2	4,2		36	75	43	4,2
	A1244-N019	4,216	No. 19	36	75	43	4,216
	A1244-4.3	4,3		39	80	47	4,3
	A1244-11/64IN	4,366	11/64"	39	80	47	4,366
	A1244-4.4	4,4		39	80	47	4,4
	A1244-4.5	4,5		39	80	47	4,5
	A1244-N015	4,572	No. 15	39	80	47	4,572
	A1244-4.6	4,6		39	80	47	4,6
	A1244-N014	4,623	No. 14	39	80	47	4,623
	A1244-4.7	4,7		39	80	47	4,7
	A1244-3/16IN	4,763	3/16"	44	86	52	4,763
	A1244-4.8	4,8		44	86	52	4,8
	A1244-N012	4,801	No. 12	44	86	52	4,801
	A1244-N011	4,851	No. 11	44	86	52	4,851
	A1244-4.9	4,9		44	86	52	4,9
	A1244-N010	4,915	No. 10	44	86	52	4,915
	A1244-N09	4,978	No. 09	44	86	52	4,978
	A1244-5	5		44	86	52	5
	A1244-N08	5,055	No. 08	44	86	52	5,055
	A1244-5.1	5,1		44	86	52	5,1
	A1244-N07	5,105	No. 07	44	86	52	5,105
	A1244-13/64IN	5,159	13/64"	44	86	52	5,159
	A1244-5.2	5,2		44	86	52	5,2
	A1244-N05	5,220	No. 05	44	86	52	5,22
	A1244-5.3	5,3		44	86	52	5,3
	A1244-5.4	5,4		48	93	57	5,4
	A1244-N03	5,410	No. 03	48	93	57	5,41
	A1244-5.5	5,5		48	93	57	5,5
	A1244-7/32IN	5,556	7/32"	48	93	57	5,556
	A1244-5.6	5,6		48	93	57	5,6
	A1244-N02	5,613	No. 02	48	93	57	5,613
	A1244-5.7	5,7		48	93	57	5,7
	A1244-5.8	5,8		48	93	57	5,8
	A1244-5.9	5,9		48	93	57	5,9
	A1244-6	6		48	93	57	6
	A1244-6.1	6,1		52	101	63	6,1
	A1244-6.2	6,2		52	101	63	6,2
	A1244-6.3	6,3		52	101	63	6,3
	A1244-1/4IN	6,350	1/4"	52	101	63	6,35
	A1244-6.4	6,4		52	101	63	6,4
	A1244-6.5	6,5		52	101	63	6,5

Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1244-6.6	6,6		52	101	63	6,6
A1244-6.7	6,7		52	101	63	6,7
A1244-17/64IN	6,747	17/64"	57	109	69	6,747
A1244-6.8	6,8		57	109	69	6,8
A1244-6.9	6,9		57	109	69	6,9
A1244-7	7		57	109	69	7
A1244-7.1	7,1		57	109	69	7,1
A1244-9/32IN	7,144	9/32"	57	109	69	7,144
A1244-7.2	7,2		57	109	69	7,2
A1244-7.3	7,3		57	109	69	7,3
A1244-7.4	7,4		57	109	69	7,4
A1244-7.5	7,5		57	109	69	7,5
A1244-19/64IN	7,541	19/64"	62	117	75	7,541
A1244-7.6	7,6		62	117	75	7,6
A1244-7.7	7,7		62	117	75	7,7
A1244-7.8	7,8		62	117	75	7,8
A1244-7.9	7,9		62	117	75	7,9
A1244-5/16IN	7,938	5/16"	62	117	75	7,938
A1244-8	8		62	117	75	8
A1244-8.1	8,1		62	117	75	8,1
A1244-8.2	8,2		62	117	75	8,2
A1244-8.3	8,3		62	117	75	8,3
A1244-21/64IN	8,334	21/64"	62	117	75	8,334
A1244-8.4	8,4		62	117	75	8,4
A1244-8.5	8,5		62	117	75	8,5
A1244-8.6	8,6		66	125	81	8,6
A1244-8.7	8,7		66	125	81	8,7
A1244-11/32IN	8,731	11/32"	66	125	81	8,731
A1244-8.8	8,8		66	125	81	8,8
A1244-8.9	8,9		66	125	81	8,9
A1244-9	9		66	125	81	9
A1244-9.1	9,1		66	125	81	9,1
A1244-9.2	9,2		66	125	81	9,2
A1244-9.3	9,3		66	125	81	9,3
A1244-9.4	9,4		66	125	81	9,4
A1244-9.5	9,5		66	125	81	9,5
A1244-3/8IN	9,525	3/8"	71	133	87	9,525
A1244-9.6	9,6		71	133	87	9,6
A1244-9.7	9,7		71	133	87	9,7
A1244-9.8	9,8		71	133	87	9,8
A1244-9.9	9,9		71	133	87	9,9
A1244-10	10		71	133	87	10
A1244-10.2	10,2		71	133	87	10,2
A1244-13/32IN	10,319	13/32"	71	133	87	10,319
A1244-10.5	10,5		71	133	87	10,5
A1244-27/64IN	10,716	27/64"	76	142	94	10,716

Ferramenta		D_c h8 mm	D_c Inch/Nr	L_c mm	l_1 mm	l_2 mm	d_1 f11 mm
	Denominação						
	A1244-11	11		76	142	94	11
	A1244-7/16IN	11,113	7/16"	76	142	94	11,113
	A1244-11.2	11,2		76	142	94	11,2
	A1244-11.5	11,5		76	142	94	11,5
Cylindrical shank	A1244-15/32IN	11,906	15/32"	87	151	101	11,906
	A1244-12	12		87	151	101	12
	A1244-31/64IN	12,303	31/64"	87	151	101	12,303
	A1244-12.5	12,5		87	151	101	12,5
	A1244-1/2IN	12,700	1/2"	87	151	101	12,7
	A1244-13	13		87	151	101	13
	A1244-33/64IN	13,097		87	151	101	13,097
	A1244-17/32IN	13,494	17/32"	94	160	108	13,494
	A1244-13.5	13,5		94	160	108	13,5
	A1244-35/64IN	13,891		94	160	108	13,891
	A1244-14	14		94	160	108	14
	A1244-9/16IN	14,288	9/16"	99	169	114	14,288
	A1244-14.5	14,5		99	169	114	14,5
	A1244-15	15		99	169	114	15

B1

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

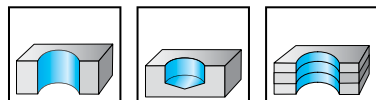
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Broca helicoidal HSS-E jogo A1244

Z3515



– Tipo VA



B1

Ferramenta



Denominação	D _{cmin} mm	D _{cmax} mm	Passo mm	Quantidade
Z3515-1-10.5	1	10,5	0,5	24

Corpo e componentes estão incluídos no escopo de fornecimento

**WALTER
SELECT**

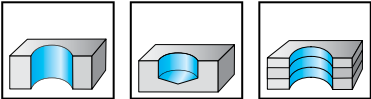
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Broca helicoidal HSS-E jogo A1244
Z3516



– Tipo VA



Ferramenta					
	Denominação	D _{cmin} mm	D _{cmax} mm	Passo mm	Quantidade
	Z3516-1-13	1	13	0,5	25

Corpo e componentes estão incluídos no escopo de fornecimento

Brocas para furação profunda de HSS

A1222

UFL®



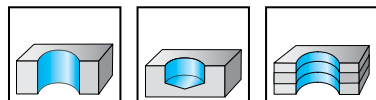
- Sem tratamento até 1,9 mm
- Disponíveis também em estojos

~8×D_c

DIN 338



130°



	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●

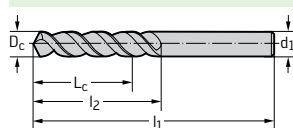
Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação						
	A1222-1	1		10	34	12	1
	A1222-N060	1,016	No. 60	10	34	12	1,016
	A1222-N059	1,041	No. 59	10	34	12	1,041
	A1222-N058	1,067	No. 58	12	36	14	1,067
	A1222-N057	1,092	No. 57	12	36	14	1,092
	A1222-1.1	1,1		12	36	14	1,1
	A1222-N056	1,181	No. 56	14	38	16	1,181
	A1222-3/64IN	1,191	3/64"	14	38	16	1,191
	A1222-1.2	1,2		14	38	16	1,2
	A1222-1.25	1,25		14	38	16	1,25
	A1222-1.3	1,3		14	38	16	1,3
	A1222-N055	1,321	No. 55	15	40	18	1,321
	A1222-N054	1,397	No. 54	15	40	18	1,397
	A1222-1.4	1,4		15	40	18	1,4
	A1222-1.5	1,5		15	40	18	1,5
	A1222-N053	1,511	No. 53	17	43	20	1,511
	A1222-1/16IN	1,588	1/16"	17	43	20	1,588
	A1222-1.6	1,6		17	43	20	1,6
	A1222-N052	1,613	No. 52	17	43	20	1,613
	A1222-1.7	1,7		17	43	20	1,7
	A1222-N051	1,702	No. 51	19	46	22	1,702
	A1222-N050	1,778	No. 50	19	46	22	1,778
	A1222-1.8	1,8		19	46	22	1,8
	A1222-N049	1,854	No. 49	19	46	22	1,854
	A1222-1.9	1,9		19	46	22	1,9
	A1222-N048	1,930	No. 48	20	49	24	1,93
	A1222-5/64IN	1,984	5/64"	20	49	24	1,984
	A1222-N047	1,994	No. 47	20	49	24	1,994
	A1222-2	2		20	49	24	2
	A1222-N046	2,057	No. 46	20	49	24	2,057
	A1222-N045	2,083	No. 45	20	49	24	2,083
	A1222-2.1	2,1		20	49	24	2,1
	A1222-N044	2,184	No. 44	23	53	27	2,184
	A1222-2.2	2,2		23	53	27	2,2
	A1222-N043	2,261	No. 43	23	53	27	2,261
	A1222-2.3	2,3		23	53	27	2,3

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

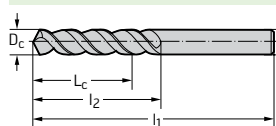
Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1222-N042	2,375	No. 42	26	57	30	2,375
A1222-3/32IN	2,381	3/32"	26	57	30	2,381
A1222-2.4	2,4		26	57	30	2,4
A1222-N041	2,438	No. 41	26	57	30	2,438
A1222-N040	2,489	No. 40	26	57	30	2,489
A1222-2.5	2,5		26	57	30	2,5
A1222-N039	2,527	No. 39	26	57	30	2,527
A1222-N038	2,578	No. 38	26	57	30	2,578
A1222-2.6	2,6		26	57	30	2,6
A1222-N037	2,642	No. 37	26	57	30	2,642
A1222-2.7	2,7		28	61	33	2,7
A1222-N036	2,705	No. 36	28	61	33	2,705
A1222-7/64IN	2,778	7/64"	28	61	33	2,778
A1222-N035	2,794	No. 35	28	61	33	2,794
A1222-2.8	2,8		28	61	33	2,8
A1222-N034	2,819	No. 34	28	61	33	2,819
A1222-N033	2,870	No. 33	28	61	33	2,87
A1222-2.9	2,9		28	61	33	2,9
A1222-N032	2,946	No. 32	28	61	33	2,946
A1222-3	3		28	61	33	3
A1222-N031	3,048	No. 31	30	65	36	3,048
A1222-3.1	3,1		30	65	36	3,1
A1222-1/8IN	3,175	1/8"	30	65	36	3,175
A1222-3.2	3,2		30	65	36	3,2
A1222-N030	3,264	No. 30	30	65	36	3,264
A1222-3.3	3,3		30	65	36	3,3
A1222-3.4	3,4		33	70	39	3,4
A1222-N029	3,454	No. 29	33	70	39	3,454
A1222-3.5	3,5		33	70	39	3,5
A1222-N028	3,569	No. 28	33	70	39	3,569
A1222-9/64IN	3,572	9/64"	33	70	39	3,572
A1222-3.6	3,6		33	70	39	3,6
A1222-N027	3,658	No. 27	33	70	39	3,658
A1222-3.7	3,7		33	70	39	3,7
A1222-N026	3,734	No. 26	33	70	39	3,734
A1222-N025	3,797	No. 25	36	75	43	3,797
A1222-3.8	3,8		36	75	43	3,8
A1222-N024	3,861	No. 24	36	75	43	3,861
A1222-3.9	3,9		36	75	43	3,9
A1222-N023	3,912	No. 23	36	75	43	3,912
A1222-5/32IN	3,969	5/32"	36	75	43	3,969
A1222-N022	3,988	No. 22	36	75	43	3,988
A1222-4	4		36	75	43	4
A1222-N021	4,039	No. 21	36	75	43	4,039
A1222-N020	4,089	No. 20	36	75	43	4,089
A1222-4.1	4,1		36	75	43	4,1

WALTER
SELECT

Ferramenta ideal para condições de usinagem

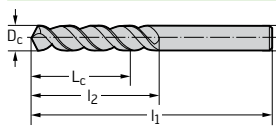
●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



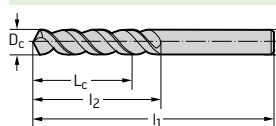
Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1222-4.2	4,2		36	75	43	4,2
A1222-N019	4,216	No. 19	36	75	43	4,216
A1222-4.3	4,3		39	80	47	4,3
A1222-N018	4,305	No. 18	39	80	47	4,305
A1222-11/64IN	4,366	11/64"	39	80	47	4,366
A1222-N017	4,394	No. 17	39	80	47	4,394
A1222-4.4	4,4		39	80	47	4,4
A1222-N016	4,496	No. 16	39	80	47	4,496
A1222-4.5	4,5		39	80	47	4,5
A1222-N015	4,572	No. 15	39	80	47	4,572
A1222-4.6	4,6		39	80	47	4,6
A1222-N014	4,623	No. 14	39	80	47	4,623
A1222-N013	4,699	No. 13	39	80	47	4,699
A1222-4.7	4,7		39	80	47	4,7
A1222-3/16IN	4,763	3/16"	44	86	52	4,763
A1222-4.8	4,8		44	86	52	4,8
A1222-N012	4,801	No. 12	44	86	52	4,801
A1222-N011	4,851	No. 11	44	86	52	4,851
A1222-4.9	4,9		44	86	52	4,9
A1222-N010	4,915	No. 10	44	86	52	4,915
A1222-N09	4,978	No. 09	44	86	52	4,978
A1222-5	5		44	86	52	5
A1222-N08	5,055	No. 08	44	86	52	5,055
A1222-5.1	5,1		44	86	52	5,1
A1222-N07	5,105	No. 07	44	86	52	5,105
A1222-13/64IN	5,159	13/64"	44	86	52	5,159
A1222-N06	5,182	No. 06	44	86	52	5,182
A1222-5.2	5,2		44	86	52	5,2
A1222-N05	5,220	No. 05	44	86	52	5,22
A1222-5.3	5,3		44	86	52	5,3
A1222-N04	5,309	No. 04	48	93	57	5,309
A1222-5.4	5,4		48	93	57	5,4
A1222-N03	5,410	No. 03	48	93	57	5,41
A1222-5.5	5,5		48	93	57	5,5
A1222-7/32IN	5,556	7/32"	48	93	57	5,556
A1222-5.6	5,6		48	93	57	5,6
A1222-N02	5,613	No. 02	48	93	57	5,613
A1222-5.7	5,7		48	93	57	5,7
A1222-N01	5,791	No. 01	48	93	57	5,791
A1222-5.8	5,8		48	93	57	5,8
A1222-5.9	5,9		48	93	57	5,9
A1222-LET.A	5,944	Let. A	48	93	57	5,944
A1222-15/64IN	5,953	15/64"	48	93	57	5,953
A1222-6	6		48	93	57	6
A1222-LET.B	6,045	Let. B	52	101	63	6,045
A1222-6.1	6,1		52	101	63	6,1

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1222-LET.C	6,147	Let. C	52	101	63	6,147
	A1222-6.2	6,2		52	101	63	6,2
	A1222-LET.D	6,248	Let. D	52	101	63	6,248
	A1222-6.3	6,3		52	101	63	6,3
	A1222-1/4IN	6,350	1/4"	52	101	63	6,35
	A1222-6.4	6,4		52	101	63	6,4
	A1222-6.5	6,5		52	101	63	6,5
	A1222-LET.F	6,528	Let. F	52	101	63	6,528
	A1222-6.6	6,6		52	101	63	6,6
	A1222-LET.G	6,629	Let. G	52	101	63	6,629
	A1222-6.7	6,7		52	101	63	6,7
	A1222-17/64IN	6,747	17/64"	57	109	69	6,747
	A1222-LET.H	6,756	Let. H	57	109	69	6,756
	A1222-6.8	6,8		57	109	69	6,8
	A1222-6.9	6,9		57	109	69	6,9
	A1222-LET.I	6,909	Let. I	57	109	69	6,909
	A1222-7	7		57	109	69	7
	A1222-LET.J	7,036	Let. J	57	109	69	7,036
	A1222-7.1	7,1		57	109	69	7,1
	A1222-LET.K	7,137	Let. K	57	109	69	7,137
	A1222-9/32IN	7,144	9/32"	57	109	69	7,144
	A1222-7.2	7,2		57	109	69	7,2
	A1222-7.3	7,3		57	109	69	7,3
	A1222-LET.L	7,366	Let. L	57	109	69	7,366
	A1222-7.4	7,4		57	109	69	7,4
	A1222-LET.M	7,493	Let. M	57	109	69	7,493
	A1222-7.5	7,5		57	109	69	7,5
	A1222-19/64IN	7,541	19/64"	62	117	75	7,541
	A1222-7.6	7,6		62	117	75	7,6
	A1222-LET.N	7,671	Let. N	62	117	75	7,671
	A1222-7.7	7,7		62	117	75	7,7
	A1222-7.8	7,8		62	117	75	7,8
	A1222-7.9	7,9		62	117	75	7,9
	A1222-5/16IN	7,938	5/16"	62	117	75	7,938
	A1222-8	8		62	117	75	8
	A1222-LET.O	8,026	Let. O	62	117	75	8,026
	A1222-8.1	8,1		62	117	75	8,1
	A1222-8.2	8,2		62	117	75	8,2
	A1222-LET.P	8,204	Let. P	62	117	75	8,204
	A1222-8.3	8,3		62	117	75	8,3
	A1222-21/64IN	8,334	21/64"	62	117	75	8,334
	A1222-8.4	8,4		62	117	75	8,4
	A1222-LET.Q	8,433	Let. Q	62	117	75	8,433
	A1222-8.5	8,5		62	117	75	8,5
	A1222-8.6	8,6		66	125	81	8,6
	A1222-LET.R	8,611	Let. R	66	125	81	8,611

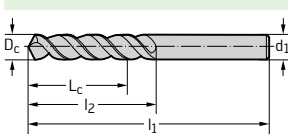
Cylindrical shank

Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1222-8.7	8,7		66	125	81	8,7
A1222-11/32IN	8,731	11/32"	66	125	81	8,731
A1222-8.8	8,8		66	125	81	8,8
A1222-LET.S	8,839	Let. S	66	125	81	8,839
A1222-8.9	8,9		66	125	81	8,9
A1222-9	9		66	125	81	9
A1222-LET.T	9,093	Let. T	66	125	81	9,093
A1222-9.1	9,1		66	125	81	9,1
A1222-23/64IN	9,128	23/64"	66	125	81	9,128
A1222-9.2	9,2		66	125	81	9,2
A1222-9.3	9,3		66	125	81	9,3
A1222-LET.U	9,347	Let. U	66	125	81	9,347
A1222-9.4	9,4		66	125	81	9,4
A1222-9.5	9,5		66	125	81	9,5
A1222-3/8IN	9,525	3/8"	71	133	87	9,525
A1222-LET.V	9,576	Let. V	71	133	87	9,576
A1222-9.6	9,6		71	133	87	9,6
A1222-9.7	9,7		71	133	87	9,7
A1222-9.8	9,8		71	133	87	9,8
A1222-LET.W	9,804	Let. W	71	133	87	9,804
A1222-9.9	9,9		71	133	87	9,9
A1222-25/64IN	9,922	25/64"	71	133	87	9,922
A1222-10	10		71	133	87	10
A1222-LET.X	10,084	Let. X	71	133	87	10,084
A1222-10.2	10,2		71	133	87	10,2
A1222-LET.Y	10,262	Let. Y	71	133	87	10,262
A1222-13/32IN	10,319	13/32"	71	133	87	10,319
A1222-LET.Z	10,490	Let. Z	71	133	87	10,49
A1222-10.5	10,5		71	133	87	10,5
A1222-27/64IN	10,716	27/64"	76	142	94	10,716
A1222-10.8	10,8		76	142	94	10,8
A1222-11	11		76	142	94	11
A1222-7/16IN	11,113	7/16"	76	142	94	11,113
A1222-11.2	11,2		76	142	94	11,2
A1222-11.5	11,5		76	142	94	11,5
A1222-29/64IN	11,509	29/64"	76	142	94	11,509
A1222-11.8	11,8		76	142	94	11,8
A1222-15/32IN	11,906	15/32"	87	151	101	11,906
A1222-12	12		87	151	101	12
A1222-31/64IN	12,303	31/64"	87	151	101	12,303
A1222-12.5	12,5		87	151	101	12,5
A1222-1/2IN	12,700	1/2"	87	151	101	12,7
A1222-13	13		87	151	101	13
A1222-33/64IN	13,097		87	151	101	13,097
A1222-13.1	13,1		87	151	101	13,1
A1222-13.3	13,3		94	160	108	13,3

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm	
 Cylindrical shank	Denominação	A1222-17/32IN	13,494	17/32"	94	160	108	13,494
	A1222-13.5	13,5		94	160	108	13,5	
	A1222-35/64IN	13,891		94	160	108	13,891	
	A1222-14	14		94	160	108	14	
	A1222-9/16IN	14,288	9/16"	99	169	114	14,288	
	A1222-14.5	14,5		99	169	114	14,5	
	A1222-37/64IN	14,684	37/64"	99	169	114	14,684	
	A1222-15	15		99	169	114	15	
	A1222-19/32IN	15,081	19/32"	104	178	120	15,081	
	A1222-15.1	15,1		104	178	120	15,1	
	A1222-15.3	15,3		104	178	120	15,3	
	A1222-39/64IN	15,478	39/64"	104	178	120	15,478	
	A1222-15.5	15,5		104	178	120	15,5	
	A1222-5/8IN	15,875	5/8"	104	178	120	15,875	
	A1222-16	16		104	178	120	16	

B1

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

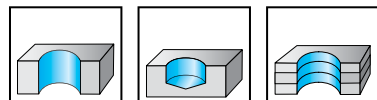
→ boas = 😊 → medianas = 😐 → ruins = 😞

Brocas helicoidais de HSS

A1211TIN / A1211



– Disponíveis também em estojos
– Tipo N



B1

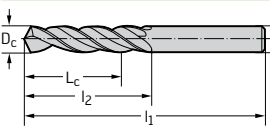
	P	M	K	N	S	H	O
TIN	●	●	●	●	●	●	●
não revestido	●	●	●	●	●	●	●

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação						
	A1211TIN-0.5	0,5		5,2	22	6	0,5
	A1211TIN-0.6	0,6		6,1	24	7	0,6
	A1211TIN-0.7	0,7		7,8	28	9	0,7
	A1211TIN-0.8	0,8		8,7	30	10	0,8
	A1211TIN-0.9	0,9		9,5	32	11	0,9
	A1211TIN-1	1		10	34	12	1
	A1211TIN-1.1	1,1		12	36	14	1,1
	A1211TIN-1.2	1,2		14	38	16	1,2
	A1211TIN-1.3	1,3		14	38	16	1,3
	A1211TIN-1.4	1,4		15	40	18	1,4
	A1211TIN-1.5	1,5		15	40	18	1,5
	A1211TIN-1.6	1,6		17	43	20	1,6
	A1211TIN-1.7	1,7		17	43	20	1,7
	A1211TIN-1.8	1,8		19	46	22	1,8
	A1211TIN-1.9	1,9		19	46	22	1,9
	A1211TIN-2	2		20	49	24	2
	A1211TIN-2.1	2,1		20	49	24	2,1
	A1211TIN-2.2	2,2		23	53	27	2,2
	A1211TIN-2.3	2,3		23	53	27	2,3
	A1211TIN-2.4	2,4		26	57	30	2,4
	A1211TIN-2.5	2,5		26	57	30	2,5
	A1211TIN-2.6	2,6		26	57	30	2,6
	A1211TIN-2.7	2,7		28	61	33	2,7
	A1211TIN-2.8	2,8		28	61	33	2,8
	A1211TIN-2.9	2,9		28	61	33	2,9
	A1211TIN-3	3		28	61	33	3
	A1211TIN-3.1	3,1		30	65	36	3,1
	A1211TIN-3.2	3,2		30	65	36	3,2
	A1211TIN-3.3	3,3		30	65	36	3,3
	A1211TIN-3.4	3,4		33	70	39	3,4
	A1211TIN-3.5	3,5		33	70	39	3,5
	A1211TIN-3.6	3,6		33	70	39	3,6
	A1211TIN-3.7	3,7		33	70	39	3,7
	A1211TIN-3.8	3,8		36	75	43	3,8
	A1211TIN-3.9	3,9		36	75	43	3,9
	A1211TIN-4	4		36	75	43	4

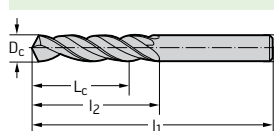
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

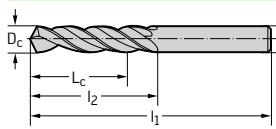
Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1211TIN-4.1	4,1		36	75	43	4,1
	A1211TIN-4.2	4,2		36	75	43	4,2
	A1211TIN-4.3	4,3		39	80	47	4,3
Cylindrical shank	A1211TIN-4.4	4,4		39	80	47	4,4
	A1211TIN-4.5	4,5		39	80	47	4,5
	A1211TIN-4.6	4,6		39	80	47	4,6
	A1211TIN-4.7	4,7		39	80	47	4,7
	A1211TIN-4.8	4,8		44	86	52	4,8
	A1211TIN-4.9	4,9		44	86	52	4,9
	A1211TIN-5	5		44	86	52	5
	A1211TIN-5.1	5,1		44	86	52	5,1
	A1211TIN-5.2	5,2		44	86	52	5,2
	A1211TIN-5.3	5,3		44	86	52	5,3
	A1211TIN-5.4	5,4		48	93	57	5,4
	A1211TIN-5.5	5,5		48	93	57	5,5
	A1211TIN-5.6	5,6		48	93	57	5,6
	A1211TIN-5.7	5,7		48	93	57	5,7
	A1211TIN-5.8	5,8		48	93	57	5,8
	A1211TIN-5.9	5,9		48	93	57	5,9
	A1211TIN-6	6		48	93	57	6
	A1211TIN-6.1	6,1		52	101	63	6,1
	A1211TIN-6.2	6,2		52	101	63	6,2
	A1211TIN-6.3	6,3		52	101	63	6,3
	A1211TIN-6.4	6,4		52	101	63	6,4
	A1211TIN-6.5	6,5		52	101	63	6,5
	A1211TIN-6.6	6,6		52	101	63	6,6
	A1211TIN-6.7	6,7		52	101	63	6,7
	A1211TIN-6.8	6,8		57	109	69	6,8
	A1211TIN-6.9	6,9		57	109	69	6,9
	A1211TIN-7	7		57	109	69	7
	A1211TIN-7.1	7,1		57	109	69	7,1
	A1211TIN-7.2	7,2		57	109	69	7,2
	A1211TIN-7.3	7,3		57	109	69	7,3
	A1211TIN-7.4	7,4		57	109	69	7,4
	A1211TIN-7.5	7,5		57	109	69	7,5
	A1211TIN-7.6	7,6		62	117	75	7,6
	A1211TIN-7.7	7,7		62	117	75	7,7
	A1211TIN-7.8	7,8		62	117	75	7,8
	A1211TIN-7.9	7,9		62	117	75	7,9
	A1211TIN-8	8		62	117	75	8
	A1211TIN-8.1	8,1		62	117	75	8,1
	A1211TIN-8.2	8,2		62	117	75	8,2
	A1211TIN-8.3	8,3		62	117	75	8,3
	A1211TIN-8.4	8,4		62	117	75	8,4
	A1211TIN-8.5	8,5		62	117	75	8,5
	A1211TIN-8.6	8,6		66	125	81	8,6

Ferramenta

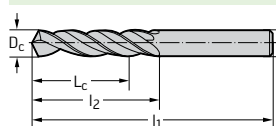


Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1211TIN-8.7	8,7		66	125	81	8,7
A1211TIN-8.8	8,8		66	125	81	8,8
A1211TIN-8.9	8,9		66	125	81	8,9
A1211TIN-9	9		66	125	81	9
A1211TIN-9.1	9,1		66	125	81	9,1
A1211TIN-9.2	9,2		66	125	81	9,2
A1211TIN-9.3	9,3		66	125	81	9,3
A1211TIN-9.4	9,4		66	125	81	9,4
A1211TIN-9.5	9,5		66	125	81	9,5
A1211TIN-9.6	9,6		71	133	87	9,6
A1211TIN-9.7	9,7		71	133	87	9,7
A1211TIN-9.8	9,8		71	133	87	9,8
A1211TIN-9.9	9,9		71	133	87	9,9
A1211TIN-10	10		71	133	87	10
A1211TIN-10.2	10,2		71	133	87	10,2
A1211TIN-10.5	10,5		71	133	87	10,5
A1211TIN-11	11		76	142	94	11
A1211TIN-11.5	11,5		76	142	94	11,5
A1211TIN-12	12		87	151	101	12
A1211TIN-12.5	12,5		87	151	101	12,5
A1211TIN-13	13		87	151	101	13
A1211TIN-13.5	13,5		94	160	108	13,5
A1211TIN-14	14		94	160	108	14
A1211TIN-14.5	14,5		99	169	114	14,5
A1211TIN-15	15		99	169	114	15
A1211TIN-16	16		104	178	120	16
A1211-0.2	0,2		2,1	19	2,5	0,2
A1211-0.22	0,22		2,1	19	2,5	0,22
A1211-0.23	0,23		2,1	19	2,5	0,23
A1211-0.25	0,25		2,5	19	3	0,25
A1211-0.27	0,27		2,5	19	3	0,27
A1211-0.28	0,28		2,5	19	3	0,28
A1211-0.29	0,29		2,5	19	3	0,29
A1211-0.3	0,3		2,5	19	3	0,3
A1211-0.31	0,31		3,4	19	4	0,31
A1211-N082	0,318		3,4	19	4	0,318
A1211-0.32	0,32		3,4	19	4	0,32
A1211-0.33	0,33		3,4	19	4	0,33
A1211-0.34	0,34		3,4	19	4	0,34
A1211-N080	0,343		3,4	19	4	0,343
A1211-0.35	0,35		3,4	19	4	0,35
A1211-N079	0,368		3,4	19	4	0,368
A1211-0.38	0,38		3,4	19	4	0,38
A1211-1/64IN	0,397		4,2	20	5	0,397
A1211-0.4	0,4		4,2	20	5	0,4
A1211-N078	0,406		4,2	20	5	0,406

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1211-0.42	0,42		4,2	20	5	0,42
	A1211-0.43	0,43		4,2	20	5	0,43
	A1211-0.45	0,45		4,2	20	5	0,45
Cylindrical shank	A1211-N077	0,457		4,2	20	5	0,457
	A1211-0.47	0,47		4,2	20	5	0,47
	A1211-0.48	0,48		4,2	20	5	0,48
	A1211-0.49	0,49		5,2	22	6	0,49
	A1211-0.5	0,5		5,2	22	6	0,5
	A1211-N076	0,508	No.76	5,2	22	6	0,508
	A1211-0.51	0,51		5,2	22	6	0,51
	A1211-0.52	0,52		5,2	22	6	0,52
	A1211-0.53	0,53		5,2	22	6	0,53
	A1211-N075	0,533		6,1	24	7	0,533
	A1211-0.54	0,54		6,1	24	7	0,54
	A1211-0.55	0,55		6,1	24	7	0,55
	A1211-0.57	0,57		6,1	24	7	0,57
	A1211-N074	0,572		6,1	24	7	0,572
	A1211-0.58	0,58		6,1	24	7	0,58
	A1211-0.59	0,59		6,1	24	7	0,59
	A1211-0.6	0,6		6,1	24	7	0,6
	A1211-N073	0,610		6,9	26	8	0,61
	A1211-0.62	0,62		6,9	26	8	0,62
	A1211-0.63	0,63		6,9	26	8	0,63
	A1211-N072	0,635	No.72	6,9	26	8	0,635
	A1211-0.65	0,65		6,9	26	8	0,65
	A1211-N071	0,660		6,9	26	8	0,66
	A1211-0.67	0,67		6,9	26	8	0,67
	A1211-0.68	0,68		7,8	28	9	0,68
	A1211-0.7	0,7		7,8	28	9	0,7
	A1211-N070	0,711		7,8	28	9	0,711
	A1211-0.72	0,72		7,8	28	9	0,72
	A1211-0.73	0,73		7,8	28	9	0,73
	A1211-N069	0,742		7,8	28	9	0,742
	A1211-0.75	0,75		7,8	28	9	0,75
	A1211-0.76	0,76		8,7	30	10	0,76
	A1211-0.78	0,78		8,7	30	10	0,78
	A1211-N068	0,787		8,7	30	10	0,787
	A1211-1/32IN	0,794	1/32"	8,7	30	10	0,794
	A1211-0.8	0,8		8,7	30	10	0,8
	A1211-0.81	0,81		8,7	30	10	0,81
	A1211-N067	0,813		8,7	30	10	0,813
	A1211-0.82	0,82		8,7	30	10	0,82
	A1211-0.83	0,83		8,7	30	10	0,83
	A1211-N066	0,838		8,7	30	10	0,838
	A1211-0.85	0,85		8,7	30	10	0,85
	A1211-0.87	0,87		9,5	32	11	0,87

Ferramenta



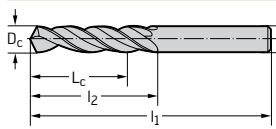
Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1211-0.88	0,88		9,5	32	11	0,88
A1211-N065	0,889	No.65	9,5	32	11	0,889
A1211-0.9	0,9		9,5	32	11	0,9
A1211-0.91	0,91		9,5	32	11	0,91
A1211-N064	0,914		9,5	32	11	0,914
A1211-0.92	0,92		9,5	32	11	0,92
A1211-N063	0,940		9,5	32	11	0,94
A1211-0.95	0,95		9,5	32	11	0,95
A1211-0.96	0,96		10	34	12	0,96
A1211-N062	0,965		10	34	12	0,965
A1211-0.97	0,97		10	34	12	0,97
A1211-0.98	0,98		10	34	12	0,98
A1211-0.99	0,99		10	34	12	0,99
A1211-N061	0,991		10	34	12	0,991
A1211-1	1		10	34	12	1
A1211-1.01	1,01		10	34	12	1,01
A1211-N060	1,016	No. 60	10	34	12	1,016
A1211-1.02	1,02		10	34	12	1,02
A1211-1.03	1,03		10	34	12	1,03
A1211-1.04	1,04		10	34	12	1,04
A1211-N059	1,041	No. 59	10	34	12	1,041
A1211-1.05	1,05		10	34	12	1,05
A1211-N058	1,067	No. 58	12	36	14	1,067
A1211-N057	1,092	No. 57	12	36	14	1,092
A1211-1.1	1,1		12	36	14	1,1
A1211-1.12	1,12		12	36	14	1,12
A1211-1.13	1,13		12	36	14	1,13
A1211-1.15	1,15		12	36	14	1,15
A1211-1.18	1,18		12	36	14	1,18
A1211-N056	1,181	No. 56	14	38	16	1,181
A1211-3/64IN	1,191	3/64"	14	38	16	1,191
A1211-1.2	1,2		14	38	16	1,2
A1211-1.21	1,21		14	38	16	1,21
A1211-1.22	1,22		14	38	16	1,22
A1211-1.23	1,23		14	38	16	1,23
A1211-1.24	1,24		14	38	16	1,24
A1211-1.25	1,25		14	38	16	1,25
A1211-1.27	1,27		14	38	16	1,27
A1211-1.28	1,28		14	38	16	1,28
A1211-1.3	1,3		14	38	16	1,3
A1211-N055	1,321	No. 55	15	40	18	1,321
A1211-1.33	1,33		15	40	18	1,33
A1211-1.35	1,35		15	40	18	1,35
A1211-1.36	1,36		15	40	18	1,36
A1211-1.37	1,37		15	40	18	1,37
A1211-N054	1,397	No. 54	15	40	18	1,397

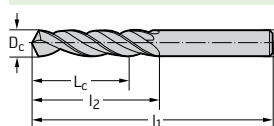
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

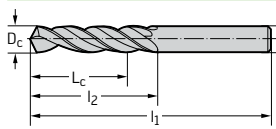
Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1211-1.4	1,4		15	40	18	1,4
	A1211-1.42	1,42		15	40	18	1,42
	A1211-1.43	1,43		15	40	18	1,43
	A1211-1.45	1,45		15	40	18	1,45
Cylindrical shank	A1211-1.49	1,49		15	40	18	1,49
	A1211-1.5	1,5		15	40	18	1,5
	A1211-1.51	1,51		17	43	20	1,51
	A1211-N053	1,511	No. 53	17	43	20	1,511
	A1211-1.52	1,52		17	43	20	1,52
	A1211-1.53	1,53		17	43	20	1,53
	A1211-1.55	1,55		17	43	20	1,55
	A1211-1.57	1,57		17	43	20	1,57
	A1211-1/16IN	1,588	1/16"	17	43	20	1,588
	A1211-1.6	1,6		17	43	20	1,6
	A1211-N052	1,613	No. 52	17	43	20	1,613
	A1211-1.63	1,63		17	43	20	1,63
	A1211-1.65	1,65		17	43	20	1,65
	A1211-1.7	1,7		17	43	20	1,7
	A1211-N051	1,702	No. 51	19	46	22	1,702
	A1211-1.75	1,75		19	46	22	1,75
	A1211-N050	1,778	No. 50	19	46	22	1,778
	A1211-1.8	1,8		19	46	22	1,8
	A1211-1.85	1,85		19	46	22	1,85
	A1211-N049	1,854	No. 49	19	46	22	1,854
	A1211-1.9	1,9		19	46	22	1,9
	A1211-N048	1,930	No. 48	20	49	24	1,93
	A1211-1.95	1,95		20	49	24	1,95
	A1211-5/64IN	1,984	5/64"	20	49	24	1,984
	A1211-N047	1,994	No. 47	20	49	24	1,994
	A1211-2	2		20	49	24	2
	A1211-2.05	2,05		20	49	24	2,05
	A1211-N046	2,057	No. 46	20	49	24	2,057
	A1211-N045	2,083	No. 45	20	49	24	2,083
	A1211-2.1	2,1		20	49	24	2,1
	A1211-2.15	2,15		23	53	27	2,15
	A1211-N044	2,184	No. 44	23	53	27	2,184
	A1211-2.2	2,2		23	53	27	2,2
	A1211-2.25	2,25		23	53	27	2,25
	A1211-N043	2,261	No. 43	23	53	27	2,261
	A1211-2.3	2,3		23	53	27	2,3
	A1211-2.35	2,35		23	53	27	2,35
	A1211-N042	2,375	No. 42	26	57	30	2,375
	A1211-3/32IN	2,381	3/32"	26	57	30	2,381
	A1211-2.4	2,4		26	57	30	2,4
	A1211-N041	2,438	No. 41	26	57	30	2,438
	A1211-2.45	2,45		26	57	30	2,45

Ferramenta



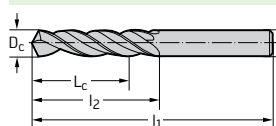
Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1211-N040	2,489	No. 40	26	57	30	2,489
A1211-2.5	2,5		26	57	30	2,5
A1211-N039	2,527	No. 39	26	57	30	2,527
A1211-2.55	2,55		26	57	30	2,55
A1211-N038	2,578	No. 38	26	57	30	2,578
A1211-2.6	2,6		26	57	30	2,6
A1211-N037	2,642	No. 37	26	57	30	2,642
A1211-2.65	2,65		26	57	30	2,65
A1211-2.7	2,7		28	61	33	2,7
A1211-N036	2,705	No. 36	28	61	33	2,705
A1211-2.75	2,75		28	61	33	2,75
A1211-7/64IN	2,778	7/64"	28	61	33	2,778
A1211-N035	2,794	No. 35	28	61	33	2,794
A1211-2.8	2,8		28	61	33	2,8
A1211-N034	2,819	No. 34	28	61	33	2,819
A1211-2.85	2,85		28	61	33	2,85
A1211-N033	2,870	No. 33	28	61	33	2,87
A1211-2.9	2,9		28	61	33	2,9
A1211-N032	2,946	No. 32	28	61	33	2,946
A1211-2.95	2,95		28	61	33	2,95
A1211-3	3		28	61	33	3
A1211-N031	3,048	No. 31	30	65	36	3,048
A1211-3.05	3,05		30	65	36	3,05
A1211-3.1	3,1		30	65	36	3,1
A1211-3.15	3,15		30	65	36	3,15
A1211-1/8IN	3,175	1/8"	30	65	36	3,175
A1211-3.2	3,2		30	65	36	3,2
A1211-3.25	3,25		30	65	36	3,25
A1211-N030	3,264	No. 30	30	65	36	3,264
A1211-3.3	3,3		30	65	36	3,3
A1211-3.35	3,35		30	65	36	3,35
A1211-3.4	3,4		33	70	39	3,4
A1211-3.45	3,45		33	70	39	3,45
A1211-N029	3,454	No. 29	33	70	39	3,454
A1211-3.5	3,5		33	70	39	3,5
A1211-3.55	3,55		33	70	39	3,55
A1211-N028	3,569	No. 28	33	70	39	3,569
A1211-9/64IN	3,572	9/64"	33	70	39	3,572
A1211-3.6	3,6		33	70	39	3,6
A1211-3.65	3,65		33	70	39	3,65
A1211-N027	3,658	No. 27	33	70	39	3,658
A1211-3.7	3,7		33	70	39	3,7
A1211-N026	3,734	No. 26	33	70	39	3,734
A1211-3.75	3,75		33	70	39	3,75
A1211-N025	3,797	No. 25	36	75	43	3,797
A1211-3.8	3,8		36	75	43	3,8

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1211-N024	3,861	No. 24	36	75	43	3,861
	A1211-3.9	3,9		36	75	43	3,9
	A1211-N023	3,912	No. 23	36	75	43	3,912
	A1211-3.95	3,95		36	75	43	3,95
	A1211-5/32IN	3,969	5/32"	36	75	43	3,969
	A1211-N022	3,988	No. 22	36	75	43	3,988
	A1211-4	4		36	75	43	4
	A1211-N021	4,039	No. 21	36	75	43	4,039
	A1211-4.05	4,05		36	75	43	4,05
	A1211-N020	4,089	No. 20	36	75	43	4,089
	A1211-4.1	4,1		36	75	43	4,1
	A1211-4.15	4,15		36	75	43	4,15
	A1211-4.2	4,2		36	75	43	4,2
	A1211-N019	4,216	No. 19	36	75	43	4,216
	A1211-4.25	4,25		36	75	43	4,25
	A1211-4.3	4,3		39	80	47	4,3
	A1211-N018	4,305	No. 18	39	80	47	4,305
	A1211-4.35	4,35		39	80	47	4,35
	A1211-11/64IN	4,366	11/64"	39	80	47	4,366
	A1211-N017	4,394	No. 17	39	80	47	4,394
	A1211-4.4	4,4		39	80	47	4,4
	A1211-4.45	4,45		39	80	47	4,45
	A1211-N016	4,496	No. 16	39	80	47	4,496
	A1211-4.5	4,5		39	80	47	4,5
	A1211-4.55	4,55		39	80	47	4,55
	A1211-N015	4,572	No. 15	39	80	47	4,572
	A1211-4.6	4,6		39	80	47	4,6
	A1211-N014	4,623	No. 14	39	80	47	4,623
	A1211-4.65	4,65		39	80	47	4,65
	A1211-N013	4,699	No. 13	39	80	47	4,699
	A1211-4.7	4,7		39	80	47	4,7
	A1211-4.75	4,75		39	80	47	4,75
	A1211-3/16IN	4,763	3/16"	44	86	52	4,763
	A1211-4.8	4,8		44	86	52	4,8
	A1211-N012	4,801	No. 12	44	86	52	4,801
	A1211-4.85	4,85		44	86	52	4,85
	A1211-N011	4,851	No. 11	44	86	52	4,851
	A1211-4.9	4,9		44	86	52	4,9
	A1211-N010	4,915	No. 10	44	86	52	4,915
	A1211-4.95	4,95		44	86	52	4,95
	A1211-N09	4,978	No. 09	44	86	52	4,978
	A1211-5	5		44	86	52	5
	A1211-5.05	5,05		44	86	52	5,05
	A1211-N08	5,055	No. 08	44	86	52	5,055
	A1211-5.1	5,1		44	86	52	5,1
	A1211-N07	5,105	No. 07	44	86	52	5,105

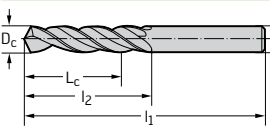
Cylindrical shank

Ferramenta



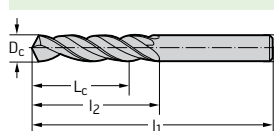
Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1211-5.15	5,15		44	86	52	5,15
A1211-13/64IN	5,159	13/64"	44	86	52	5,159
A1211-N06	5,182	No. 06	44	86	52	5,182
A1211-5.2	5,2		44	86	52	5,2
A1211-N05	5,220	No. 05	44	86	52	5,22
A1211-5.25	5,25		44	86	52	5,25
A1211-5.3	5,3		44	86	52	5,3
A1211-N04	5,309	No. 04	48	93	57	5,309
A1211-5.4	5,4		48	93	57	5,4
A1211-N03	5,410	No. 03	48	93	57	5,41
A1211-5.5	5,5		48	93	57	5,5
A1211-5.55	5,55		48	93	57	5,55
A1211-7/32IN	5,556	7/32"	48	93	57	5,556
A1211-5.6	5,6		48	93	57	5,6
A1211-N02	5,613	No. 02	48	93	57	5,613
A1211-5.7	5,7		48	93	57	5,7
A1211-5.75	5,75		48	93	57	5,75
A1211-N01	5,791	No. 01	48	93	57	5,791
A1211-5.8	5,8		48	93	57	5,8
A1211-5.9	5,9		48	93	57	5,9
A1211-LET.A	5,944	Let. A	48	93	57	5,944
A1211-5.95	5,95		48	93	57	5,95
A1211-15/64IN	5,953	15/64"	48	93	57	5,953
A1211-6	6		48	93	57	6
A1211-LET.B	6,045	Let. B	52	101	63	6,045
A1211-6.05	6,05		52	101	63	6,05
A1211-6.1	6,1		52	101	63	6,1
A1211-LET.C	6,147	Let. C	52	101	63	6,147
A1211-6.15	6,15		52	101	63	6,15
A1211-6.2	6,2		52	101	63	6,2
A1211-LET.D	6,248	Let. D	52	101	63	6,248
A1211-6.25	6,25		52	101	63	6,25
A1211-6.3	6,3		52	101	63	6,3
A1211-1/4IN	6,350	1/4"	52	101	63	6,35
A1211-6.4	6,4		52	101	63	6,4
A1211-6.45	6,45		52	101	63	6,45
A1211-6.5	6,5		52	101	63	6,5
A1211-LET.F	6,528	Let. F	52	101	63	6,528
A1211-6.55	6,55		52	101	63	6,55
A1211-6.6	6,6		52	101	63	6,6
A1211-LET.G	6,629	Let. G	52	101	63	6,629
A1211-6.65	6,65		52	101	63	6,65
A1211-6.7	6,7		52	101	63	6,7
A1211-17/64IN	6,747	17/64"	57	109	69	6,747
A1211-6.75	6,75		57	109	69	6,75
A1211-LET.H	6,756	Let. H	57	109	69	6,756

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1211-6.8	6,8		57	109	69	6,8
	A1211-6.9	6,9		57	109	69	6,9
	A1211-LET.I	6,909	Let. I	57	109	69	6,909
	A1211-7	7		57	109	69	7
	A1211-LET.J	7,036	Let. J	57	109	69	7,036
	A1211-7.05	7,05		57	109	69	7,05
	A1211-7.1	7,1		57	109	69	7,1
	A1211-LET.K	7,137	Let. K	57	109	69	7,137
	A1211-9/32IN	7,144	9/32"	57	109	69	7,144
	A1211-7.2	7,2		57	109	69	7,2
	A1211-7.25	7,25		57	109	69	7,25
	A1211-7.3	7,3		57	109	69	7,3
	A1211-LET.L	7,366	Let. L	57	109	69	7,366
	A1211-7.4	7,4		57	109	69	7,4
	A1211-LET.M	7,493	Let. M	57	109	69	7,493
	A1211-7.5	7,5		57	109	69	7,5
	A1211-19/64IN	7,541	19/64"	62	117	75	7,541
	A1211-7.6	7,6		62	117	75	7,6
	A1211-LET.N	7,671	Let. N	62	117	75	7,671
	A1211-7.7	7,7		62	117	75	7,7
	A1211-7.75	7,75		62	117	75	7,75
	A1211-7.8	7,8		62	117	75	7,8
	A1211-7.9	7,9		62	117	75	7,9
	A1211-5/16IN	7,938	5/16"	62	117	75	7,938
	A1211-8	8		62	117	75	8
	A1211-LET.O	8,026	Let. O	62	117	75	8,026
	A1211-8.05	8,05		62	117	75	8,05
	A1211-8.1	8,1		62	117	75	8,1
	A1211-8.2	8,2		62	117	75	8,2
	A1211-LET.P	8,204	Let. P	62	117	75	8,204
	A1211-8.25	8,25		62	117	75	8,25
	A1211-8.3	8,3		62	117	75	8,3
	A1211-21/64IN	8,334	21/64"	62	117	75	8,334
	A1211-8.4	8,4		62	117	75	8,4
	A1211-LET.Q	8,433	Let. Q	62	117	75	8,433
	A1211-8.5	8,5		62	117	75	8,5
	A1211-8.6	8,6		66	125	81	8,6
	A1211-LET.R	8,611	Let. R	66	125	81	8,611
	A1211-8.7	8,7		66	125	81	8,7
	A1211-11/32IN	8,731	11/32"	66	125	81	8,731
	A1211-8.75	8,75		66	125	81	8,75
	A1211-8.8	8,8		66	125	81	8,8
	A1211-8.9	8,9		66	125	81	8,9
	A1211-9	9		66	125	81	9
	A1211-LET.T	9,093	Let. T	66	125	81	9,093
	A1211-9.1	9,1		66	125	81	9,1

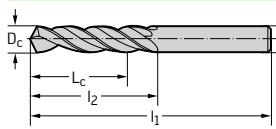
Cylindrical shank

Ferramenta

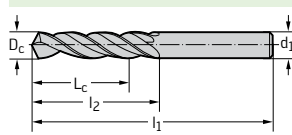


Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1211-23/64IN	9,128	23/64"	66	125	81	9,128
A1211-9.2	9,2		66	125	81	9,2
A1211-9.25	9,25		66	125	81	9,25
A1211-9.3	9,3		66	125	81	9,3
A1211-LET.U	9,347	Let. U	66	125	81	9,347
A1211-9.4	9,4		66	125	81	9,4
A1211-9.5	9,5		66	125	81	9,5
A1211-3/8IN	9,525	3/8"	71	133	87	9,525
A1211-9.6	9,6		71	133	87	9,6
A1211-9.7	9,7		71	133	87	9,7
A1211-9.75	9,75		71	133	87	9,75
A1211-9.8	9,8		71	133	87	9,8
A1211-LET.W	9,804	Let. W	71	133	87	9,804
A1211-9.9	9,9		71	133	87	9,9
A1211-25/64IN	9,922	25/64"	71	133	87	9,922
A1211-10	10		71	133	87	10
A1211-LET.X	10,084	Let. X	71	133	87	10,084
A1211-10.1	10,1		71	133	87	10,1
A1211-10.2	10,2		71	133	87	10,2
A1211-10.25	10,25		71	133	87	10,25
A1211-LET.Y	10,262	Let. Y	71	133	87	10,262
A1211-10.3	10,3		71	133	87	10,3
A1211-13/32IN	10,319	13/32"	71	133	87	10,319
A1211-10.4	10,4		71	133	87	10,4
A1211-LET.Z	10,490	Let. Z	71	133	87	10,49
A1211-10.5	10,5		71	133	87	10,5
A1211-10.6	10,6		71	133	87	10,6
A1211-10.7	10,7		76	142	94	10,7
A1211-27/64IN	10,716	27/64"	76	142	94	10,716
A1211-10.75	10,75		76	142	94	10,75
A1211-10.8	10,8		76	142	94	10,8
A1211-10.9	10,9		76	142	94	10,9
A1211-11	11		76	142	94	11
A1211-11.1	11,1		76	142	94	11,1
A1211-7/16IN	11,113	7/16"	76	142	94	11,113
A1211-11.2	11,2		76	142	94	11,2
A1211-11.25	11,25		76	142	94	11,25
A1211-11.3	11,3		76	142	94	11,3
A1211-11.4	11,4		76	142	94	11,4
A1211-11.5	11,5		76	142	94	11,5
A1211-29/64IN	11,509	29/64"	76	142	94	11,509
A1211-11.6	11,6		76	142	94	11,6
A1211-11.7	11,7		76	142	94	11,7
A1211-11.75	11,75		76	142	94	11,75
A1211-11.8	11,8		76	142	94	11,8
A1211-11.9	11,9		87	151	101	11,9

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1211-15/32IN	11,906	15/32"	87	151	101	11,906
	A1211-12	12		87	151	101	12
	A1211-12.1	12,1		87	151	101	12,1
	A1211-12.2	12,2		87	151	101	12,2
	A1211-12.25	12,25		87	151	101	12,25
	A1211-12.3	12,3		87	151	101	12,3
	A1211-31/64IN	12,303	31/64"	87	151	101	12,303
	A1211-12.4	12,4		87	151	101	12,4
	A1211-12.5	12,5		87	151	101	12,5
	A1211-12.6	12,6		87	151	101	12,6
	A1211-1/2IN	12,700	1/2"	87	151	101	12,7
	A1211-12.75	12,75		87	151	101	12,75
	A1211-12.8	12,8		87	151	101	12,8
	A1211-12.9	12,9		87	151	101	12,9
	A1211-13	13		87	151	101	13
	A1211-33/64IN	13,097		87	151	101	13,097
	A1211-13.1	13,1		87	151	101	13,1
	A1211-13.2	13,2		87	151	101	13,2
	A1211-13.25	13,25		94	160	108	13,25
	A1211-13.3	13,3		94	160	108	13,3
	A1211-13.4	13,4		94	160	108	13,4
	A1211-17/32IN	13,494	17/32"	94	160	108	13,494
	A1211-13.5	13,5		94	160	108	13,5
	A1211-13.6	13,6		94	160	108	13,6
	A1211-13.7	13,7		94	160	108	13,7
	A1211-13.75	13,75		94	160	108	13,75
	A1211-13.8	13,8		94	160	108	13,8
	A1211-35/64IN	13,891		94	160	108	13,891
	A1211-13.9	13,9		94	160	108	13,9
	A1211-14	14		94	160	108	14
	A1211-14.1	14,1		99	169	114	14,1
	A1211-14.2	14,2		99	169	114	14,2
	A1211-14.25	14,25		99	169	114	14,25
	A1211-9/16IN	14,288	9/16"	99	169	114	14,288
	A1211-14.3	14,3		99	169	114	14,3
	A1211-14.5	14,5		99	169	114	14,5
	A1211-37/64IN	14,684	37/64"	99	169	114	14,684
	A1211-14.75	14,75		99	169	114	14,75
	A1211-15	15		99	169	114	15
	A1211-19/32IN	15,081	19/32"	104	178	120	15,081
	A1211-15.2	15,2		104	178	120	15,2
	A1211-15.25	15,25		104	178	120	15,25
	A1211-39/64IN	15,478	39/64"	104	178	120	15,478
	A1211-15.5	15,5		104	178	120	15,5
	A1211-15.75	15,75		104	178	120	15,75
	A1211-5/8IN	15,875	5/8"	104	178	120	15,875

Cylindrical shank

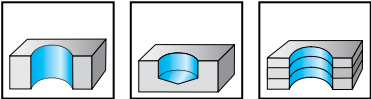
Ferramenta		D_c h8 mm	D_c Inch/Nr	L_c mm	l_1 mm	l_2 mm	d_1 f11 mm
 Cylindrical shank	Denominação						
	A1211-16	16		104	178	120	16
	A1211-41/64IN	16,272		108	184	125	16,272
	A1211-16.5	16,5		108	184	125	16,5
	A1211-21/32IN	16,669		108	184	125	16,669
	A1211-17	17		108	184	125	17
	A1211-43/64IN	17,066		112	191	130	17,066
	A1211-11/16IN	17,463		112	191	130	17,463
	A1211-17.5	17,5		112	191	130	17,5
	A1211-18	18		112	191	130	18
	A1211-18.5	18,5		116	198	135	18,5
	A1211-19	19		116	198	135	19
	A1211-19.5	19,5		120	205	140	19,5
	A1211-20	20		120	205	140	20
	A1211-21	21		123	213	145	21
	A1211-22	22		127	221	150	22

B1

Broca helicoidal HSS jogo A1211TIN
Z3219TIN



– Tipo N



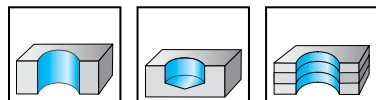
Ferramenta						
	Denominação	D _{cmin} mm	D _{cmax} mm	Passo mm	Quantidade	TIN
	Z3219TIN-1-13	1	13	0,5	25	

Broca helicoidal HSS jogo A1211

Z3218



– Tipo N



B1

Ferramenta



Denominação	D _{cmin} mm	D _{cmax} mm	Passo mm	Quantidade
Z3218-1-10.5	1	10,5	0,5	24

Corpo e componentes estão incluídos no escopo de fornecimento

**WALTER
SELECT**

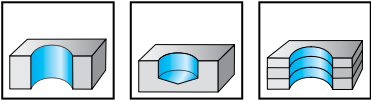
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Broca helicoidal HSS jogo A1211
Z3219



– Tipo N



Ferramenta					
	Denominação	D _{cmin} mm	D _{cmax} mm	Passo mm	Quantidade
	Z3219-1-13	1	13	0,5	25

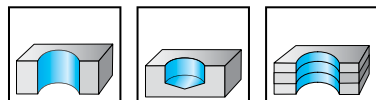
Corpo e componentes estão incluídos no escopo de fornecimento

Broca helicoidal HSS jogo A121

Z3213



– Tipo N



B1

Ferramenta					
	Denominação	D _{cmin} mm	D _{cmax} mm	Passo mm	Quantidade
	Z3213-1-6	1	6	0,1	51

Corpo e componentes estão incluídos no escopo de fornecimento

**WALTER
SELECT**

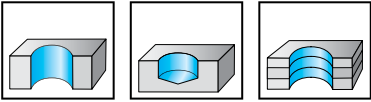
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = 😞

Broca helicoidal HSS jogo A1211
Z3216



– Tipo N



Ferramenta					
	Denominação	D _{cmin} mm	D _{cmax} mm	Passo mm	Quantidade
	Z3216-6-10	6	10	0,1	41

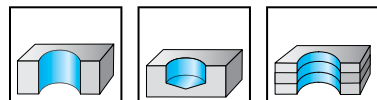
Corpo e componentes estão incluídos no escopo de fornecimento

Broca helicoidal HSS

DA110 Perform

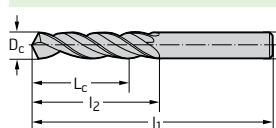


– Disponíveis também em estojos
– Tipo N



	P	M	K	N	S	H	O
WZ90AJ	●	●	●	●	●	●	●

Ferramenta



Cylindrical shank

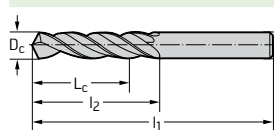
Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ F11 mm	WZ90AJ
DA110-08-01.000U0-	1	10	34	12	1	☒
DA110-08-01.100U0-	1,1	12	36	14	1,1	☒
DA110-08-01.200U0-	1,2	14	38	16	1,2	☒
DA110-08-01.300U0-	1,3	14	38	16	1,3	☒
DA110-08-01.400U0-	1,4	15	40	18	1,4	☒
DA110-08-01.500U0-	1,5	15	40	18	1,5	☒
DA110-08-01.600U0-	1,6	17	43	20	1,6	☒
DA110-08-01.700U0-	1,7	17	43	20	1,7	☒
DA110-08-01.800U0-	1,8	19	46	22	1,8	☒
DA110-08-01.900U0-	1,9	19	46	22	1,9	☒
DA110-08-02.000U0-	2	20	49	24	2	☒
DA110-08-02.100U0-	2,1	20	49	24	2,1	☒
DA110-08-02.200U0-	2,2	23	53	27	2,2	☒
DA110-08-02.300U0-	2,3	23	53	27	2,3	☒
DA110-08-02.400U0-	2,4	26	57	30	2,4	☒
DA110-08-02.500U0-	2,5	26	57	30	2,5	☒
DA110-08-02.600U0-	2,6	26	57	30	2,6	☒
DA110-08-02.700U0-	2,7	28	61	33	2,7	☒
DA110-08-02.800U0-	2,8	28	61	33	2,8	☒
DA110-08-02.900U0-	2,9	28	61	33	2,9	☒
DA110-08-03.000U0-	3	28	61	33	3	☒
DA110-08-03.100U0-	3,1	30	65	36	3,1	☒
DA110-08-03.200U0-	3,2	30	65	36	3,2	☒
DA110-08-03.300U0-	3,3	30	65	36	3,3	☒
DA110-08-03.400U0-	3,4	33	70	39	3,4	☒
DA110-08-03.500U0-	3,5	33	70	39	3,5	☒
DA110-08-03.600U0-	3,6	33	70	39	3,6	☒
DA110-08-03.700U0-	3,7	33	70	39	3,7	☒
DA110-08-03.800U0-	3,8	36	75	43	3,8	☒
DA110-08-03.900U0-	3,9	36	75	43	3,9	☒
DA110-08-04.000U0-	4	36	75	43	4	☒
DA110-08-04.100U0-	4,1	36	75	43	4,1	☒
DA110-08-04.200U0-	4,2	36	75	43	4,2	☒
DA110-08-04.300U0-	4,3	39	80	47	4,3	☒
DA110-08-04.400U0-	4,4	39	80	47	4,4	☒
DA110-08-04.500U0-	4,5	39	80	47	4,5	☒

Exemplo de pedido para a classe WZ90AJ: DA110-08-01.000U0-WZ90AJ

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem ●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☒

Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm	WZ90AJ
DA110-08-04.600U0-	4,6	39	80	47	4,6	☹
DA110-08-04.700U0-	4,7	39	80	47	4,7	☹
DA110-08-04.800U0-	4,8	44	86	52	4,8	☹
DA110-08-04.900U0-	4,9	44	86	52	4,9	☹
DA110-08-05.000U0-	5	44	86	52	5	☹
DA110-08-05.100U0-	5,1	44	86	52	5,1	☹
DA110-08-05.200U0-	5,2	44	86	52	5,2	☹
DA110-08-05.300U0-	5,3	44	86	52	5,3	☹
DA110-08-05.400U0-	5,4	48	93	57	5,4	☹
DA110-08-05.500U0-	5,5	48	93	57	5,5	☹
DA110-08-05.600U0-	5,6	48	93	57	5,6	☹
DA110-08-05.700U0-	5,7	48	93	57	5,7	☹
DA110-08-05.800U0-	5,8	48	93	57	5,8	☹
DA110-08-05.900U0-	5,9	48	93	57	5,9	☹
DA110-08-06.000U0-	6	48	93	57	6	☹
DA110-08-06.100U0-	6,1	52	101	63	6,1	☹
DA110-08-06.200U0-	6,2	52	101	63	6,2	☹
DA110-08-06.300U0-	6,3	52	101	63	6,3	☹
DA110-08-06.400U0-	6,4	52	101	63	6,4	☹
DA110-08-06.500U0-	6,5	52	101	63	6,5	☹
DA110-08-06.600U0-	6,6	52	101	63	6,6	☹
DA110-08-06.700U0-	6,7	52	101	63	6,7	☹
DA110-08-06.800U0-	6,8	57	109	69	6,8	☹
DA110-08-06.900U0-	6,9	57	109	69	6,9	☹
DA110-08-07.000U0-	7	57	109	69	7	☹
DA110-08-07.100U0-	7,1	57	109	69	7,1	☹
DA110-08-07.200U0-	7,2	57	109	69	7,2	☹
DA110-08-07.300U0-	7,3	57	109	69	7,3	☹
DA110-08-07.400U0-	7,4	57	109	69	7,4	☹
DA110-08-07.500U0-	7,5	57	109	69	7,5	☹
DA110-08-07.600U0-	7,6	62	117	75	7,6	☹
DA110-08-07.700U0-	7,7	62	117	75	7,7	☹
DA110-08-07.800U0-	7,8	62	117	75	7,8	☹
DA110-08-07.900U0-	7,9	62	117	75	7,9	☹
DA110-08-08.000U0-	8	62	117	75	8	☹
DA110-08-08.100U0-	8,1	62	117	75	8,1	☹
DA110-08-08.200U0-	8,2	62	117	75	8,2	☹
DA110-08-08.300U0-	8,3	62	117	75	8,3	☹
DA110-08-08.400U0-	8,4	62	117	75	8,4	☹
DA110-08-08.500U0-	8,5	62	117	75	8,5	☹
DA110-08-08.600U0-	8,6	66	125	81	8,6	☹
DA110-08-08.700U0-	8,7	66	125	81	8,7	☹
DA110-08-08.800U0-	8,8	66	125	81	8,8	☹
DA110-08-08.900U0-	8,9	66	125	81	8,9	☹
DA110-08-09.000U0-	9	66	125	81	9	☹
DA110-08-09.100U0-	9,1	66	125	81	9,1	☹

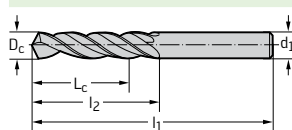
Exemplo de pedido para a classe WZ90AJ: DA110-08-01.000U0-WZ90AJ

WALTER
SELECT

Ferramenta ideal para condições de usinagem

 ●● Aplicação principal ● Aplicação secundária
 → boas = ☺ → medianas = ☹ → ruins = ☹

Ferramenta



Cylindrical shank

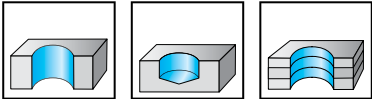
Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm	WZ90AJ
DA110-08-09.200U0-	9,2	66	125	81	9,2	☹
DA110-08-09.300U0-	9,3	66	125	81	9,3	☹
DA110-08-09.400U0-	9,4	66	125	81	9,4	☹
DA110-08-09.500U0-	9,5	66	125	81	9,5	☹
DA110-08-09.600U0-	9,6	71	133	87	9,6	☹
DA110-08-09.700U0-	9,7	71	133	87	9,7	☹
DA110-08-09.800U0-	9,8	71	133	87	9,8	☹
DA110-08-09.900U0-	9,9	71	133	87	9,9	☹
DA110-08-10.000U0-	10	71	133	87	10	☹
DA110-08-10.100U0-	10,1	71	133	87	10,1	☹
DA110-08-10.200U0-	10,2	71	133	87	10,2	☹
DA110-08-10.300U0-	10,3	71	133	87	10,3	☹
DA110-08-10.400U0-	10,4	71	133	87	10,4	☹
DA110-08-10.500U0-	10,5	71	133	87	10,5	☹
DA110-08-10.700U0-	10,7	76	142	94	10,7	☹
DA110-08-10.800U0-	10,8	76	142	94	10,8	☹
DA110-08-11.000U0-	11	76	142	94	11	☹
DA110-08-11.100U0-	11,1	76	142	94	11,1	☹
DA110-08-11.300U0-	11,3	76	142	94	11,3	☹
DA110-08-11.500U0-	11,5	76	142	94	11,5	☹
DA110-08-11.800U0-	11,8	76	142	94	11,8	☹
DA110-08-12.000U0-	12	87	151	101	12	☹
DA110-08-12.100U0-	12,1	87	151	101	12,1	☹
DA110-08-12.200U0-	12,2	87	151	101	12,2	☹
DA110-08-12.500U0-	12,5	87	151	101	12,5	☹
DA110-08-13.000U0-	13	87	151	101	13	☹
DA110-08-13.500U0-	13,5	94	160	108	13,5	☹
DA110-08-13.700U0-	13,7	94	160	108	13,7	☹
DA110-08-14.000U0-	14	94	160	108	14	☹
DA110-08-14.500U0-	14,5	99	169	114	14,5	☹
DA110-08-15.000U0-	15	99	169	114	15	☹
DA110-08-15.500U0-	15,5	104	178	120	15,5	☹
DA110-08-16.000U0-	16	104	178	120	16	☹

Exemplo de pedido para a classe WZ90AJ: DA110-08-01.000U0-WZ90AJ

Cassete de furação HSS
DA110 Perform



– Tipo N



	P	M	K	N	S	H	O
WZ90AJ	●●	●	●●	●	●		●

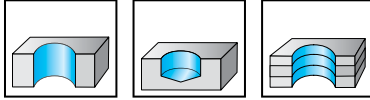
Ferramenta						WZ90AJ
	Denominação	D _{cmin} mm	D _{cmax} mm	Passo mm	Quantidade	
	DA110-SET-1-10.5-	1	10,5	0,5	24	✖

Cassete de furação HSS

DA110 Perform



– Tipo N



	P	M	K	N	S	H	O
WZ90AJ	●●	●	●●	●	●		●

Ferramenta



Denominação
DA110-SET-1-13-

D_{cmin}
mm

1

D_{cmax}
mm

13

Passo
mm

0,5

Quantidade

25

WZ90AJ
✖

**WALTER
SELECT**

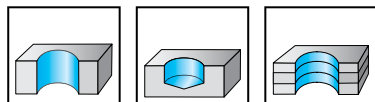
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

Brocas de metal duro para furação profunda de HSS-E, longas

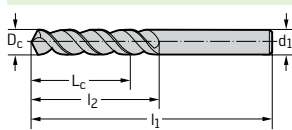
A1549TFP

UFL®

~12×D_CDIN
340

	P	M	K	N	S	H	O
TFP	●●	●●	●●	●●	●		●

B1

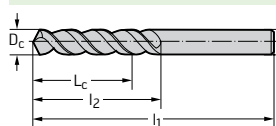
Ferramenta	Denominação	D _C h8 mm	L _C mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	A1549TFP-1	1	31	56	33	1
	A1549TFP-1.1	1,1	35	60	37	1,1
	A1549TFP-1.2	1,2	39	65	41	1,2
	A1549TFP-1.3	1,3	39	65	41	1,3
	A1549TFP-1.4	1,4	42	70	45	1,4
	A1549TFP-1.5	1,5	42	70	45	1,5
	A1549TFP-1.6	1,6	47	76	50	1,6
	A1549TFP-1.7	1,7	47	76	50	1,7
	A1549TFP-1.8	1,8	50	80	53	1,8
	A1549TFP-1.9	1,9	50	80	53	1,9
	A1549TFP-2	2	52	85	56	2
	A1549TFP-2.1	2,1	52	85	56	2,1
	A1549TFP-2.2	2,2	55	90	59	2,2
	A1549TFP-2.3	2,3	55	90	59	2,3
	A1549TFP-2.4	2,4	58	95	62	2,4
	A1549TFP-2.5	2,5	58	95	62	2,5
	A1549TFP-2.6	2,6	58	95	62	2,6
	A1549TFP-2.7	2,7	61	100	66	2,7
	A1549TFP-2.8	2,8	61	100	66	2,8
	A1549TFP-2.9	2,9	61	100	66	2,9
	A1549TFP-3	3	61	100	66	3
	A1549TFP-3.1	3,1	63	106	69	3,1
	A1549TFP-3.2	3,2	63	106	69	3,2
	A1549TFP-3.3	3,3	63	106	69	3,3
	A1549TFP-3.4	3,4	67	112	73	3,4
	A1549TFP-3.5	3,5	67	112	73	3,5
	A1549TFP-3.6	3,6	67	112	73	3,6
	A1549TFP-3.7	3,7	67	112	73	3,7
	A1549TFP-3.8	3,8	71	119	78	3,8
	A1549TFP-3.9	3,9	71	119	78	3,9
	A1549TFP-4	4	71	119	78	4
	A1549TFP-4.1	4,1	71	119	78	4,1
	A1549TFP-4.2	4,2	71	119	78	4,2
	A1549TFP-4.3	4,3	74	126	82	4,3
	A1549TFP-4.4	4,4	74	126	82	4,4
	A1549TFP-4.5	4,5	74	126	82	4,5

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

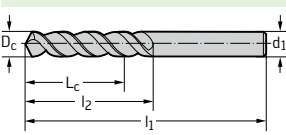
 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1549TFP-4.6	4,6	74	126	82	4,6
A1549TFP-4.7	4,7	74	126	82	4,7
A1549TFP-4.8	4,8	79	132	87	4,8
A1549TFP-4.9	4,9	79	132	87	4,9
A1549TFP-5	5	79	132	87	5
A1549TFP-5.1	5,1	79	132	87	5,1
A1549TFP-5.2	5,2	79	132	87	5,2
A1549TFP-5.3	5,3	79	132	87	5,3
A1549TFP-5.4	5,4	82	139	91	5,4
A1549TFP-5.5	5,5	82	139	91	5,5
A1549TFP-5.6	5,6	82	139	91	5,6
A1549TFP-5.7	5,7	82	139	91	5,7
A1549TFP-5.8	5,8	82	139	91	5,8
A1549TFP-5.9	5,9	82	139	91	5,9
A1549TFP-6	6	82	139	91	6
A1549TFP-6.1	6,1	86	148	97	6,1
A1549TFP-6.2	6,2	86	148	97	6,2
A1549TFP-6.3	6,3	86	148	97	6,3
A1549TFP-6.4	6,4	86	148	97	6,4
A1549TFP-6.5	6,5	86	148	97	6,5
A1549TFP-6.6	6,6	86	148	97	6,6
A1549TFP-6.7	6,7	86	148	97	6,7
A1549TFP-6.8	6,8	90	156	102	6,8
A1549TFP-6.9	6,9	90	156	102	6,9
A1549TFP-7	7	90	156	102	7
A1549TFP-7.1	7,1	90	156	102	7,1
A1549TFP-7.2	7,2	90	156	102	7,2
A1549TFP-7.3	7,3	90	156	102	7,3
A1549TFP-7.4	7,4	90	156	102	7,4
A1549TFP-7.5	7,5	90	156	102	7,5
A1549TFP-7.6	7,6	96	165	109	7,6
A1549TFP-7.7	7,7	96	165	109	7,7
A1549TFP-7.8	7,8	96	165	109	7,8
A1549TFP-7.9	7,9	96	165	109	7,9
A1549TFP-8	8	96	165	109	8
A1549TFP-8.1	8,1	96	165	109	8,1
A1549TFP-8.2	8,2	96	165	109	8,2
A1549TFP-8.3	8,3	96	165	109	8,3
A1549TFP-8.4	8,4	96	165	109	8,4
A1549TFP-8.5	8,5	96	165	109	8,5
A1549TFP-8.6	8,6	100	175	115	8,6
A1549TFP-8.7	8,7	100	175	115	8,7
A1549TFP-8.8	8,8	100	175	115	8,8
A1549TFP-8.9	8,9	100	175	115	8,9
A1549TFP-9	9	100	175	115	9
A1549TFP-9.1	9,1	100	175	115	9,1

Ferramenta		D_c h8 mm	L_c mm	l_1 mm	l_2 mm	d_1 f11 mm
 Cylindrical shank	Denominação					
	A1549TFP-9.3	9,3	100	175	115	9,3
	A1549TFP-9.4	9,4	100	175	115	9,4
	A1549TFP-9.5	9,5	100	175	115	9,5
	A1549TFP-9.6	9,6	105	184	121	9,6
	A1549TFP-9.7	9,7	105	184	121	9,7
	A1549TFP-9.8	9,8	105	184	121	9,8
	A1549TFP-9.9	9,9	105	184	121	9,9
	A1549TFP-10	10	105	184	121	10
	A1549TFP-10.2	10,2	105	184	121	10,2
	A1549TFP-10.5	10,5	105	184	121	10,5
	A1549TFP-11	11	110	195	128	11
	A1549TFP-11.5	11,5	110	195	128	11,5
	A1549TFP-12	12	120	205	134	12

B1

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

Brocas helicoidais de HSS-E, longas

A1547

Alpha® XE



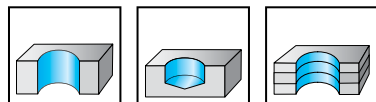
– Sem tratamento até 1,9 mm

~12×D_C

DIN 340



130°



	P	M	K	N	S	H	O
não revestido	●	●●	●●●	●	●●		●

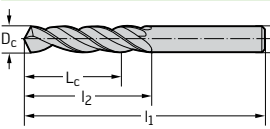
Ferramenta		D _C h8 mm	D _C Inch/Nr	L _C mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação						
	A1547-1	1		31	56	33	1
	A1547-N060	1,016	No. 60	31	56	33	1,016
	A1547-N059	1,041	No. 59	31	56	33	1,041
	A1547-N058	1,067	No. 58	35	60	37	1,067
	A1547-1.1	1,1		35	60	37	1,1
	A1547-N056	1,181	No. 56	39	65	41	1,181
	A1547-3/64IN	1,191	3/64"	39	65	41	1,191
	A1547-1.2	1,2		39	65	41	1,2
	A1547-1.3	1,3		39	65	41	1,3
	A1547-N055	1,321	No. 55	42	70	45	1,321
	A1547-1.4	1,4		42	70	45	1,4
	A1547-1.5	1,5		42	70	45	1,5
	A1547-N053	1,511	No. 53	47	76	50	1,511
	A1547-1/16IN	1,588	1/16"	47	76	50	1,588
	A1547-1.6	1,6		47	76	50	1,6
	A1547-N052	1,613	No. 52	47	76	50	1,613
	A1547-1.7	1,7		47	76	50	1,7
	A1547-N051	1,702	No. 51	50	80	53	1,702
	A1547-N050	1,778	No. 50	50	80	53	1,778
	A1547-1.8	1,8		50	80	53	1,8
	A1547-N049	1,854	No. 49	50	80	53	1,854
	A1547-1.9	1,9		50	80	53	1,9
	A1547-N048	1,930	No. 48	52	85	56	1,93
	A1547-5/64IN	1,984	5/64"	52	85	56	1,984
	A1547-N047	1,994	No. 47	52	85	56	1,994
	A1547-2	2		52	85	56	2
	A1547-N046	2,057	No. 46	52	85	56	2,057
	A1547-N045	2,083	No. 45	52	85	56	2,083
	A1547-2.1	2,1		52	85	56	2,1
	A1547-N044	2,184	No. 44	55	90	59	2,184
	A1547-2.2	2,2		55	90	59	2,2
	A1547-N043	2,261	No. 43	55	90	59	2,261
	A1547-2.3	2,3		55	90	59	2,3
	A1547-N042	2,375	No. 42	58	95	62	2,375
	A1547-3/32IN	2,381	3/32"	58	95	62	2,381
	A1547-2.4	2,4		58	95	62	2,4

WALTER
SELECT

Ferramenta ideal para condições de usinagem

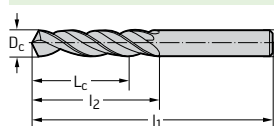
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1547-N041	2,438	No. 41	58	95	62	2,438
	A1547-N040	2,489	No. 40	58	95	62	2,489
	A1547-2.5	2,5		58	95	62	2,5
	A1547-N038	2,578	No. 38	58	95	62	2,578
	A1547-2.6	2,6		58	95	62	2,6
	A1547-N037	2,642	No. 37	58	95	62	2,642
	A1547-2.7	2,7		61	100	66	2,7
	A1547-7/64IN	2,778	7/64"	61	100	66	2,778
	A1547-2.8	2,8		61	100	66	2,8
	A1547-N033	2,870	No. 33	61	100	66	2,87
	A1547-2.9	2,9		61	100	66	2,9
	A1547-N032	2,946	No. 32	61	100	66	2,946
	A1547-3	3		61	100	66	3
	A1547-N031	3,048	No. 31	63	106	69	3,048
	A1547-3.1	3,1		63	106	69	3,1
	A1547-1/8IN	3,175	1/8"	63	106	69	3,175
	A1547-3.2	3,2		63	106	69	3,2
	A1547-N030	3,264	No. 30	63	106	69	3,264
	A1547-3.3	3,3		63	106	69	3,3
	A1547-3.4	3,4		67	112	73	3,4
	A1547-3.5	3,5		67	112	73	3,5
	A1547-9/64IN	3,572	9/64"	67	112	73	3,572
	A1547-3.6	3,6		67	112	73	3,6
	A1547-3.7	3,7		67	112	73	3,7
	A1547-3.8	3,8		71	119	78	3,8
	A1547-3.9	3,9		71	119	78	3,9
	A1547-5/32IN	3,969	5/32"	71	119	78	3,969
	A1547-4	4		71	119	78	4
	A1547-4.1	4,1		71	119	78	4,1
	A1547-4.2	4,2		71	119	78	4,2
	A1547-4.3	4,3		74	126	82	4,3
	A1547-4.4	4,4		74	126	82	4,4
	A1547-4.5	4,5		74	126	82	4,5
	A1547-4.6	4,6		74	126	82	4,6
	A1547-4.7	4,7		74	126	82	4,7
	A1547-3/16IN	4,763	3/16"	79	132	87	4,763
	A1547-4.8	4,8		79	132	87	4,8
	A1547-4.9	4,9		79	132	87	4,9
	A1547-5	5		79	132	87	5
	A1547-5.1	5,1		79	132	87	5,1
	A1547-13/64IN	5,159	13/64"	79	132	87	5,159
	A1547-5.2	5,2		79	132	87	5,2
	A1547-5.4	5,4		82	139	91	5,4
	A1547-5.5	5,5		82	139	91	5,5
	A1547-7/32IN	5,556	7/32"	82	139	91	5,556
	A1547-5.6	5,6		82	139	91	5,6

Cylindrical shank

Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1547-5.7	5,7		82	139	91	5,7
A1547-5.8	5,8		82	139	91	5,8
A1547-5.9	5,9		82	139	91	5,9
A1547-15/64IN	5,953	15/64"	82	139	91	5,953
A1547-6	6		82	139	91	6
A1547-6.1	6,1		86	148	97	6,1
A1547-6.2	6,2		86	148	97	6,2
A1547-6.3	6,3		86	148	97	6,3
A1547-1/4IN	6,350	1/4"	86	148	97	6,35
A1547-6.4	6,4		86	148	97	6,4
A1547-6.5	6,5		86	148	97	6,5
A1547-6.6	6,6		86	148	97	6,6
A1547-6.7	6,7		86	148	97	6,7
A1547-17/64IN	6,747	17/64"	90	156	102	6,747
A1547-6.8	6,8		90	156	102	6,8
A1547-7	7		90	156	102	7
A1547-9/32IN	7,144	9/32"	90	156	102	7,144
A1547-7.5	7,5		90	156	102	7,5
A1547-7.7	7,7		96	165	109	7,7
A1547-7.8	7,8		96	165	109	7,8
A1547-7.9	7,9		96	165	109	7,9
A1547-5/16IN	7,938	5/16"	96	165	109	7,938
A1547-8	8		96	165	109	8
A1547-8.1	8,1		96	165	109	8,1
A1547-8.2	8,2		96	165	109	8,2
A1547-8.3	8,3		96	165	109	8,3
A1547-8.5	8,5		96	165	109	8,5
A1547-8.6	8,6		100	175	115	8,6
A1547-8.7	8,7		100	175	115	8,7
A1547-11/32IN	8,731	11/32"	100	175	115	8,731
A1547-8.8	8,8		100	175	115	8,8
A1547-9	9		100	175	115	9
A1547-23/64IN	9,128	23/64"	100	175	115	9,128
A1547-3/8IN	9,525	3/8"	105	184	121	9,525
A1547-25/64IN	9,922	25/64"	105	184	121	9,922
A1547-10	10		105	184	121	10
A1547-10.2	10,2		105	184	121	10,2
A1547-13/32IN	10,319	13/32"	105	184	121	10,319
A1547-10.5	10,5		105	184	121	10,5
A1547-27/64IN	10,716	27/64"	110	195	128	10,716
A1547-11	11		110	195	128	11
A1547-7/16IN	11,113	7/16"	110	195	128	11,113
A1547-11.5	11,5		110	195	128	11,5
A1547-15/32IN	11,906	15/32"	120	205	134	11,906
A1547-12	12		120	205	134	12
A1547-31/64IN	12,303	31/64"	120	205	134	12,303
A1547-1/2IN	12,700	1/2"	120	205	134	12,7

WALTER
SELECT

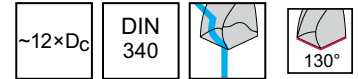
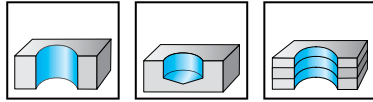
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = 😞

Brocas helicoidais de HSS-E, longas

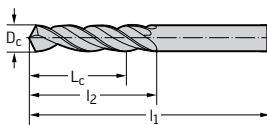
A1544

VA



	P	M	K	N	S	H	O
não revestido	●	●●	●	●	●●	●	●

B1

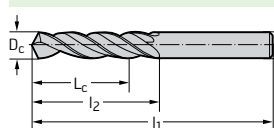
Ferramenta	Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	A1544-1	1	31	56	33	1
	A1544-1.1	1,1	35	60	37	1,1
	A1544-1.2	1,2	39	65	41	1,2
	A1544-1.3	1,3	39	65	41	1,3
	A1544-1.4	1,4	42	70	45	1,4
	A1544-1.5	1,5	42	70	45	1,5
	A1544-1.6	1,6	47	76	50	1,6
	A1544-1.7	1,7	47	76	50	1,7
	A1544-1.8	1,8	50	80	53	1,8
	A1544-1.9	1,9	50	80	53	1,9
	A1544-2	2	52	85	56	2
	A1544-2.1	2,1	52	85	56	2,1
	A1544-2.2	2,2	55	90	59	2,2
	A1544-2.3	2,3	55	90	59	2,3
	A1544-2.4	2,4	58	95	62	2,4
	A1544-2.5	2,5	58	95	62	2,5
	A1544-2.6	2,6	58	95	62	2,6
	A1544-2.7	2,7	61	100	66	2,7
	A1544-2.8	2,8	61	100	66	2,8
	A1544-2.9	2,9	61	100	66	2,9
	A1544-3	3	61	100	66	3
	A1544-3.1	3,1	63	106	69	3,1
	A1544-3.2	3,2	63	106	69	3,2
	A1544-3.3	3,3	63	106	69	3,3
	A1544-3.4	3,4	67	112	73	3,4
	A1544-3.5	3,5	67	112	73	3,5
	A1544-3.6	3,6	67	112	73	3,6
	A1544-3.7	3,7	67	112	73	3,7
	A1544-3.8	3,8	71	119	78	3,8
	A1544-3.9	3,9	71	119	78	3,9
	A1544-4	4	71	119	78	4
	A1544-4.1	4,1	71	119	78	4,1
	A1544-4.2	4,2	71	119	78	4,2
	A1544-4.3	4,3	74	126	82	4,3
	A1544-4.4	4,4	74	126	82	4,4
	A1544-4.5	4,5	74	126	82	4,5

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

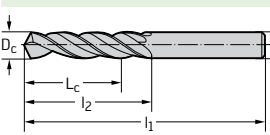
 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1544-4.6	4,6	74	126	82	4,6
A1544-4.7	4,7	74	126	82	4,7
A1544-4.8	4,8	79	132	87	4,8
A1544-4.9	4,9	79	132	87	4,9
A1544-5	5	79	132	87	5
A1544-5.1	5,1	79	132	87	5,1
A1544-5.2	5,2	79	132	87	5,2
A1544-5.3	5,3	79	132	87	5,3
A1544-5.4	5,4	82	139	91	5,4
A1544-5.5	5,5	82	139	91	5,5
A1544-5.6	5,6	82	139	91	5,6
A1544-5.7	5,7	82	139	91	5,7
A1544-5.8	5,8	82	139	91	5,8
A1544-5.9	5,9	82	139	91	5,9
A1544-6	6	82	139	91	6
A1544-6.1	6,1	86	148	97	6,1
A1544-6.2	6,2	86	148	97	6,2
A1544-6.3	6,3	86	148	97	6,3
A1544-6.4	6,4	86	148	97	6,4
A1544-6.5	6,5	86	148	97	6,5
A1544-6.6	6,6	86	148	97	6,6
A1544-6.7	6,7	86	148	97	6,7
A1544-6.8	6,8	90	156	102	6,8
A1544-6.9	6,9	90	156	102	6,9
A1544-7	7	90	156	102	7
A1544-7.1	7,1	90	156	102	7,1
A1544-7.2	7,2	90	156	102	7,2
A1544-7.3	7,3	90	156	102	7,3
A1544-7.4	7,4	90	156	102	7,4
A1544-7.5	7,5	90	156	102	7,5
A1544-7.6	7,6	96	165	109	7,6
A1544-7.7	7,7	96	165	109	7,7
A1544-7.8	7,8	96	165	109	7,8
A1544-7.9	7,9	96	165	109	7,9
A1544-8	8	96	165	109	8
A1544-8.1	8,1	96	165	109	8,1
A1544-8.2	8,2	96	165	109	8,2
A1544-8.3	8,3	96	165	109	8,3
A1544-8.4	8,4	96	165	109	8,4
A1544-8.5	8,5	96	165	109	8,5
A1544-8.6	8,6	100	175	115	8,6
A1544-8.7	8,7	100	175	115	8,7
A1544-8.8	8,8	100	175	115	8,8
A1544-8.9	8,9	100	175	115	8,9
A1544-9	9	100	175	115	9
A1544-9.1	9,1	100	175	115	9,1

Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação					
	A1544-9.2	9,2	100	175	115	9,2
	A1544-9.3	9,3	100	175	115	9,3
	A1544-9.4	9,4	100	175	115	9,4
	A1544-9.5	9,5	100	175	115	9,5
	A1544-9.6	9,6	105	184	121	9,6
	A1544-9.7	9,7	105	184	121	9,7
	A1544-9.8	9,8	105	184	121	9,8
	A1544-9.9	9,9	105	184	121	9,9
	A1544-10	10	105	184	121	10
	A1544-10.2	10,2	105	184	121	10,2
	A1544-10.5	10,5	105	184	121	10,5
	A1544-10.8	10,8	110	195	128	10,8
	A1544-11	11	110	195	128	11
	A1544-11.2	11,2	110	195	128	11,2
	A1544-11.5	11,5	110	195	128	11,5
	A1544-11.8	11,8	110	195	128	11,8
	A1544-12	12	120	205	134	12

B1

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

Brocas de metal duro para furação profunda de HSS, longas

A1522

UFL®



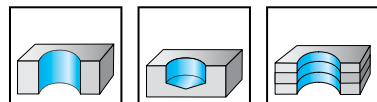
– Sem tratamento até 1,9 mm

~12×D_C

DIN 340



130°



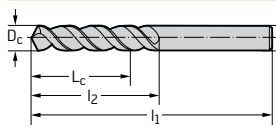
	P	M	K	N	S	H	O
não revestido	●	●	●	●	●	●	●

Ferramenta		D _C h8 mm	D _C Inch/Nr	L _C mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	A1522-1	1		31	56	33	1
	A1522-N060	1,016	No. 60	31	56	33	1,016
	A1522-N059	1,041	No. 59	31	56	33	1,041
	A1522-N058	1,067	No. 58	35	60	37	1,067
	A1522-N057	1,092	No. 57	35	60	37	1,092
	A1522-1.1	1,1		35	60	37	1,1
	A1522-N056	1,181	No. 56	39	65	41	1,181
	A1522-3/64IN	1,191	3/64"	39	65	41	1,191
	A1522-1.2	1,2		39	65	41	1,2
	A1522-1.3	1,3		39	65	41	1,3
	A1522-N055	1,321	No. 55	42	70	45	1,321
	A1522-N054	1,397	No. 54	42	70	45	1,397
	A1522-1.4	1,4		42	70	45	1,4
	A1522-1.5	1,5		42	70	45	1,5
	A1522-N053	1,511	No. 53	47	76	50	1,511
	A1522-1/16IN	1,588	1/16"	47	76	50	1,588
	A1522-1.6	1,6		47	76	50	1,6
	A1522-N052	1,613	No. 52	47	76	50	1,613
	A1522-1.7	1,7		47	76	50	1,7
	A1522-N051	1,702	No. 51	50	80	53	1,702
	A1522-N050	1,778	No. 50	50	80	53	1,778
	A1522-1.8	1,8		50	80	53	1,8
	A1522-N049	1,854	No. 49	50	80	53	1,854
	A1522-1.9	1,9		50	80	53	1,9
	A1522-N048	1,930	No. 48	52	85	56	1,93
	A1522-5/64IN	1,984	5/64"	52	85	56	1,984
	A1522-N047	1,994	No. 47	52	85	56	1,994
	A1522-2	2		52	85	56	2
	A1522-N046	2,057	No. 46	52	85	56	2,057
	A1522-N045	2,083	No. 45	52	85	56	2,083
	A1522-2.1	2,1		52	85	56	2,1
	A1522-N044	2,184	No. 44	55	90	59	2,184
	A1522-2.2	2,2		55	90	59	2,2
	A1522-N043	2,261	No. 43	55	90	59	2,261
	A1522-2.3	2,3		55	90	59	2,3
	A1522-N042	2,375	No. 42	58	95	62	2,375

WALTER
SELECT

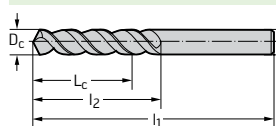
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = 😞

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1522-3/32IN	2,381	3/32"	58	95	62	2,381
	A1522-2.4	2,4		58	95	62	2,4
	A1522-N041	2,438	No. 41	58	95	62	2,438
	A1522-N040	2,489	No. 40	58	95	62	2,489
	A1522-2.5	2,5		58	95	62	2,5
	A1522-N039	2,527	No. 39	58	95	62	2,527
	A1522-N038	2,578	No. 38	58	95	62	2,578
	A1522-2.6	2,6		58	95	62	2,6
	A1522-N037	2,642	No. 37	58	95	62	2,642
	A1522-2.7	2,7		61	100	66	2,7
	A1522-N036	2,705	No. 36	61	100	66	2,705
	A1522-7/64IN	2,778	7/64"	61	100	66	2,778
	A1522-N035	2,794	No. 35	61	100	66	2,794
	A1522-2.8	2,8		61	100	66	2,8
	A1522-N034	2,819	No. 34	61	100	66	2,819
	A1522-N033	2,870	No. 33	61	100	66	2,87
	A1522-2.9	2,9		61	100	66	2,9
	A1522-N032	2,946	No. 32	61	100	66	2,946
	A1522-3	3		61	100	66	3
	A1522-N031	3,048	No. 31	63	106	69	3,048
	A1522-3.1	3,1		63	106	69	3,1
	A1522-1/8IN	3,175	1/8"	63	106	69	3,175
	A1522-3.2	3,2		63	106	69	3,2
	A1522-N030	3,264	No. 30	63	106	69	3,264
	A1522-3.3	3,3		63	106	69	3,3
	A1522-3.4	3,4		67	112	73	3,4
	A1522-N029	3,454	No. 29	67	112	73	3,454
	A1522-3.5	3,5		67	112	73	3,5
	A1522-N028	3,569	No. 28	67	112	73	3,569
	A1522-9/64IN	3,572	9/64"	67	112	73	3,572
	A1522-3.6	3,6		67	112	73	3,6
	A1522-N027	3,658	No. 27	67	112	73	3,658
	A1522-3.7	3,7		67	112	73	3,7
	A1522-N026	3,734	No. 26	67	112	73	3,734
	A1522-N025	3,797	No. 25	71	119	78	3,797
	A1522-3.8	3,8		71	119	78	3,8
	A1522-N024	3,861	No. 24	71	119	78	3,861
	A1522-3.9	3,9		71	119	78	3,9
	A1522-N023	3,912	No. 23	71	119	78	3,912
	A1522-5/32IN	3,969	5/32"	71	119	78	3,969
	A1522-N022	3,988	No. 22	71	119	78	3,988
	A1522-4	4		71	119	78	4
	A1522-N021	4,039	No. 21	71	119	78	4,039
	A1522-N020	4,089	No. 20	71	119	78	4,089
	A1522-4.1	4,1		71	119	78	4,1
	A1522-4.2	4,2		71	119	78	4,2

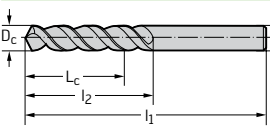
Cylindrical shank

Ferramenta

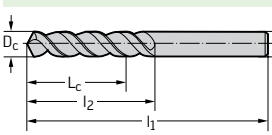


Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1522-N019	4,216	No. 19	71	119	78	4,216
A1522-4.3	4,3		74	126	82	4,3
A1522-N018	4,305	No. 18	74	126	82	4,305
A1522-11/64IN	4,366	11/64"	74	126	82	4,366
A1522-N017	4,394	No. 17	74	126	82	4,394
A1522-4.4	4,4		74	126	82	4,4
A1522-N016	4,496	No. 16	74	126	82	4,496
A1522-4.5	4,5		74	126	82	4,5
A1522-N015	4,572	No. 15	74	126	82	4,572
A1522-4.6	4,6		74	126	82	4,6
A1522-N014	4,623	No. 14	74	126	82	4,623
A1522-N013	4,699	No. 13	74	126	82	4,699
A1522-4.7	4,7		74	126	82	4,7
A1522-3/16IN	4,763	3/16"	79	132	87	4,763
A1522-4.8	4,8		79	132	87	4,8
A1522-N011	4,851	No. 11	79	132	87	4,851
A1522-4.9	4,9		79	132	87	4,9
A1522-N010	4,915	No. 10	79	132	87	4,915
A1522-N09	4,978	No. 09	79	132	87	4,978
A1522-5	5		79	132	87	5
A1522-N08	5,055	No. 08	79	132	87	5,055
A1522-5.1	5,1		79	132	87	5,1
A1522-N07	5,105	No. 07	79	132	87	5,105
A1522-13/64IN	5,159	13/64"	79	132	87	5,159
A1522-N06	5,182	No. 06	79	132	87	5,182
A1522-5.2	5,2		79	132	87	5,2
A1522-N05	5,220	No. 05	79	132	87	5,22
A1522-5.3	5,3		79	132	87	5,3
A1522-N04	5,309	No. 04	82	139	91	5,309
A1522-5.4	5,4		82	139	91	5,4
A1522-N03	5,410	No. 03	82	139	91	5,41
A1522-5.5	5,5		82	139	91	5,5
A1522-7/32IN	5,556	7/32"	82	139	91	5,556
A1522-5.6	5,6		82	139	91	5,6
A1522-N02	5,613	No. 02	82	139	91	5,613
A1522-5.7	5,7		82	139	91	5,7
A1522-N01	5,791	No. 01	82	139	91	5,791
A1522-5.8	5,8		82	139	91	5,8
A1522-5.9	5,9		82	139	91	5,9
A1522-15/64IN	5,953	15/64"	82	139	91	5,953
A1522-6	6		82	139	91	6
A1522-6.1	6,1		86	148	97	6,1
A1522-6.2	6,2		86	148	97	6,2
A1522-6.3	6,3		86	148	97	6,3
A1522-1/4IN	6,350	1/4"	86	148	97	6,35
A1522-6.4	6,4		86	148	97	6,4

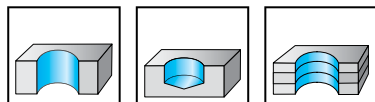
Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação						
	A1522-6.5	6,5		86	148	97	6,5
	A1522-6.6	6,6		86	148	97	6,6
	A1522-6.7	6,7		86	148	97	6,7
	A1522-17/64IN	6,747	17/64"	90	156	102	6,747
	A1522-6.8	6,8		90	156	102	6,8
	A1522-6.9	6,9		90	156	102	6,9
	A1522-7	7		90	156	102	7
	A1522-7.1	7,1		90	156	102	7,1
	A1522-9/32IN	7,144	9/32"	90	156	102	7,144
	A1522-7.2	7,2		90	156	102	7,2
	A1522-7.3	7,3		90	156	102	7,3
	A1522-7.4	7,4		90	156	102	7,4
	A1522-7.5	7,5		90	156	102	7,5
	A1522-19/64IN	7,541	19/64"	96	165	109	7,541
	A1522-7.6	7,6		96	165	109	7,6
	A1522-7.7	7,7		96	165	109	7,7
	A1522-7.8	7,8		96	165	109	7,8
	A1522-7.9	7,9		96	165	109	7,9
	A1522-5/16IN	7,938	5/16"	96	165	109	7,938
	A1522-8	8		96	165	109	8
	A1522-8.1	8,1		96	165	109	8,1
	A1522-8.2	8,2		96	165	109	8,2
	A1522-8.3	8,3		96	165	109	8,3
	A1522-21/64IN	8,334	21/64"	96	165	109	8,334
	A1522-8.4	8,4		96	165	109	8,4
	A1522-8.5	8,5		96	165	109	8,5
	A1522-8.6	8,6		100	175	115	8,6
	A1522-8.7	8,7		100	175	115	8,7
	A1522-11/32IN	8,731	11/32"	100	175	115	8,731
	A1522-8.8	8,8		100	175	115	8,8
	A1522-8.9	8,9		100	175	115	8,9
	A1522-9	9		100	175	115	9
	A1522-9.1	9,1		100	175	115	9,1
	A1522-23/64IN	9,128	23/64"	100	175	115	9,128
	A1522-9.2	9,2		100	175	115	9,2
	A1522-9.3	9,3		100	175	115	9,3
	A1522-9.4	9,4		100	175	115	9,4
	A1522-9.5	9,5		100	175	115	9,5
	A1522-3/8IN	9,525	3/8"	105	184	121	9,525
	A1522-9.6	9,6		105	184	121	9,6
	A1522-9.7	9,7		105	184	121	9,7
	A1522-9.8	9,8		105	184	121	9,8
	A1522-9.9	9,9		105	184	121	9,9
	A1522-25/64IN	9,922	25/64"	105	184	121	9,922
	A1522-10	10		105	184	121	10
	A1522-10.2	10,2		105	184	121	10,2

Cylindrical shank

Ferramenta		D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação						
	A1522-13/32IN	10,319	13/32"	105	184	121	10,319
	A1522-10.5	10,5		105	184	121	10,5
	A1522-27/64IN	10,716	27/64"	110	195	128	10,716
	A1522-10.8	10,8		110	195	128	10,8
	A1522-11	11		110	195	128	11
	A1522-7/16IN	11,113	7/16"	110	195	128	11,113
	A1522-11.2	11,2		110	195	128	11,2
	A1522-11.5	11,5		110	195	128	11,5
	A1522-29/64IN	11,509	29/64"	110	195	128	11,509
	A1522-11.8	11,8		110	195	128	11,8
	A1522-15/32IN	11,906	15/32"	120	205	134	11,906
	A1522-12	12		120	205	134	12
	A1522-31/64IN	12,303	31/64"	120	205	134	12,303
	A1522-1/2IN	12,700	1/2"	120	205	134	12,7
	A1522-9/16IN	14,288	9/16"	129	220	144	14,288
	A1522-37/64IN	14,684	37/64"	129	220	144	14,684
	A1522-39/64IN	15,478	39/64"	133	227	149	15,478
	A1522-5/8IN	15,875	5/8"	133	227	149	15,875
	A1522-21/32IN	16,669		137	235	154	16,669
	A1522-11/16IN	17,463		140	241	158	17,463
	A1522-3/4IN	19,050	3/4"	146	254	166	19,05
	A1522-25/32IN	19,844		146	254	166	19,844
	A1522-13/16IN	20,638		149	261	171	20,638
	A1522-7/8IN	22,225	7/8"	153	268	176	22,225

Brocas helicoidais de HSS, longas A1511

- Sem tratamento até 3 mm
- Tipo N



	P	M	K	N	S	H	O
não revestido	●	●	●	●	●	●	●

B1

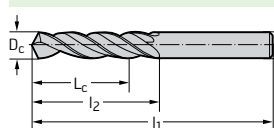
Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação					
	A1511-0.5	0,5	11,2	32	12	0,5
	A1511-0.6	0,6	14,1	35	15	0,6
	A1511-0.7	0,7	19,8	42	21	0,7
	A1511-0.8	0,8	23,7	46	25	0,8
	A1511-0.9	0,9	27,5	51	29	0,9
	A1511-1	1	31	56	33	1
	A1511-1.1	1,1	35	60	37	1,1
	A1511-1.2	1,2	39	65	41	1,2
	A1511-1.3	1,3	39	65	41	1,3
	A1511-1.4	1,4	42	70	45	1,4
	A1511-1.5	1,5	42	70	45	1,5
	A1511-1.6	1,6	47	76	50	1,6
	A1511-1.65	1,65	47	76	50	1,65
	A1511-1.7	1,7	47	76	50	1,7
	A1511-1.75	1,75	50	80	53	1,75
	A1511-1.8	1,8	50	80	53	1,8
	A1511-1.9	1,9	50	80	53	1,9
	A1511-2	2	52	85	56	2
	A1511-2.05	2,05	52	85	56	2,05
	A1511-2.1	2,1	52	85	56	2,1
	A1511-2.2	2,2	55	90	59	2,2
	A1511-2.25	2,25	55	90	59	2,25
	A1511-2.3	2,3	55	90	59	2,3
	A1511-2.4	2,4	58	95	62	2,4
	A1511-2.5	2,5	58	95	62	2,5
	A1511-2.6	2,6	58	95	62	2,6
	A1511-2.7	2,7	61	100	66	2,7
	A1511-2.8	2,8	61	100	66	2,8
	A1511-2.9	2,9	61	100	66	2,9
	A1511-3	3	61	100	66	3
	A1511-3.1	3,1	63	106	69	3,1
	A1511-3.15	3,15	63	106	69	3,15
	A1511-3.2	3,2	63	106	69	3,2
	A1511-3.3	3,3	63	106	69	3,3
	A1511-3.4	3,4	67	112	73	3,4
	A1511-3.5	3,5	67	112	73	3,5

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

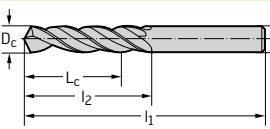
 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1511-3.6	3,6	67	112	73	3,6
A1511-3.7	3,7	67	112	73	3,7
A1511-3.8	3,8	71	119	78	3,8
A1511-3.9	3,9	71	119	78	3,9
A1511-4	4	71	119	78	4
A1511-4.1	4,1	71	119	78	4,1
A1511-4.2	4,2	71	119	78	4,2
A1511-4.25	4,25	71	119	78	4,25
A1511-4.3	4,3	74	126	82	4,3
A1511-4.4	4,4	74	126	82	4,4
A1511-4.5	4,5	74	126	82	4,5
A1511-4.6	4,6	74	126	82	4,6
A1511-4.7	4,7	74	126	82	4,7
A1511-4.75	4,75	74	126	82	4,75
A1511-4.8	4,8	79	132	87	4,8
A1511-4.9	4,9	79	132	87	4,9
A1511-5	5	79	132	87	5
A1511-5.1	5,1	79	132	87	5,1
A1511-5.2	5,2	79	132	87	5,2
A1511-5.25	5,25	79	132	87	5,25
A1511-5.3	5,3	79	132	87	5,3
A1511-5.4	5,4	82	139	91	5,4
A1511-5.5	5,5	82	139	91	5,5
A1511-5.6	5,6	82	139	91	5,6
A1511-5.7	5,7	82	139	91	5,7
A1511-5.75	5,75	82	139	91	5,75
A1511-5.8	5,8	82	139	91	5,8
A1511-5.9	5,9	82	139	91	5,9
A1511-6	6	82	139	91	6
A1511-6.1	6,1	86	148	97	6,1
A1511-6.2	6,2	86	148	97	6,2
A1511-6.3	6,3	86	148	97	6,3
A1511-6.4	6,4	86	148	97	6,4
A1511-6.5	6,5	86	148	97	6,5
A1511-6.6	6,6	86	148	97	6,6
A1511-6.7	6,7	86	148	97	6,7
A1511-6.75	6,75	90	156	102	6,75
A1511-6.8	6,8	90	156	102	6,8
A1511-6.9	6,9	90	156	102	6,9
A1511-7	7	90	156	102	7
A1511-7.1	7,1	90	156	102	7,1
A1511-7.2	7,2	90	156	102	7,2
A1511-7.25	7,25	90	156	102	7,25
A1511-7.3	7,3	90	156	102	7,3
A1511-7.4	7,4	90	156	102	7,4
A1511-7.5	7,5	90	156	102	7,5

Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação					
	A1511-7.6	7,6	96	165	109	7,6
	A1511-7.7	7,7	96	165	109	7,7
	A1511-7.8	7,8	96	165	109	7,8
	A1511-7.9	7,9	96	165	109	7,9
	A1511-8	8	96	165	109	8
	A1511-8.1	8,1	96	165	109	8,1
	A1511-8.2	8,2	96	165	109	8,2
	A1511-8.3	8,3	96	165	109	8,3
	A1511-8.4	8,4	96	165	109	8,4
	A1511-8.5	8,5	96	165	109	8,5
	A1511-8.6	8,6	100	175	115	8,6
	A1511-8.7	8,7	100	175	115	8,7
	A1511-8.75	8,75	100	175	115	8,75
	A1511-8.8	8,8	100	175	115	8,8
	A1511-8.9	8,9	100	175	115	8,9
	A1511-9	9	100	175	115	9
	A1511-9.1	9,1	100	175	115	9,1
	A1511-9.2	9,2	100	175	115	9,2
	A1511-9.25	9,25	100	175	115	9,25
	A1511-9.3	9,3	100	175	115	9,3
	A1511-9.4	9,4	100	175	115	9,4
	A1511-9.5	9,5	100	175	115	9,5
	A1511-9.6	9,6	105	184	121	9,6
	A1511-9.7	9,7	105	184	121	9,7
	A1511-9.75	9,75	105	184	121	9,75
	A1511-9.8	9,8	105	184	121	9,8
	A1511-9.9	9,9	105	184	121	9,9
	A1511-10	10	105	184	121	10
	A1511-10.1	10,1	105	184	121	10,1
	A1511-10.2	10,2	105	184	121	10,2
	A1511-10.3	10,3	105	184	121	10,3
	A1511-10.4	10,4	105	184	121	10,4
	A1511-10.5	10,5	105	184	121	10,5
	A1511-10.7	10,7	110	195	128	10,7
	A1511-10.8	10,8	110	195	128	10,8
	A1511-11	11	110	195	128	11
	A1511-11.5	11,5	110	195	128	11,5
	A1511-11.8	11,8	110	195	128	11,8
	A1511-12	12	120	205	134	12
	A1511-12.5	12,5	120	205	134	12,5
	A1511-13	13	120	205	134	13
	A1511-13.5	13,5	126	214	140	13,5
	A1511-14	14	126	214	140	14
	A1511-14.5	14,5	129	220	144	14,5
	A1511-15	15	129	220	144	15
	A1511-15.5	15,5	133	227	149	15,5
	A1511-16	16	133	227	149	16
	A1511-17	17	137	235	154	17
	A1511-18	18	140	241	158	18
	A1511-19	19	143	247	162	19
	A1511-20	20	146	254	166	20
	A1511-21	21	149	261	171	21
	A1511-22	22	153	268	176	22

**WALTER
SELECT**

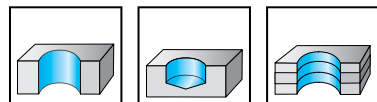
Ferramenta ideal para condições de usinagem

 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas para furação profunda de HSS, extra longas

A1622

UFL®


~16×D_C

DIN 1869-I



130°

B1

	P	M	K	N	S	H	O
não revestido	●	●	●	●	●	●	●

Ferramenta		D _C h8 mm	D _C Inch/Nr	L _C mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação						
	A1622-2	2		81	125	85	2
	A1622-2.1	2,1		81	125	85	2,1
	A1622-2.2	2,2		86	135	90	2,2
	A1622-2.3	2,3		86	135	90	2,3
	A1622-3/32IN	2,381	3/32"	91	140	95	2,381
	A1622-2.4	2,4		91	140	95	2,4
	A1622-N040	2,489	No. 40	91	140	95	2,489
	A1622-2.5	2,5		91	140	95	2,5
	A1622-N039	2,527	No. 39	91	140	95	2,527
	A1622-N038	2,578	No. 38	91	140	95	2,578
	A1622-2.6	2,6		91	140	95	2,6
	A1622-N037	2,642	No. 37	91	140	95	2,642
	A1622-2.7	2,7		95	150	100	2,7
	A1622-N036	2,705	No. 36	95	150	100	2,705
	A1622-7/64IN	2,778	7/64"	95	150	100	2,778
	A1622-N035	2,794	No. 35	95	150	100	2,794
	A1622-2.8	2,8		95	150	100	2,8
	A1622-N034	2,819	No. 34	95	150	100	2,819
	A1622-N033	2,870	No. 33	95	150	100	2,87
	A1622-2.9	2,9		95	150	100	2,9
	A1622-N032	2,946	No. 32	95	150	100	2,946
	A1622-3	3		95	150	100	3
	A1622-N031	3,048	No. 31	99	155	105	3,048
	A1622-3.1	3,1		99	155	105	3,1
	A1622-1/8IN	3,175	1/8"	99	155	105	3,175
	A1622-3.2	3,2		99	155	105	3,2
	A1622-N030	3,264	No. 30	99	155	105	3,264
	A1622-3.3	3,3		99	155	105	3,3
	A1622-3.4	3,4		109	165	115	3,4
	A1622-N029	3,454	No. 29	109	165	115	3,454
	A1622-3.5	3,5		109	165	115	3,5
	A1622-N028	3,569	No. 28	109	165	115	3,569
	A1622-9/64IN	3,572	9/64"	109	165	115	3,572
	A1622-3.6	3,6		109	165	115	3,6
	A1622-N027	3,658	No. 27	109	165	115	3,658
	A1622-3.7	3,7		109	165	115	3,7

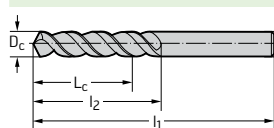
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

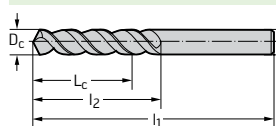
Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1622-N026	3,734	No. 26	109	165	115	3,734
A1622-N025	3,797	No. 25	113	175	120	3,797
A1622-3.8	3,8		113	175	120	3,8
A1622-N024	3,861	No. 24	113	175	120	3,861
A1622-3.9	3,9		113	175	120	3,9
A1622-N023	3,912	No. 23	113	175	120	3,912
A1622-5/32IN	3,969	5/32"	113	175	120	3,969
A1622-N022	3,988	No. 22	113	175	120	3,988
A1622-4	4		113	175	120	4
A1622-N021	4,039	No. 21	113	175	120	4,039
A1622-N020	4,089	No. 20	113	175	120	4,089
A1622-4.1	4,1		113	175	120	4,1
A1622-4.2	4,2		113	175	120	4,2
A1622-N019	4,216	No. 19	113	175	120	4,216
A1622-4.3	4,3		117	185	125	4,3
A1622-N018	4,305	No. 18	117	185	125	4,305
A1622-11/64IN	4,366	11/64"	117	185	125	4,366
A1622-N017	4,394	No. 17	117	185	125	4,394
A1622-4.4	4,4		117	185	125	4,4
A1622-N016	4,496	No. 16	117	185	125	4,496
A1622-4.5	4,5		117	185	125	4,5
A1622-N015	4,572	No. 15	117	185	125	4,572
A1622-4.6	4,6		117	185	125	4,6
A1622-N014	4,623	No. 14	117	185	125	4,623
A1622-N013	4,699	No. 13	117	185	125	4,699
A1622-4.7	4,7		117	185	125	4,7
A1622-3/16IN	4,763	3/16"	127	195	135	4,763
A1622-4.8	4,8		127	195	135	4,8
A1622-N012	4,801	No. 12	127	195	135	4,801
A1622-N011	4,851	No. 11	127	195	135	4,851
A1622-4.9	4,9		127	195	135	4,9
A1622-N010	4,915	No. 10	127	195	135	4,915
A1622-N09	4,978	No. 09	127	195	135	4,978
A1622-5	5		127	195	135	5
A1622-N08	5,055	No. 08	127	195	135	5,055
A1622-5.1	5,1		127	195	135	5,1
A1622-N07	5,105	No. 07	127	195	135	5,105
A1622-13/64IN	5,159	13/64"	127	195	135	5,159
A1622-N06	5,182	No. 06	127	195	135	5,182
A1622-5.2	5,2		127	195	135	5,2
A1622-N05	5,220	No. 05	127	195	135	5,22
A1622-5.3	5,3		127	195	135	5,3
A1622-N04	5,309	No. 04	131	205	140	5,309
A1622-5.4	5,4		131	205	140	5,4
A1622-N03	5,410	No. 03	131	205	140	5,41
A1622-5.5	5,5		131	205	140	5,5

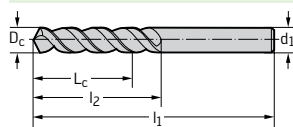
Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1622-7/32IN	5,556	7/32"	131	205	140	5,556
A1622-5.6	5,6		131	205	140	5,6
A1622-N02	5,613	No. 02	131	205	140	5,613
A1622-5.7	5,7		131	205	140	5,7
A1622-N01	5,791	No. 01	131	205	140	5,791
A1622-5.8	5,8		131	205	140	5,8
A1622-5.9	5,9		131	205	140	5,9
A1622-15/64IN	5,953	15/64"	131	205	140	5,953
A1622-6	6		131	205	140	6
A1622-6.1	6,1		139	215	150	6,1
A1622-6.2	6,2		139	215	150	6,2
A1622-6.3	6,3		139	215	150	6,3
A1622-1/4IN	6,350	1/4"	139	215	150	6,35
A1622-6.4	6,4		139	215	150	6,4
A1622-6.5	6,5		139	215	150	6,5
A1622-6.6	6,6		139	215	150	6,6
A1622-6.7	6,7		139	215	150	6,7
A1622-17/64IN	6,747	17/64"	143	225	155	6,747
A1622-6.8	6,8		143	225	155	6,8
A1622-6.9	6,9		143	225	155	6,9
A1622-7	7		143	225	155	7
A1622-7.1	7,1		143	225	155	7,1
A1622-9/32IN	7,144	9/32"	143	225	155	7,144
A1622-7.2	7,2		143	225	155	7,2
A1622-7.3	7,3		143	225	155	7,3
A1622-7.4	7,4		143	225	155	7,4
A1622-7.5	7,5		143	225	155	7,5
A1622-19/64IN	7,541	19/64"	152	240	165	7,541
A1622-7.6	7,6		152	240	165	7,6
A1622-7.7	7,7		152	240	165	7,7
A1622-7.8	7,8		152	240	165	7,8
A1622-7.9	7,9		152	240	165	7,9
A1622-5/16IN	7,938	5/16"	152	240	165	7,938
A1622-8	8		152	240	165	8
A1622-8.1	8,1		152	240	165	8,1
A1622-8.2	8,2		152	240	165	8,2
A1622-8.3	8,3		152	240	165	8,3
A1622-21/64IN	8,334	21/64"	152	240	165	8,334
A1622-8.4	8,4		152	240	165	8,4
A1622-8.5	8,5		152	240	165	8,5
A1622-8.6	8,6		160	250	175	8,6
A1622-8.7	8,7		160	250	175	8,7
A1622-11/32IN	8,731	11/32"	160	250	175	8,731
A1622-8.8	8,8		160	250	175	8,8
A1622-8.9	8,9		160	250	175	8,9
A1622-9	9		160	250	175	9

Ferramenta



Cylindrical shank

Denominação	D _c h8 mm	D _c Inch/Nr	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
A1622-9.1	9,1		160	250	175	9,1
A1622-23/64IN	9,128	23/64"	160	250	175	9,128
A1622-9.2	9,2		160	250	175	9,2
A1622-9.3	9,3		160	250	175	9,3
A1622-9.4	9,4		160	250	175	9,4
A1622-9.5	9,5		160	250	175	9,5
A1622-3/8IN	9,525	3/8"	169	265	185	9,525
A1622-9.6	9,6		169	265	185	9,6
A1622-9.7	9,7		169	265	185	9,7
A1622-9.8	9,8		169	265	185	9,8
A1622-9.9	9,9		169	265	185	9,9
A1622-25/64IN	9,922	25/64"	169	265	185	9,922
A1622-10	10		169	265	185	10
A1622-13/32IN	10,319	13/32"	169	265	185	10,319
A1622-10.5	10,5		169	265	185	10,5
A1622-27/64IN	10,716	27/64"	177	280	195	10,716
A1622-11	11		177	280	195	11
A1622-7/16IN	11,113	7/16"	177	280	195	11,113
A1622-11.5	11,5		177	280	195	11,5
A1622-29/64IN	11,509	29/64"	177	280	195	11,509
A1622-15/32IN	11,906	15/32"	191	295	205	11,906
A1622-12	12		191	295	205	12
A1622-31/64IN	12,303	31/64"	191	295	205	12,303
A1622-1/2IN	12,700	1/2"	191	295	205	12,7

B1

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

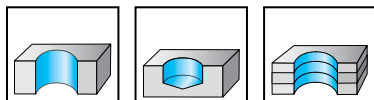
Brocas para furação profunda de HSS, extra longas

A1722

UFL®



B1



~22×D_C

DIN 1869-II



130°

	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●

Ferramenta		D _C h8 mm	L _C mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação					
	A1722-3	3	125	190	130	3
	A1722-3.5	3,5	139	210	145	3,5
	A1722-4	4	143	220	150	4
	A1722-4.5	4,5	152	235	160	4,5
	A1722-5	5	162	245	170	5
	A1722-5.5	5,5	171	260	180	5,5
	A1722-6	6	171	260	180	6
	A1722-6.5	6,5	179	275	190	6,5
	A1722-7	7	188	290	200	7
	A1722-7.5	7,5	188	290	200	7,5
	A1722-8	8	197	305	210	8
	A1722-8.5	8,5	197	305	210	8,5
	A1722-9	9	205	320	220	9
	A1722-9.5	9,5	205	320	220	9,5
	A1722-10	10	219	340	235	10
	A1722-10.5	10,5	219	340	235	10,5
	A1722-11	11	232	360	250	11
	A1722-11.5	11,5	232	360	250	11,5
	A1722-12	12	246	380	260	12

WALTER
SELECT

Ferramenta ideal para condições de usinagem

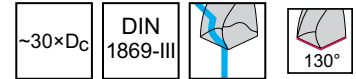
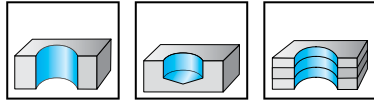
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas para furação profunda de HSS, extra longas

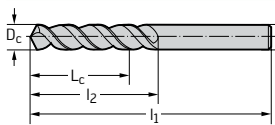
A1822

UFL®



	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●

B1

Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação					
	A1822-3.5	3,5	174	265	180	3,5
	A1822-4	4	183	280	190	4
	A1822-4.5	4,5	192	295	200	4,5
	A1822-5	5	202	315	210	5
	A1822-5.5	5,5	216	330	225	5,5
	A1822-6	6	216	330	225	6
	A1822-6.5	6,5	224	350	235	6,5
	A1822-7	7	238	370	250	7
	A1822-7.5	7,5	238	370	250	7,5
	A1822-8	8	252	390	265	8
	A1822-8.5	8,5	252	390	265	8,5
	A1822-9	9	265	410	280	9
	A1822-9.5	9,5	265	410	280	9,5
	A1822-10	10	279	430	295	10
	A1822-10.5	10,5	279	430	295	10,5
	A1822-11	11	287	450	305	11
	A1822-11.5	11,5	287	450	305	11,5
	A1822-12	12	291	480	305	12

WALTER
SELECT

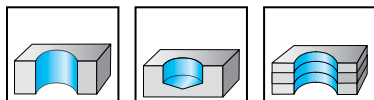
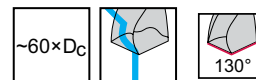
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas para furação profunda de HSS, super longas

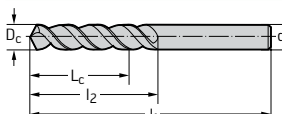
A1922S

UFL®



B1

	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●

Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
 Cylindrical shank	Denominação					
	A1922S-6	6	389	500	400	6
	A1922S-6.5	6,5	389	500	400	6,5
	A1922S-7	7	389	500	400	7
	A1922S-8	8	536	650	550	8
	A1922S-9	9	536	650	550	9
	A1922S-10	10	680	800	700	10
	A1922S-11	11	680	800	700	11
	A1922S-12	12	680	800	700	12
	A1922S-13	13	680	800	700	13
	A1922S-14	14	680	800	700	14

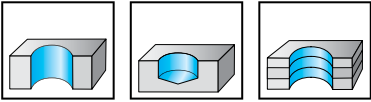
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas para furação profunda de HSS, super longas
A1922L
UFL®



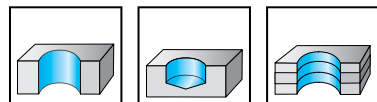
	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●

Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	d ₁ f11 mm
	Denominação					
	A1922L-8	8	685	800	700	8
	A1922L-10	10	769	1.000	800	10
	A1922L-12	12	769	1.000	800	12
Cylindrical shank						

Brocas helicoidais de HSS-E com cone Morse

A4244

VA



	P	M	K	N	S	H	O
não revestido	●	●●	●	●	●●	●	●

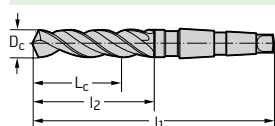
Ferramenta	Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	MK
Morse taper	A4244-10	10	71	168	87	MK1 B
	A4244-10.2	10,2	71	168	87	MK1 B
	A4244-10.5	10,5	71	168	87	MK1 B
	A4244-10.8	10,8	76	175	94	MK1 B
	A4244-11	11	76	175	94	MK1 B
	A4244-11.2	11,2	76	175	94	MK1 B
	A4244-11.5	11,5	76	175	94	MK1 B
	A4244-11.8	11,8	76	175	94	MK1 B
	A4244-12	12	87	182	101	MK1 B
	A4244-12.2	12,2	87	182	101	MK1 B
	A4244-12.5	12,5	87	182	101	MK1 B
	A4244-12.8	12,8	87	182	101	MK1 B
	A4244-13	13	87	182	101	MK1 B
	A4244-13.5	13,5	94	189	108	MK1 B
	A4244-13.8	13,8	94	189	108	MK1 B
	A4244-14	14	94	189	108	MK1 B
	A4244-14.25	14,25	99	212	114	MK2 B
	A4244-14.5	14,5	99	212	114	MK2 B
	A4244-14.75	14,75	99	212	114	MK2 B
	A4244-15	15	99	212	114	MK2 B
	A4244-15.25	15,25	104	218	120	MK2 B
	A4244-15.5	15,5	104	218	120	MK2 B
	A4244-15.75	15,75	104	218	120	MK2 B
	A4244-16	16	104	218	120	MK2 B
	A4244-16.5	16,5	108	223	125	MK2 B
	A4244-16.75	16,75	108	223	125	MK2 B
	A4244-17	17	108	223	125	MK2 B
	A4244-17.25	17,25	112	228	130	MK2 B
	A4244-17.5	17,5	112	228	130	MK2 B
	A4244-17.75	17,75	112	228	130	MK2 B
	A4244-18	18	112	228	130	MK2 B
	A4244-18.25	18,25	116	233	135	MK2 B
	A4244-18.5	18,5	116	233	135	MK2 B
	A4244-18.75	18,75	116	233	135	MK2 B
	A4244-19	19	116	233	135	MK2 B
	A4244-19.25	19,25	120	238	140	MK2 B

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = 😞

Ferramenta



Morse taper

Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	MK
A4244-19.5	19,5	120	238	140	MK2 B
A4244-19.75	19,75	120	238	140	MK2 B
A4244-20	20	120	238	140	MK2 B
A4244-20.25	20,25	123	243	145	MK2 B
A4244-20.5	20,5	123	243	145	MK2 B
A4244-20.75	20,75	123	243	145	MK2 B
A4244-21	21	123	243	145	MK2 B
A4244-21.25	21,25	127	248	150	MK2 B
A4244-21.5	21,5	127	248	150	MK2 B
A4244-22	22	127	248	150	MK2 B
A4244-22.25	22,25	127	248	150	MK2 B
A4244-22.5	22,5	131	253	155	MK2 B
A4244-22.75	22,75	131	253	155	MK2 B
A4244-23	23	131	253	155	MK2 B
A4244-23.5	23,5	131	276	155	MK3 B
A4244-24	24	135	281	160	MK3 B
A4244-24.5	24,5	135	281	160	MK3 B
A4244-25	25	135	281	160	MK3 B
A4244-25.5	25,5	138	286	165	MK3 B
A4244-26	26	138	286	165	MK3 B
A4244-26.5	26,5	138	286	165	MK3 B
A4244-27	27	142	291	170	MK3 B
A4244-28	28	142	291	170	MK3 B
A4244-29	29	145	296	175	MK3 B
A4244-29.5	29,5	145	296	175	MK3 B
A4244-30	30	145	296	175	MK3 B
A4244-30.5	30,5	148	301	180	MK3 B
A4244-31	31	148	301	180	MK3 B
A4244-31.5	31,5	148	301	180	MK3 B
A4244-32	32	151	334	185	MK4 B

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas helicoidais de HSS-E com cone Morse

A4247

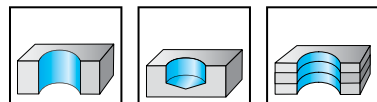
Alpha® XE



– Sem tratamento a partir de 23,02 mm

~8×D_c

DIN 345



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	MK
 Morse taper	A4247-10	10	71	168	87	MK1 B
	A4247-10.2	10,2	71	168	87	MK1 B
	A4247-10.5	10,5	71	168	87	MK1 B
	A4247-10.8	10,8	76	175	94	MK1 B
	A4247-11	11	76	175	94	MK1 B
	A4247-11.5	11,5	76	175	94	MK1 B
	A4247-11.8	11,8	76	175	94	MK1 B
	A4247-12	12	87	182	101	MK1 B
	A4247-12.2	12,2	87	182	101	MK1 B
	A4247-12.5	12,5	87	182	101	MK1 B
	A4247-12.8	12,8	87	182	101	MK1 B
	A4247-13	13	87	182	101	MK1 B
	A4247-13.2	13,2	87	182	101	MK1 B
	A4247-13.5	13,5	94	189	108	MK1 B
	A4247-13.8	13,8	94	189	108	MK1 B
	A4247-14	14	94	189	108	MK1 B
	A4247-14.25	14,25	99	212	114	MK2 B
	A4247-14.5	14,5	99	212	114	MK2 B
	A4247-14.75	14,75	99	212	114	MK2 B
	A4247-15	15	99	212	114	MK2 B
	A4247-15.25	15,25	104	218	120	MK2 B
	A4247-15.5	15,5	104	218	120	MK2 B
	A4247-15.75	15,75	104	218	120	MK2 B
	A4247-16	16	104	218	120	MK2 B
	A4247-16.25	16,25	108	223	125	MK2 B
	A4247-16.5	16,5	108	223	125	MK2 B
	A4247-16.75	16,75	108	223	125	MK2 B
	A4247-17	17	108	223	125	MK2 B
	A4247-17.25	17,25	112	228	130	MK2 B
	A4247-17.5	17,5	112	228	130	MK2 B
	A4247-17.75	17,75	112	228	130	MK2 B
	A4247-18	18	112	228	130	MK2 B
	A4247-18.25	18,25	116	233	135	MK2 B
	A4247-18.5	18,5	116	233	135	MK2 B
	A4247-18.75	18,75	116	233	135	MK2 B
	A4247-19	19	116	233	135	MK2 B

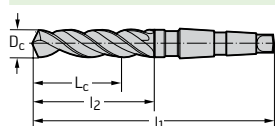
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

Ferramenta



Morse taper

Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	MK
A4247-19.25	19,25	120	238	140	MK2 B
A4247-19.5	19,5	120	238	140	MK2 B
A4247-19.75	19,75	120	238	140	MK2 B
A4247-20	20	120	238	140	MK2 B
A4247-20.25	20,25	123	243	145	MK2 B
A4247-20.5	20,5	123	243	145	MK2 B
A4247-20.75	20,75	123	243	145	MK2 B
A4247-21	21	123	243	145	MK2 B
A4247-21.25	21,25	127	248	150	MK2 B
A4247-21.5	21,5	127	248	150	MK2 B
A4247-21.75	21,75	127	248	150	MK2 B
A4247-22	22	127	248	150	MK2 B
A4247-22.25	22,25	127	248	150	MK2 B
A4247-22.5	22,5	131	253	155	MK2 B
A4247-22.75	22,75	131	253	155	MK2 B
A4247-23	23	131	253	155	MK2 B
A4247-23.5	23,5	131	276	155	MK3 B
A4247-24	24	135	281	160	MK3 B
A4247-24.5	24,5	135	281	160	MK3 B
A4247-25	25	135	281	160	MK3 B
A4247-25.5	25,5	138	286	165	MK3 B
A4247-26	26	138	286	165	MK3 B
A4247-26.5	26,5	138	286	165	MK3 B
A4247-27	27	142	291	170	MK3 B
A4247-27.5	27,5	142	291	170	MK3 B
A4247-28	28	142	291	170	MK3 B
A4247-28.5	28,5	145	296	175	MK3 B
A4247-29	29	145	296	175	MK3 B
A4247-29.5	29,5	145	296	175	MK3 B
A4247-30	30	145	296	175	MK3 B
A4247-30.5	30,5	148	301	180	MK3 B
A4247-31	31	148	301	180	MK3 B
A4247-31.5	31,5	148	301	180	MK3 B
A4247-32	32	151	334	185	MK4 B
A4247-32.5	32,5	151	334	185	MK4 B
A4247-33	33	151	334	185	MK4 B
A4247-34	34	154	339	190	MK4 B
A4247-35	35	154	339	190	MK4 B
A4247-36	36	157	344	195	MK4 B
A4247-37	37	157	344	195	MK4 B
A4247-38	38	160	349	200	MK4 B
A4247-39	39	160	349	200	MK4 B
A4247-40	40	160	349	200	MK4 B

Brocas helicoidais de HSS com cone Morse, longas

A4422

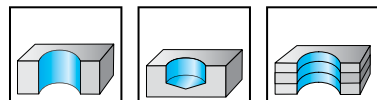
UFL®



– Sem tratamento a partir de 23,02 mm

~12×D_c

DIN 341



	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●

Ferramenta		D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	MK
 Morse taper	A4422-10	10	100	197	116	MK1 B
	A4422-10.2	10,2	100	197	116	MK1 B
	A4422-10.5	10,5	100	197	116	MK1 B
	A4422-10.8	10,8	107	206	125	MK1 B
	A4422-11	11	107	206	125	MK1 B
	A4422-11.5	11,5	107	206	125	MK1 B
	A4422-11.8	11,8	107	206	125	MK1 B
	A4422-12	12	120	215	134	MK1 B
	A4422-12.2	12,2	120	215	134	MK1 B
	A4422-12.5	12,5	120	215	134	MK1 B
	A4422-12.8	12,8	120	215	134	MK1 B
	A4422-13	13	120	215	134	MK1 B
	A4422-13.2	13,2	120	215	134	MK1 B
	A4422-13.5	13,5	128	223	142	MK1 B
	A4422-13.8	13,8	128	223	142	MK1 B
	A4422-14	14	128	223	142	MK1 B
	A4422-14.25	14,25	132	245	147	MK2 B
	A4422-14.5	14,5	132	245	147	MK2 B
	A4422-14.75	14,75	132	245	147	MK2 B
	A4422-15	15	132	245	147	MK2 B
	A4422-15.25	15,25	137	251	153	MK2 B
	A4422-15.5	15,5	137	251	153	MK2 B
	A4422-15.75	15,75	137	251	153	MK2 B
	A4422-16	16	137	251	153	MK2 B
	A4422-16.5	16,5	142	257	159	MK2 B
	A4422-16.75	16,75	142	257	159	MK2 B
	A4422-17	17	142	257	159	MK2 B
	A4422-17.5	17,5	147	263	165	MK2 B
	A4422-17.75	17,75	147	263	165	MK2 B
	A4422-18	18	147	263	165	MK2 B
	A4422-18.25	18,25	152	269	171	MK2 B
	A4422-18.5	18,5	152	269	171	MK2 B
	A4422-18.75	18,75	152	269	171	MK2 B
	A4422-19	19	152	269	171	MK2 B
	A4422-19.25	19,25	157	275	177	MK2 B
	A4422-19.5	19,5	157	275	177	MK2 B

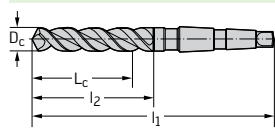
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

Ferramenta



Morse taper

Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	MK
A4422-19.75	19,75	157	275	177	MK2 B
A4422-20	20	157	275	177	MK2 B
A4422-20.5	20,5	162	282	184	MK2 B
A4422-21	21	162	282	184	MK2 B
A4422-21.5	21,5	168	289	191	MK2 B
A4422-22	22	168	289	191	MK2 B
A4422-22.5	22,5	174	296	198	MK2 B
A4422-23	23	174	296	198	MK2 B
A4422-23.5	23,5	174	319	198	MK3 B
A4422-24	24	181	327	206	MK3 B
A4422-24.5	24,5	181	327	206	MK3 B
A4422-25	25	181	327	206	MK3 B
A4422-26	26	187	335	214	MK3 B
A4422-27	27	194	343	222	MK3 B
A4422-28	28	194	343	222	MK3 B
A4422-29	29	200	351	230	MK3 B
A4422-30	30	200	351	230	MK3 B
A4422-31	31	207	360	239	MK3 B

B1

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = 😞

Brocas de HSS com cone Morse, extra longas

A4622

UFL®



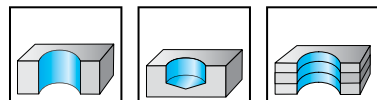
– Sem tratamento a partir de 23,02 mm

~16×D_C

DIN 1870-I



130°



	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●

Ferramenta		D _C h8 mm	L _C mm	l ₁ mm	l ₂ mm	MK
 Morse taper	A4622-12	12	191	310	205	MK1 B
	A4622-12.5	12,5	191	310	205	MK1 B
	A4622-13	13	191	310	205	MK1 B
	A4622-13.5	13,5	206	325	220	MK1 B
	A4622-14	14	206	325	220	MK1 B
	A4622-14.5	14,5	205	340	220	MK2 B
	A4622-15	15	205	340	220	MK2 B
	A4622-15.5	15,5	214	355	230	MK2 B
	A4622-16	16	214	355	230	MK2 B
	A4622-16.5	16,5	213	355	230	MK2 B
	A4622-17	17	213	355	230	MK2 B
	A4622-17.5	17,5	227	370	245	MK2 B
	A4622-18	18	227	370	245	MK2 B
	A4622-18.5	18,5	226	370	245	MK2 B
	A4622-19	19	226	370	245	MK2 B
	A4622-19.5	19,5	240	385	260	MK2 B
	A4622-20	20	240	385	260	MK2 B
	A4622-21	21	238	385	260	MK2 B
	A4622-22	22	247	405	270	MK2 B
	A4622-23	23	246	405	270	MK2 B
	A4622-24	24	265	440	290	MK3 B
	A4622-25	25	265	440	290	MK3 B
	A4622-26	26	263	440	290	MK3 B
	A4622-27	27	277	460	305	MK3 B
	A4622-28	28	277	460	305	MK3 B
	A4622-29	29	275	460	305	MK3 B
	A4622-30	30	275	460	305	MK3 B

WALTER
SELECT

Ferramenta ideal para condições de usinagem

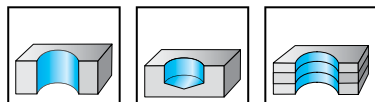
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas de HSS com cone Morse, extra longas

A4611

– Tipo N



	P	M	K	N	S	H	O
não revestido	●	●	●	●	●	●	●

B1

Ferramenta	Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	MK
 Morse taper	A4611-8	8	152	265	165	MK1 B
	A4611-9	9	160	275	175	MK1 B
	A4611-10	10	169	285	185	MK1 B
	A4611-10.5	10,5	169	285	185	MK1 B
	A4611-11	11	177	300	195	MK1 B
	A4611-11.5	11,5	177	300	195	MK1 B
	A4611-14	14	206	325	220	MK1 B
	A4611-15	15	205	340	220	MK2 B
	A4611-15.5	15,5	214	355	230	MK2 B
	A4611-16	16	214	355	230	MK2 B
	A4611-16.5	16,5	213	355	230	MK2 B
	A4611-17	17	213	355	230	MK2 B
	A4611-17.5	17,5	227	370	245	MK2 B
	A4611-18	18	227	370	245	MK2 B
	A4611-19	19	226	370	245	MK2 B
	A4611-19.5	19,5	240	385	260	MK2 B
	A4611-20	20	240	385	260	MK2 B
	A4611-20.5	20,5	238	385	260	MK2 B
	A4611-21	21	238	385	260	MK2 B
	A4611-21.5	21,5	247	405	270	MK2 B
	A4611-22	22	247	405	270	MK2 B
	A4611-22.5	22,5	246	405	270	MK2 B
	A4611-23	23	246	405	270	MK2 B
	A4611-23.5	23,5	246	425	270	MK3 B
	A4611-24	24	265	440	290	MK3 B
	A4611-24.5	24,5	265	440	290	MK3 B
	A4611-25	25	265	440	290	MK3 B
	A4611-25.5	25,5	263	440	290	MK3 B
	A4611-26	26	263	440	290	MK3 B
	A4611-26.5	26,5	263	440	290	MK3 B
	A4611-27	27	277	460	305	MK3 B
	A4611-28	28	277	460	305	MK3 B
	A4611-29	29	275	460	305	MK3 B
	A4611-30	30	275	460	305	MK3 B
	A4611-31	31	288	480	320	MK3 B
	A4611-32	32	286	505	320	MK4 B
 Morse taper	A4611-33	33	286	505	320	MK4 B
	A4611-34	34	304	530	340	MK4 B
	A4611-35	35	304	530	340	MK4 B
	A4611-38	38	320	555	360	MK4 B
	A4611-39	39	320	555	360	MK4 B
	A4611-40	40	320	555	360	MK4 B

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas de HSS com cone Morse, extra longas

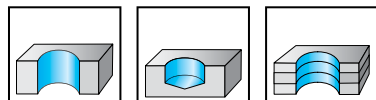
A4722

UFL®

– Sem tratamento a partir de 23,02 mm

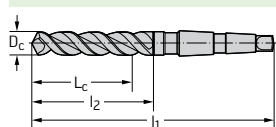
~22×D_c

DIN 1870-II



	P	M	K	N	S	H	O
não revestido	●	●	●	●	●	●	●

Ferramenta



Morse taper

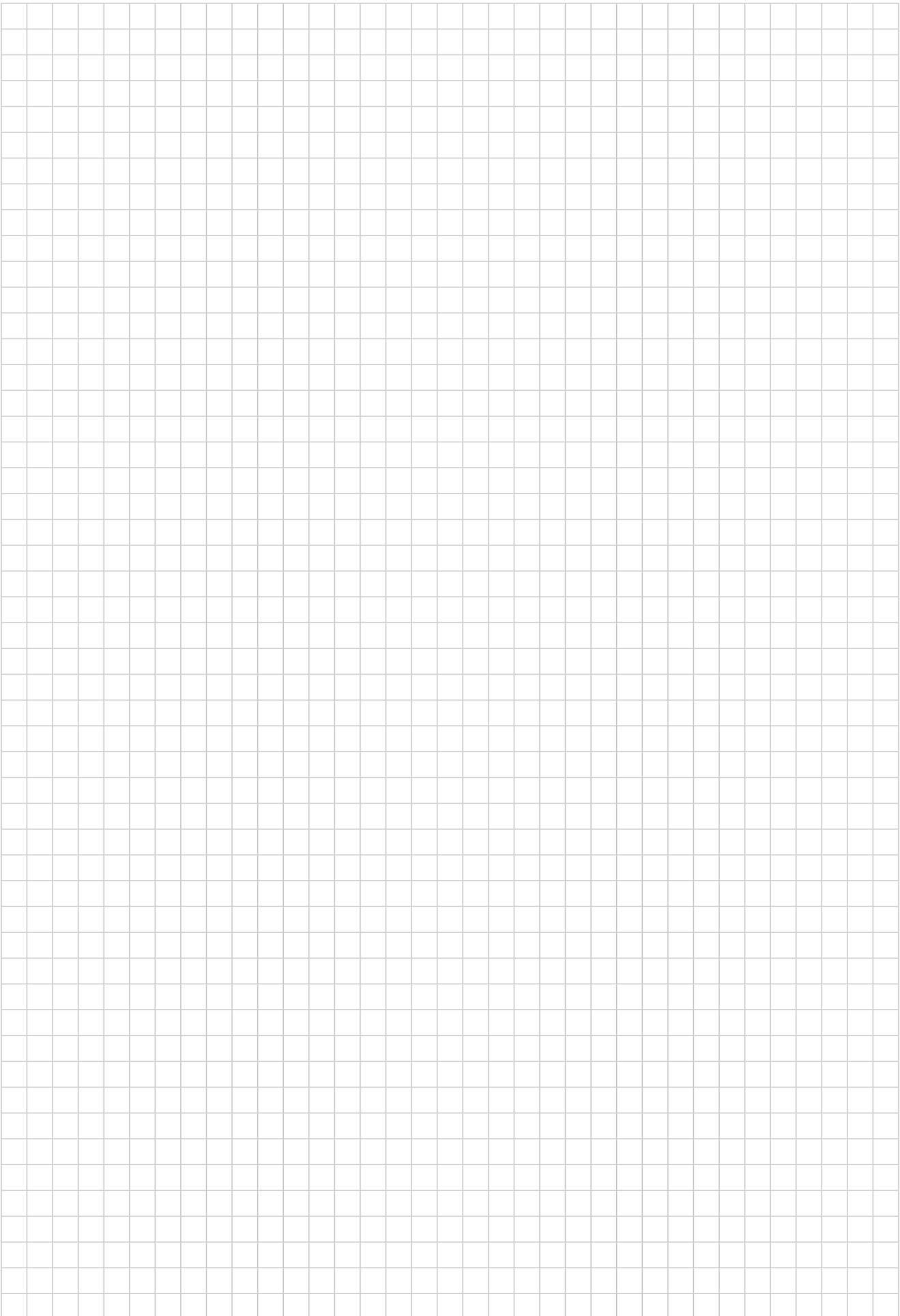
Denominação	D _c h8 mm	L _c mm	l ₁ mm	l ₂ mm	MK
A4722-8	8	197	330	210	MK1 B
A4722-8.5	8,5	197	330	210	MK1 B
A4722-9	9	205	345	220	MK1 B
A4722-10	10	219	360	235	MK1 B
A4722-10.5	10,5	219	360	235	MK1 B
A4722-11	11	232	375	250	MK1 B
A4722-11.5	11,5	232	375	250	MK1 B
A4722-12	12	246	395	260	MK1 B
A4722-12.5	12,5	246	395	260	MK1 B
A4722-13	13	246	395	260	MK1 B
A4722-13.5	13,5	261	410	275	MK1 B
A4722-14	14	261	410	275	MK1 B
A4722-14.5	14,5	260	425	275	MK2 B
A4722-15	15	260	425	275	MK2 B
A4722-15.5	15,5	279	445	295	MK2 B
A4722-16	16	279	445	295	MK2 B
A4722-16.5	16,5	278	445	295	MK2 B
A4722-17	17	278	445	295	MK2 B
A4722-17.5	17,5	292	465	310	MK2 B
A4722-18	18	292	465	310	MK2 B
A4722-18.5	18,5	291	465	310	MK2 B
A4722-19	19	291	465	310	MK2 B
A4722-19.5	19,5	305	490	325	MK2 B
A4722-20	20	305	490	325	MK2 B
A4722-21	21	303	490	325	MK2 B
A4722-22	22	322	515	345	MK2 B
A4722-23	23	321	515	345	MK2 B
A4722-24	24	340	555	365	MK3 B
A4722-25	25	340	555	365	MK3 B
A4722-26	26	338	555	365	MK3 B
A4722-27	27	357	580	385	MK3 B
A4722-28	28	357	580	385	MK3 B
A4722-29	29	355	580	385	MK3 B
A4722-30	30	355	580	385	MK3 B
A4722-32	32	376	635	410	MK4 B
A4722-33	33	376	635	410	MK4 B
A4722-34	34	394	665	430	MK4 B
A4722-35	35	394	665	430	MK4 B
A4722-38	38	420	695	460	MK4 B
A4722-40	40	420	695	460	MK4 B

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞



B1

Brocas de centro NC de metal duro e HSS

Usinagem					
Norma	Walter	Walter	Walter	Walter	Walter
Ângulo de penetração	90°		120°		
					
Descrição	A1174	A1174C	A1114	A1114L	A1114S
Outros serviços					
Classe	CARBIDE SÓLIDO	CARBIDE SÓLIDO	HSS	HSS	HSS
Revestimento / classe	não revestido	não revestido	não revestido	não revestido	não revestido
Haste	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica
Faixa de Ø	3–20	3–20	4–20	4–12,7	2–25,4
P Aço			●●	●●	●●
M Aço inoxidável			●	●	●
K Ferro fundido	●	●	●●	●●	●●
N Metais não ferrosos	●●	●●	●●	●●	●●
S Materiais de usinagem difícil	●●	●●	●	●	●
H Materiais endurecidos					
O Outros	●●	●●	●●	●●	●●
Página do catálogo	B 436	B 440	B 441	B 443	B 442
QR Code					
www.walter-tools.com/woc/	A1174	A1174C	A1114	A1114L	A1114S

Brocas de centro NC de metal duro e HSS

Usinagem



Norma

Walter

Walter

Walter

Ângulo de penetração

90°



Descrição

A1115

A1115L

A1115S

Outros serviços

Classe

HSS

HSS

HSS

Revestimento / classe

não revestido

não revestido

não revestido

Haste

Haste cilíndrica

Haste cilíndrica

Haste cilíndrica

Faixa de Ø

4–20

4–25,4

2–25,4

P Aço

●●

●●

●●

M Aço inoxidável

●

●

●

K Ferro fundido

●●

●●

●●

N Metais não ferrosos

●●

●●

●●

S Materiais de usinagem difícil

●

●

●

H Materiais endurecidos

O Outros

●●

●●

●●

Página do catálogo

B 437

B 439

B 438

QR Code


www.walter-tools.com/woc/

A1115

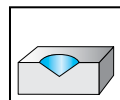
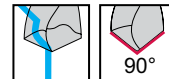
A1115L

A1115S

Brocas de centro NC de metal duro, 90°

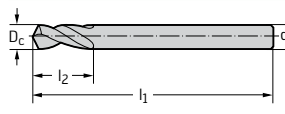
A1174

NC 90°



B1

	P	M	K	N	S	H	O
não revestido			●	●●	●●		●●

Ferramenta		D _c h6 mm	D _c Inch/Nr	l ₁ mm	l ₂ mm	d ₁ h6 mm
 Cylindrical shank	Denominação					
	A1174-3	3		46	11	3
	A1174-4	4		55	15	4
	A1174-5	5		62	16	5
	A1174-6	6		66	17	6
	A1174-1/4IN	6,350	1/4"	70	18	6,35
	A1174-8	8		79	22	8
	A1174-3/8IN	9,525	3/8"	89	26	9,525
	A1174-10	10		89	26	10
	A1174-12	12		102	30	12
	A1174-1/2IN	12,700	1/2"	102	30	12,7
	A1174-16	16		115	34	16
	A1174-20	20		131	40	20

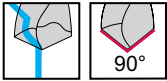
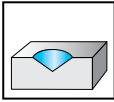
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

Brocas de centro NC de HSS a 90°
A1115

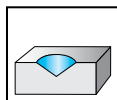
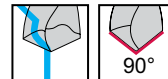


	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●●

Ferramenta		D _c h8 mm	l ₁ mm	l ₂ mm	d ₁ h8 mm
 Cylindrical shank	Denominação				
	A1115-4	4	55	18	4
	A1115-5	5	62	21	5
	A1115-6	6	66	22	6
	A1115-8	8	79	30	8
	A1115-10	10	89	34	10
	A1115-12	12	102	41	12
	A1115-16	16	115	46	16
	A1115-20	20	131	53	20

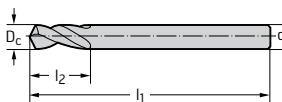
Brocas de centro NC de HSS a 90°

A1115S



B1

	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●●

Ferramenta		D _c h8 mm	D _c Inch/Nr	l ₁ mm	l ₂ mm	d ₁ h8 mm
 Cylindrical shank	Denominação					
	A1115S-2	2		40	8	2
	A1115S-3	3		50	10	3
	A1115S-4	4		52	12	4
	A1115S-5	5		60	15	5
	A1115S-6	6		66	20	6
	A1115S-1/4IN	6,350	1/4"	66	20	6,35
	A1115S-8	8		79	25	8
	A1115S-3/8IN	9,525	3/8"	89	25	9,525
	A1115S-10	10		89	25	10
	A1115S-12	12		102	30	12
	A1115S-1/2IN	12,700	1/2"	102	35	12,7
	A1115S-14	14		115	35	14
	A1115S-5/8IN	15,875	5/8"	115	35	15,875
	A1115S-16	16		115	35	16
	A1115S-18	18		130	40	18
	A1115S-3/4IN	19,050	3/4"	131	40	19,05
	A1115S-20	20		131	40	20
	A1115S-1IN	25,400	1.0"	138	45	25,4

WALTER
SELECT

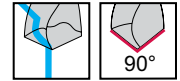
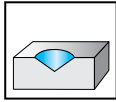
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

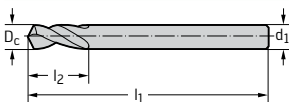
Brocas de centro NC de HSS a 90°

A1115L



	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●●

B1

Ferramenta		D _c h8 mm	D _c Inch/Nr	l ₁ mm	l ₂ mm	d ₁ h8 mm
 Cylindrical shank	A1115L-4	4		100	12	4
	A1115L-5	5		120	15	5
	A1115L-6	6		140	20	6
	A1115L-1/4IN	6,350	1/4"	140	20	6,35
	A1115L-8	8		140	25	8
	A1115L-3/8IN	9,525	3/8"	170	25	9,525
	A1115L-10	10		170	25	10
	A1115L-12	12		170	30	12
	A1115L-1/2IN	12,700	1/2"	170	30	12,7
	A1115L-5/8IN	15,875	5/8"	200	35	15,875
	A1115L-3/4IN	19,050	3/4"	200	40	19,05
	A1115L-20	20		200	40	20
	A1115L-1IN	25,400	1.0"	200	40	25,4

**WALTER
SELECT**

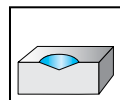
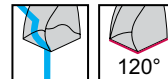
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas de centro NC de metal duro, 120°

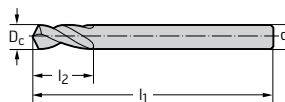
A1174C

NC 120°



B1

	P	M	K	N	S	H	O
não revestido			●	●●	●●		●●

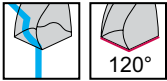
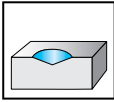
Ferramenta		D _c h6 mm	D _c Inch/Nr	l ₁ mm	l ₂ mm	d ₁ h6 mm
 Cylindrical shank	Denominação					
	A1174C-3	3		46	11	3
	A1174C-4	4		55	15	4
	A1174C-5	5		62	16	5
	A1174C-6	6		66	17	6
	A1174C-1/4IN	6,350	1/4"	70	18	6,35
	A1174C-8	8		79	22	8
	A1174C-3/8IN	9,525	3/8"	89	26	9,525
	A1174C-10	10		89	26	10
	A1174C-12	12		102	30	12
	A1174C-1/2IN	12,700	1/2"	102	30	12,7
	A1174C-16	16		115	34	16
	A1174C-20	20		131	40	20

WALTER
SELECT

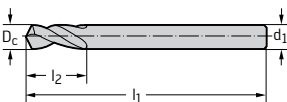
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas de centro NC de HSS a 120°
A1114

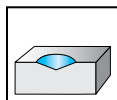
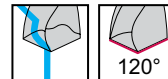


	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●●

Ferramenta		D _c h8 mm	l ₁ mm	l ₂ mm	d ₁ h8 mm
 Cylindrical shank	A1114-4	4	55	18	4
	A1114-5	5	62	21	5
	A1114-6	6	66	22	6
	A1114-8	8	79	30	8
	A1114-10	10	89	34	10
	A1114-12	12	102	41	12
	A1114-16	16	115	46	16
	A1114-20	20	131	53	20

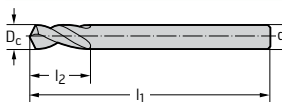
Brocas de centro NC de HSS a 120°

A1114S



B1

	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●●

Ferramenta		D _c h8 mm	D _c Inch/Nr	l ₁ mm	l ₂ mm	d ₁ h8 mm
 Cylindrical shank	Denominação					
	A1114S-2	2		40	8	2
	A1114S-3	3		50	10	3
	A1114S-4	4		52	12	4
	A1114S-5	5		60	15	5
	A1114S-6	6		66	20	6
	A1114S-1/4IN	6,350	1/4"	66	20	6,35
	A1114S-8	8		79	25	8
	A1114S-3/8IN	9,525	3/8"	89	25	9,525
	A1114S-10	10		89	25	10
	A1114S-12	12		102	30	12
	A1114S-1/2IN	12,700	1/2"	102	35	12,7
	A1114S-14	14		115	35	14
	A1114S-5/8IN	15,875	5/8"	115	35	15,875
	A1114S-3/4IN	19,050	3/4"	131	40	19,05
	A1114S-1IN	25,400	1.0"	138	45	25,4

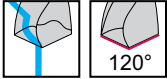
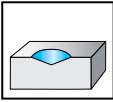
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas de centro NC de HSS a 120°
A1114L



	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●		●●

Ferramenta		D _c h8 mm	D _c Inch/Nr	l ₁ mm	l ₂ mm	d ₁ h8 mm
 Cylindrical shank	A1114L-4	4		100	12	4
	A1114L-5	5		120	15	5
	A1114L-6	6		140	20	6
	A1114L-1/4IN	6,350	1/4"	140	20	6,35
	A1114L-8	8		140	25	8
	A1114L-3/8IN	9,525	3/8"	170	25	9,525
	A1114L-10	10		170	25	10
	A1114L-12	12		170	30	12
	A1114L-1/2IN	12,700	1/2"	170	30	12,7

Brocas de centro de metal duro e de HSS

Usinagem



Formato

A

A

A

A

A



Descrição

K1161XPL

K1161

K1911

K1811

K1411S

Norma

DIN 333-A

DIN 333-A

B.S. 328

ANSI B94.11

Walter

Classe

CARBIDE SÓLIDO

CARBIDE SÓLIDO

HSS

HSS

HSS

Revestimento / classe

XPL

não revestido

não revestido

não revestido

não revestido

Haste

Haste cilíndrica

Haste cilíndrica

Haste cilíndrica

Haste cilíndrica

Haste cilíndrica

Faixa de Ø

0,5–6,3

0,5–6,3

1,191–7,938

0,635–7,938

0,75–5

P Aço

●●

●●

●●

●●

●●

M Aço inoxidável

●●

●●

●●

●●

●●

K Ferro fundido

●●

●●

●●

●●

●●

N Metais não ferrosos

●●

●●

●●

●●

●●

S Materiais de usinagem difícil

●●

●●

●●

●●

●●

H Materiais endurecidos

●●

●

●●

●●

●●

O Outros

●●

●●

●●

●●

●●

Página do catálogo

B 448

B 448

B 457

B 456

B 453

QR Code



www.walter-tools.com/woc/

K1161XPL

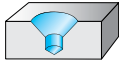
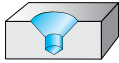
K1161

K1911

K1811

K1411S

Brocas de centro de metal duro e de HSS

Usinagem					
Formato	A	A	R	A	B
					
Descrição	K1411M	K1411L	K1313	K1311	K1215
Norma	Walter	Walter	Walter	Walter	DIN 333-B
Classe	HSS	HSS	HSS	HSS	HSS
Revestimento / classe	não revestido	não revestido	não revestido	não revestido	não revestido
Haste	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica
Faixa de Ø	0,75–4	2–4	1–4	0,63–6	1–10
P Aço	●●	●●	●●	●●	●●
M Aço inoxidável	●●	●●	●●	●●	●●
K Ferro fundido	●●	●●	●●	●●	●●
N Metais não ferrosos	●●	●●	●●	●●	●●
S Materiais de usinagem difícil	●●	●●	●●	●●	●●
H Materiais endurecidos					
O Outros	●●	●●	●●	●●	●●
Página do catálogo	B 454	B 455	B 461	B 452	B 458
QR Code					
www.walter-tools.com/woc/	K1411M	K1411L	K1313	K1311	K1215

B1

Brocas de centro de metal duro e de HSS

Usinagem					
Formato	A	R	R	R	A
    					
Descrição	K1131	K1114	K1113TIN	K1113	K1112
Norma	DIN 333-A	DIN 333-R	DIN 333-R	DIN 333-R	DIN 333-A
Classe	HSS	HSS	HSS	HSS	HSS
Revestimento / classe	não revestido	não revestido	TIN	não revestido	não revestido
Haste	Haste cilíndrica	Haste cilíndrica com face	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica com face
Faixa de Ø	0,5–6,3	2–5	1–5	0,5–10	1,6–5
P Aço	●●	●●	●●	●●	●●
M Aço inoxidável	●●	●●	●●	●●	●●
K Ferro fundido	●●	●●	●●	●●	●●
N Metais não ferrosos	●●	●●	●●	●●	●●
S Materiais de usinagem difícil	●●	●●	●●	●●	●●
H Materiais endurecidos					
O Outros	●●	●●	●●	●●	●●
Página do catálogo	B 451	B 460	B 459	B 459	B 450
QR Code					
www.walter-tools.com/woc/	K1131	K1114	K1113TIN	K1113	K1112

Brocas de centro de metal duro e de HSS

Usinagem



Formato

A

A

Descrição

K1111TIN

K1111

Norma

DIN 333-A

DIN 333-A

Classe

HSS

HSS

Revestimento / classe

TIN

não revestido

Haste

Haste cilíndrica

Haste cilíndrica

Faixa de Ø

1-5

0,5-12,5

P Aço

●●

●●

M Aço inoxidável

●●

●●

K Ferro fundido

●●

●●

N Metais não ferrosos

●●

●●

S Materiais de usinagem difícil

●●

●●

H Materiais endurecidos

O Outros

●●

●●

Página do catálogo

B 449

B 449

QR Code


www.walter-tools.com/woc/

K1111TIN

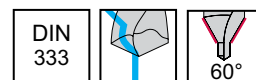
K1111

Brocas de centro de metal duro

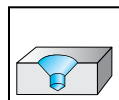
K1161XPL / K1161



– Para superfícies de trabalho retas conforme a DIN 332 A
– Formato A

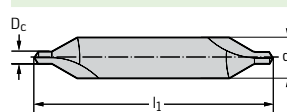


B1



	P	M	K	N	S	H	O
XPL	●●	●●	●●	●●	●●	●●	●●
não revestido	●●	●●	●●	●●	●●	●	●●

Ferramenta



Cylindrical shank

Denominação	D _c k12 mm	l ₁ mm	d ₁ h9 mm
K1161XPL-0.5	0,5	25	3,15
K1161XPL-0.8	0,8	25	3,15
K1161XPL-1	1	31,5	3,15
K1161XPL-1.25	1,25	31,5	3,15
K1161XPL-1.6	1,6	35,5	4
K1161XPL-2	2	40	5
K1161XPL-2.5	2,5	45	6,3
K1161XPL-3.15	3,15	50	8
K1161XPL-4	4	56	10
K1161XPL-5	5	63	12,5
K1161XPL-6.3	6,3	71	16
K1161-0.5	0,5	25	3,15
K1161-0.8	0,8	25	3,15
K1161-1	1	31,5	3,15
K1161-1.25	1,25	31,5	3,15
K1161-1.6	1,6	35,5	4
K1161-2	2	40	5
K1161-2.5	2,5	45	6,3
K1161-3.15	3,15	50	8
K1161-4	4	56	10
K1161-5	5	63	12,5
K1161-6.3	6,3	71	16

D_c 0,5 / 0,8 mm, unilateral

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

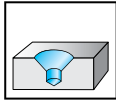
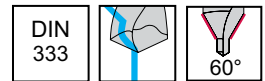
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas de centro de HSS

K1111TIN / K1111

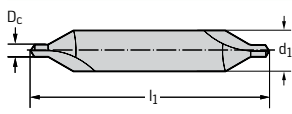


- Para superfícies de trabalho retas conforme a DIN 332 A
- Formato A



	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●●		●●
não revestido	●●	●●	●●	●●	●●		●●

B1

Ferramenta		D _c k12 mm	l ₁ mm	d ₁ h9 mm
 Cylindrical shank	Denominação			
	K1111TIN-1	1	31,5	3,15
	K1111TIN-1.25	1,25	31,5	3,15
	K1111TIN-1.6	1,6	35,5	4
	K1111TIN-2	2	40	5
	K1111TIN-2.5	2,5	45	6,3
	K1111TIN-3.15	3,15	50	8
	K1111TIN-4	4	56	10
	K1111TIN-5	5	63	12,5
	K1111-0.5	0,5	25	3,15
	K1111-0.8	0,8	25	3,15
	K1111-1	1	31,5	3,15
	K1111-1.25	1,25	31,5	3,15
	K1111-1.6	1,6	35,5	4
	K1111-2	2	40	5
	K1111-2.5	2,5	45	6,3
	K1111-3.15	3,15	50	8
	K1111-4	4	56	10
	K1111-5	5	63	12,5
	K1111-6.3	6,3	71	16
	K1111-8	8	80	20
	K1111-10	10	100	25
	K1111-12.5	12,5	125	31,5

D_c 0,5 / 0,8 mm, unilateral
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas de centro de HSS

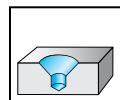
K1112



- Para superfícies de trabalho retas conforme a DIN 332 A
- Formato A com plano de fixação

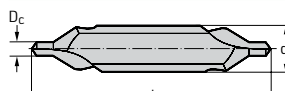
DIN
333


60°



B1

	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta		D _c k12 mm	l ₁ mm	d ₁ h9 mm
 Cylindrical shank with flat	Denominação			
	K1112-1.6	1,6	35,5	4
	K1112-2	2	40	5
	K1112-2.5	2,5	45	6,3
	K1112-3.15	3,15	50	8
	K1112-4	4	56	10
	K1112-5	5	63	12,5

WALTER
SELECT

Ferramenta ideal para condições de usinagem

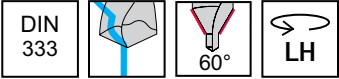
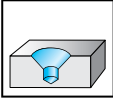
●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas de centro de HSS, esquerdas

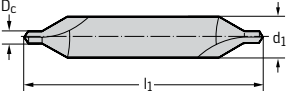
K1131



– Para superfícies de trabalho retas conforme a DIN 332 A
– Formato A



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●		●●

Ferramenta		D _c k12 mm	l ₁ mm	d ₁ h9 mm
 Cylindrical shank	Denominação			
	K1131-0.5	0,5	25	3,15
	K1131-0.8	0,8	25	3,15
	K1131-1	1	31,5	3,15
	K1131-1.25	1,25	31,5	3,15
	K1131-1.6	1,6	35,5	4
	K1131-2	2	40	5
	K1131-2.5	2,5	45	6,3
	K1131-3.15	3,15	50	8
	K1131-4	4	56	10
	K1131-5	5	63	12,5
	K1131-6.3	6,3	71	16

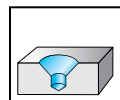
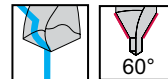
D_c 0,5 / 0,8 mm, unilateral

Brocas de centro de HSS

K1311

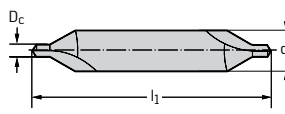


– Para superfícies de trabalho retas conforme a DIN 332 A
– Formato A



B1

	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta		D _c k12 mm	l ₁ mm	d ₁ h9 mm
 Cylindrical shank	Denominação			
	K1311-0.63	0,63	20	3,15
	K1311-0.75	0,75	35	3,5
	K1311-1	1	31,5	4
	K1311-1.5	1,5	40	5
	K1311-1.6	1,6	40	5
	K1311-2	2	45	6
	K1311-2.5	2,5	50	8
	K1311-3	3	56	10
	K1311-3.15	3,15	56	10
	K1311-4	4	66	12
	K1311-5	5	78	14
	K1311-6	6	90	18

D_c 0,63 mm, unilateral

WALTER
SELECT

Ferramenta ideal para condições de usinagem

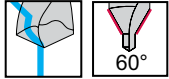
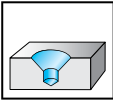
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

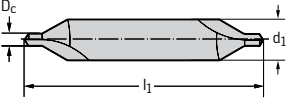
Brocas de centro de HSS, extra longas K1411S



– Para superfícies de trabalho retas conforme a DIN 332 A
– Formato A



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●		●●

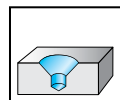
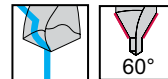
Ferramenta		D _c k12 mm	l ₁ mm	d ₁ h9 mm
 Cylindrical shank	Denominação			
	K1411S-0.75X3.5	0,75	60	3,5
	K1411S-1X4	1	60	4
	K1411S-1.5X5	1,5	60	5
	K1411S-2X6	2	80	6
	K1411S-2.5X8	2,5	80	8
	K1411S-3X8	3	80	8
	K1411S-4X10	4	100	10
	K1411S-5X14	5	120	14

Brocas de centro de HSS, extra longas

K1411M

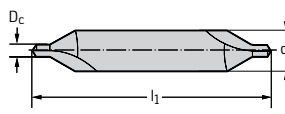


– Para superfícies de trabalho retas conforme a DIN 332 A
– Formato A



B1

	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta		D _c k12 mm	l ₁ mm	d ₁ h9 mm
 Cylindrical shank	Denominação			
	K1411M-0.75X3.5	0,75	120	3,5
	K1411M-1X4	1	120	4
	K1411M-1.5X5	1,5	120	5
	K1411M-2X6	2	120	6
	K1411M-2.5X8	2,5	120	8
	K1411M-3X8	3	120	8
	K1411M-4X10	4	120	10

WALTER
SELECT

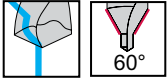
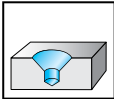
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas de centro de HSS, extra longas
K1411L



– Para superfícies de trabalho retas conforme a DIN 332 A
– Formato A



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●		●●

Ferramenta		D _c k12 mm	l ₁ mm	d ₁ h9 mm
 Cylindrical shank	Denominação			
	K1411L-2X5	2	200	5
	K1411L-2.5X6.3	2,5	200	6,3
	K1411L-3.15X8	3,15	200	8
	K1411L-4X10	4	200	10

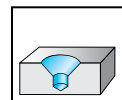
Brocas de centro de HSS

K1811



– Para superfícies de trabalho retas conforme a DIN 332 A
– Formato A

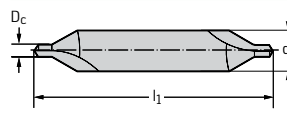
ANSI
B 94.11



B1

	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta

	Denominação	Tamanho	D _c k12 mm	D _c Inch/Nr	l ₁ mm	d ₁ h9 mm
 Cylindrical shank	K1811-N0.00	NR. 00	0,635	1/8"	31	3,175
	K1811-N0.0	NR. 0	0,794	1/8"	31	3,175
	K1811-N01	NR. 1	1,191	1/8"	31,8	3,175
	K1811-N02	NR. 2	1,984	3/16"	47,6	4,763
	K1811-N03	NR. 3	2,778	1/4"	50,8	6,35
	K1811-N04	NR. 4	3,175	5/16"	54	7,938
	K1811-N05	NR. 5	4,763	7/16"	69,9	11,113
	K1811-N06	NR. 6	5,556	1/2"	76,2	12,7
	K1811-N07	NR. 7	6,35	5/8"	82,6	15,875
	K1811-N08	NR. 8	7,938	3/4"	88,9	19,05

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

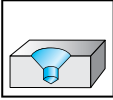
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

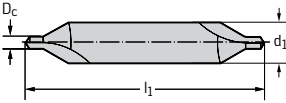
Brocas de centro de HSS
K1911



– Para superfícies de trabalho retas conforme a DIN 332 A
– Formato A



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

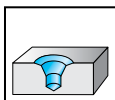
Ferramenta		Denominação	Tamanho	D _c k12 mm	D _c Inch/Nr	l ₁ mm	d ₁ h9 mm
 Cylindrical shank	K1911-BS1	B.S. 1	1,191	1/8"	38,1	3,175	
	K1911-BS2	B.S. 2	1,588	3/16"	44,5	4,763	
	K1911-BS3	B.S. 3	2,381	1/4"	50,8	6,35	
	K1911-BS4	B.S. 4	3,175	5/16"	57,2	7,938	
	K1911-BS5	B.S. 5	4,763	7/16"	63,5	11,113	
	K1911-BS6	B.S. 6	6,35	5/8"	76,2	15,875	
	K1911-BS7	B.S. 7	7,938	3/4"	88,9	19,05	

Brocas de centro de HSS

K1215



– Formato B



DIN
333



120°/60°

	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta		D _c K12 mm	l ₁ mm	d ₁ h9 mm
 Cylindrical shank	Denominação			
	K1215-1	1	31,5	4
	K1215-1.25	1,25	31,5	5
	K1215-1.6	1,6	35,5	6,3
	K1215-2	2	40	8
	K1215-2.5	2,5	45	10
	K1215-3.15	3,15	50	11,2
	K1215-4	4	56	14
	K1215-5	5	63	18
	K1215-6.3	6,3	71	20
	K1215-8	8	80	25
	K1215-10	10	100	31,5

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

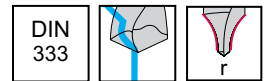
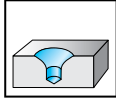
●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas de centro de HSS

K1113TIN / K1113



– Formato R



	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●●		●●
não revestido	●●	●●	●●	●●	●●		●●

B1

Ferramenta		D _c k12 mm	l ₁ mm	d ₁ h9 mm
 Cylindrical shank	Denominação			
	K1113TIN-1	1	31,5	3,15
	K1113TIN-1.25	1,25	31,5	3,15
	K1113TIN-1.6	1,6	35,5	4
	K1113TIN-2	2	40	5
	K1113TIN-2.5	2,5	45	6,3
	K1113TIN-3.15	3,15	50	8
	K1113TIN-4	4	56	10
	K1113TIN-5	5	63	12,5
	K1113-0.5	0,5	25	3,15
	K1113-0.8	0,8	25	3,15
	K1113-1	1	31,5	3,15
	K1113-1.25	1,25	31,5	3,15
	K1113-1.6	1,6	35,5	4
	K1113-2	2	40	5
	K1113-2.5	2,5	45	6,3
	K1113-3.15	3,15	50	8
	K1113-4	4	56	10
	K1113-5	5	63	12,5
	K1113-6.3	6,3	71	16
	K1113-8	8	80	20
	K1113-10	10	100	25

D_c 0,5 / 0,8 mm, unilateral
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

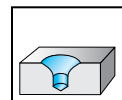
Brocas de centro de HSS

K1114



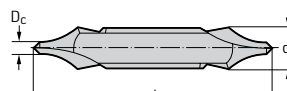
– Formato R com plano de fixação

DIN
333



B1

	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta		D _c k12 mm	l ₁ mm	d ₁ h9 mm
 Cylindrical shank with flat	Denominação			
	K1114-2	2	40	5
	K1114-2.5	2,5	45	6,3
	K1114-3.15	3,15	50	8
	K1114-4	4	56	10
	K1114-5	5	63	12,5

**WALTER
SELECT**

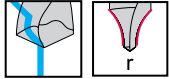
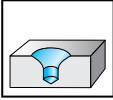
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Brocas de centro de HSS K1313



– Formato R



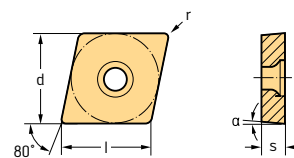
	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●		●●

Ferramenta		D _c k12 mm	l ₁ mm	d ₁ h9 mm
 Cylindrical shank	Denominação			
	K1313-1	1	31,5	4
	K1313-1.5	1,5	40	5
	K1313-2	2	45	6
	K1313-2.5	2,5	50	8
	K1313-3	3	56	10
	K1313-4	4	66	12

Pastilhas para torneamento Rômbico positivo 80°

CCGT / CCMT

Tiger-tec® Gold



Insertos intercambiáveis

B2

	Denominação	l mm	r mm	r mm	P							M					K				N		S		
					HC					HE	HC					HC				HC	HW	HC			
					WKP01G	WPP10G	WXM15	WPP20G	WMP20S	WTP35	WEP10C	WSM01	WSM10S	WXM15	WMP20S	WSM20S	WSM30S	WKP01G	WKK10S	WAK15	WXM15	WKK20S	WNN10	WN10	WSM01
	CCGT060202-X5	6,45	0,2			☺			☺				☺					☺	☺						
	CCGT060204-X5	6,45	0,4			☺			☺				☺					☺	☺						
	CCGT060202-X15	6,45	0,2			☺			☺				☺					☺	☺						
	CCGT060204-X15	6,45	0,4			☺			☺				☺					☺	☺						
	CCGT060201-FN2	6,45		0,1																☺					
	CCGT060202-FN2	6,45		0,2																☺	☺				
	CCGT060204-FN2	6,45		0,4																☺	☺				
	CCGT09T301-FN2	9,67		0,1																☺					
	CCGT09T302-FN2	9,67		0,2																☺	☺				
	CCGT09T304-FN2	9,67		0,4																☺	☺				
	CCGT09T308-FN2	9,67		0,8																☺	☺				
	CCGT120404-FN2	12,9		0,4																☺	☺				
	CCGT120408-FN2	12,9		0,8																☺	☺				
	CCGT060201-FM2	6,45		0,1																					☺
	CCGT060202-FM2	6,45		0,2						☺													☺		☺
	CCGT060204-FM2	6,45		0,4						☺													☺		☺
	CCGT09T301-FM2	9,67		0,1																					☺
	CCGT09T302-FM2	9,67		0,2						☺															☺
	CCGT09T304-FM2	9,67		0,4						☺	☺												☺	☺	☺
	CCGT09T308-FM2	9,67		0,8						☺	☺												☺	☺	☺
	CCGT120404-FM2	12,9		0,4																					☺
	CCGT120408-FM2	12,9		0,8																					☺
	CCGT060201M-FP2	6,45		0,07						☺															
	CCGT060202M-FP2	6,45		0,17						☺															
	CCGT060204M-FP2	6,45		0,37						☺															
	CCGT09T301M-FP2	9,67		0,07						☺															
	CCGT09T302M-FP2	9,67		0,17						☺															
	CCGT09T304M-FP2	9,67		0,37						☺															
	CCGT09T308M-FP2	9,67		0,77						☺															
	CCMT060202-FP4	6,45		0,2	☺	☺		☺									☺								
	CCMT060204-FP4	6,45		0,4	☺	☺		☺									☺								
	CCMT060208-FP4	6,45		0,8	☺	☺		☺									☺								
	CCMT09T302-FP4	9,67		0,2	☺	☺		☺									☺								
	CCMT09T304-FP4	9,67		0,4	☺	☺		☺									☺								
	CCMT09T308-FP4	9,67		0,8	☺	☺		☺									☺								
	CCMT120404-FP4	12,9		0,4	☺	☺		☺									☺								
	CCMT120408-FP4	12,9		0,8		☺		☺																	
	CCGT060201-MN2	6,45		0,1																☺	☺				
	CCGT060202-MN2	6,45		0,2																☺	☺				
	CCGT060204-MN2	6,45		0,4																☺	☺	☺			
	CCGT09T301-MN2	9,67		0,1																☺	☺				
	CCGT09T302-MN2	9,67		0,2																☺	☺	☺			
	CCGT09T304-MN2	9,67		0,4																☺	☺	☺			

Dimensões – consulte o código descritivo conforme a ISO 1832
Exemplo de pedido para a classe WAK15: CCGT060202-X5 WAK15

HC = metal duro com revestimento
HE = Cermet revestido
HW = Metal duro não revestido

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

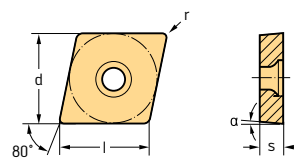
→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹

Pastilhas para torneamento Rômbico positivo 80°

CCGT / CCMT

Tiger-tec®
Gold


Insertos intercambiáveis

	Denominação	l mm	r mm	r mm	P						M					K					N		S			
					HC						HE	HC					HC					HC	HW	HC		
					WKP01G	WPP10G	WXM15	WPP20G	WMP20S	WTP35	WEP10C	WSM01	WSM10S	WXM15	WMP20S	WSM20S	WSM30S	WKP01G	WKK10S	WAK15	WXM15	WKK20S	WNN10	WN10	WSM01	WSM10S
	CCGT09T308-MN2	9,67		0,8							☺										☺☺☺☺					
	CCGT120402-MN2	12,9		0,2																	☺☺☺☺					
	CCGT120404-MN2	12,9		0,4																	☺☺☺☺					
	CCGT120408-MN2	12,9		0,8																	☺☺☺☺					
	CCMT060202-FM4	6,45		0,2					☺☺					☺☺☺☺	☺☺☺☺									☺☺☺☺	☺☺☺☺	
	CCMT060204-FM4	6,45		0,4					☺☺					☺☺☺☺	☺☺☺☺								☺☺☺☺	☺☺☺☺	☺☺☺☺	
	CCMT060208-FM4	6,45		0,8					☺☺					☺☺☺☺	☺☺☺☺									☺☺☺☺	☺☺☺☺	
	CCMT09T302-FM4	9,67		0,2					☺☺					☺☺☺☺	☺☺☺☺									☺☺☺☺	☺☺☺☺	
	CCMT09T304-FM4	9,67		0,4					☺☺					☺☺☺☺	☺☺☺☺									☺☺☺☺	☺☺☺☺	
	CCMT09T308-FM4	9,67		0,8					☺☺					☺☺☺☺	☺☺☺☺									☺☺☺☺	☺☺☺☺	
	CCMT120404-FM4	12,9		0,4										☺☺☺☺	☺☺☺☺									☺☺☺☺	☺☺☺☺	
	CCMT120408-FM4	12,9		0,8										☺☺☺☺	☺☺☺☺									☺☺☺☺	☺☺☺☺	
	CCMT060204-FP6	6,45		0,4		☺☺		☺☺																		
	CCMT060208-FP6	6,45		0,8				☺☺																		
	CCMT09T304-FP6	9,67		0,4		☺☺		☺☺																		
	CCMT09T308-FP6	9,67		0,8		☺☺		☺☺																		
	CCMT120404-FP6	12,9		0,4				☺☺																		
	CCMT120408-FP6	12,9		0,8				☺☺																		
	CCMT060204-FK6	6,45		0,4													☺☺				☺☺					
	CCMT060208-FK6	6,45		0,8													☺☺				☺☺					
	CCMT09T304-FK6	9,67		0,4													☺☺				☺☺					
	CCMT09T308-FK6	9,67		0,8													☺☺				☺☺					
	CCMT120404-FK6	12,9		0,4																	☺☺					
	CCMT120408-FK6	12,9		0,8													☺☺				☺☺					
	CCMT060204-FM6	6,45		0,4											☺☺☺☺	☺☺☺☺								☺☺☺☺	☺☺☺☺	
	CCMT060208-FM6	6,45		0,8											☺☺☺☺	☺☺☺☺								☺☺☺☺	☺☺☺☺	
	CCMT09T304-FM6	9,67		0,4											☺☺☺☺	☺☺☺☺								☺☺☺☺	☺☺☺☺	
	CCMT09T308-FM6	9,67		0,8											☺☺☺☺	☺☺☺☺								☺☺☺☺	☺☺☺☺	
	CCMT120408-FM6	12,9		0,8											☺☺☺☺	☺☺☺☺								☺☺☺☺	☺☺☺☺	

Dimensões – consulte o código descritivo conforme a ISO 1832
 Exemplo de pedido para a classe WAK15: CCGT060202-X5 WAK15

HC = metal duro com revestimento
 HE = Cermet revestido
 HW = Metal duro não revestido

B2

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem → boas = ☺ → médias = ☹ → desfavoráveis = ☹☹

☹ ☹ ☹ / ★ = novo no programa

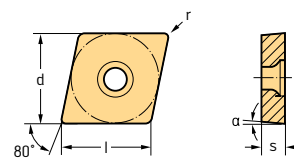
Insertos intercambiáveis para calibração e mandrilamento de precisão B 463

Rômbico positivo 80°

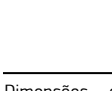
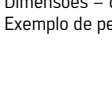
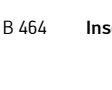
CPGT / CPMT / CCMT

Tiger-tec®

Gold



Insertos intercambiáveis

Denominação	l mm	r mm	r mm	P					M				K		N		S	
				HC					HC				HC		HW		HC	
				WPP10G	WXM15	WPP20G	WMP20S	WTP35	WEP10C	WSM01	WXM15	WMP20S	WSM20S	WAK15	WXM15	WK1	WSM01	WSM20S
 CPGT050202-X5	5,65	0,2		☺				☹			☺			☺	☺			
 CPGT050204-X5	5,65	0,4		☺				☹			☺			☺	☺			
 CPGT050202-X15	5,65	0,2		☺				☹			☺			☺	☺			
 CPGT050204-X15	5,65	0,4		☺				☹			☺			☺	☺	☹		
 CPGT050204-X25	5,65	0,4														☹		
 CPMT050204-FM4	5,64		0,4				☹					☹	☹					☹
 CPMT060204-FM4	6,45		0,4				☹					☹	☹					☹
 CPMT09T304-FM4	9,67		0,4				☹					☹	☹					☹
 CPMT09T308-FM4	9,67		0,8				☹					☹	☹					☹
 CPGT050202M-FP2	5,64		0,17					☹										
 CPGT050204M-FP2	5,64		0,37					☹										
 CPMT050204-FP4	5,64		0,4	☹														
 CPMT060204-FP4	6,45		0,4	☹														
 CPMT09T304-FP4	9,67		0,4	☹														
 CPMT09T308-FP4	9,67		0,8	☹														
 CCMT060204-FP6	6,45		0,4	☹	☹													
 CCMT060208-FP6	6,45		0,8		☹													
 CCMT09T304-FP6	9,67		0,4	☹	☹	☹												
 CCMT09T308-FP6	9,67		0,8	☹	☹	☹												
CCMT120404-FP6	12,9		0,4		☹													
CCMT120408-FP6	12,9		0,8		☹													
CPGT050204-MM4	5,64		0,4									☹						☹
CPGT060201-MM4	6,45		0,1							☹							☹	
CPGT060202-MM4	6,45		0,2							☹							☹	
CPGT060204-MM4	6,45		0,4							☹			☹				☹	☹
CPGT060208-MM4	6,45		0,8							☹							☹	
CPGT09T301-MM4	9,67		0,1							☹							☹	
CPGT09T304-MM4	9,67		0,4							☹		☹					☹	☹
CPGT09T308-MM4	9,67		0,8							☹		☹					☹	☹

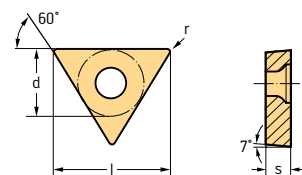
Dimensões – consulte o código descritivo conforme a ISO 1832
Exemplo de pedido para a classe WAK15: CPGT050202-X5 WAK15

HC = metal duro com revestimento
HE = Cermet revestido
HW = Metal duro não revestido

Pastilhas para torneamento Triangular positivo 60°

TCGT / TCMT

Tiger-tec® Gold



Insertos intercambiáveis

	Denominação	l mm	r mm	P					M					K	N		S						
				HC					HC					HC	HC	HW	HC						
				WKP01G	WPP10G	WPP20G	WMP20S	WEP10C	WSM01	WSM10S	WMP20S	WSM20S	WSM21	WSM30S	WKP01G	WNN10	WN10	WSM01	WSM10S	WSM20S	WSM21	WSM30S	
	TCGT06T101-FN2	6,87	0,1																				
	TCGT06T102-FN2	6,87	0,2																				
	TCGT06T104-FN2	6,87	0,4																				
	TCGT090202-FN2	9,62	0,2																				
	TCGT090204-FN2	9,62	0,4																				
	TCGT110202-FN2	11	0,2																				
	TCGT110204-FN2	11	0,4																				
	TCGT16T304-FN2	16,5	0,4																				
TCGT16T308-FN2	16,5	0,8																					
	TCGT06T101-FM2	6,87	0,1																				
	TCGT06T102-FM2	6,87	0,2																				
	TCGT06T104-FM2	6,87	0,4																				
	TCGT090202-FM2	9,62	0,2																				
	TCGT090204-FM2	9,62	0,4																				
	TCGT110201-FM2	11	0,1																				
	TCGT110202-FM2	11	0,2																				
	TCGT110204-FM2	11	0,4																				
	TCGT16T302-FM2	16,5	0,2																				
TCGT16T304-FM2	16,5	0,4																					
TCGT16T308-FM2	16,5	0,8																					
	TCMT06T102-FM4	6,87	0,2																				
	TCMT06T104-FM4	6,87	0,4																				
	TCMT090202-FM4	9,62	0,2																				
	TCMT090204-FM4	9,62	0,4																				
	TCMT090208-FM4	9,62	0,8																				
	TCMT110202-FM4	11	0,2																				
	TCMT110204-FM4	11	0,4																				
	TCMT110208-FM4	11	0,8																				
	TCMT16T302-FM4	16,5	0,2																				
	TCMT16T304-FM4	16,5	0,4																				
	TCMT16T308-FM4	16,5	0,8																				
		TCGT06T104M-FP2	6,87	0,37																			
TCGT090204M-FP2		9,62	0,37																				
TCGT110202M-FP2		11	0,17																				
TCGT110204M-FP2		11	0,37																				
	TCMT06T102-FP4	6,87	0,2																				
	TCMT06T104-FP4	6,87	0,4																				
	TCMT090202-FP4	9,62	0,2																				
	TCMT090204-FP4	9,62	0,4																				
	TCMT090208-FP4	9,62	0,8																				
	TCMT110202-FP4	11	0,2																				
	TCMT110204-FP4	11	0,4																				
	TCMT110208-FP4	11	0,8																				

Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WNN10: TCGT06T101-FN2 WNN10

HC = metal duro com revestimento

HE = Cermet revestido

HW = Metal duro não revestido

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹

☹ ☹ ☹ / ★ = novo no programa

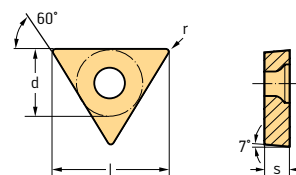
Insertos intercambiáveis para calibração e mandrilamento de precisão

B 465

Pastilhas para torneamento Triangular positivo 60°

TCGT / TCMT

Tiger-tec®
Gold



Insertos intercambiáveis

	Denominação	l mm	r mm	P					M					K	N		S				
				HC					HC					HC	HC	HW	HC				
				WKP01G	WPP10G	WPP20G	WMP20S	WEP10C	WSM01	WSM10S	WMP20S	WSM20S	WSM21	WSM30S	WKP01G	WNN10	WN10	WSM01	WSM10S	WSM20S	WSM21
	TCMT16T302-FP4	16,5	0,2																		
	TCMT16T304-FP4	16,5	0,4																		
	TCMT16T308-FP4	16,5	0,8																		
	TCMT110204-FP6	11	0,4																		
	TCMT110208-FP6	11	0,8																		
	TCMT16T304-FP6	16,5	0,4																		
	TCMT16T308-FP6	16,5	0,8																		
	TCGT110201-MN2	11	0,1																		
	TCGT110202-MN2	11	0,2																		
	TCGT110204-MN2	11	0,4																		
	TCGT16T302-MN2	16,5	0,2																		
	TCGT16T304-MN2	16,5	0,4																		
	TCGT16T308-MN2	16,5	0,8																		

Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WNN10: TCGT06T101-FN2 WNN10

HC = metal duro com revestimento

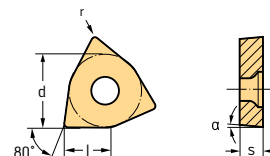
HE = Cermet revestido

HW = Metal duro não revestido

Pastilhas para torneamento Trigonal positivo 80°

WCGT / WCMT / WCMW

Tiger-tec® Gold



Insertos intercambiáveis

Denominação	Quantidade de arestas de corte	l mm	r mm	r mm	P				M				K		N				S		H	
					HC				HC				HC		BH				HC		BH	
					WPP10G	WXM15	WPP20G	WTP35	WXM15	WSM20S	WSM21	WSM30S	WAK15	WCB80	WNN10	WKL	WCD10	WSM20S	WSM21	WSM30S	WCB50	WCB80
WCGT020102-X5		2,7	0,2																			
WCGT020104-X5		2,7	0,4																			
WCGT030202-X5		3,5	0,2																			
WCGT030204-X5		3,5	0,4																			
WCGT040202-X5		4,3	0,2																			
WCGT040204-X5		4,3	0,4																			
WCGT050304-X5		5,43	0,4																			

Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WAK15: WCGT020102-X5 WAK15

HC = metal duro com revestimento

BH = CBN com alto teor de CBN

HW = Metal duro não revestido

DP = Diamante policristalino

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

→ boas = ☺

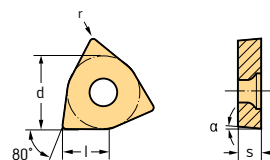
→ médias = ☹

→ desfavoráveis = ☹

Pastilhas para torneamento Trigonal positivo 80°

WCGT / WCMT / WCMW

Tiger-tec® Gold



Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l mm	r mm	r mm	P				M				K		N				S		H	
						HC				HC				HC	BH	HC	HW	DP	HC		BH		
						WPP10G	WXM15	WPP20G	WTP35	WXM15	WSM20S	WSM21	WSM30S	WAK15	WXM15	WCB80	WNN10	WK1	WCD10	WSM20S	WSM21	WSM30S	WCB50
	WCGT020102-X15		2,7	0,2		☺	☺	☺	☺				☺	☺			☺						
	WCGT020104-X15		2,7	0,4		☺	☺	☺	☺				☺	☺									
	WCGT030202-X15		3,5	0,2		☺	☺	☺	☺				☺	☺			☺						
	WCGT030204-X15		3,5	0,4		☺	☺	☺	☺				☺	☺									
	WCGT040202-X15		4,3	0,2		☺	☺	☺	☺				☺	☺									
	WCGT040204-X15		4,3	0,4		☺	☺	☺	☺				☺	☺									
WCGT050304-X15		5,43	0,4		☺		☺	☺				☺	☺										
	WCGT020102-X25		2,7	0,2												☺							
	WCGT030202-X25		3,5	0,2												☺							
	WCGT030204-X25		3,5	0,4												☺							
	WCGT040204-X25		4,3	0,4												☺							
	WCGT050304-X25		5,43	0,4												☺							
	WCGT020102-FN2		2,7		0,2											☺							
	WCGT020104-FN2		2,7		0,4											☺							
	WCGT030202-FN2		3,91		0,2											☺							
	WCGT030204-FN2		3,91		0,4											☺							
	WCGT040202-FN2		4,34		0,2											☺							
	WCGT040204-FN2		4,34		0,4											☺							
	WCGT06T304-FN2		6,52		0,4											☺							
	WCGT06T308-FN2		6,52		0,8											☺							
	WCGT030202-FM2		3,91		0,2						☺								☺				
	WCGT030204-FM2		3,91		0,4						☺								☺				
	WCGT040202-FM2		4,34		0,2						☺								☺				
	WCGT040204-FM2		4,34		0,4						☺								☺				
	WCMT040202-FM4		4,34		0,2						☺	☺							☺	☺			
	WCMT040204-FM4		4,34		0,4						☺	☺							☺	☺			
	WCMT06T304-FM4		6,52		0,4						☺	☺							☺	☺			
	WCMT06T308-FM4		6,52		0,8						☺	☺							☺	☺			
	WCMT040202-FP4		4,34		0,2	☺		☺															
	WCMT040204-FP4		4,34		0,4	☺		☺															
	WCMT040208-FP4		4,34		0,8			☺															
	WCMT06T302-FP4		6,52		0,2			☺															
	WCMT06T304-FP4		6,52		0,4			☺															
	WCMT06T308-FP4		6,52		0,8			☺															
	WCMT080404-FP4		8,69		0,4			☺															
	WCMT080408-FP4		8,69		0,8			☺															
	WCGT030202-MN2		3,91		0,2											☺							
	WCGT030204-MN2		3,91		0,4										☺								
	WCGT040204-MN2		4,34		0,4										☺								
	WCGT06T302-MN2		6,52		0,2										☺								
	WCGT06T304-MN2		6,52		0,4										☺								
	WCGT080404-MN2		8,69		0,4										☺								
	WCGT080408-MN2		8,69		0,8										☺								

Dimensões – consulte o código descritivo conforme a ISO 1832
Exemplo de pedido para a classe WAK15: WCGT020102-X5 WAK15

HC = metal duro com revestimento
BH = CBN com alto teor de CBN
HW = Metal duro não revestido
DP = Diamante policristalino

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem → boas = ☺ → médias = ☹ → desfavoráveis = ☹

☺ ☹ ☹ / ★ = novo no programa

Insertos intercambiáveis para calibração e mandrilamento de precisão

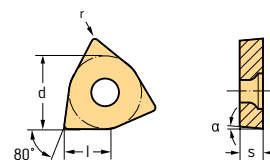
B 467

B2

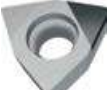
Pastilhas para torneamento Trigonal positivo 80°

WCGT / WCMT / WCMW

Tiger-tec®
Gold



Insertos intercambiáveis

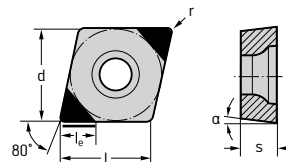
		Quantidade de arestas de corte	l mm	r mm	r mm	P				M				K			N			S			H			
Denominação	1					2,7	0,2	0,4	0,2	0,4	0,2	0,4	0,2	0,4	0,2	0,4	0,2	0,4	0,2	0,4	0,2	0,4	0,2	0,4	0,2	0,4
		1	2,7	0,2																						
	WCMW020102	1	2,7	0,2												☺								☺	☺	
	WCMW020104	1	2,7	0,4																				☺	☺	
	WCMW030202	1	3,5	0,2													☺							☺	☺	
	WCMW030204	1	3,5	0,4													☺							☺	☺	
	WCMW040202	1	4,3	0,2													☺							☺		
	WCMW040204	1	4,3	0,4													☺							☺	☺	
	WCMW050304	1	5,43	0,4													☺							☺	☺	
	WCMW020104		2,7	0,4															☺							
	WCMW030202		3,5	0,2															☺							
	WCMW030204		3,5	0,4															☺							
	WCMW040202		4,3	0,2															☺							
	WCMW040204		4,3	0,4															☺							
	WCMW050304		5,43	0,4															☺							

Dimensões – consulte o código descritivo conforme a ISO 1832
Exemplo de pedido para a classe WAK15: WCGT020102-X5 WAK15

HC = metal duro com revestimento
BH = CBN com alto teor de CBN
HW = Metal duro não revestido
DP = Diamante policristalino

Pastilhas para torneamento CBN – rômbico positivo 80°

CCGW



Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l _e mm	l mm	r mm	α	K		S		H	
							BH	BH	BC	BL	BH	BH
	CCGW09T304TS-MW2	2	2,8	9,67	0,4	7°			☺			
	CCGW09T308TM-MW2	2	2,7	9,67	0,8	7°			☺			
	CCGW060202EM-2	2	2,8	6,45	0,2	7°		☺				
	CCGW060204EM-2	2	2,8	6,45	0,4	7°		☺				
	CCGW09T304EM-2	2	2,8	9,67	0,4	7°		☺				
	CCGW09T308EM-2	2	2,7	9,67	0,8	7°		☺				

Dimensões – consulte o código descritivo conforme a ISO 1832
Exemplo de pedido para a classe WBH10C: CCGW09T304TS-MW2 WBH10C

BH = CBN com alto teor de CBN
BC = revestido de CBN
BL = CBN com baixo teor de CBN

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

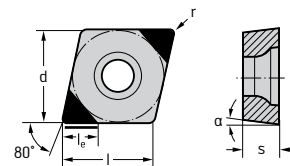
→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹

Pastilhas para torneamento CBN – rômbico positivo 80°

CCGW



Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l _e mm	l mm	r mm	α	K	S	H				
							BH	BH	BC	BL	BH	BH	BH
	CCGW060202TS-2	2	2,8	6,45	0,2	7°	WBK20	WBS10	WBH10C	WBH20C	WBH10	WBH20	WBH30
	CCGW060204TS-2	2	2,8	6,45	0,4	7°	WBK20	WBS10	WBH10C	WBH20C	WBH10	WBH20	WBH30
	CCGW060208TS-2	2	2,7	6,45	0,8	7°	WBK20	WBS10	WBH10C	WBH20C	WBH10	WBH20	WBH30
	CCGW09T304TS-2	2	2,8	9,67	0,4	7°	WBK20	WBS10	WBH10C	WBH20C	WBH10	WBH20	WBH30
	CCGW09T308TS-2	2	2,7	9,67	0,8	7°	WBK20	WBS10	WBH10C	WBH20C	WBH10	WBH20	WBH30
	CCGW060202TM-2	2	2,8	6,45	0,2	7°	WBK20	WBS10	WBH10C	WBH20C	WBH10	WBH20	WBH30
	CCGW060204TM-2	2	2,8	6,45	0,4	7°	WBK20	WBS10	WBH10C	WBH20C	WBH10	WBH20	WBH30
	CCGW060208TM-2	2	2,7	6,45	0,8	7°	WBK20	WBS10	WBH10C	WBH20C	WBH10	WBH20	WBH30
	CCGW09T304TM-2	2	2,8	9,67	0,4	7°	WBK20	WBS10	WBH10C	WBH20C	WBH10	WBH20	WBH30
	CCGW09T308TM-2	2	2,7	9,67	0,8	7°	WBK20	WBS10	WBH10C	WBH20C	WBH10	WBH20	WBH30

Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WBH10C: CCGW09T304TS-MW2 WBH10C

BH = CBN com alto teor de CBN

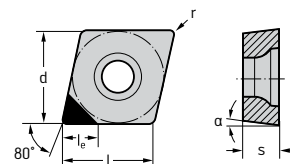
BC = revestido de CBN

BL = CBN com baixo teor de CBN

B2

Pastilhas para torneamento CBN – rômbico positivo 80°

CPGW



Insertos intercambiáveis

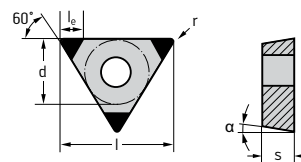
	Denominação	Quantidade de arestas de corte	l mm	r mm	H
					BH
	CPGW050202	1	5,65	0,2	WCB50
	CPGW050204	1	5,65	0,4	WCB50

Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WCB50: CPGW050202 WCB50

BH = CBN com alto teor de CBN

Pastilhas para torneamento CBN – triangular positivo 60° TCGW



Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l _e mm	l mm	r mm	α	K	H				
							BH	BC	BL		BH	
							WBK20	WBH10C	WBH20C	WBH10	WBH20	WBH30
	TCGW110202TS-3	3	2,8	11	0,2	7°						
	TCGW110204TS-3	3	3,1	11	0,4	7°						
	TCGW110204TM-3	3	3,1	11	0,4	7°						
	TCGW110208TM-3	3	2,8	11	0,8	7°						

Dimensões – consulte o código descritivo conforme a ISO 1832
Exemplo de pedido para a classe WBK20: TCGW110202TS-3 WBK20

BH = CBN com alto teor de CBN
BC = revestido de CBN
BL = CBN com baixo teor de CBN

Trigonal positivo a 80° WCMW

Insertos intercambiáveis

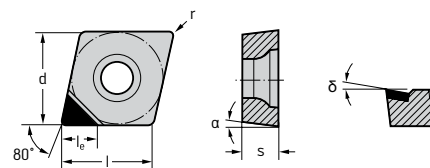
	Denominação	Quantidade de arestas de corte	l mm	r mm	K	N	H
					BH	DP	BH
	WCMW020104		2,7	0,4	WCB80	WCD10	WCB50
	WCMW030202		3,5	0,2	WCB80	WCD10	WCB50
	WCMW030204		3,5	0,4	WCB80	WCD10	WCB50
	WCMW040202		4,3	0,2	WCB80	WCD10	WCB50
	WCMW040204		4,3	0,4	WCB80	WCD10	WCB50
	WCMW050304		5,43	0,4	WCB80	WCD10	WCB50
	WCMW020102	1	2,7	0,2	WCB80	WCD10	WCB50
	WCMW020104	1	2,7	0,4	WCB80	WCD10	WCB50
	WCMW030202	1	3,5	0,2	WCB80	WCD10	WCB50
	WCMW030204	1	3,5	0,4	WCB80	WCD10	WCB50
	WCMW040202	1	4,3	0,2	WCB80	WCD10	WCB50
	WCMW040204	1	4,3	0,4	WCB80	WCD10	WCB50
	WCMW050304	1	5,43	0,4	WCB80	WCD10	WCB50

Dimensões – consulte o código descritivo conforme a ISO 1832
Exemplo de pedido para a classe WCD10: WCMW020104 WCD10

BH = CBN com alto teor de CBN
DP = Diamante policristalino

Pastilhas para torneamento PCD – rômbico positivo 80°

CCGT / CCGW



Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l _e mm	l mm	r mm	α		N DP	O DP
								WDN10	WDN10
	CCGT060202FS-1	1	3,5	6,45	0,2	7°	7°		
	CCGT060204FS-1	1	3,5	6,45	0,4	7°	7°		
	CCGT060208FS-1	1	3,5	6,45	0,8	7°	7°		
	CCGT09T304FS-1	1	4	9,67	0,4	7°	10°		
	CCGT09T308FS-1	1	4	9,67	0,8	7°	10°		
	CCGW060202FS-1	1	3,6	6,45	0,2	7°	0°		
	CCGW060204FS-1	1	3,5	6,45	0,4	7°	0°		
	CCGW060208FS-1	1	3,5	6,45	0,8	7°	0°		
	CCGW09T302FS-1	1	4,1	9,67	0,2	7°	0°		
	CCGW09T304FS-1	1	4,1	9,67	0,4	7°	0°		
	CCGW09T308FS-1	1	4	9,67	0,8	7°	0°		
	CCGW120404FS-1	1	4,1	12,9	0,4	7°	0°		
	CCGW120408FS-1	1	4	12,9	0,8	7°	0°		
 Chipbreaker	CCGT060204FS-M1	1	3,5	6,45	0,4	7°	25°		
	CCGT09T304FS-M1	1	4	9,67	0,4	7°	25°		
	CCGW060204FSL-9	1	6,4	6,45	0,4	7°	0°		
	CCGW09T304FSL-9	1	9,7	9,67	0,4	7°	0°		
	CCGW09T308FSL-9	1	9,7	9,67	0,8	7°	0°		
	CCGW060204FSR-9	1	6,4	6,45	0,4	7°	0°		
	CCGW09T304FSR-9	1	9,7	9,67	0,4	7°	0°		
	CCGW09T308FSR-9	1	9,7	9,67	0,8	7°	0°		

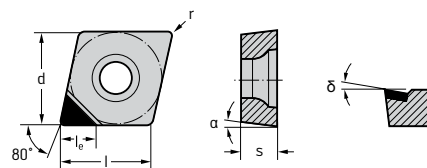
Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WDN10: CCGT060202FS-1 WDN10

DP = Diamante policristalino

Pastilhas para torneamento PCD – rômbico positivo 80°

CPGW



Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l_e mm	l mm	r mm	α		N	O
								DP	DP
								WDN10	WDN10
	CPGW050204FS-1	1	3	5,64	0,4	11°	0°		
	CPGW060204FS-1	1	3,5	6,45	0,4	11°	0°		
	CPGW09T304FS-1	1	4	9,67	0,4	11°	0°		
	CPGW09T308FS-1	1	4	9,67	0,8	11°	0°		
	CPGW120408FS-1	1	4	12,9	0,8	11°	0°		

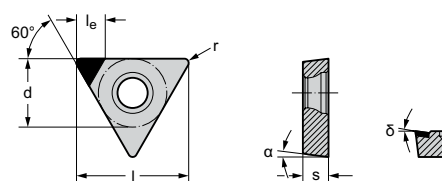
Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WDN10: CPGW050204FS-1 WDN10

DP = Diamante policristalino

Pastilhas para torneamento PCD – triangular positivo 60°

TCGW



Insertos intercambiáveis

	Denominação	Quantidade de arestas de corte	l_e mm	l mm	r mm	α		N	O
								DP	DP
								WDN10	WDN10
	TCGW090204FS-1	1	3,8	9,62	0,4	7°	0°		
	TCGW110202FS-1	1	4,4	11	0,2	7°	0°		
	TCGW110204FS-1	1	4,3	11	0,4	7°	0°		
	TCGW110208FS-1	1	4	11	0,8	7°	0°		
	TCGW16T304FS-1	1	4,3	16,5	0,4	7°	0°		
	TCGW16T308FS-1	1	4	16,5	0,8	7°	0°		
	TCGW090204FS-9	1	9	9,62	0,4	7°	0°		
	TCGW110204FS-9	1	10,4	11	0,4	7°	0°		
	TCGW16T308FS-9	1	15,3	16,5	0,8	7°	0°		

Dimensões – consulte o código descritivo conforme a ISO 1832

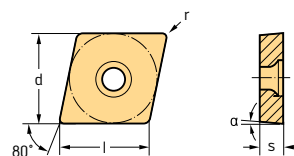
Exemplo de pedido para a classe WDN10: TCGW090204FS-1 WDN10

DP = Diamante policristalino

Pastilhas para torneamento Rômbico positivo 80°

CCMT / CCGT

Tiger-tec® Gold



Insertos intercambiáveis

	Denominação	l mm	r mm	r mm	P										M					K		S				
					HC					HE					HC					HC		HC				
					WPP10G	WPP20G	WPP20S	WSM20S	WMP20S	WPP30G	WEP10C	WSM01	WSM10S	WMP20S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S	WSM20S	WSM30S				
	CCMT060202-E47	6,45	0,2				☹	☹							☹	☹							☹	☹		
	CCMT060204-E47	6,45	0,4				☹	☹							☹	☹							☹	☹		
	CCMT09T302-E47	9,67	0,2				☹	☹							☹	☹							☹	☹		
	CCMT09T304-E47	9,67	0,4				☹	☹							☹	☹							☹	☹		
	CCMT09T308-E47	9,67	0,8				☹	☹							☹	☹							☹	☹		
	CCMT120404-E47	12,9	0,4				☹	☹							☹	☹							☹	☹		
	CCMT120408-E47	12,9	0,8				☹	☹							☹	☹							☹	☹		
	CCMT120412-E47	12,9	1,2				☹	☹							☹	☹							☹	☹		
	CCMT060204-MP4	6,45		0,4	☹	☹																				
	CCMT060208-MP4	6,45		0,8	☹	☹																				
	CCMT09T304-MP4	9,67		0,4	☹	☹					☹															
	CCMT09T308-MP4	9,67		0,8	☹	☹					☹															
	CCMT120404-MP4	12,9		0,4	☹	☹																				
	CCMT120408-MP4	12,9		0,8	☹	☹																				
	CCGT060204-MP4	6,45		0,4		☹																				
	CCGT09T304-MP4	9,67		0,4		☹																				
	CCGT09T308-MP4	9,67		0,8		☹																				
		CCGT120408-MP4	12,9		0,8		☹																			
	CCMT060204-MM4	6,45		0,4				☹	☹				☹	☹	☹	☹						☹	☹	☹		
	CCMT060208-MM4	6,45		0,8				☹	☹					☹	☹								☹	☹		
	CCMT09T304-MM4	9,67		0,4				☹	☹				☹	☹	☹	☹					☹	☹	☹	☹		
	CCMT09T308-MM4	9,67		0,8				☹	☹				☹	☹	☹	☹					☹	☹	☹	☹		
	CCMT120404-MM4	12,9		0,4				☹	☹					☹	☹							☹	☹			
	CCMT120408-MM4	12,9		0,8				☹	☹					☹	☹							☹	☹			
	CCGT060204-MM4	6,45		0,4				☹	☹						☹	☹						☹	☹			
	CCGT060208-MM4	6,45		0,8				☹	☹						☹	☹						☹	☹			
	CCGT09T304-MM4	9,67		0,4				☹	☹						☹	☹						☹	☹			
	CCGT09T308-MM4	9,67		0,8				☹	☹						☹	☹						☹	☹			
	CCGT120408-MM4	12,9		0,8				☹	☹						☹	☹						☹	☹			
	CCMT060204-MK4	6,45		0,4														☹	☹							
	CCMT060208-MK4	6,45		0,8															☹	☹						
	CCMT09T304-MK4	9,67		0,4															☹	☹						
	CCMT09T308-MK4	9,67		0,8															☹	☹						
	CCMT120404-MK4	12,9		0,4															☹	☹						
	CCMT120408-MK4	12,9		0,8															☹	☹						
																			☹	☹						
	CCGT060204-MK4	6,45		0,4																☹	☹					
	CCGT060208-MK4	6,45		0,8																	☹	☹				
	CCGT09T304-MK4	9,67		0,4																		☹	☹			
	CCGT09T308-MK4	9,67		0,8																		☹	☹			
	CCGT120408-MK4	12,9		0,8																		☹	☹			
	CCMT060204-RM4	6,45		0,4				☹					☹	☹	☹	☹						☹	☹	☹		
	CCMT060208-RM4	6,45		0,8				☹					☹	☹	☹	☹						☹	☹	☹		
	CCMT09T304-RM4	9,67		0,4				☹					☹	☹	☹	☹						☹	☹	☹		
	CCMT09T308-RM4	9,67		0,8				☹					☹	☹	☹	☹						☹	☹	☹		
	CCMT120404-RM4	12,9		0,4				☹					☹	☹	☹	☹						☹	☹	☹		
	CCMT120408-RM4	12,9		0,8				☹					☹	☹	☹	☹						☹	☹	☹		
	CCMT120412-RM4	12,9		1,2				☹						☹	☹	☹							☹	☹		

Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WPP20S: CCMT060202-E47 WPP20S

HC = metal duro com revestimento

HE = Cermet revestido

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹

☹ ☹ ☹ / ★ = novo no programa

Insertos intercambiáveis para calibração e mandrilamento de precisão

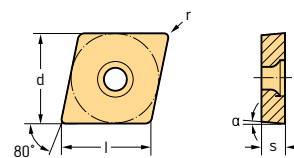
B 473

B2

Pastilhas para torneamento Rômbico positivo 80°

CCMT / CCGT

Tiger-tec® Gold



Insertos intercambiáveis

	Denominação	l mm	r mm	r mm	P						M				K		S			
					HC						HC				HC		HC			
					WPP10G	WPP20G	WPP20S	WSM20S	WMP20S	WPP30G	WEP10C	WSM01	WSM10S	WMP20S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S
	CCMT060204-RP4	6,45		0,4	☺	☺				☹										
	CCMT060208-RP4	6,45		0,8																
	CCMT09T304-RP4	9,67		0,4	☺	☺				☹										
	CCMT09T308-RP4	9,67		0,8	☺	☺				☹										
	CCMT120404-RP4	12,9		0,4	☺	☺				☹										
	CCMT120408-RP4	12,9		0,8	☺	☺				☹										
	CCMT120412-RP4	12,9		1,2	☺	☺				☹										
	CCMT060204-RK4	6,45		0,4											☺	☺				
	CCMT060208-RK4	6,45		0,8											☺	☺				
	CCMT09T304-RK4	9,67		0,4											☺	☺				
	CCMT09T308-RK4	9,67		0,8											☺	☺				
	CCMT120404-RK4	12,9		0,4											☺	☺				
	CCMT120408-RK4	12,9		0,8											☺	☺				
	CCMT120412-RK4	12,9		1,2											☺	☺				

Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WPP20S: CCMT060202-E47 WPP20S

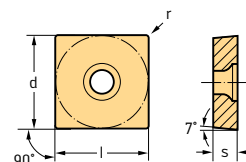
HC = metal duro com revestimento

HE = Cermet revestido

Pastilhas para torneamento Quadrado positivo

SCMT / SCGT

Tiger-tec® Gold



Insertos intercambiáveis

	Denominação	l mm	r mm	r mm	P						M					K		S			
					HC						HC					HC		HC			
					WPP10G	WPP20G	WPP20S	WSM20S	WMP20S	WPP30G	WSM01	WSM10S	WMP20S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S	WSM20S	WSM30S
	SCMT060204-E47	6,35	0,4			☺	☺				☺		☺	☺				☺	☺	☺	
	SCMT09T304-E47	9,53	0,4			☺	☺				☺		☺					☺	☺		
	SCMT09T308-E47	9,53	0,8			☺	☺				☺		☺	☺				☺	☺	☺	
	SCMT120408-E47	12,7	0,8			☺	☺						☺	☺					☺	☺	
	SCMT09T304-MP4	9,53		0,4		☺	☺														
	SCMT09T308-MP4	9,53		0,8	☺	☺															
	SCMT120408-MP4	12,7		0,8	☺	☺															

Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WPP20S: SCMT060204-E47 WPP20S

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

→ boas = ☺

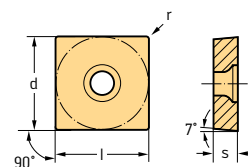
→ médias = ☹

→ desfavoráveis = ☹

Pastilhas para torneamento Quadrado positivo

SCMT / SCGT

Tiger-tec® Gold



Insertos intercambiáveis

Denominação		l mm	r mm	r mm	P						M					K		S			
					HC						HC					HC		HC			
					WPP10G	WPP20G	WPP20S	WSM20S	WMP20S	WPP30G	WSM01	WSM10S	WMP20S	WSM20S	WSM30S	WKK10S	WKK20S	WSM01	WSM10S	WSM20S	WSM30S
	SCGT09T304-MP4	9.53		0.4																	
	SCGT09T308-MP4	9.53		0.8																	
	SCGT120408-MP4	12.7		0.8																	
	SCMT09T304-MM4	9.53		0.4																	
	SCMT09T308-MM4	9.53		0.8																	
	SCMT120408-MM4	12.7		0.8																	
	SCGT09T304-MM4	9.53		0.4																	
	SCGT09T308-MM4	9.53		0.8																	
	SCGT120408-MM4	12.7		0.8																	
	SCMT09T304-MK4	9.53		0.4																	
	SCMT09T308-MK4	9.53		0.8																	
	SCMT120408-MK4	12.7		0.8																	
	SCGT09T308-MK4	9.53		0.8																	
	SCMT09T304-RM4	9.53		0.4																	
	SCMT09T308-RM4	9.53		0.8																	
	SCMT120404-RM4	12.7		0.4																	
	SCMT120408-RM4	12.7		0.8																	
	SCMT120412-RM4	12.7		1.2																	
	SCMT09T304-RP4	9.53		0.4																	
	SCMT09T308-RP4	9.53		0.8																	
	SCMT09T312-RP4	9.53		1.2																	
	SCMT120404-RP4	12.7		0.4																	
	SCMT120408-RP4	12.7		0.8																	
	SCMT120412-RP4	12.7		1.2																	
	SCMT09T304-RK4	9.53		0.4																	
	SCMT09T308-RK4	9.53		0.8																	
	SCMT120404-RK4	12.7		0.4																	
	SCMT120408-RK4	12.7		0.8																	
	SCMT120412-RK4	12.7		1.2																	

Dimensões – consulte o código descritivo conforme a ISO 1832

Exemplo de pedido para a classe WPP20S: SCMT060204-E47 WPP20S

HC = metal duro com revestimento

WALTER SELECT

Inserto intercambiável ideal para condições de usinagem

→ boas = ☺

→ médias = ☹

→ desfavoráveis = ☹

☹ ☹ ☹ / ★ = novo no programa

Insertos intercambiáveis para calibração e mandrilamento de precisão

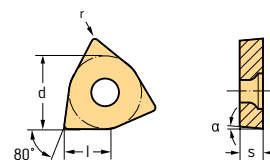
B 475

B2

Pastilhas para torneamento Trigonal positivo 80°

WCMT

Tiger-tec® Gold



Insertos intercambiáveis

	Denominação	l mm	r mm	r mm	P				M		K		S	
					HC				HC		HC		HC	
					WPP20G	WPP20S	WSM20S	WPP30G	WSM20S	WSM30S	WKK20S	WSM20S	WSM30S	
	WCMT030204-E47	3,5	0,4		☹	☹	☹		☹			☹		
	WCMT040204-E47	4,3	0,4		☹	☹	☹		☹			☹		
	WCMT06T304-E47	6,5	0,4		☹									
	WCMT06T308-E47	6,5	0,8				☹		☹			☹		
	WCMT06T304-MP4	6,52		0,4	☹									
	WCMT06T308-MP4	6,52		0,8	☹									
	WCMT06T304-MM4	6,52		0,4			☹		☹			☹		
	WCMT06T308-MM4	6,52		0,8			☹		☹			☹		
	WCMT030202-RM4	3,91		0,2					☹			☹		
	WCMT040202-RM4	4,34		0,2					☹	☹		☹	☹	
	WCMT040204-RM4	4,34		0,4					☹	☹		☹	☹	
	WCMT06T304-RM4	6,52		0,4					☹	☹		☹	☹	
	WCMT06T308-RM4	6,52		0,8					☹	☹		☹	☹	
	WCMT080408-RM4	8,69		0,8					☹	☹		☹	☹	
	WCMT080412-RM4	8,69		1,2					☹			☹		
	WCMT030202-RP4	3,91		0,2	☹									
	WCMT040204-RP4	4,34		0,4	☹									
	WCMT06T304-RP4	6,52		0,4	☹									
	WCMT06T308-RP4	6,52		0,8	☹		☹							
	WCMT080404-RP4	8,69		0,4	☹									
	WCMT080408-RP4	8,69		0,8	☹		☹							
	WCMT080412-RP4	8,69		1,2	☹									
	WCMT040204-RK4	4,34		0,4							☹			
	WCMT06T304-RK4	6,52		0,4							☹			
	WCMT06T308-RK4	6,52		0,8							☹			
	WCMT080404-RK4	8,69		0,4							☹			
	WCMT080408-RK4	8,69		0,8							☹			
	WCMT080412-RK4	8,69		1,2							☹			

Dimensões – consulte o código descritivo conforme a ISO 1832

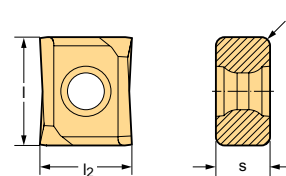
Exemplo de pedido para a classe WPP20S: WCMT030204-E47 WPP20S

HC = metal duro com revestimento

Rômbico tangencial

P4130 / P4160 / P4460

Tiger-tec® Silver



Insertos intercambiáveis

Denominação	l ₂ mm	l mm	r mm	P	M	K	N	S
				HC	HC	HC	HC	HW
				WSM20S	WKP30S	WSM20S	WKK10S	WKK20S
 P4130-4R12-E47	10,48	14	1,2	☹	☹	☹	☹	☹
 P4160-2L08-E47	9,69	10	0,8	☹	☹	☹	☹	☹
P4160-2R04-E47	9,69	10	0,4	☹	☹	☹	☹	☹
P4160-2R08-E47	9,69	10	0,8	☹	☹	☹	☹	☹
P4460-2R04-G88	9,69	10	0,4	☹	☹	☹	☹	☹
P4460-2R08-G88	9,69	10	0,8	☹	☹	☹	☹	☹

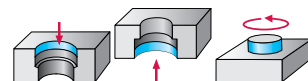
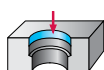
Exemplo de pedido para a classe WKK10S: P4130-4R12-E47 WKK10S

HC = metal duro com revestimento
HW = Metal duro não revestido

B2

Ferramentas para mandrilamento em acabamento

Usinagem



Faixa de Ø [mm]

1–20

19–167

148–635



Descrição

B5110

B5115

B5120

Visor

analógico

analógico

analógico

Haste

Walter Capto™

✓

✓

✓

ScrewFit

✓

✓

NCT

✓

✓

✓

P Aço

●●

●●

●●

M Aço inoxidável

●●

●●

●●

K Ferro fundido

●●

●●

●●

N Metais não ferrosos

●●

●●

●●

S Materiais de usinagem difícil

●●

●●

●●

H Materiais endurecidos

●

●

●

O Outros

●

●

●

Barra de mandrilar de metal duro



Tipos de pastilhas adequados



Página do catálogo

B 482

B 486

B 504

QR Code



www.walter-tools.com/woc/

B5110

B5115

B5120

Ferramentas para mandrilamento em acabamento

Usinagem



Faixa de Ø [mm]

69–167

3–124



Descrição

B5125

B4035

EB100

Visor

analógico

digital

Haste

Walter Capto™

✓

✓

ScrewFit

✓

NCT

P Aço

●●

●●

M Aço inoxidável

●●

●●

K Ferro fundido

●●

●●

N Metais não ferrosos

●●

●●

S Materiais de usinagem difícil

●●

●●

H Materiais endurecidos

●

●

O Outros

●

●

Barra de mandrilar de metal duro



Tipos de pastilhas adequados



Página do catálogo

B 494

B 506

B 548

QR Code


www.walter-tools.com/woc/

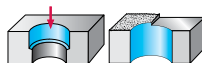
B5125

B4035

EB100

Ferramentas para mandrilamento com corte duplo

Usinagem



Faixa de Ø [mm]	148–620	148–620	33–153



Descrição	B5460	B5560	B3220
Visor	analógico	analógico	analógico

Haste

Walter Capto™	✓	✓	✓
ScrewFit			✓
NCT	✓	✓	✓
P Aço	●●	●●	●●
M Aço inoxidável	●●	●●	●●
K Ferro fundido	●●	●●	●●
N Metais não ferrosos	●●	●●	●
S Materiais de usinagem difícil	●●	●●	●●
H Materiais endurecidos			
O Outros			

Barra de mandrilar de metal duro

Tipos de pastilhas adequados



Página do catálogo	B 554	B 556	B 558

QR Code


www.walter-tools.com/woc/

B5460

B5560

B3220

Ferramentas para mandrilamento com corte duplo

Usinagem



Faixa de Ø [mm]

20–33



Descrição

B3221

Visor

analógico

Haste

Walter Capto™



ScrewFit



NCT



P Aço



M Aço inoxidável



K Ferro fundido



N Metais não ferrosos



S Materiais de usinagem difícil



H Materiais endurecidos

O Outros

Barra de mandrilar de metal duro

Tipos de pastilhas adequados



Página do catálogo

B 558

QR Code


www.walter-tools.com/woc/

B3221

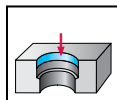
Ferramenta para mandrilamento em acabamento

B5110

mm

Walter Precision XT

– Ajuste do diâmetro em mm e polegadas



D_c 1-20	$\kappa=92^\circ$	$Z=1$

	P	M	K	N	S	H	O
B5110	●	●	●	●	●	●	●

Ferramenta

	Denominação	D_c mm	d_1	L_c mm	l_4 mm	kg	Tipo
	B5110-001-003-C3-CS	1-3	C3	6	48	0,2	
	B5110-0017-0037-C3-CS	1,7-3,7	C3	9	48	0,2	
	B5110-0022-0042-C3-CS	2,2-4,2	C3	13	53	0,2	
	B5110-0027-0047-C3-CS	2,7-4,7	C3	15	53	0,2	
	B5110-0032-0052-C3-CS	3,2-5,2	C3	20	58	0,2	
	B5110-0042-0062-C3-CS	4,2-6,2	C3	20	58	0,6	
	B5110-0062-0082-C3-CS	6,2-8,2	C3	30	68	0,2	
	B5110-008-010-C3-TC06	8-10	C3	30	67	0,2	TC .. 06T1 ..
	B5110-010-012-C3-TC06	10-12	C3	40	81	0,3	
	B5110-012-014-C3-TC06	12-14	C3	40	81	0,3	
	B5110-014-017-C4-TC09	14-17	C4	50	93	0,5	TC .. 0902 ..
	B5110-017-020-C4-TC09	17-20	C4	50	93	0,5	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

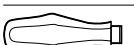
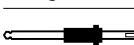
	Tipo	TC .. 06T1 ..	TC .. 0902 ..
	Parafuso de fixação	FS2623 (SW 2,5)	FS2625 (SW 3)
	Parafuso para inserto intercambiável	FS2626 (6IP) 0,6 Nm	FS2627 (7IP) 0,8 Nm



Corpo básico		Barra de mandrilar
	B5110-001-006-C3-B	EB701.WKP21
	B5110-001-006-C3-B	EB702.WKP21
	B5110-001-006-C3-B	EB703.WKP21
	B5110-001-006-C3-B	EB704.WKP21
	B5110-001-006-C3-B	EB705.WKP21
	B5110-001-006-C3-B	EB706.WKP21
	B5110-006-010-C3-B	EB707.WKP21
	B5110-006-010-C3-B	EB708.TC06
	B5110-010-014-C3-B	EB709.TC06
	B5110-010-014-C3-B	EB710.TC06
	B5110-014-020-C4-B	EB711.TC09
	B5110-014-020-C4-B	EB712.TC09

B 2

Acessórios

	Tipo		TC .. 06T1 ..	TC .. 0902 ..
	Chave ISO 2936-2,5	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)	
	Chave ISO 2936-3		ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave com controle de torque, analógica		FS2001	FS2001
	Haste intercambiável		FS2085 (T6IP)	FS2011 (T7IP)
	Chave		FS2086 (T6IP)	FS2088 (T7IP)

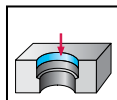
Ferramenta para mandrilamento em acabamento

B5110

mm

Walter Precision XT

– Ajuste do diâmetro em mm e polegadas



D_c 1-20	$\kappa=92^\circ$	$Z=1$

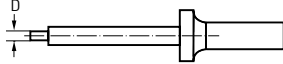
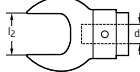
	P	M	K	N	S	H	O
B5110	●	●	●	●	●	●	●

Ferramenta

	Denominação	D_c mm	d_1	L_c mm	l_4 mm	kg	Tipo
 ScrewFit	B5110-001-003-T22-CS	1-3	T22	6	45	0,1	
	B5110-0017-0037-T22-CS	1,7-3,7	T22	9	45	0,1	
	B5110-0022-0042-T22-CS	2,2-4,2	T22	13	50	0,1	
	B5110-0027-0047-T22-CS	2,7-4,7	T22	15	50	0,1	
	B5110-0032-0052-T22-CS	3,2-5,2	T22	20	55	0,1	
	B5110-0042-0062-T22-CS	4,2-6,2	T22	20	55	0,1	
	B5110-0062-0082-T22-CS	6,2-8,2	T22	30	70	0,2	
 ScrewFit	B5110-008-010-T22-TC06	8-10	T22	30	69	0,2	TC .. 06T1 ..
	B5110-010-012-T28-TC06	10-12	T28	40	86	0,3	
	B5110-012-014-T28-TC06	12-14	T28	40	86	0,3	
 ScrewFit	B5110-014-017-T36-TC09	14-17	T36	50	98	0,6	TC .. 0902 ..
	B5110-017-020-T36-TC09	17-20	T36	50	98	0,6	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

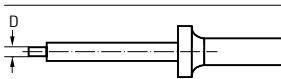
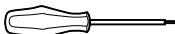
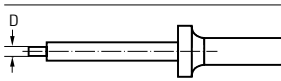
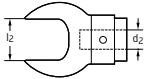
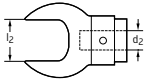
	Tipo	TC .. 06T1 ..	TC .. 0902 ..
	Parafuso de fixação	FS2623 (SW 2,5)	FS2625 (SW 3)
	Parafuso para inserto intercambiável	FS2626 (6IP) 0,6 Nm	FS2627 (7IP) 0,8 Nm
	Torquímetro	FS1386	FS1386
	Forquilha	FS1390	FS1392



B 2

Corpo básico		Barra de mandrilar
	B5110-001-006-T22-B	EB701.WKP21
	B5110-001-006-T22-B	EB702.WKP21
	B5110-001-006-T22-B	EB703.WKP21
	B5110-001-006-T22-B	EB704.WKP21
	B5110-001-006-T22-B	EB705.WKP21
	B5110-001-006-T22-B	EB706.WKP21
	B5110-006-010-T22-B	EB707.WKP21
	B5110-006-010-T22-B	EB708.TC06
	B5110-010-014-T28-B	EB709.TC06
	B5110-010-014-T28-B	EB710.TC06
	B5110-014-020-T36-B	EB711.TC09
	B5110-014-020-T36-B	EB712.TC09

Acessórios

	Tipo		TC .. 06T1 ..	TC .. 0902 ..
	Chave ISO 2936-2,5	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)	
	Chave ISO 2936-3		ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave com controle de torque, analógica		FS2001	FS2001
	Haste intercambiável		FS2085 (T6IP)	FS2011 (T7IP)
	Torquímetro	FS1385	FS1385	
	Chave		FS2086 (T6IP)	FS2088 (T7IP)
	Torquímetro	FS1386	FS1386	FS1386
	Forquilha	FS1390	FS1390	
	Forquilha		FS1391	FS1392

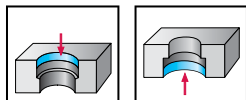
Ferramenta para mandrilamento em acabamento

B5115

mm

Walter Precision XT

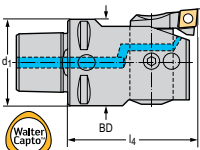
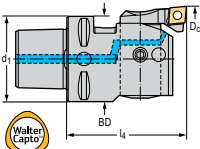
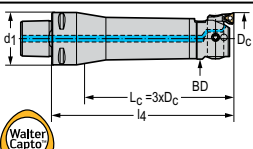
– Ajuste do diâmetro em mm e polegadas



D_c 19-167	$\kappa=92^\circ$	$Z=1$

	P	M	K	N	S	H	O
B5115	●	●	●	●	●	●	●

Ferramenta

	B5115-035-045-C3-CC06	35–45	C3	48	32	0,7	CC .. 0602 ..
	B5115-044-056-C4-CC06	44–56	C4	56	40	0,5	
Walter Capto™ in acc. with ISO 26623							
	B5115-055-070-C5-CC09	55–70	C5	70	50	1	CC .. 09T3 ..
	B5115-069-087-C6-CC09	69–87	C6	82	63	1,9	
	B5115-086-107-C6-CC09	86–107	C6	94	80	2,6	
	B5115-106-137-C6-CC09	106–137	C6	94	100	3	
	B5115-106-137-C8-CC09	106–137	C8	104	100	4,3	
Walter Capto™ in acc. with ISO 26623							
	B5115-019-023-C3-TC06	19–23	C3	89	18	0,3	TC .. 06T1 ..
	B5115-023-029-C3-TC06	23–29	C3	105	20	0,4	
	B5115-028-036-C3-TC06	28–36	C3	117	25	0,5	
Walter Capto™ in acc. with ISO 26623							

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

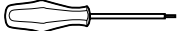
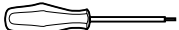
	Tipo	CC .. 0602 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 0902 ..	TC .. 1102 ..
	Parafuso de fixação	FS2624 (SW 3)	FS2630 (SW 4)	FS2628 (SW 2)	FS2624 (SW 3)	FS2630 (SW 4)
	Parafuso para inserto intercambiável	FS2665 (7IP) 0,8 Nm	FS2666 (15IP) 3 Nm	FS2633 (6IP) 0,6 Nm	FS2664 (7IP) 0,8 Nm	FS2665 (7IP) 0,8 Nm
	Parafuso para cápsula	FS2635 (SW 3)	FS2636 (SW 4)	FS2634 (SW 2)	FS2635 (SW 3)	FS2636 (SW 4)
	Parafuso para líquido de refrigeração	FS2640 (SW 0,9)	FS2641 (SW 1,5)	FS2640 (SW 0,9)	FS2640 (SW 0,9)	FS2641 (SW 1,5)



B 2

Corpo básico		Cápsula
	B5115-035-045-C3-B	EB716.CC06
	B5115-044-056-C4-B	EB716.CC06
	B5115-055-070-C5-B	EB717.CC09
	B5115-069-087-C6-B	EB717.CC09
	B5115-086-107-C6-B	EB717.CC09
	B5115-106-137-C6-B	EB717.CC09
	B5115-106-137-C8-B	EB717.CC09
	B5115-136-167-C6-B	EB717.CC09
	B5115-136-167-C8-B	EB717.CC09
	B5115-019-023-C3-B	EB713.TC06
	B5115-023-029-C3-B	EB713.TC06
	B5115-028-036-C3-B	EB713.TC06

Acessórios

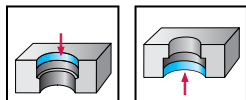
	Tipo	CC .. 0602 ..-TC .. 0902 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 1102 ..
	Chave ISO 2936-1,5		ISO2936-1,5 (SW 1,5)		ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-2		ISO2936-2 (SW 2)	ISO2936-2 (SW 2)	ISO2936-2 (SW 2)
	Chave ISO 2936-2,5			ISO2936-2,5 (SW 2,5)	
	Chave ISO 2936-3	ISO2936-3 (SW 3)			
	Chave ISO 2936-0,9	ISO2936-0,9 (SW 0,9)		ISO2936-0,9 (SW 0,9)	
	Chave ISO 2936-4		ISO2936-4 (SW 4)		ISO2936-4 (SW 4)
	Chave com controle de torque, analógica	FS2001	FS2003	FS2001	FS2001
	Chave com controle de torque, digital		FS2248		
	Haste intercambiável	FS2011 (T7IP)		FS2085 (T6IP)	FS2011 (T7IP)
	Chave	FS2088 (T7IP)		FS2086 (T6IP)	FS2088 (T7IP)
	Haste intercambiável		FS2014 (T15IP)		
	Chave		FS1485 (T15IP)		
	Prolongador	EB736 3 Nm	EB737 6 Nm	EB735 1,2 Nm	EB737 6 Nm

Ferramenta para mandrilamento em acabamento

B5115 mm

Walter Precision XT

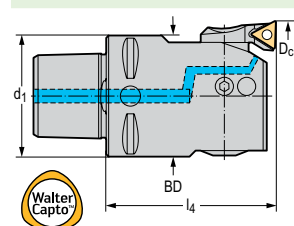
– Ajuste do diâmetro em mm e polegadas



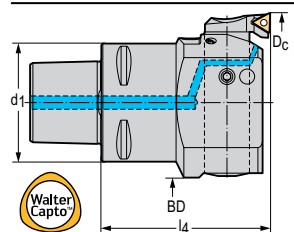
D_c 19–167	$\kappa=92^\circ$	$Z=1$

	P	M	K	N	S	H	O
B5115	●	●	●	●	●	●	●

Ferramenta



Walter Capto™ in acc. with ISO 26623



Walter Capto™ in acc. with ISO 26623

Denominação	D_c mm	d_1	l_4 mm	BD mm	kg	Tipo
B5115-035-045-C3-TC09	35–45	C3	48	32	0,3	TC .. 0902 ..
B5115-044-056-C4-TC09	44–56	C4	56	40	0,5	
B5115-055-070-C5-TC11	55–70	C5	66	50	1	TC .. 1102 ..
B5115-069-087-C6-TC11	69–87	C6	78	63	1,9	
B5115-086-107-C6-TC11	86–107	C6	90	80	3,1	
B5115-106-137-C6-TC11	106–137	C6	90	100	3	
B5115-106-137-C8-TC11	106–137	C8	100	100	4,3	
B5115-136-167-C6-TC11	136–167	C6	90	130	3,7	
B5115-136-167-C8-TC11	136–167	C8	100	130	4,9	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

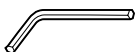
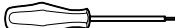
Tipo		CC .. 0602 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 0902 ..	TC .. 1102 ..
	Parafuso de fixação	FS2624 (SW 3)	FS2630 (SW 4)	FS2628 (SW 2)	FS2624 (SW 3)	FS2630 (SW 4)
	Parafuso para inserto intercambiável	FS2665 (7IP) 0,8 Nm	FS2666 (15IP) 3 Nm	FS2633 (6IP) 0,6 Nm	FS2664 (7IP) 0,8 Nm	FS2665 (7IP) 0,8 Nm
	Parafuso para cápsula	FS2635 (SW 3)	FS2636 (SW 4)	FS2634 (SW 2)	FS2635 (SW 3)	FS2636 (SW 4)
	Parafuso para líquido de refrigeração	FS2640 (SW 0,9)	FS2641 (SW 1,5)	FS2640 (SW 0,9)	FS2640 (SW 0,9)	FS2641 (SW 1,5)



B 2

Corpo básico		Cápsula
	B5115-035-045-C3-B	EB714.TC09
	B5115-044-056-C4-B	EB714.TC09
	B5115-055-070-C5-B	EB715.TC11
	B5115-069-087-C6-B	EB715.TC11
	B5115-086-107-C6-B	EB715.TC11
	B5115-106-137-C6-B	EB715.TC11
	B5115-106-137-C8-B	EB715.TC11
	B5115-136-167-C6-B	EB715.TC11
	B5115-136-167-C8-B	EB715.TC11

Acessórios

	Tipo	CC .. 0602 ..-TC .. 0902 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 1102 ..
	Chave ISO 2936-1,5		ISO2936-1,5 (SW 1,5)		ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-2		ISO2936-2 (SW 2)	ISO2936-2 (SW 2)	ISO2936-2 (SW 2)
	Chave ISO 2936-2,5			ISO2936-2,5 (SW 2,5)	
	Chave ISO 2936-3	ISO2936-3 (SW 3)			
	Chave ISO 2936-0,9	ISO2936-0,9 (SW 0,9)		ISO2936-0,9 (SW 0,9)	
	Chave ISO 2936-4		ISO2936-4 (SW 4)		ISO2936-4 (SW 4)
	Chave com controle de torque, analógica	FS2001	FS2003	FS2001	FS2001
	Chave com controle de torque, digital		FS2248		
	Haste intercambiável	FS2011 (T7IP)		FS2085 (T6IP)	FS2011 (T7IP)
	Chave	FS2088 (T7IP)		FS2086 (T6IP)	FS2088 (T7IP)
	Haste intercambiável		FS2014 (T15IP)		
	Chave		FS1485 (T15IP)		
	Prolongador	EB736 3 Nm		EB735 1,2 Nm	
	Prolongador		EB737 6 Nm		EB737 6 Nm

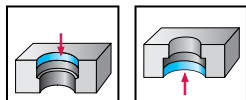
Ferramenta para mandrilamento em acabamento

B5115

mm

Walter Precision XT

– Ajuste do diâmetro em mm e polegadas



D_c 19–167	$\kappa=92^\circ$	$Z=1$

	P	M	K	N	S	H	O
B5115	●	●	●	●	●	●	●

Ferramenta

	Denominação	D_c mm	d_1	l_4 mm	BD mm	kg	Tipo
 ScrewFit	B5115-035-045-T28-CC06	35–45	T28	54	32	0,6	CC .. 0602 ..
	B5115-044-056-T36-CC06	44–56	T36	56	40	0,6	
 ScrewFit	B5115-055-070-T45-CC09	55–70	T45	74	50	1	CC .. 09T3 ..
 ScrewFit	B5115-019-023-T18-TC06	19–23	T18	38	18	0,1	TC .. 06T1 ..
	B5115-023-029-T18-TC06	23–29	T18	38	20	0,1	
	B5115-028-036-T22-TC06	28–36	T22	41	25	0,2	
 ScrewFit	B5115-035-045-T28-TC09	35–45	T28	54	32	0,3	TC .. 0902 ..
	B5115-044-056-T36-TC09	44–56	T36	56	40	0,6	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

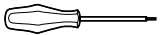
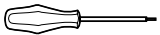
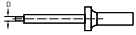
	Tipo	CC .. 0602 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 0902 ..	TC .. 1102 ..
	Parafuso de fixação	FS2624 (SW 3)	FS2630 (SW 4)	FS2628 (SW 2)	FS2624 (SW 3)	FS2630 (SW 4)
	Parafuso para inserto intercambiável	FS2665 (7IP) 0,8 Nm	FS2666 (15IP) 3 Nm	FS2633 (6IP) 0,6 Nm	FS2664 (7IP) 0,8 Nm	FS2665 (7IP) 0,8 Nm
	Parafuso para cápsula	FS2635 (SW 3)	FS2636 (SW 4)	FS2634 (SW 2)	FS2635 (SW 3)	FS2636 (SW 4)
	Parafuso para líquido de refrigeração	FS2640 (SW 0,9)	FS2641 (SW 1,5)	FS2640 (SW 0,9)	FS2640 (SW 0,9)	FS2641 (SW 1,5)
	Torquímetro	FS1386	FS1386	FS1386	FS1386	FS1386
	Forquilha	FS1391	FS1393	FS1389	FS1391	FS1393
	Adaptor		FS1394			FS1394



B 2

Corpo básico		Cápsula
	B5115-035-045-T28-B	EB716.CC06
	B5115-044-056-T36-B	EB716.CC06
	B5115-055-070-T45-B	EB717.CC09
	B5115-019-023-T18-B	EB713.TC06
	B5115-023-029-T18-B	EB713.TC06
	B5115-028-036-T22-B	EB713.TC06
	B5115-035-045-T28-B	EB714.TC09
	B5115-044-056-T36-B	EB714.TC09

Acessórios

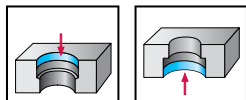
	Tipo	CC .. 0602 ..-TC .. 0902 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 1102 ..
	Chave ISO 2936-1,5		ISO2936-1,5 (SW 1,5)		ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-2			ISO2936-2 (SW 2)	
	Chave ISO 2936-3	ISO2936-3 (SW 3)			
	Chave ISO 2936-0,9	ISO2936-0,9 (SW 0,9)		ISO2936-0,9 (SW 0,9)	
	Chave ISO 2936-4		ISO2936-4 (SW 4)		ISO2936-4 (SW 4)
	Chave com controle de torque, analógica	FS2001	FS2003	FS2001	FS2001
	Chave com controle de torque, digital		FS2248		
	Haste intercambiável	FS2011 (T7IP)	FS2014 (T15IP)	FS2085 (T6IP)	FS2011 (T7IP)
	Chave	FS2088 (T7IP)		FS2086 (T6IP)	FS2088 (T7IP)
	Haste intercambiável		FS1485 (T15IP)		
	Chave	EB736 3 Nm		EB735 1,2 Nm	
	Prolongador		EB737 6 Nm		EB737 6 Nm
	Prolongador	FS1386		FS1386	FS1386
	Torquímetro			FS1385	
	Torquímetro	FS1391			
	Forquilha			FS1389	FS1393
	Forquilha				FS1394

Ferramenta para mandrilamento em acabamento

B5115 mm

Walter Precision XT

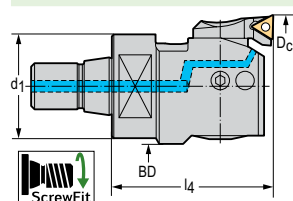
– Ajuste do diâmetro em mm e polegadas



D_c 19–167	$\kappa=92^\circ$	$Z=1$

	P	M	K	N	S	H	O
B5115	●	●	●	●	●	●	●

Ferramenta



ScrewFit

Denominação

B5115-055-070-T45-TC11

D_c
mm

55–70

d_1

T45

l_4
mm

BD
mm

50

kg

1

Tipo

TC .. 1102 ..

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

Tipo	CC .. 0602 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 0902 ..	TC .. 1102 ..
Parafuso de fixação	FS2624 (SW 3)	FS2630 (SW 4)	FS2628 (SW 2)	FS2624 (SW 3)	FS2630 (SW 4)
Parafuso para inserto intercambiável	FS2665 (7IP) 0,8 Nm	FS2666 (15IP) 3 Nm	FS2633 (6IP) 0,6 Nm	FS2664 (7IP) 0,8 Nm	FS2665 (7IP) 0,8 Nm
Parafuso para cápsula	FS2635 (SW 3)	FS2636 (SW 4)	FS2634 (SW 2)	FS2635 (SW 3)	FS2636 (SW 4)
Parafuso para líquido de refrigeração	FS2640 (SW 0,9)	FS2641 (SW 1,5)	FS2640 (SW 0,9)	FS2640 (SW 0,9)	FS2641 (SW 1,5)
Torquímetro	FS1386	FS1386	FS1386	FS1386	FS1386
Forquilha	FS1391	FS1393	FS1389	FS1391	FS1393
Adaptor		FS1394			FS1394

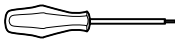
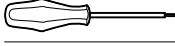
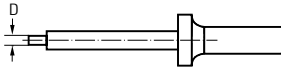
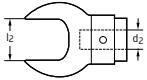


B 2

Corpo básico
B5115-055-070-T45-B

Cápsula
EB715.TC11

Acessórios

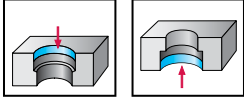
	Tipo	CC .. 0602 ..-TC .. 0902 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 1102 ..
	Chave ISO 2936-1,5		ISO2936-1,5 (SW 1,5)		ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-2			ISO2936-2 (SW 2)	
	Chave ISO 2936-3	ISO2936-3 (SW 3)			
	Chave ISO 2936-0,9	ISO2936-0,9 (SW 0,9)		ISO2936-0,9 (SW 0,9)	
	Chave ISO 2936-4		ISO2936-4 (SW 4)		ISO2936-4 (SW 4)
	Chave com controle de torque, analógica	FS2001	FS2003	FS2001	FS2001
	Chave com controle de torque, digital		FS2248		
	Haste intercambiável	FS2011 (T7IP)		FS2085 (T6IP)	FS2011 (T7IP)
	Chave	FS2088 (T7IP)		FS2086 (T6IP)	FS2088 (T7IP)
	Haste intercambiável		FS2014 (T15IP)		
	Chave		FS1485 (T15IP)		
	Prolongador	EB736 3 Nm		EB735 1,2 Nm	
	Prolongador		EB737 6 Nm		EB737 6 Nm
	Torquímetro	FS1386		FS1386	FS1386
	Torquímetro			FS1385	
	Forquilha	FS1391			
	Forquilha			FS1389	FS1393
	Adaptor				FS1394

Ferramenta para mandrilamento de precisão, de baixo peso

B5125 mm

Walter Precision XT

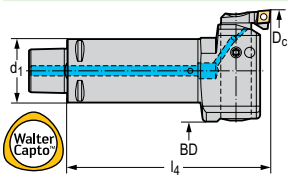
- De peso reduzido (LWS)
- Ajuste do diâmetro em mm e polegadas



D_c 69-167	$\kappa=92^\circ$	$Z=1$	LWS

	P	M	K	N	S	H	O
B5125	●	●	●	●	●	●	●

Ferramenta



Walter Capto™ in acc. with ISO 26623

Corpo e componentes estão incluídos no escopo de fornecimento

Denominação	D_c mm	d_1	l_4 mm	BD mm	kg	Tipo
B5125-069-087-C5-CC09	69-87	C5	154	63	1,5	CC .. 09T3 ..
B5125-086-107-C5-CC09	86-107	C5	160	80	1,6	
B5125-106-137-C6-CC09	106-137	C6	194	100	3	
B5125-136-167-C8-CC09	136-167	C8	204	130	4,1	

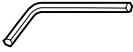
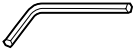
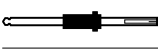
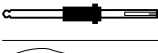
Componentes

Tipo	CC .. 09T3 ..	TC .. 1102 ..
Parafuso de fixação	FS2630 (SW 4)	FS2630 (SW 4)
Parafuso para inserto intercambiável	FS2666 (15IP) 3 Nm	FS2665 (7IP) 0,8 Nm
Parafuso para cápsula	FS2636 (SW 4)	FS2636 (SW 4)
Parafuso para líquido de refrigeração	FS2641 (SW 1,5)	FS2641 (SW 1,5)



Corpo básico		Cápsula
	B5125-069-087-C5-B	EB717.CC09
	B5125-086-107-C5-B	EB717.CC09
	B5125-106-137-C6-B	EB717.CC09
	B5125-136-167-C8-B	EB717.CC09

B 2

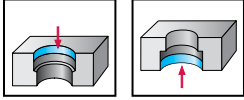
Acessórios			
	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-2	ISO2936-2 (SW 2)	ISO2936-2 (SW 2)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave com controle de torque, analógica	FS2003	FS2001
	Chave com controle de torque, analógica		FS2011 (T7IP)
	Chave com controle de torque, digital	FS2248	
	Chave		FS2088 (T7IP)
	Haste intercambiável	FS2014 (T15IP)	
	Chave	FS1485 (T15IP)	
	Prolongador	EB737 6 Nm	EB737 6 Nm

Ferramenta para mandrilamento de precisão, de baixo peso

B5125 mm

Walter Precision XT

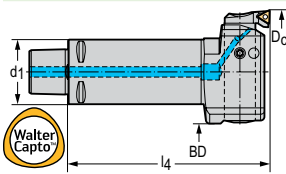
- De peso reduzido (LWS)
- Ajuste do diâmetro em mm e polegadas



D_c 69-167	$\kappa=92^\circ$	$Z=1$	LWS

	P	M	K	N	S	H	O
B5125	●	●	●	●	●	●	●

Ferramenta



Walter Capto™ in acc. with ISO 26623

Corpo e componentes estão incluídos no escopo de fornecimento

Denominação	D_c mm	d_1	l_4 mm	BD mm	kg	Tipo
B5125-069-087-C5-TC11	69-87	C5	150	63	1,5	TC .. 1102 ..
B5125-086-107-C5-TC11	86-107	C5	156	80	1,6	
B5125-106-137-C6-TC11	106-137	C6	190	100	3	
B5125-136-167-C8-TC11	136-167	C8	200	130	4,1	

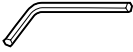
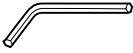
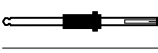
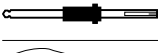
Componentes

	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Parafuso de fixação	FS2630 (SW 4)	FS2630 (SW 4)
	Parafuso para inserto intercambiável	FS2666 (15IP) 3 Nm	FS2665 (7IP) 0,8 Nm
	Parafuso para cápsula	FS2636 (SW 4)	FS2636 (SW 4)
	Parafuso para líquido de refrigeração	FS2641 (SW 1,5)	FS2641 (SW 1,5)



Corpo básico		Cápsula
	B5125-069-087-C5-B	EB715.TC11
	B5125-086-107-C5-B	EB715.TC11
	B5125-106-137-C6-B	EB715.TC11
	B5125-136-167-C8-B	EB715.TC11

B 2

Acessórios			
	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-2	ISO2936-2 (SW 2)	ISO2936-2 (SW 2)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave com controle de torque, analógica	FS2003	FS2001
	Chave com controle de torque, analógica		FS2011 (T7IP)
	Chave com controle de torque, digital	FS2248	
	Chave		FS2088 (T7IP)
	Haste intercambiável	FS2014 (T15IP)	
	Chave	FS1485 (T15IP)	
	Prolongador	EB737 6 Nm	EB737 6 Nm

Ferramenta para mandrilamento em acabamento

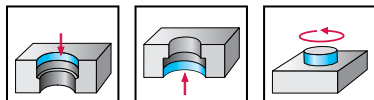
B5120

mm

Walter Precision XT

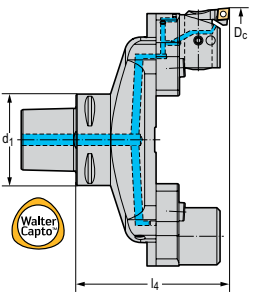
- Corpo básico/ponte também pode ser usado em B5460 e B5560
- Ajuste do diâmetro em mm e polegadas

D _c 148– 635	κ=92°	Z=1



	P	M	K	N	S	H	O
B5120	●	●	●	●	●	●	●

Ferramenta

	B5120-148-215-C8-CC09	148–215	C8	134	6,2	CC .. 09T3 ..
	B5120-198-265-C8-CC09	198–265	C8	134	7,4	
	B5120-248-315-C8-CC09	248–315	C8	134	8,5	
	Walter Capto™ in acc. with ISO 26623					

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

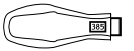
	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Parafuso de fixação	FS2646 (SW 5)	FS2646 (SW 5)
	Parafuso para líquido de refrigeração	FS2641 (SW 1,5)	FS2641 (SW 1,5)
	Parafuso para inserto intercambiável	FS2666 (15IP) 3 Nm	FS2665 (7IP) 0,8 Nm
	Arruela	FS2649	FS2649
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)
	O-ring	FS2657	FS2657
	Prisioneiro	FS2654	FS2654



Corpo básico	Ponte	Corrediça	Módulo frontal para mandrilamento	Contrapeso	Cápsula
B5120-148-000-C8-B		EB719	EB718	EB721	EB717.CC09
B5120-198-000-C8-B		EB719	EB718	EB721	EB717.CC09
B5120-248-000-C8-B		EB719	EB718	EB721	EB717.CC09

B 2

Acessórios

	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave ISO 2936-5	ISO2936-5 (SW 5)	ISO2936-5 (SW 5)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave com controle de torque, analógica	FS2003	FS2001
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave com controle de torque, digital	FS2248	
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Haste intercambiável	FS2014 (T15IP)	FS2011 (T7IP)
	Chave	FS1485 (T15IP)	FS2088 (T7IP)
	Prolongador	EB737 6 Nm	EB737 6 Nm

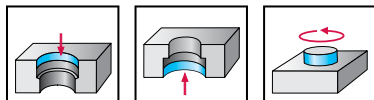
Ferramenta para mandrilamento em acabamento

B5120 mm

Walter Precision XT

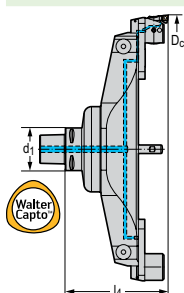
- Corpo básico/ponte também pode ser usado em B5460 e B5560
- Ajuste do diâmetro em mm e polegadas

D _c 148– 635	κ=92°	Z=1



	P	M	K	N	S	H	O
B5120	●	●	●	●	●	●	●

Ferramenta

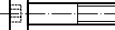


Walter Capto™ in acc. with ISO 26623

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5120-298-395-C8-CC09	298–395	C8	183	15,1	CC .. 09T3 ..
B5120-378-475-C8-CC09	378–475	C8	188	16,8	
B5120-458-555-C8-CC09	458–555	C8	193	18,8	
B5120-538-635-C8-CC09	538–635	C8	198	21,2	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

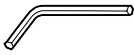
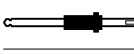
Tipo		CC .. 09T3 ..	TC .. 1102 ..
	Parafuso de fixação	FS2646 (SW 5)	FS2646 (SW 5)
	Parafuso para líquido de refrigeração	FS2641 (SW 1,5)	FS2641 (SW 1,5)
	Parafuso para inserto intercambiável	FS2666 (15IP) 3 Nm	FS2665 (7IP) 0,8 Nm
	Arruela	FS2649	FS2649
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)
	O-ring	FS2657	FS2657
	Prisioneiro	FS2654	FS2654



Corpo básico	Ponte	Corrediça	Módulo frontal para mandrilamento	Contrapeso	Cápsula
B5120-298-000-C8-B	EB731	EB720	EB718	EB722	EB717.CC09
B5120-298-000-C8-B	EB732	EB720	EB718	EB722	EB717.CC09
B5120-298-000-C8-B	EB733	EB720	EB718	EB722	EB717.CC09
B5120-298-000-C8-B	EB734	EB720	EB718	EB722	EB717.CC09

B 2

Acessórios

	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave ISO 2936-5	ISO2936-5 (SW 5)	ISO2936-5 (SW 5)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave com controle de torque, analógica	FS2003	FS2001
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave com controle de torque, digital	FS2248	
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Haste intercambiável	FS2014 (T15IP)	FS2011 (T7IP)
	Chave	FS1485 (T15IP)	FS2088 (T7IP)
	Prolongador	EB737 6 Nm	EB737 6 Nm

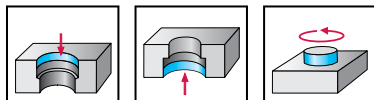
Ferramenta para mandrilamento em acabamento

B5120

mm

Walter Precision XT

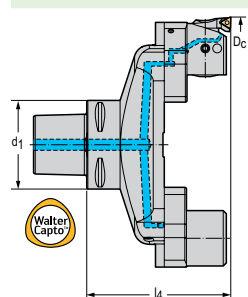
- Corpo básico/ponte também pode ser usado em B5460 e B5560
- Ajuste do diâmetro em mm e polegadas



D _c 148– 635	κ=92°	Z=1

	P	M	K	N	S	H	O
B5120	●	●	●	●	●	●	●

Ferramenta

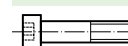
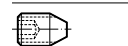
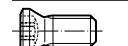
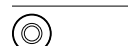


Walter Capto™ in acc. with ISO 26623

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5120-148-215-C8-TC11	148–215	C8	130	6,2	TC .. 1102 ..
B5120-198-265-C8-TC11	198–265	C8	130	7,4	
B5120-248-315-C8-TC11	248–315	C8	130	8,5	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

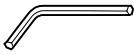
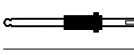
	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Parafuso de fixação	FS2646 (SW 5)	FS2646 (SW 5)
	Parafuso para líquido de refrigeração	FS2641 (SW 1,5)	FS2641 (SW 1,5)
	Parafuso para inserto intercambiável	FS2666 (15IP) 3 Nm	FS2665 (7IP) 0,8 Nm
	Arruela	FS2649	FS2649
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)
	O-ring	FS2657	FS2657
	Prisioneiro	FS2654	FS2654



Corpo básico	Ponte	Corrediça	Módulo frontal para mandrilamento	Contrapeso	Cápsula
B5120-148-000-C8-B		EB719	EB718	EB721	EB715.TC11
B5120-198-000-C8-B		EB719	EB718	EB721	EB715.TC11
B5120-248-000-C8-B		EB719	EB718	EB721	EB715.TC11

B 2

Acessórios

	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave ISO 2936-5	ISO2936-5 (SW 5)	ISO2936-5 (SW 5)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave com controle de torque, analógica	FS2003	FS2001
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave com controle de torque, digital	FS2248	
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Haste intercambiável	FS2014 (T15IP)	FS2011 (T7IP)
	Chave	FS1485 (T15IP)	FS2088 (T7IP)
	Prolongador	EB737 6 Nm	EB737 6 Nm

Ferramenta para mandrilamento em acabamento

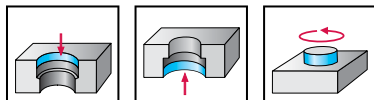
B5120

mm

Walter Precision XT

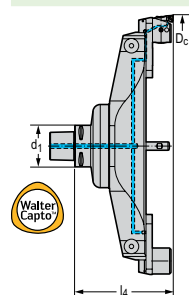
- Corpo básico/ponte também pode ser usado em B5460 e B5560
- Ajuste do diâmetro em mm e polegadas

D _c 148– 635	κ=92°	Z = 1



	P	M	K	N	S	H	O
B5120	●	●	●	●	●	●	●

Ferramenta



Walter Capto™ in acc. with ISO 26623

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5120-298-395-C8-TC11	298–395	C8	179	15,1	TC .. 1102 ..
B5120-378-475-C8-TC11	378–475	C8	184	16,8	
B5120-458-555-C8-TC11	458–555	C8	189	18,8	
B5120-538-635-C8-TC11	538–635	C8	194	21,2	

Corpo e componentes estão incluídos no escopo de fornecimento

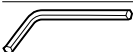
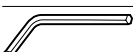
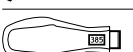
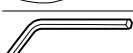
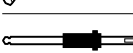
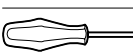
Componentes

	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Parafuso de fixação	FS2646 (SW 5)	FS2646 (SW 5)
	Parafuso para líquido de refrigeração	FS2641 (SW 1,5)	FS2641 (SW 1,5)
	Parafuso para inserto intercambiável	FS2666 (15IP) 3 Nm	FS2665 (7IP) 0,8 Nm
	Arruela	FS2649	FS2649
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)
	O-ring	FS2657	FS2657
	Prisioneiro	FS2654	FS2654



Corpo básico		Ponte	Corrediça	Módulo frontal para mandrilamento	Contrapeso	Cápsula
	B5120-298-000-C8-B	EB731	EB720	EB718	EB722	EB715.TC11
	B5120-298-000-C8-B	EB732	EB720	EB718	EB722	EB715.TC11
	B5120-298-000-C8-B	EB733	EB720	EB718	EB722	EB715.TC11
	B5120-298-000-C8-B	EB734	EB720	EB718	EB722	EB715.TC11

B 2

Acessórios			
	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave ISO 2936-5	ISO2936-5 (SW 5)	ISO2936-5 (SW 5)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave com controle de torque, analógica	FS2003	FS2001
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave com controle de torque, digital	FS2248	
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Haste intercambiável	FS2014 (T15IP)	FS2011 (T7IP)
	Chave	FS1485 (T15IP)	FS2088 (T7IP)
	Prolongador	EB737 6 Nm	EB737 6 Nm

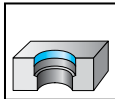
Ferramenta para mandrilamento em acabamento

B4035

mm

 $\kappa=93^\circ$

Z = 1



	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

Ferramenta

	Denominação	D _c mm	d ₁	L _c mm	kg	Tipo
 Walter Capto™ in acc. with ISO 26623	B4035.C6.03-10.Z1.P15	3-10	C6	10	2	
	B4035.C6.04-11.Z1.P15	4-11	C6	10	2	
	B4035.C6.05-12.Z1.P15.M	5-12	C6	20	2	
	B4035.C6.05-12.Z1.P15.S	5-12	C6	10	2	
	B4035.C6.06-13.Z1.P15.M	6-13	C6	30	2	
	B4035.C6.06-13.Z1.P15.S	6-13	C6	20	2	
	B4035.C6.08-15.Z1.P15.M	8-15	C6	48	2	
 Walter Capto™ in acc. with ISO 26623	B4035.C6.08-15.Z1.P15.S	8-15	C6	23	2	
	B4035.C6.10-12.Z1.WC03	10-12	C6	52	2	WC .. 0302 ..
	B4035.C6.10-17.Z1.WC03	10-17	C6	27	2	
	B4035.C6.11-18.Z1.WC03	11-18	C6	27	2	
	B4035.C6.12-14.Z1.WC03	12-14	C6	62	2	
	B4035.C6.12-19.Z1.WC03	12-19	C6	42	2	
	B4035.C6.13-20.Z1.WC03	13-20	C6	42	2	
	B4035.C6.14-16.Z1.WC03	14-16	C6	72	2	
	B4035.C6.14-21.Z1.WC03	14-21	C6	47	2	
	B4035.C6.15-22.Z1.WC03	15-22	C6	47	2	
	B4035.C6.16-18.Z1.WC03	16-18	C6	82	2	
	B4035.C6.16-23.Z1.WC03	16-23	C6	57	2	
	B4035.C6.17-24.Z1.WC03	17-24	C6	57	2	
	B4035.C6.18-20.Z1.WC03	18-20	C6	92	2	
	B4035.C6.18-25.Z1.WC03	18-25	C6	65	2	
	B4035.C6.19-26.Z1.WC03	19-26	C6	65	2	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

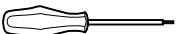
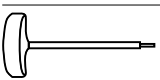
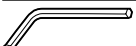
	Tipo	WC .. 0302 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS2084 (T7IP) 0,9 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



B 2

Corpo básico	Barra de mandrilar	Barra de mandrilar
B4035G.C6.002-124.Z1	EB603.WXP15	EB603.WXP15
B4035G.C6.002-124.Z1	EB604.WXP15	EB604.WXP15
B4035G.C6.002-124.Z1	EB606.WXP15	EB606.WXP15
B4035G.C6.002-124.Z1	EB605.WXP15	EB605.WXP15
B4035G.C6.002-124.Z1	EB608.WXP15	EB608.WXP15
B4035G.C6.002-124.Z1	EB607.WXP15	EB607.WXP15
B4035G.C6.002-124.Z1	EB610.WXP15	EB610.WXP15
B4035G.C6.002-124.Z1	EB609.WXP15	EB609.WXP15
B4035G.C6.002-124.Z1	EB637.WC03.CS	EB637.WC03.CS
B4035G.C6.002-124.Z1	EB611.WC03	EB611.WC03
B4035G.C6.002-124.Z1	EB612.WC03	EB612.WC03
B4035G.C6.002-124.Z1	EB638.WC03.CS	EB638.WC03.CS
B4035G.C6.002-124.Z1	EB613.WC03	EB613.WC03
B4035G.C6.002-124.Z1	EB614.WC03	EB614.WC03
B4035G.C6.002-124.Z1	EB639.WC03.CS	EB639.WC03.CS
B4035G.C6.002-124.Z1	EB615.WC03	EB615.WC03
B4035G.C6.002-124.Z1	EB616.WC03	EB616.WC03
B4035G.C6.002-124.Z1	EB640.WC03.CS	EB640.WC03.CS
B4035G.C6.002-124.Z1	EB617.WC03	EB617.WC03
B4035G.C6.002-124.Z1	EB618.WC03	EB618.WC03
B4035G.C6.002-124.Z1	EB641.WC03.CS	EB641.WC03.CS
B4035G.C6.002-124.Z1	EB619.WC03	EB619.WC03
B4035G.C6.002-124.Z1	EB620.WC03	EB620.WC03

Acessórios

	Tipo	WC .. 0302 ..
	Chave para inserto intercambiável	FS2088 (T7IP)
	Chave de fenda para ajuste	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)

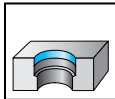
Ferramenta para mandrilamento em acabamento

B4035

mm

 $\kappa=93^\circ$

Z = 1



	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

Ferramenta

	Denominação	D _c mm	d ₁	L _c mm	kg	Tipo
Walter Capto™ in acc. with ISO 26623	B4035.C6.20-24.Z1.WC04.M	20-24	C6	117	2	WC .. 0402 ..
	B4035.C6.20-24.Z1.WC04.S	20-24	C6	77	2	
	B4035.C6.22-26.Z1.WC04.M	22-26	C6	117	2	
	B4035.C6.22-26.Z1.WC04.S	22-26	C6	77	2	
	B4035.C6.24-28.Z1.WC04.M	24-28	C6	117	2	
	B4035.C6.24-28.Z1.WC04.S	24-28	C6	77	2	
	B4035.C6.26-30.Z1.WC04.M	26-30	C6	117	2	
	B4035.C6.26-30.Z1.WC04.S	26-30	C6	77	2	
	B4035.C6.28-32.Z1.WC04.M	28-32	C6	117	2	
	B4035.C6.28-32.Z1.WC04.S	28-32	C6	77	2	
	B4035.C6.30-34.Z1.WC04.M	30-34	C6	117	2	
	B4035.C6.30-34.Z1.WC04.S	30-34	C6	77	2	
	B4035.C6.32-41.Z1.WC04	32-41	C6	63	2	
	B4035.C6.41-50.Z1.WC04	41-50	C6	99	2	
	B4035.C6.50-59.Z1.WC04	50-59	C6	72	2	
	B4035.C6.59-68.Z1.WC04	59-68	C6	117	2	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

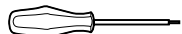
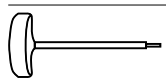
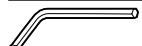
	Tipo	WC .. 0402 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS1454 (T8IP) 1,2 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



B 2

Corpo básico	Prolongador	Cápsula
B4035G.C6.002-124.Z1	EB643.CS	EB644.WC04
B4035G.C6.002-124.Z1	EB642	EB644.WC04
B4035G.C6.002-124.Z1	EB643.CS	EB645.WC04
B4035G.C6.002-124.Z1	EB642	EB645.WC04
B4035G.C6.002-124.Z1	EB643.CS	EB621.WC04
B4035G.C6.002-124.Z1	EB642	EB621.WC04
B4035G.C6.002-124.Z1	EB643.CS	EB622.WC04
B4035G.C6.002-124.Z1	EB642	EB622.WC04
B4035G.C6.002-124.Z1	EB643.CS	EB623.WC04
B4035G.C6.002-124.Z1	EB642	EB623.WC04
B4035G.C6.002-124.Z1	EB643.CS	EB624.WC04
B4035G.C6.002-124.Z1	EB642	EB624.WC04
B4035G.C6.002-124.Z1	EB625	EB629.WC04
B4035G.C6.002-124.Z1	EB626	EB630.WC04
B4035G.C6.002-124.Z1	EB627	EB629.WC04
B4035G.C6.002-124.Z1	EB628	EB630.WC04

Acessórios

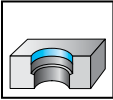
	Tipo	WC .. 0402 ..
	Chave para inserto intercambiável	FS1483 (T8IP)
	Chave de fenda para ajuste	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)

Ferramenta para mandrilamento em acabamento
B4035

mm

$\kappa=93^\circ$

Z = 1



	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

Ferramenta

	Denominação	D _c mm	d ₁	L _c mm	kg	Tipo
	B4035.C6.68-96.Z1.WC04	68-96	C6		2	WC .. 0402 ..
	B4035.C6.96-124.Z1.WC04	96-124	C6		2	

Walter Capto™ in acc. with ISO 26623

Corpo e componentes estão incluídos no escopo de fornecimento

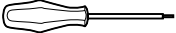
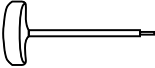
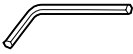
Componentes

	Tipo	WC .. 0402 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS1454 (T8IP) 1,2 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



Corpo básico		Ponte	Contrapeso	Cápsula
	B4035G.C6.002-124.Z1	EB631	EB635	EB634.WC04
	B4035G.C6.002-124.Z1	EB632	EB635	EB634.WC04

B 2

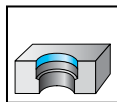
Acessórios		
	Tipo	WC .. 0402 ..
	Chave para inserto intercambiável	FS1483 (T8IP)
	Chave de fenda para ajuste	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)
	Alimentação da refrigeração para ponte	EB636

Ferramenta para mandrilamento em acabamento

B4035 **inch**

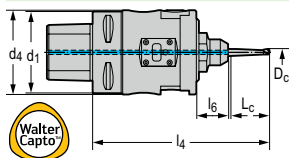
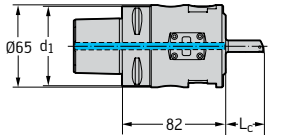
$\kappa=93^\circ$

Z = 1



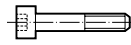
	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

Ferramenta

	Denominação	D _c inch	d ₁	L _c inch	lbs	Tipo
 Walter Capto™ in acc. with ISO 26623	B4035.UC6.03-10.Z1.P15	0,118–0,394	C6	0,394	4,299	
	B4035.UC6.04-11.Z1.P15	0,157–0,433	C6	0,394	4,299	
	B4035.UC6.05-12.Z1.P15.M	0,197–0,472	C6	0,787	4,299	
	B4035.UC6.05-12.Z1.P15.S	0,197–0,472	C6	0,394	4,299	
	B4035.UC6.06-13.Z1.P15.M	0,236–0,512	C6	1,181	4,299	
	B4035.UC6.06-13.Z1.P15.S	0,236–0,512	C6	0,787	4,299	
	B4035.UC6.08-15.Z1.P15.M	0,315–0,591	C6	1,890	4,299	
	B4035.UC6.08-15.Z1.P15.S	0,315–0,591	C6	0,906	4,299	
 Walter Capto™ in acc. with ISO 26623	B4035.UC6.10-12.Z1.WC03	0,394–0,472	C6	2,047	4,299	WC .. 0302 ..
	B4035.UC6.10-17.Z1.WC03	0,394–0,669	C6	1,063	4,299	
	B4035.UC6.11-18.Z1.WC03	0,433–0,709	C6	1,063	4,299	
	B4035.UC6.12-14.Z1.WC03	0,472–0,551	C6	2,441	4,299	
	B4035.UC6.12-19.Z1.WC03	0,472–0,748	C6	1,654	4,299	
	B4035.UC6.13-20.Z1.WC03	0,512–0,787	C6	1,654	4,299	
	B4035.UC6.14-16.Z1.WC03	0,551–0,630	C6	2,835	4,299	
	B4035.UC6.14-21.Z1.WC03	0,551–0,827	C6	1,85	4,299	
	B4035.UC6.15-22.Z1.WC03	0,591–0,866	C6	1,85	4,299	
	B4035.UC6.16-18.Z1.WC03	0,630–0,709	C6	3,228	4,299	
	B4035.UC6.16-23.Z1.WC03	0,630–0,906	C6	2,244	4,299	
	B4035.UC6.17-24.Z1.WC03	0,669–0,945	C6	2,244	4,299	
	B4035.UC6.18-20.Z1.WC03	0,709–0,787	C6	3,622	4,299	
	B4035.UC6.18-25.Z1.WC03	0,709–0,984	C6	2,559	4,299	
	B4035.UC6.19-26.Z1.WC03	0,748–1,024	C6	2,559	4,299	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

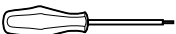
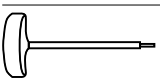
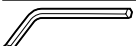
	Tipo	WC .. 0302 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS2084 (T7IP) 0,9 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



B 2

Corpo básico	Barra de mandrilar	Barra de mandrilar
B4035G.UC6.002-124.Z1	EB603.WXP15	EB603.WXP15
B4035G.UC6.002-124.Z1	EB604.WXP15	EB604.WXP15
B4035G.UC6.002-124.Z1	EB606.WXP15	EB606.WXP15
B4035G.UC6.002-124.Z1	EB605.WXP15	EB605.WXP15
B4035G.UC6.002-124.Z1	EB608.WXP15	EB608.WXP15
B4035G.UC6.002-124.Z1	EB607.WXP15	EB607.WXP15
B4035G.UC6.002-124.Z1	EB610.WXP15	EB610.WXP15
B4035G.UC6.002-124.Z1	EB609.WXP15	EB609.WXP15
B4035G.UC6.002-124.Z1	EB637.WC03.CS	EB637.WC03.CS
B4035G.UC6.002-124.Z1	EB611.WC03	EB611.WC03
B4035G.UC6.002-124.Z1	EB612.WC03	EB612.WC03
B4035G.UC6.002-124.Z1	EB638.WC03.CS	EB638.WC03.CS
B4035G.UC6.002-124.Z1	EB613.WC03	EB613.WC03
B4035G.UC6.002-124.Z1	EB614.WC03	EB614.WC03
B4035G.UC6.002-124.Z1	EB639.WC03.CS	EB639.WC03.CS
B4035G.UC6.002-124.Z1	EB615.WC03	EB615.WC03
B4035G.UC6.002-124.Z1	EB616.WC03	EB616.WC03
B4035G.UC6.002-124.Z1	EB640.WC03.CS	EB640.WC03.CS
B4035G.UC6.002-124.Z1	EB617.WC03	EB617.WC03
B4035G.UC6.002-124.Z1	EB618.WC03	EB618.WC03
B4035G.UC6.002-124.Z1	EB641.WC03.CS	EB641.WC03.CS
B4035G.UC6.002-124.Z1	EB619.WC03	EB619.WC03
B4035G.UC6.002-124.Z1	EB620.WC03	EB620.WC03

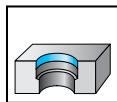
Acessórios

	Tipo	WC .. 0302 ..
	Chave para inserto intercambiável	FS2088 (T7IP)
	Chave de fenda para ajuste	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)

Ferramenta para mandrilamento em acabamento

B4035 **inch** $\kappa=93^\circ$

Z = 1



	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

Ferramenta

	Denominação	D _c inch	d ₁	L _c inch	lbs	Tipo
 Walter Capto™ in acc. with ISO 26623	B4035.UC6.20-24.Z1.WC04M	0,787–0,945	C6	4,606	4,299	WC .. 0402 ..
	B4035.UC6.20-24.Z1.WC04S	0,787–0,945	C6	3,031	4,299	
	B4035.UC6.22-26.Z1.WC04M	0,866–1,024	C6	4,606	4,299	
	B4035.UC6.22-26.Z1.WC04S	0,866–1,024	C6	3,031	4,299	
	B4035.UC6.24-28.Z1.WC04M	0,945–1,102	C6	4,606	4,299	
	B4035.UC6.24-28.Z1.WC04S	0,945–1,102	C6	3,031	4,299	
	B4035.UC6.26-30.Z1.WC04M	1,024–1,181	C6	4,606	4,299	
	B4035.UC6.26-30.Z1.WC04S	1,024–1,181	C6	3,031	4,299	
	B4035.UC6.28-32.Z1.WC04M	1,102–1,260	C6	4,606	4,299	
	B4035.UC6.28-32.Z1.WC04S	1,102–1,260	C6	3,031	4,299	
	B4035.UC6.30-34.Z1.WC04M	1,181–1,339	C6	4,606	4,299	
	B4035.UC6.30-34.Z1.WC04S	1,181–1,339	C6	3,031	4,299	
	B4035.UC6.32-41.Z1.WC04	1,260–1,614	C6	2,48	4,299	
	B4035.UC6.41-50.Z1.WC04	1,614–1,969	C6	3,898	4,299	
	B4035.UC6.50-59.Z1.WC04	1,969–2,323	C6	2,835	4,299	
	B4035.UC6.59-68.Z1.WC04	2,323–2,677	C6	4,606	4,299	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

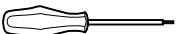
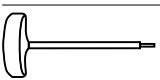
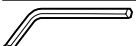
	Tipo	WC .. 0402 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS1454 (T8IP) 1,2 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



B 2

Corpo básico	Prolongador	Cápsula
B4035G.UC6.002-124.Z1	EB643.CS	EB644.WC04
B4035G.UC6.002-124.Z1	EB642	EB644.WC04
B4035G.UC6.002-124.Z1	EB643.CS	EB645.WC04
B4035G.UC6.002-124.Z1	EB642	EB645.WC04
B4035G.UC6.002-124.Z1	EB643.CS	EB621.WC04
B4035G.UC6.002-124.Z1	EB642	EB621.WC04
B4035G.UC6.002-124.Z1	EB643.CS	EB622.WC04
B4035G.UC6.002-124.Z1	EB642	EB622.WC04
B4035G.UC6.002-124.Z1	EB643.CS	EB623.WC04
B4035G.UC6.002-124.Z1	EB642	EB623.WC04
B4035G.UC6.002-124.Z1	EB643.CS	EB624.WC04
B4035G.UC6.002-124.Z1	EB642	EB624.WC04
B4035G.UC6.002-124.Z1	EB625	EB629.WC04
B4035G.UC6.002-124.Z1	EB626	EB630.WC04
B4035G.UC6.002-124.Z1	EB627	EB629.WC04
B4035G.UC6.002-124.Z1	EB628	EB630.WC04

Acessórios

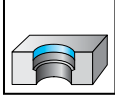
	Tipo	WC .. 0402 ..
	Chave para inserto intercambiável	FS1483 (T8IP)
	Chave de fenda para ajuste	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)

Ferramenta para mandrilamento em acabamento

B4035 inch

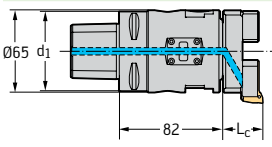
$\kappa=93^\circ$

Z = 1



	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

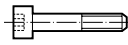
Ferramenta

	Denominação	D _c inch	d ₁	L _c inch		Tipo
	B4035.UC6.68-96.Z1.WC04	2,677–3,780	C6		4,299	WC .. 0402 ..
	B4035.UC6.96-124.Z1.WC04	3,780–4,882	C6		4,299	

Walter Capto™ in acc. with ISO 26623

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

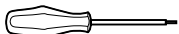
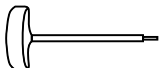
	Tipo	WC .. 0402 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS1454 (T8IP) 1,2 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



B 2

Corpo básico		Ponte	Contrapeso	Cápsula
	B4035G.UC6.002-124.Z1	EB631	EB635	EB634.WC04
	B4035G.UC6.002-124.Z1	EB632	EB635	EB634.WC04

Acessórios

	Tipo	WC .. 0402 ..
	Chave para inserto intercambiável	FS1483 (T8IP)
	Chave de fenda para ajuste	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)
	Alimentação da refrigeração para ponte	EB636

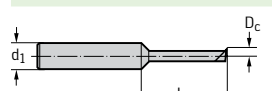
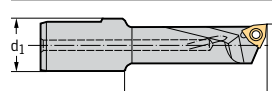
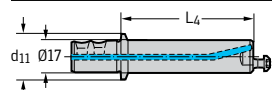
Barra de mandrilar

EB100 /

Walter Precision DIGITAL



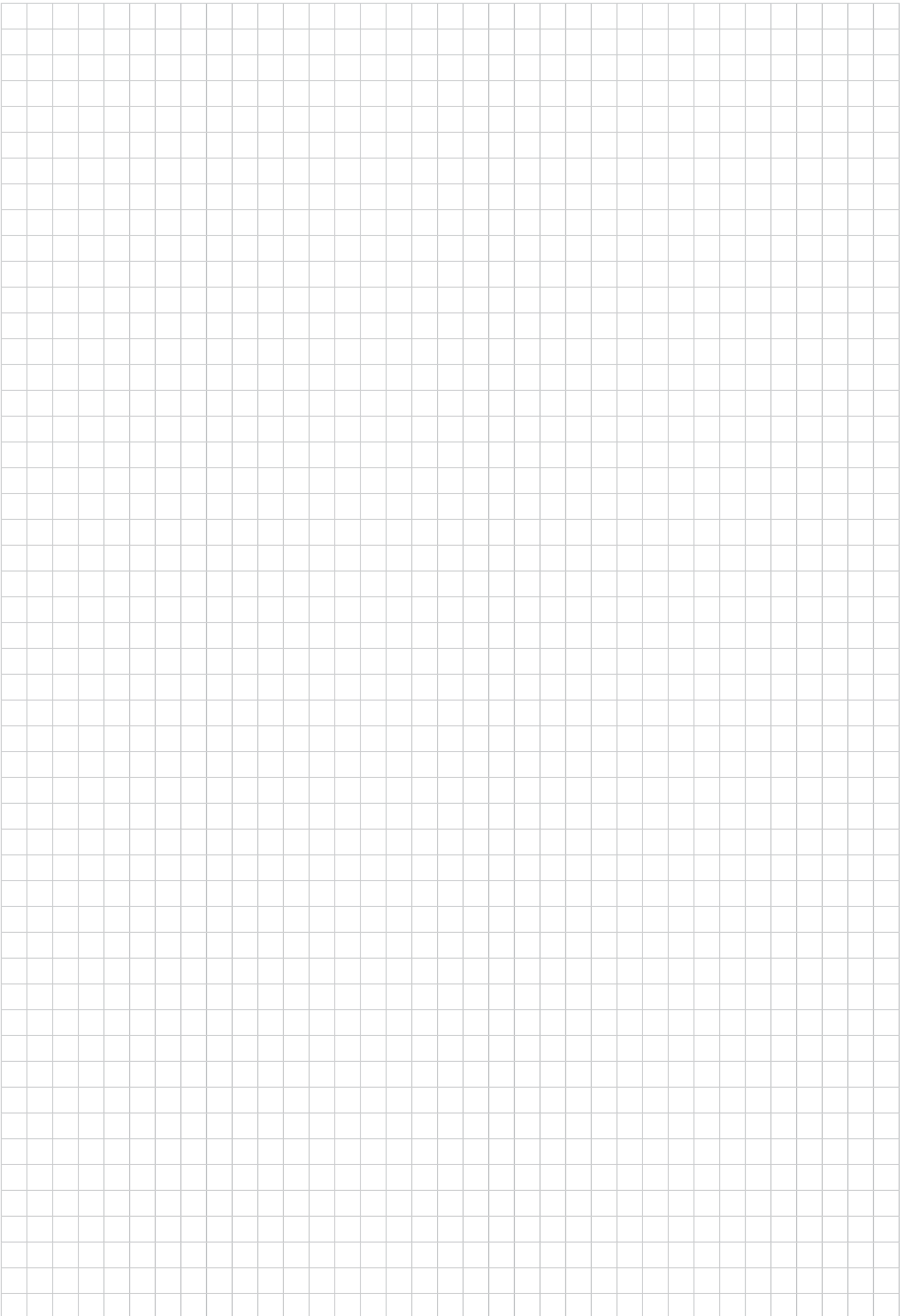
Ferramenta

	Denominação	D _{cmin} mm	d ₁ mm	f mm	l ₅ mm	l ₁₂ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁	
	EB603.WXP15	3		1,4		30,2		10		40,2	
	EB604.WXP15	4		1,9		30,7		10		40,7	
	EB605.WXP15	5		2,4		30,7		10		40,7	
	EB606.WXP15	5		2,4		30,7		20		50,7	
	EB607.WXP15	6		2,9		30,7		20		50,7	
	EB608.WXP15	6		2,9		30,7		30		60,7	
	EB609.WXP15	8		3,9		29,8		23		52,8	
	EB610.WXP15	8		3,9		29,8		48		77,8	
	EB611.WC03				27	-27		27			
	EB612.WC03				27	-27		27			
	EB613.WC03				42	-42		42			
	EB614.WC03				42	-42		42			
	EB615.WC03				47	-47		47			
	EB616.WC03				47	-47		47			
	EB617.WC03				57	-57		57			
	EB618.WC03				57	-57		57			
	EB619.WC03				65	-65		65			
	EB620.WC03				65	-65		65			
	EB637.WC03.CS				52	-52		52			WISO_ WC0302_1
	EB638.WC03.CS				62	-62		62			
	EB639.WC03.CS				72	-72		72			
	EB640.WC03.CS				82	-82		82			
	EB641.WC03.CS				92	-92		92			
	EB625						52				
	EB626						88				
	EB627						61				
	EB628						106				
	EB642						72				
	EB643.CS						108				

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️



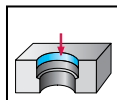
B 2

Ferramenta para mandrilamento em acabamento

B5110 mm

Walter Precision XT

– Ajuste do diâmetro em mm e polegadas



D_c 1–20	$\kappa=92^\circ$	$Z=1$

	P	M	K	N	S	H	O
B5110	●	●	●	●	●	●	●

Ferramenta

	Denominação	D_c mm	d_1	L_c mm	l_4 mm	kg	Tipo
 Modular NCT adaptor	B5110-001-003-N2-CS	1–3	NCT 25	6	47	0,1	
	B5110-0017-0037-N2-CS	1,7–3,7	NCT 25	9	47	0,1	
	B5110-0022-0042-N2-CS	2,2–4,2	NCT 25	13	52	0,1	
	B5110-0027-0047-N2-CS	2,7–4,7	NCT 25	15	52	0,1	
	B5110-0032-0052-N2-CS	3,2–5,2	NCT 25	20	57	0,1	
	B5110-0042-0062-N2-CS	4,2–6,2	NCT 25	20	57	0,1	
	B5110-0062-0082-N2-CS	6,2–8,2	NCT 25	30	72	0,2	
 Modular NCT adaptor	B5110-008-010-N2-TC06	8–10	NCT 25	30	71	0,2	TC .. 06T1 ..
	B5110-010-012-N3-TC06	10–12	NCT 32	40	88	0,3	
	B5110-012-014-N3-TC06	12–14	NCT 32	40	88	0,3	
 Modular NCT adaptor	B5110-014-017-N4-TC09	14–17	NCT 40	50	100	0,5	TC .. 0902 ..
	B5110-017-020-N4-TC09	17–20	NCT 40	50	100	0,5	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

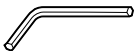
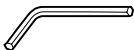
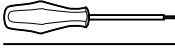
	Tipo	TC .. 06T1 ..	TC .. 0902 ..
	Parafuso de fixação	FS2623 (SW 2,5)	FS2625 (SW 3)
	Parafuso para inserto intercambiável	FS2626 (6IP) 0,6 Nm	FS2627 (7IP) 0,8 Nm



B 2

Corpo básico		Barra de mandrilar
	B5110-001-006-N2-B	EB701.WKP21
	B5110-001-006-N2-B	EB702.WKP21
	B5110-001-006-N2-B	EB703.WKP21
	B5110-001-006-N2-B	EB704.WKP21
	B5110-001-006-N2-B	EB705.WKP21
	B5110-001-006-N2-B	EB706.WKP21
	B5110-006-010-N2-B	EB707.WKP21
	B5110-006-010-N2-B	EB708.TC06
	B5110-010-014-N3-B	EB709.TC06
	B5110-010-014-N3-B	EB710.TC06
	B5110-014-020-N4-B	EB711.TC09
	B5110-014-020-N4-B	EB712.TC09

Acessórios

	Tipo		TC .. 06T1 ..	TC .. 0902 ..
	Chave ISO 2936-2,5	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)	
	Chave ISO 2936-3		ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave com controle de torque, analógica		FS2001	FS2001
	Haste intercambiável		FS2085 (T6IP)	FS2011 (T7IP)
	Chave		FS2086 (T6IP)	FS2088 (T7IP)

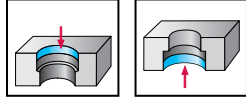
Ferramenta para mandrilamento em acabamento

B5115

mm

Walter Precision XT

– Ajuste do diâmetro em mm e polegadas



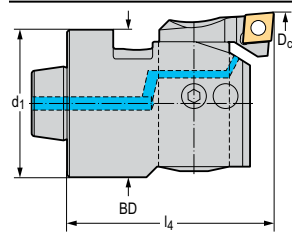
D_c 19–167	$\kappa=92^\circ$	$Z=1$

	P	M	K	N	S	H	O
B5115	●	●	●	●	●	●	●

Ferramenta

Denominação	D_c mm	d_1	l_4 mm	BD mm	kg	Tipo
B5115-035-045-N3-CC06	35–45	NCT 32	48	32	0,6	CC .. 0602 ..
B5115-044-056-N4-CC06	44–56	NCT 40	56	40	0,5	
B5115-055-070-N5-CC09	55–70	NCT 50	70	50	0,9	CC .. 09T3 ..
B5115-069-087-N6-CC09	69–87	NCT 63	82	63	1,7	
B5115-086-107-N6-CC09	86–107	NCT 63	94	80	2,4	
B5115-106-137-N6-CC09	106–137	NCT 63	94	100	2,8	
B5115-106-137-N8-CC09	106–137	NCT 80	104	100	4	
B5115-136-167-N6-CC09	136–167	NCT 63	94	130	3,4	
B5115-136-167-N8-CC09	136–167	NCT 80	104	130	4,4	

Modular NCT adaptor



Modular NCT adaptor

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

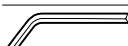
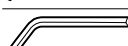
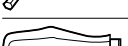
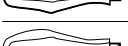
Tipo	CC .. 0602 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 0902 ..	TC .. 1102 ..
Parafuso de fixação	FS2624 (SW 3)	FS2630 (SW 4)	FS2628 (SW 2)	FS2624 (SW 3)	FS2630 (SW 4)
Parafuso para inserto intercambiável	FS2665 (7IP) 0,8 Nm	FS2666 (15IP) 3 Nm	FS2633 (6IP) 0,6 Nm	FS2664 (7IP) 0,8 Nm	FS2665 (7IP) 0,8 Nm
Parafuso para cápsula	FS2635 (SW 3)	FS2636 (SW 4)	FS2634 (SW 2)	FS2635 (SW 3)	FS2636 (SW 4)
Parafuso para líquido de refrigeração	FS2640 (SW 0,9)	FS2641 (SW 1,5)	FS2640 (SW 0,9)	FS2640 (SW 0,9)	FS2641 (SW 1,5)



B 2

Corpo básico		Cápsula
	B5115-035-045-N3-B	EB716.CC06
	B5115-044-056-N4-B	EB716.CC06
	B5115-055-070-N5-B	EB717.CC09
	B5115-069-087-N6-B	EB717.CC09
	B5115-086-107-N6-B	EB717.CC09
	B5115-106-137-N6-B	EB717.CC09
	B5115-106-137-N8-B	EB717.CC09
	B5115-136-167-N6-B	EB717.CC09
	B5115-136-167-N8-B	EB717.CC09

Acessórios

	Tipo	CC .. 0602 ..-TC .. 0902 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 1102 ..
	Chave ISO 2936-1,5		ISO2936-1,5 (SW 1,5)		ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-2		ISO2936-2 (SW 2)	ISO2936-2 (SW 2)	ISO2936-2 (SW 2)
	Chave ISO 2936-3	ISO2936-3 (SW 3)			
	Chave ISO 2936-0,9	ISO2936-0,9 (SW 0,9)		ISO2936-0,9 (SW 0,9)	
	Chave ISO 2936-4		ISO2936-4 (SW 4)		ISO2936-4 (SW 4)
	Chave com controle de torque, analógica	FS2001	FS2003	FS2001	FS2001
	Chave com controle de torque, digital		FS2248		
	Haste intercambiável	FS2011 (T7IP)	FS2014 (T15IP)	FS2085 (T6IP)	FS2011 (T7IP)
	Chave	FS2088 (T7IP)	FS1485 (T15IP)	FS2086 (T6IP)	FS2088 (T7IP)
	Haste intercambiável	EB736 3 Nm		EB735 1,2 Nm	
	Chave		EB737 6 Nm		EB737 6 Nm

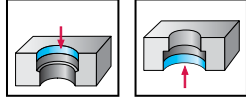
Ferramenta para mandrilamento em acabamento

B5115

mm

Walter Precision XT

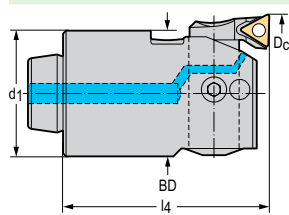
– Ajuste do diâmetro em mm e polegadas



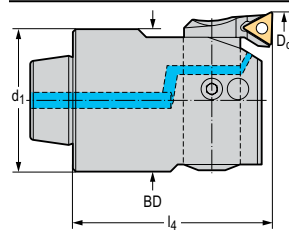
D_c 19–167	$\kappa=92^\circ$	$Z=1$

	P	M	K	N	S	H	O
B5115	●	●	●	●	●	●	●

Ferramenta



Modular NCT adaptor



Modular NCT adaptor

Denominação	D_c mm	d_1	l_4 mm	BD mm	kg	Tipo
B5115-019-023-N2-TC06	19–23	NCT 25	80	18	0,2	TC .. 06T1 ..
B5115-023-029-N2-TC06	23–29	NCT 25	91	20	0,2	
B5115-028-036-N2-TC06	28–36	NCT 25	41	25	0,2	
B5115-035-045-N3-TC09	35–45	NCT 32	48	32	0,3	TC .. 0902 ..
B5115-044-056-N4-TC09	44–56	NCT 40	56	40	1	

Corpo e componentes estão incluídos no escopo de fornecimento

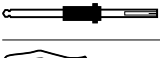
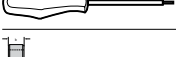
Componentes

Tipo		CC .. 0602 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 0902 ..	TC .. 1102 ..
	Parafuso de fixação	FS2624 (SW 3)	FS2630 (SW 4)	FS2628 (SW 2)	FS2624 (SW 3)	FS2630 (SW 4)
	Parafuso para inserto intercambiável	FS2665 (7IP) 0,8 Nm	FS2666 (15IP) 3 Nm	FS2633 (6IP) 0,6 Nm	FS2664 (7IP) 0,8 Nm	FS2665 (7IP) 0,8 Nm
	Parafuso para cápsula	FS2635 (SW 3)	FS2636 (SW 4)	FS2634 (SW 2)	FS2635 (SW 3)	FS2636 (SW 4)
	Parafuso para líquido de refrigeração	FS2640 (SW 0,9)	FS2641 (SW 1,5)	FS2640 (SW 0,9)	FS2640 (SW 0,9)	FS2641 (SW 1,5)



B 2

Corpo básico		Cápsula
	B5115-019-023-N2-B	EB713.TC06
	B5115-023-029-N2-B	EB713.TC06
	B5115-028-036-N2-B	EB713.TC06
	B5115-035-045-N3-B	EB714.TC09
	B5115-044-056-N4-B	EB714.TC09

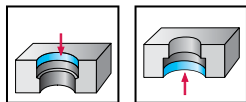
Acessórios		CC .. 0602 ..-TC .. 0902 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 1102 ..
	Chave ISO 2936-1,5		ISO2936-1,5 (SW 1,5)		ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-2		ISO2936-2 (SW 2)	ISO2936-2 (SW 2)	ISO2936-2 (SW 2)
	Chave ISO 2936-3	ISO2936-3 (SW 3)			
	Chave ISO 2936-0,9	ISO2936-0,9 (SW 0,9)		ISO2936-0,9 (SW 0,9)	
	Chave ISO 2936-4		ISO2936-4 (SW 4)		ISO2936-4 (SW 4)
	Chave com controle de torque, analógica	FS2001	FS2003	FS2001	FS2001
	Chave com controle de torque, digital		FS2248		
	Haste intercambiável	FS2011 (T7IP)	FS2014 (T15IP)	FS2085 (T6IP)	FS2011 (T7IP)
	Chave	FS2088 (T7IP)	FS1485 (T15IP)	FS2086 (T6IP)	FS2088 (T7IP)
	Haste intercambiável	EB736 3 Nm		EB735 1,2 Nm	
	Chave		EB737 6 Nm		EB737 6 Nm

Ferramenta para mandrilamento em acabamento

B5115

Walter Precision XT

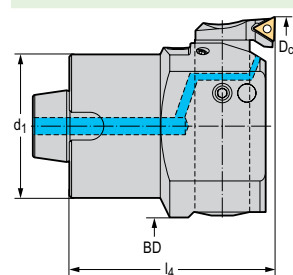
– Ajuste do diâmetro em mm e polegadas



D_c 19–167	$\kappa=92^\circ$	$Z=1$

	P	M	K	N	S	H	O
B5115	●	●	●	●	●	●	●

Ferramenta



Denominação	D_c mm	d_1	l_4 mm	BD mm	kg	Tipo
B5115-055-070-N5-TC11	55–70	NCT 50	66	50	0,9	TC .. 1102 ..
B5115-069-087-N6-TC11	69–87	NCT 63	78	63	1,7	
B5115-086-107-N6-TC11	86–107	NCT 63	90	80	2,4	
B5115-106-137-N6-TC11	106–137	NCT 63	90	100	2,8	
B5115-106-137-N8-TC11	106–137	NCT 80	100	100	4,1	
B5115-136-167-N6-TC11	136–167	NCT 63	90	130	3,4	
B5115-136-167-N8-TC11	136–167	NCT 80	100	130	4,4	

Modular NCT adaptor

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

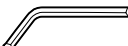
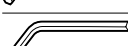
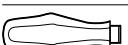
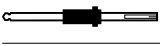
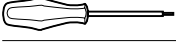
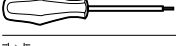
	Tipo	CC .. 0602 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 0902 ..	TC .. 1102 ..
	Parafuso de fixação	FS2624 (SW 3)	FS2630 (SW 4)	FS2628 (SW 2)	FS2624 (SW 3)	FS2630 (SW 4)
	Parafuso para inserto intercambiável	FS2665 (7IP) 0,8 Nm	FS2666 (15IP) 3 Nm	FS2633 (6IP) 0,6 Nm	FS2664 (7IP) 0,8 Nm	FS2665 (7IP) 0,8 Nm
	Parafuso para cápsula	FS2635 (SW 3)	FS2636 (SW 4)	FS2634 (SW 2)	FS2635 (SW 3)	FS2636 (SW 4)
	Parafuso para líquido de refrigeração	FS2640 (SW 0,9)	FS2641 (SW 1,5)	FS2640 (SW 0,9)	FS2640 (SW 0,9)	FS2641 (SW 1,5)



B 2

Corpo básico		Cápsula
	B5115-055-070-N5-B	EB715.TC11
	B5115-069-087-N6-B	EB715.TC11
	B5115-086-107-N6-B	EB715.TC11
	B5115-106-137-N6-B	EB715.TC11
	B5115-106-137-N8-B	EB715.TC11
	B5115-136-167-N6-B	EB715.TC11
	B5115-136-167-N8-B	EB715.TC11

Acessórios

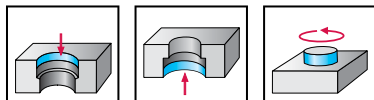
Tipo	CC .. 0602 ..-TC .. 0902 ..	CC .. 09T3 ..	TC .. 06T1 ..	TC .. 1102 ..
	Chave ISO 2936-1,5		ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-2		ISO2936-2 (SW 2)	ISO2936-2 (SW 2)
	Chave ISO 2936-3	ISO2936-3 (SW 3)		
	Chave ISO 2936-0,9	ISO2936-0,9 (SW 0,9)	ISO2936-0,9 (SW 0,9)	
	Chave ISO 2936-4		ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave com controle de torque, analógica	FS2001	FS2003	FS2001
	Chave com controle de torque, digital		FS2248	
	Haste intercambiável	FS2011 (T7IP)		FS2011 (T7IP)
	Chave	FS2088 (T7IP)		FS2088 (T7IP)
	Haste intercambiável		FS2014 (T15IP)	
	Chave		FS1485 (T15IP)	
	Prolongador	EB736 3 Nm		EB735 1,2 Nm
	Prolongador		EB737 6 Nm	EB737 6 Nm

Ferramenta para mandrilamento em acabamento

B5120 mm

Walter Precision XT

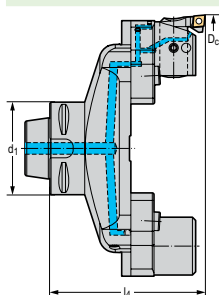
- Corpo básico/ponte também pode ser usado em B5460 e B5560
- Ajuste do diâmetro em mm e polegadas



D _c 148– 635	κ=92°	Z=1

	P	M	K	N	S	H	O
B5120	●	●	●	●	●	●	●

Ferramenta



Modular NCT adaptor

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5120-148-215-N8-CC09	148–215	NCT 80	134	5,7	CC .. 09T3 ..
B5120-198-265-N8-CC09	198–265	NCT 80	134	6,9	
B5120-248-315-N8-CC09	248–315	NCT 80	134	8	

Corpo e componentes estão incluídos no escopo de fornecimento

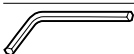
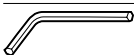
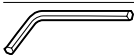
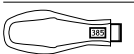
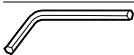
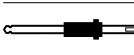
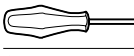
Componentes

	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Parafuso de fixação	FS2646 (SW 5)	FS2646 (SW 5)
	Parafuso para líquido de refrigeração	FS2641 (SW 1,5)	FS2641 (SW 1,5)
	Parafuso para inserto intercambiável	FS2666 (15IP) 3 Nm	FS2665 (7IP) 0,8 Nm
	Arruela	FS2649	FS2649
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)
	O-ring	FS2657	FS2657
	Prisioneiro	FS2654	FS2654



Corpo básico	Ponte	Corrediça	Módulo frontal para mandrilamento	Contrapeso	Cápsula
B5120-148-000-N8-B		EB719	EB718	EB721	EB717.CC09
B5120-198-000-N8-B		EB719	EB718	EB721	EB717.CC09
B5120-248-000-N8-B		EB719	EB718	EB721	EB717.CC09

B 2

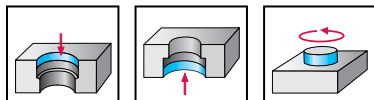
Acessórios			
	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave ISO 2936-5	ISO2936-5 (SW 5)	ISO2936-5 (SW 5)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave com controle de torque, analógica	FS2003	FS2001
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave com controle de torque, digital	FS2248	
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Haste intercambiável	FS2014 (T15IP)	FS2011 (T7IP)
	Chave	FS1485 (T15IP)	FS2088 (T7IP)
	Prolongador	EB737 6 Nm	EB737 6 Nm

Ferramenta para mandrilamento em acabamento

B5120 mm

Walter Precision XT

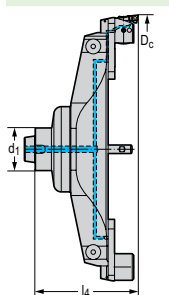
- Corpo básico/ponte também pode ser usado em B5460 e B5560
- Ajuste do diâmetro em mm e polegadas



D _c 148– 635	κ=92°	Z = 1

	P	M	K	N	S	H	O
B5120	●	●	●	●	●	●	●

Ferramenta



Modular NCT adaptor

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5120-298-395-N8-CC09	298–395	NCT 80	183	14,5	CC .. 09T3 ..
B5120-378-475-N8-CC09	378–475	NCT 80	188	16,3	
B5120-458-555-N8-CC09	458–555	NCT 80	193	18,2	
B5120-538-635-N8-CC09	538–635	NCT 80	198	20,6	

Corpo e componentes estão incluídos no escopo de fornecimento

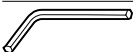
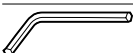
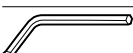
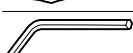
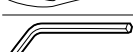
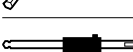
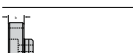
Componentes

	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Parafuso de fixação	FS2646 (SW 5)	FS2646 (SW 5)
	Parafuso para líquido de refrigeração	FS2641 (SW 1,5)	FS2641 (SW 1,5)
	Parafuso para inserto intercambiável	FS2666 (15IP) 3 Nm	FS2665 (7IP) 0,8 Nm
	Arruela	FS2649	FS2649
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)
	O-ring	FS2657	FS2657
	Prisioneiro	FS2654	FS2654



Corpo básico		Ponte	Corrediça	Módulo frontal para mandrilamento	Contrapeso	Cápsula
	B5120-298-000-N8-B	EB731	EB720	EB718	EB722	EB717.CC09
	B5120-298-000-N8-B	EB732	EB720	EB718	EB722	EB717.CC09
	B5120-298-000-N8-B	EB733	EB720	EB718	EB722	EB717.CC09
	B5120-298-000-N8-B	EB734	EB720	EB718	EB722	EB717.CC09

B 2

Acessórios			
	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave ISO 2936-5	ISO2936-5 (SW 5)	ISO2936-5 (SW 5)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave com controle de torque, analógica	FS2003	FS2001
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave com controle de torque, digital	FS2248	
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Haste intercambiável	FS2014 (T15IP)	FS2011 (T7IP)
	Chave	FS1485 (T15IP)	FS2088 (T7IP)
	Prolongador	EB737 6 Nm	EB737 6 Nm

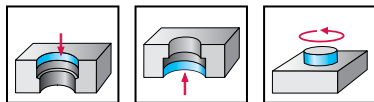
Ferramenta para mandrilamento em acabamento

B5120

mm

Walter Precision XT

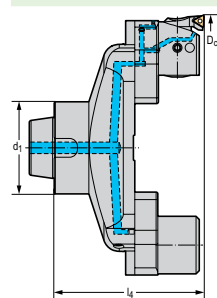
- Corpo básico/ponte também pode ser usado em B5460 e B5560
- Ajuste do diâmetro em mm e polegadas



D _c 148– 635	κ=92°	Z = 1

	P	M	K	N	S	H	O
B5120	●	●	●	●	●	●	●

Ferramenta



Modular NCT adaptor

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5120-148-215-N8-TC11	148–215	NCT 80	130	5,7	TC .. 1102 ..
B5120-198-265-N8-TC11	198–265	NCT 80	130	6,9	
B5120-248-315-N8-TC11	248–315	NCT 80	130	8	

Corpo e componentes estão incluídos no escopo de fornecimento

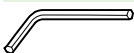
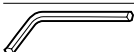
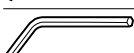
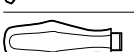
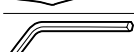
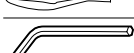
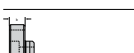
Componentes

	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Parafuso de fixação	FS2646 (SW 5)	FS2646 (SW 5)
	Parafuso para líquido de refrigeração	FS2641 (SW 1,5)	FS2641 (SW 1,5)
	Parafuso para inserto intercambiável	FS2666 (15IP) 3 Nm	FS2665 (7IP) 0,8 Nm
	Arruela	FS2649	FS2649
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)
	O-ring	FS2657	FS2657
	Prisioneiro	FS2654	FS2654



Corpo básico	Ponte	Corrediça	Módulo frontal para mandrilamento	Contrapeso	Cápsula
B5120-148-000-N8-B		EB719	EB718	EB721	EB715.TC11
B5120-198-000-N8-B		EB719	EB718	EB721	EB715.TC11
B5120-248-000-N8-B		EB719	EB718	EB721	EB715.TC11

B 2

Acessórios			
	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave ISO 2936-5	ISO2936-5 (SW 5)	ISO2936-5 (SW 5)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave com controle de torque, analógica	FS2003	FS2001
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave com controle de torque, digital	FS2248	
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Haste intercambiável	FS2014 (T15IP)	FS2011 (T7IP)
	Chave	FS1485 (T15IP)	FS2088 (T7IP)
	Prolongador	EB737 6 Nm	EB737 6 Nm

Ferramenta para mandrilamento em acabamento

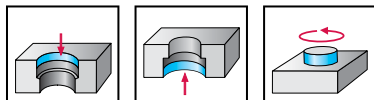
B5120

mm

Walter Precision XT

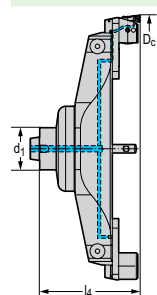
- Corpo básico/ponte também pode ser usado em B5460 e B5560
- Ajuste do diâmetro em mm e polegadas

D _c 148– 635	κ=92°	Z = 1



	P	M	K	N	S	H	O
B5120	●	●	●	●	●	●	●

Ferramenta



Modular NCT adaptor

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5120-298-395-N8-TC11	298–395	NCT 80	179	14,5	TC .. 1102 ..
B5120-378-475-N8-TC11	378–475	NCT 80	184	16,3	
B5120-458-555-N8-TC11	458–555	NCT 80	189	18,2	
B5120-538-635-N8-TC11	538–635	NCT 80	194	20,6	

Corpo e componentes estão incluídos no escopo de fornecimento

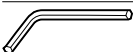
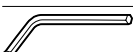
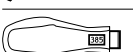
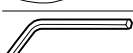
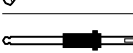
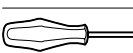
Componentes

	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Parafuso de fixação	FS2646 (SW 5)	FS2646 (SW 5)
	Parafuso para líquido de refrigeração	FS2641 (SW 1,5)	FS2641 (SW 1,5)
	Parafuso para inserto intercambiável	FS2666 (15IP) 3 Nm	FS2665 (7IP) 0,8 Nm
	Arruela	FS2649	FS2649
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)
	O-ring	FS2657	FS2657
	Prisioneiro	FS2654	FS2654



Corpo básico		Ponte	Corrediça	Módulo frontal para mandrilamento	Contrapeso	Cápsula
	B5120-298-000-N8-B	EB731	EB720	EB718	EB722	EB715.TC11
	B5120-298-000-N8-B	EB732	EB720	EB718	EB722	EB715.TC11
	B5120-298-000-N8-B	EB733	EB720	EB718	EB722	EB715.TC11
	B5120-298-000-N8-B	EB734	EB720	EB718	EB722	EB715.TC11

B 2

Acessórios			
	Tipo	CC .. 09T3 ..	TC .. 1102 ..
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave ISO 2936-5	ISO2936-5 (SW 5)	ISO2936-5 (SW 5)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave com controle de torque, analógica	FS2003	FS2001
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave com controle de torque, digital	FS2248	
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Haste intercambiável	FS2014 (T15IP)	FS2011 (T7IP)
	Chave	FS1485 (T15IP)	FS2088 (T7IP)
	Prolongador	EB737 6 Nm	EB737 6 Nm

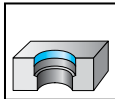
Ferramenta para mandrilamento em acabamento

B4035

mm

 $\kappa=93^\circ$

Z=1



	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

Ferramenta

	Denominação	D _c mm	d ₁	L _c mm	kg	Tipo
 ScrewFit	B4035.T45.03-10.Z1.P15	3-10	T45	10	2	
	B4035.T45.04-11.Z1.P15	4-11	T45	10	2	
	B4035.T45.05-12.Z1.P15.M	5-12	T45	20	2	
	B4035.T45.05-12.Z1.P15.S	5-12	T45	10	2	
	B4035.T45.06-13.Z1.P15.M	6-13	T45	30	2	
	B4035.T45.06-13.Z1.P15.S	6-13	T45	20	2	
	B4035.T45.08-15.Z1.P15.M	8-15	T45	48	2	
	B4035.T45.08-15.Z1.P15.S	8-15	T45	23	2	
 ScrewFit	B4035.T45.10-12.Z1.WC03	10-12	T45	52	2	WC .. 0302 ..
	B4035.T45.10-17.Z1.WC03	10-17	T45	27	2	
	B4035.T45.11-18.Z1.WC03	11-18	T45	27	2	
	B4035.T45.12-14.Z1.WC03	12-14	T45	62	2	
	B4035.T45.12-19.Z1.WC03	12-19	T45	42	2	
	B4035.T45.13-20.Z1.WC03	13-20	T45	42	2	
	B4035.T45.14-16.Z1.WC03	14-16	T45	72	2	
	B4035.T45.14-21.Z1.WC03	14-21	T45	47	1,6	
	B4035.T45.15-22.Z1.WC03	15-22	T45	47	2	
	B4035.T45.16-18.Z1.WC03	16-18	T45	82	2	
	B4035.T45.16-23.Z1.WC03	16-23	T45	57	2	
	B4035.T45.17-24.Z1.WC03	17-24	T45	57	2	
	B4035.T45.18-20.Z1.WC03	18-20	T45	92	2	
	B4035.T45.18-25.Z1.WC03	18-25	T45	65	2	
	B4035.T45.19-26.Z1.WC03	19-26	T45	65	2	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

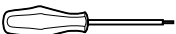
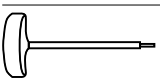
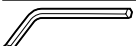
	Tipo	WC .. 0302 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS2084 (T7IP) 0,9 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



B 2

Corpo básico	Barra de mandrilar	Barra de mandrilar
B4035G.T45.002-124.Z1	EB603.WXP15	EB603.WXP15
B4035G.T45.002-124.Z1	EB604.WXP15	EB604.WXP15
B4035G.T45.002-124.Z1	EB606.WXP15	EB606.WXP15
B4035G.T45.002-124.Z1	EB605.WXP15	EB605.WXP15
B4035G.T45.002-124.Z1	EB608.WXP15	EB608.WXP15
B4035G.T45.002-124.Z1	EB607.WXP15	EB607.WXP15
B4035G.T45.002-124.Z1	EB610.WXP15	EB610.WXP15
B4035G.T45.002-124.Z1	EB609.WXP15	EB609.WXP15
B4035G.T45.002-124.Z1	EB637.WC03.CS	EB637.WC03.CS
B4035G.T45.002-124.Z1	EB611.WC03	EB611.WC03
B4035G.T45.002-124.Z1	EB612.WC03	EB612.WC03
B4035G.T45.002-124.Z1	EB638.WC03.CS	EB638.WC03.CS
B4035G.T45.002-124.Z1	EB613.WC03	EB613.WC03
B4035G.T45.002-124.Z1	EB614.WC03	EB614.WC03
B4035G.T45.002-124.Z1	EB639.WC03.CS	EB639.WC03.CS
B4035G.T45.002-124.Z1	EB615.WC03	EB615.WC03
B4035G.T45.002-124.Z1	EB616.WC03	EB616.WC03
B4035G.T45.002-124.Z1	EB640.WC03.CS	EB640.WC03.CS
B4035G.T45.002-124.Z1	EB617.WC03	EB617.WC03
B4035G.T45.002-124.Z1	EB618.WC03	EB618.WC03
B4035G.T45.002-124.Z1	EB641.WC03.CS	EB641.WC03.CS
B4035G.T45.002-124.Z1	EB619.WC03	EB619.WC03
B4035G.T45.002-124.Z1	EB620.WC03	EB620.WC03

Acessórios

	Tipo	WC .. 0302 ..	
	Chave para inserto intercambiável		FS2088 (T7IP)
	Chave de fenda para ajuste	FS1174 (T25)	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)

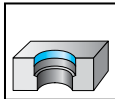
Ferramenta para mandrilamento em acabamento

B4035

mm

 $\kappa=93^\circ$

Z = 1



	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

Ferramenta

	Denominação	D _c mm	d ₁	L _c mm	kg	Tipo
 ScrewFit	B4035.T45.20-24.Z1.WC04M	20-24	T45	117	2	WC .. 0402 ..
	B4035.T45.20-24.Z1.WC04S	20-24	T45	77	2	
	B4035.T45.22-26.Z1.WC04M	22-26	T45	117	2	
	B4035.T45.22-26.Z1.WC04S	22-26	T45	77	2	
	B4035.T45.24-28.Z1.WC04M	24-28	T45	117	2	
	B4035.T45.24-28.Z1.WC04S	24-28	T45	77	2	
	B4035.T45.26-30.Z1.WC04M	26-30	T45	117	2	
	B4035.T45.26-30.Z1.WC04S	26-30	T45	77	2	
	B4035.T45.28-32.Z1.WC04M	28-32	T45	117	2	
	B4035.T45.28-32.Z1.WC04S	28-32	T45	77	2	
	B4035.T45.30-34.Z1.WC04M	30-34	T45	117	2	
	B4035.T45.30-34.Z1.WC04S	30-34	T45	77	2	
	B4035.T45.32-41.Z1.WC04	32-41	T45	63	2	
	B4035.T45.41-50.Z1.WC04	41-50	T45	99	2	
	B4035.T45.50-59.Z1.WC04	50-59	T45	72	2	
	B4035.T45.59-68.Z1.WC04	59-68	T45	117	2	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

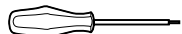
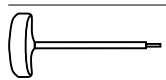
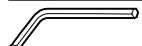
	Tipo	WC .. 0402 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS1454 (T8IP) 1,2 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



B 2

Corpo básico	Prolongador	Cápsula
B4035G.T45.002-124.Z1	EB643.CS	EB644.WC04
B4035G.T45.002-124.Z1	EB642	EB644.WC04
B4035G.T45.002-124.Z1	EB643.CS	EB645.WC04
B4035G.T45.002-124.Z1	EB642	EB645.WC04
B4035G.T45.002-124.Z1	EB643.CS	EB621.WC04
B4035G.T45.002-124.Z1	EB642	EB621.WC04
B4035G.T45.002-124.Z1	EB643.CS	EB622.WC04
B4035G.T45.002-124.Z1	EB642	EB622.WC04
B4035G.T45.002-124.Z1	EB643.CS	EB623.WC04
B4035G.T45.002-124.Z1	EB642	EB623.WC04
B4035G.T45.002-124.Z1	EB643.CS	EB624.WC04
B4035G.T45.002-124.Z1	EB642	EB624.WC04
B4035G.T45.002-124.Z1	EB625	EB629.WC04
B4035G.T45.002-124.Z1	EB626	EB630.WC04
B4035G.T45.002-124.Z1	EB627	EB629.WC04
B4035G.T45.002-124.Z1	EB628	EB630.WC04

Acessórios

	Tipo	WC .. 0402 ..
	Chave para inserto intercambiável	FS1483 (T8IP)
	Chave de fenda para ajuste	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)

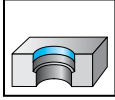
Ferramenta para mandrilamento em acabamento

B4035

mm

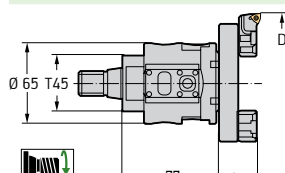
 $\kappa=93^\circ$

Z = 1



	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

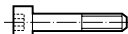
Ferramenta

	Denominação	D _c mm	d ₁	L _c mm	kg	Tipo
	B4035.T45.68-96.Z1.WC04	68-96	T45		2	WC .. 0402 ..
	B4035.T45.96-124.Z1.WC04	96-124	T45		2	

ScrewFit

Corpo e componentes estão incluídos no escopo de fornecimento

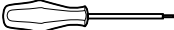
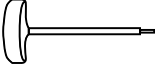
Componentes

	Tipo	WC .. 0402 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS1454 (T8IP) 1,2 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



B 2

Corpo básico		Ponte	Contrapeso	Cápsula
	B4035G.T45.002-124.Z1	EB631	EB635	EB634.WC04
	B4035G.T45.002-124.Z1	EB632	EB635	EB634.WC04

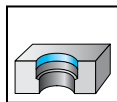
Acessórios		
	Tipo	WC .. 0402 ..
	Chave para inserto intercambiável	FS1483 (T8IP)
	Chave de fenda para ajuste	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)
	Alimentação da refrigeração para ponte	EB636

Ferramenta para mandrilamento em acabamento

B4035 inch

 $\kappa=93^\circ$

Z = 1



	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

Ferramenta

	Denominação	D _c inch	d ₁	L _c inch	lbs	Tipo
 ScrewFit	B4035.UT45.03-10.Z1.P15	0,118–0,394	T45	0,394	4,299	
	B4035.UT45.04-11.Z1.P15	0,157–0,433	T45	0,394	4,299	
	B4035.UT45.05-12.Z1.P15M	0,197–0,472	T45	0,787	4,299	
	B4035.UT45.05-12.Z1.P15S	0,197–0,472	T45	0,394	4,299	
	B4035.UT45.06-13.Z1.P15M	0,236–0,512	T45	1,181	4,299	
	B4035.UT45.06-13.Z1.P15S	0,236–0,512	T45	0,787	4,299	
	B4035.UT45.08-15.Z1.P15M	0,315–0,591	T45	1,890	4,299	
	B4035.UT45.08-15.Z1.P15S	0,315–0,591	T45	0,906	4,299	
 ScrewFit	B4035.UT45.10-12.Z1.WC03	0,394–0,472	T45	2,047	4,299	WC .. 0302 ..
	B4035.UT45.10-17.Z1.WC03	0,394–0,669	T45	1,063	4,299	
	B4035.UT45.11-18.Z1.WC03	0,433–0,709	T45	1,063	4,299	
	B4035.UT45.12-14.Z1.WC03	0,472–0,551	T45	2,441	4,299	
	B4035.UT45.12-19.Z1.WC03	0,472–0,748	T45	1,654	4,299	
	B4035.UT45.13-20.Z1.WC03	0,512–0,787	T45	1,654	4,299	
	B4035.UT45.14-16.Z1.WC03	0,551–0,630	T45	2,835	4,299	
	B4035.UT45.14-21.Z1.WC03	0,551–0,827	T45	1,85	4,299	
	B4035.UT45.15-22.Z1.WC03	0,591–0,866	T45	1,85	4,299	
	B4035.UT45.16-18.Z1.WC03	0,630–0,709	T45	3,228	4,299	
	B4035.UT45.16-23.Z1.WC03	0,630–0,906	T45	2,244	4,299	
	B4035.UT45.17-24.Z1.WC03	0,669–0,945	T45	2,244	4,299	
	B4035.UT45.18-20.Z1.WC03	0,709–0,787	T45	3,622	4,299	
	B4035.UT45.18-25.Z1.WC03	0,709–0,984	T45	2,559	4,299	
	B4035.UT45.19-26.Z1.WC03	0,748–1,024	T45	2,559	4,299	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

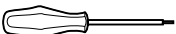
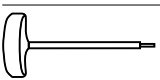
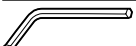
	Tipo	WC .. 0302 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS2084 (T7IP) 0,9 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



B 2

Corpo básico	Barra de mandrilar	Barra de mandrilar
B4035G.C6.002-124.Z1	EB603.WXP15	EB603.WXP15
B4035G.T45.002-124.Z1	EB604.WXP15	EB604.WXP15
B4035G.T45.002-124.Z1	EB606.WXP15	EB606.WXP15
B4035G.T45.002-124.Z1	EB605.WXP15	EB605.WXP15
B4035G.T45.002-124.Z1	EB608.WXP15	EB608.WXP15
B4035G.T45.002-124.Z1	EB607.WXP15	EB607.WXP15
B4035G.T45.002-124.Z1	EB610.WXP15	EB610.WXP15
B4035G.T45.002-124.Z1	EB609.WXP15	EB609.WXP15
B4035G.UT45.002-124.Z1	EB637.WC03.CS	EB637.WC03.CS
B4035G.UT45.002-124.Z1	EB611.WC03	EB611.WC03
B4035G.UT45.002-124.Z1	EB612.WC03	EB612.WC03
B4035G.UT45.002-124.Z1	EB638.WC03.CS	EB638.WC03.CS
B4035G.UT45.002-124.Z1	EB613.WC03	EB613.WC03
B4035G.UT45.002-124.Z1	EB614.WC03	EB614.WC03
B4035G.UT45.002-124.Z1	EB639.WC03.CS	EB639.WC03.CS
B4035G.UT45.002-124.Z1	EB615.WC03	EB615.WC03
B4035G.UT45.002-124.Z1	EB616.WC03	EB616.WC03
B4035G.UT45.002-124.Z1	EB640.WC03.CS	EB640.WC03.CS
B4035G.UT45.002-124.Z1	EB617.WC03	EB617.WC03
B4035G.UT45.002-124.Z1	EB618.WC03	EB618.WC03
B4035G.UT45.002-124.Z1	EB641.WC03.CS	EB641.WC03.CS
B4035G.UT45.002-124.Z1	EB619.WC03	EB619.WC03
B4035G.UT45.002-124.Z1	EB620.WC03	EB620.WC03

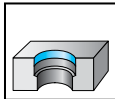
Acessórios

	Tipo	WC .. 0302 ..
	Chave para inserto intercambiável	FS2088 (T7IP)
	Chave de fenda para ajuste	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)

Ferramenta para mandrilamento em acabamento

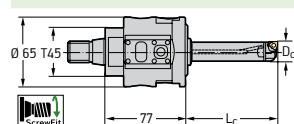
B4035 inch $\kappa=93^\circ$

Z = 1



	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

Ferramenta



ScrewFit

Denominação	D _c inch	d ₁	L _c inch	lbs	Tipo
B4035.UT45.20-24.Z1WC04M	0,787–0,945	T45	4,606	4,299	WC .. 0402 ..
B4035.UT45.20-24.Z1WC04S	0,787–0,945	T45	3,031	4,299	
B4035.UT45.22-26.Z1WC04M	0,866–1,024	T45	4,606	4,299	
B4035.UT45.22-26.Z1WC04S	0,866–1,024	T45	3,031	4,299	
B4035.UT45.24-28.Z1WC04M	0,945–1,102	T45	4,606	4,299	
B4035.UT45.24-28.Z1WC04S	0,945–1,102	T45	3,031	4,299	
B4035.UT45.26-30.Z1WC04M	1,024–1,181	T45	4,606	4,299	
B4035.UT45.26-30.Z1WC04S	1,024–1,181	T45	3,031	4,299	
B4035.UT45.28-32.Z1WC04M	1,102–1,260	T45	4,606	4,299	
B4035.UT45.28-32.Z1WC04S	1,102–1,260	T45	3,031	4,299	
B4035.UT45.30-34.Z1WC04M	1,181–1,339	T45	4,606	4,299	
B4035.UT45.30-34.Z1WC04S	1,181–1,339	T45	3,031	4,299	
B4035.UT45.32-41.Z1WC04	1,260–1,614	T45	2,48	4,299	
B4035.UT45.41-50.Z1WC04	1,614–1,969	T45	3,898	4,299	
B4035.UT45.50-59.Z1WC04	1,969–2,323	T45	2,835	4,299	
B4035.UT45.59-68.Z1WC04	2,323–2,677	T45	4,606	4,299	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

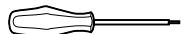
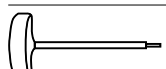
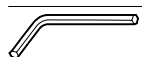
	Tipo	WC .. 0402 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS1454 (T8IP) 1,2 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



B 2

Corpo básico	Prolongador	Cápsula
B4035G.UT45.002-124.Z1	EB643.CS	EB644.WC04
B4035G.UT45.002-124.Z1	EB642	EB644.WC04
B4035G.UT45.002-124.Z1	EB643.CS	EB645.WC04
B4035G.UT45.002-124.Z1	EB642	EB645.WC04
B4035G.UT45.002-124.Z1	EB643.CS	EB621.WC04
B4035G.UT45.002-124.Z1	EB642	EB621.WC04
B4035G.UT45.002-124.Z1	EB643.CS	EB622.WC04
B4035G.UT45.002-124.Z1	EB642	EB622.WC04
B4035G.UT45.002-124.Z1	EB643.CS	EB623.WC04
B4035G.UT45.002-124.Z1	EB642	EB623.WC04
B4035G.UT45.002-124.Z1	EB643.CS	EB624.WC04
B4035G.UT45.002-124.Z1	EB642	EB624.WC04
B4035G.UT45.002-124.Z1	EB625	EB629.WC04
B4035G.UT45.002-124.Z1	EB626	EB630.WC04
B4035G.UT45.002-124.Z1	EB627	EB629.WC04
B4035G.UT45.002-124.Z1	EB628	EB630.WC04

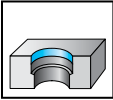
Acessórios

	Tipo	WC .. 0402 ..
	Chave para inserto intercambiável	FS1483 (T8IP)
	Chave de fenda para ajuste	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)

Ferramenta para mandrilamento em acabamento
B4035 inch

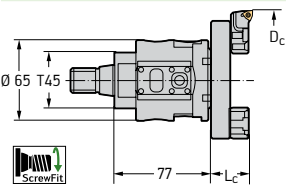
κ=93°

Z=1



	P	M	K	N	S	H	O
B4035	●	●	●	●	●	●	●

Ferramenta



ScrewFit

Corpo e componentes estão incluídos no escopo de fornecimento

Denominação	D _c inch	d ₁	L _c inch		Tipo
B4035.UT45.68-96.Z1.WC04	2,677–3,780	T45		4,299	WC .. 0402 ..
B4035.UT45.96-124.Z1WC04	3,780–4,882	T45		4,299	

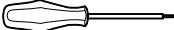
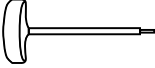
Componentes

	Tipo	WC .. 0402 ..
	Parafuso de fixação	FS2101
	Parafuso para inserto intercambiável	FS1454 (T8IP) 1,2 Nm
	Pino roscado	FS2102
	Bateria	FS2122
	Gaxeta do compartimento da bateria	FS2121
	Tampa do compartimento da bateria	FS2123



Corpo básico		Ponte	Contrapeso	Cápsula
	B4035G.UT45.002-124.Z1	EB631	EB635	EB634.WC04
	B4035G.UT45.002-124.Z1	EB632	EB635	EB634.WC04

B 2

Acessórios		
	Tipo	WC .. 0402 ..
	Chave para inserto intercambiável	FS1483 (T8IP)
	Chave de fenda para ajuste	FS1174 (T25)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)
	Alimentação da refrigeração para ponte	EB636

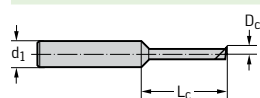
Barra de mandrilar

EB100 /

Walter Precision DIGITAL



Ferramenta



Denominação

D_{cmin}
mm

d₁
mm

f
mm

l₅
mm

l₁₂
mm

L_c
mm

l₁
mm

EB603.WXP15

3

1,4

30,2

10

40,2

EB604.WXP15

4

1,9

30,7

10

40,7

EB605.WXP15

5

2,4

30,7

10

40,7

EB606.WXP15

5

2,4

30,7

20

50,7

EB607.WXP15

6

2,9

30,7

20

50,7

EB608.WXP15

6

2,9

30,7

30

60,7

EB609.WXP15

8

3,9

29,8

23

52,8

EB610.WXP15

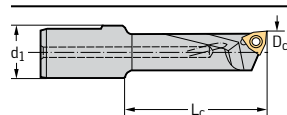
8

3,9

29,8

48

77,8



EB611.WC03

27

-27

27

EB612.WC03

27

-27

27

EB613.WC03

42

-42

42

EB614.WC03

42

-42

42

EB615.WC03

47

-47

47

EB616.WC03

47

-47

47

EB617.WC03

57

-57

57

EB618.WC03

57

-57

57

EB619.WC03

65

-65

65

EB620.WC03

65

-65

65

EB637.WC03.CS

52

-52

52

EB638.WC03.CS

62

-62

62

EB639.WC03.CS

72

-72

72

EB640.WC03.CS

82

-82

82

EB641.WC03.CS

92

-92

92

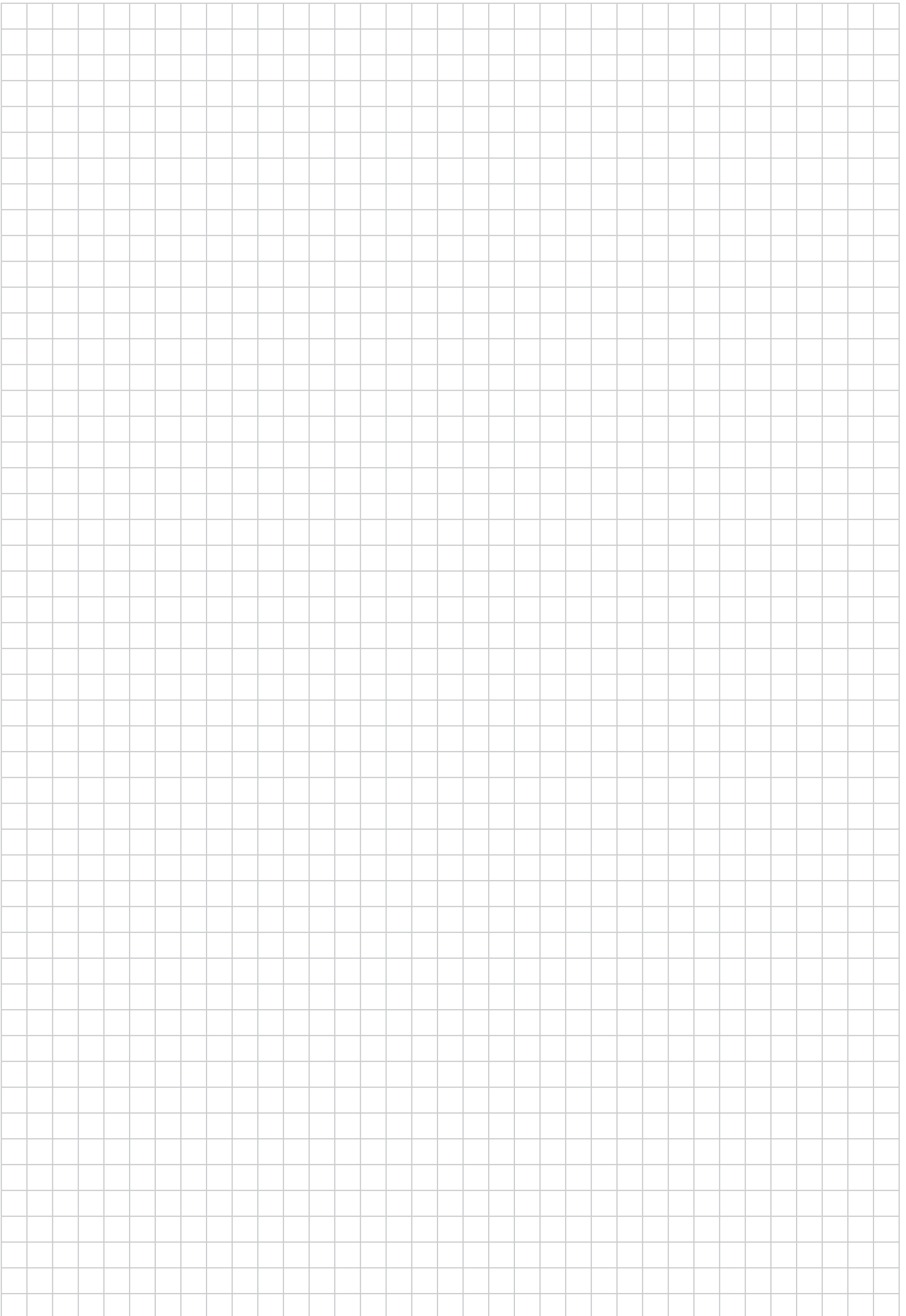
WISO_
WC0302_1

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞



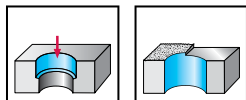
B 2

Ferramenta para mandrilamento com dois cortadores

B5460 mm

Walter Boring XT

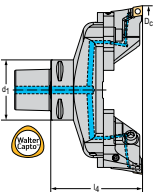
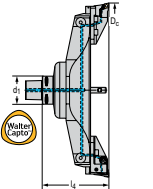
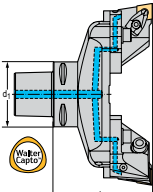
- Mandrilamento simétrico, assimétrico e com desvio axial-radial (ARS)
- Corpo básico/ponte também pode ser usado em B5120



D _c 148– 620	Z=2	κ=90°

	P	M	K	N	S	H	O
B5460	●	●	●	●	●		

Ferramenta

	B5460-148-200-C8-CC12	148–200	C8	122	7	CC .. 1204 ..	
	B5460-198-250-C8-CC12	198–250	C8	122	8,1		
	B5460-248-300-C8-CC12	248–300	C8	122	9,2		
Walter Capto™ in acc. with ISO 26623							
	B5460-298-380-C8-CC12	298–380	C8	179	15,5	CC .. 1204 ..	
	B5460-378-460-C8-CC12	378–460	C8	184	17,3		
	B5460-458-540-C8-CC12	458–540	C8	189	19,2		
	B5460-538-620-C8-CC12	538–620	C8	194	21,6		
Walter Capto™ in acc. with ISO 26623							
	B5460-148-200-C8-CN19	148–200	C8	122	7,1	CN .. 1906 ..	
	B5460-198-250-C8-CN19	198–250	C8	122	8,2		
	B5460-248-300-C8-CN19	248–300	C8	122	9,3		
Walter Capto™ in acc. with ISO 26623							

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

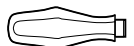
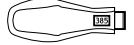
	Tipo	CC .. 1204 ..	CN .. 1906 ..	WWAL_BE1204_2
	Jogo de cunhas	FK398	FK398	FK398
	Parafuso de fixação	FS2662 (SW 8)	FS2662 (SW 8)	FS2662 (SW 8)
	Parafuso para inserto intercambiável	FS2658 (15IP) 3 Nm		FS2658 (15IP) 3 Nm
	Anel trava	FS2663	FS2663	FS2663
	Calço	AP197	AP198	AP199
	Arruela	FS2647	FS2647	FS2647
	Parafuso para líquido de refrigeração	FS2671 (SW 2.5)	FS2671 (SW 2.5)	FS2671 (SW 2.5)
	Parafuso para calço	FS2660 (SW 4)	FS2661 (20IP) 6,4 Nm	FS2660 (SW 4)
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)	FS2653 (SW 3)
	Prisoneiro	FS2654	FS2654	FS2654
	Mola de disco	FS2650	FS2650	FS2650
	Fixação RC		FS2659	



B 2

	Corpo básico	Ponte	Correção	Cápsula
	B5120-148-000-C8-B		EB723	EB725.CC12
	B5120-198-000-C8-B		EB723	EB725.CC12
	B5120-248-000-C8-B		EB723	EB725.CC12
	B5120-298-000-C8-B	EB731	EB724	EB725.CC12
	B5120-298-000-C8-B	EB732	EB724	EB725.CC12
	B5120-298-000-C8-B	EB733	EB724	EB725.CC12
	B5120-298-000-C8-B	EB734	EB724	EB725.CC12
	B5120-148-000-C8-B		EB723	EB726.CN19
	B5120-198-000-C8-B		EB723	EB726.CN19
	B5120-248-000-C8-B		EB723	EB726.CN19

Acessórios

	Tipo	CC .. 1204 ..	CN .. 1906 ..	WWAL_BE1204_2
	Chave ISO 2936-2,5	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave T com controle de torque	FS2041	FS2041	FS2041
	Haste intercambiável	FS2047 (T15IP)		FS2047 (T15IP)
	Haste intercambiável	FS2048 (T20IP)	FS2048 (T20IP)	
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave	FS1485 (T15IP)		FS1485 (T15IP)
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Chave	FS1486 (T20IP)	FS1486 (T20IP)	
	Chave com controle de torque, analógica	FS2003		FS2003
	Chave com controle de torque, digital	FS2248		FS2248

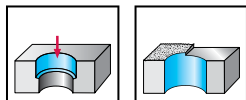
Ferramenta para mandrilamento com dois cortadores

B5460 mm

Walter Boring XT

- Mandrilamento simétrico, assimétrico e com desvio axial-radial (ARS)
- Corpo básico/ponte também pode ser usado em B5120

D _c 148– 620	Z=2	κ=90°



	P	M	K	N	S	H	O
B5460	●●	●●	●●	●●	●●	●●	●●

Ferramenta

	Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
	B5460-298-380-C8-CN19	298–380	C8	179	15,7	CN .. 1906 ..
	B5460-378-460-C8-CN19	378–460	C8	184	17,4	
	B5460-458-540-C8-CN19	458–540	C8	189	19,3	
	B5460-538-620-C8-CN19	538–620	C8	194	21,7	
	B5460-148-200-C8-SC12	148–200	C8	122	7	WWAL_ BE1204_2
	B5460-198-250-C8-SC12	198–250	C8	122	8,1	
	B5460-248-300-C8-SC12	248–300	C8	122	9,2	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	Tipo	CC .. 1204 ..	CN .. 1906 ..	WWAL_BE1204_2
	Jogo de cunhas	FK398	FK398	FK398
	Parafuso de fixação	FS2662 (SW 8)	FS2662 (SW 8)	FS2662 (SW 8)
	Parafuso para inserto intercambiável	FS2658 (15IP) 3 Nm		FS2658 (15IP) 3 Nm
	Anel trava	FS2663	FS2663	FS2663
	Calço	AP197	AP198	AP199
	Arruela	FS2647	FS2647	FS2647
	Parafuso para líquido de refrigeração	FS2671 (SW 2.5)	FS2671 (SW 2.5)	FS2671 (SW 2.5)
	Parafuso para calço	FS2660 (SW 4)	FS2661 (20IP) 6,4 Nm	FS2660 (SW 4)
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)	FS2653 (SW 3)
	Prisioneiro	FS2654	FS2654	FS2654
	Mola de disco	FS2650	FS2650	FS2650
	Fixação RC		FS2659	



Corpo básico		Ponte	Correção	Cápsula
	B5120-298-000-C8-B	EB731	EB724	EB726.CN19
	B5120-298-000-C8-B	EB732	EB724	EB726.CN19
	B5120-298-000-C8-B	EB733	EB724	EB726.CN19
	B5120-298-000-C8-B	EB734	EB724	EB726.CN19
	B5120-148-000-C8-B		EB723	EB727.SC12
	B5120-198-000-C8-B		EB723	EB727.SC12
	B5120-248-000-C8-B		EB723	EB727.SC12

Acessórios

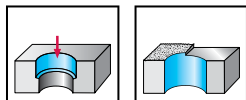
	Tipo	CC .. 1204 ..	CN .. 1906 ..	WWAL_BE1204_2
	Chave ISO 2936-2,5	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave T com controle de torque	FS2041	FS2041	FS2041
	Haste intercambiável	FS2047 (T15IP)		FS2047 (T15IP)
	Haste intercambiável	FS2048 (T20IP)	FS2048 (T20IP)	
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave	FS1485 (T15IP)		FS1485 (T15IP)
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Chave	FS1486 (T20IP)	FS1486 (T20IP)	
	Chave com controle de torque, analógica	FS2003		FS2003
	Chave com controle de torque, digital	FS2248		FS2248

Ferramenta para mandrilamento com dois cortadores

B5460 mm

Walter Boring XT

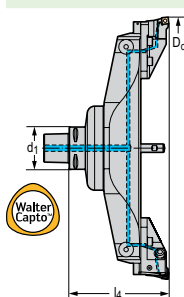
- Mandrilamento simétrico, assimétrico e com desvio axial-radial (ARS)
- Corpo básico/ponte também pode ser usado em B5120



D _c 148- 620	Z=2	κ=90°

	P	M	K	N	S	H	O
B5460	●●	●●	●●	●●	●●	●●	●●

Ferramenta



Walter Capto™ in acc. with ISO 26623

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5460-298-380-C8-SC12	298-380	C8	179	15,6	WWAL_ BE1204_2
B5460-378-460-C8-SC12	378-460	C8	184	17,3	
B5460-458-540-C8-SC12	458-540	C8	189	19,2	
B5460-538-620-C8-SC12	538-620	C8	189	21,6	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

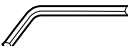
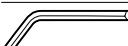
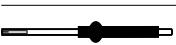
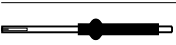
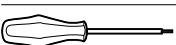
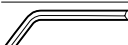
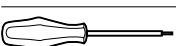
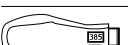
Tipo	CC .. 1204 ..	CN .. 1906 ..	WWAL_BE1204_2
Jogo de cunhas	FK398	FK398	FK398
Parafuso de fixação	FS2662 (SW 8)	FS2662 (SW 8)	FS2662 (SW 8)
Parafuso para inserto intercambiável	FS2658 (15IP) 3 Nm		FS2658 (15IP) 3 Nm
Anel trava	FS2663	FS2663	FS2663
Calço	AP197	AP198	AP199
Arruela	FS2647	FS2647	FS2647
Parafuso para líquido de refrigeração	FS2671 (SW 2.5)	FS2671 (SW 2.5)	FS2671 (SW 2.5)
Parafuso para calço	FS2660 (SW 4)	FS2661 (20IP) 6,4 Nm	FS2660 (SW 4)
Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)	FS2653 (SW 3)
Prisioneiro	FS2654	FS2654	FS2654
Mola de disco	FS2650	FS2650	FS2650
Fixação RC		FS2659	



B 2

	Corpo básico	Ponte	Corrediza	Cápsula
	B5120-298-000-C8-B	EB731	EB724	EB727.SC12
	B5120-298-000-C8-B	EB732	EB724	EB727.SC12
	B5120-298-000-C8-B	EB733	EB724	EB727.SC12
	B5120-298-000-C8-B	EB734	EB724	EB727.SC12

Acessórios

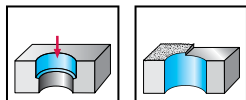
	Tipo	CC .. 1204 ..	CN .. 1906 ..	WWAL_BE1204_2
	Chave ISO 2936-2,5	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave T com controle de torque	FS2041	FS2041	FS2041
	Haste intercambiável	FS2047 (T15IP)		FS2047 (T15IP)
	Haste intercambiável	FS2048 (T20IP)	FS2048 (T20IP)	
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave	FS1485 (T15IP)		FS1485 (T15IP)
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Chave	FS1486 (T20IP)	FS1486 (T20IP)	
	Chave com controle de torque, analógica	FS2003		FS2003
	Chave com controle de torque, digital	FS2248		FS2248

Ferramenta para mandrilamento com dois cortadores

B5560 mm

Walter Boring XT

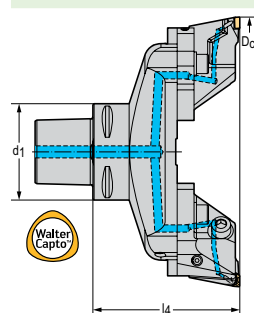
- Mandrilamento simétrico, assimétrico e com desvio axial-radial (ARS)
- Corpo básico/ponte também pode ser usado em B5120



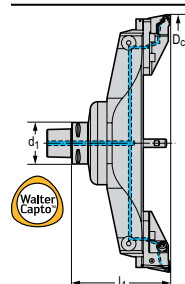
D _c 148- 620	Z=2	κ=90°

	P	M	K	N	S	H	O
B5560	●●	●●	●●	●●	●●	●●	●●

Ferramenta



Walter Capto™ in acc. with ISO 26623



Walter Capto™ in acc. with ISO 26623

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5560-148-200-C8-P400	148–200	C8	122	7	P4160-2R ..
B5560-198-250-C8-P400	198–250	C8	122	8,2	
B5560-248-300-C8-P400	248–300	C8	122	9,2	
B5560-298-380-C8-P400	298–380	C8	179	15,5	P4160-2R ..
B5560-378-460-C8-P400	378–460	C8	184	17,3	
B5560-458-540-C8-P400	458–540	C8	189	19,2	
B5560-538-620-C8-P400	538–620	C8	194	21,6	

Corpo e componentes estão incluídos no escopo de fornecimento

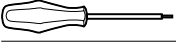
Componentes

	Tipo	P4160-2R ..
	Jogo de cunhas	FK398
	Parafuso de fixação	FS2662 (SW 8)
	Parafuso para inserto intercambiável	FS2079 (T9IP) 2 Nm
	Anel trava	FS2663
	Arruela	FS2647
	Parafuso para líquido de refrigeração	FS2671 (SW 2.5)
	Kit de ajuste	FS2653 (SW 3)
	Prisioneiro	FS2654
	Mola de disco	FS2650



Corpo básico		Ponte	Corrediça	Cápsula
	B5120-148-000-C8-B		EB723	EB728.P400
	B5120-198-000-C8-B		EB723	EB728.P400
	B5120-248-000-C8-B		EB723	EB728.P400
	B5120-298-000-C8-B	EB731	EB724	EB728.P400
	B5120-298-000-C8-B	EB732	EB724	EB728.P400
	B5120-298-000-C8-B	EB733	EB724	EB728.P400
	B5120-298-000-C8-B	EB734	EB724	EB728.P400

Acessórios

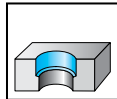
	Tipo	P4160-2R ..
	Chave ISO 2936-2,5	ISO2936-2,5 (SW 2,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)
	Chave ISO 2936-8	ISO2936-8 (SW 8)
	Chave com controle de torque, analógica	FS2003
	Chave ISO 2936-4	ISO2936-4 (SW 4)
	Chave com controle de torque, digital	FS2248
	Haste intercambiável	FS2013 (T9IP)
	Chave ISO 2936-10	ISO2936-10 (SW 10)
	Chave	FS1484 (T9IP)
	Chave ISO 2936-14	ISO2936-14 (SW 14)

Ferramenta para mandrilamento com dois cortadores

B3221 / B3220

Walter Boring ^{MEDIUM}

D_c 20-41	$\kappa=90^\circ$	$Z=2$



	P	M	K	N	S	H	O
B3221	●●	●●	●●	●	●●		
B3220	●●	●●	●●	●	●●		

Ferramenta

Denominação	D_c mm	d_1	l_4 mm	$l_{4.1}$ mm	kg	Tipo
B3221.C3.020-024.Z2.CC06	20-24	C3	80		0,2	CC .. 0602 ..
B3221.C3.023-027.Z2.CC06	23-27	C3	80		0,2	
B3221.C3.026-033.Z2.CC06	26-33	C3	80		0,2	
B3220.C3.033-041.Z2.CC06	33-41	C3	80	80,2	0,4	CC .. 0602 ..

Walter Capto™ in acc. with ISO 26623

Walter Capto™ in acc. with ISO 26623

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

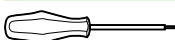
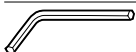
Tipo	CC .. 0602 ..
Parafuso para cápsula	FS1093 (SW 3) 4 Nm
Parafuso para inserto intercambiável	FS923 (T8) 0,8 Nm
Disco de tensão para cápsula	FS1098
Parafuso de ajuste para cápsula	FS1103 (SW 1,3)



B 2

Corpo básico		Cápsula
	B3221G.C3.020-027.Z2	EB401.CC06
	B3221G.C3.020-027.Z2	EB402.CC06
	B3221G.C3.026-035.Z2	EB403.CC06
	B3220G.C3.033-044.Z2	EB205-206.CC06

Acessórios

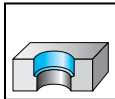
	Tipo	CC .. 0602 ..
	Chave	FS230 (T8)
	Chave ISO 2936-1,3	ISO2936-1,3 (SW 1,3)
	Chave ISO 2936-3	ISO2936-3 (SW 3)
	Cápsula de ARS	EB401-1.CC06 (ARS)

Ferramenta para mandrilamento com dois cortadores

B3221 / B3220 mm

Walter Boring MEDIUM

D_c 20-41	$\kappa=90^\circ$	$Z=2$



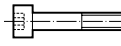
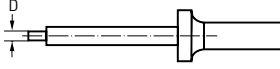
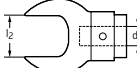
	P	M	K	N	S	H	O
B3221	●	●	●	●	●		
B3220	●	●	●	●	●		

Ferramenta

Denominação	D_c mm	d_1	l_4 mm	$l_{4,1}$ mm	kg	Tipo
B3221.T18.20-24.Z2.CC06	20-24	T18	35		0,1	CC .. 0602 ..
B3221.T18.23-27.Z2.CC06	23-27	T18	35		0,1	
B3221.T22.26-33.Z2.CC06	26-33	T22	40		0,1	
B3220.T28.33-41.Z2.CC06	33-41	T28	55	55,2	0,3	CC .. 0602 ..

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

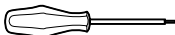
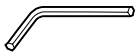
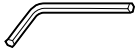
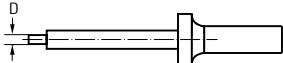
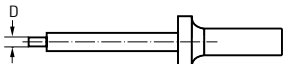
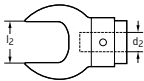
Tipo	CC .. 0602 ..
 Disco de tensão para cápsula	FS1098
 Parafuso para inserto intercambiável	FS923 (T8) 0,8 Nm
 Parafuso para cápsula	FS1093 (SW 3) 4 Nm
 Parafuso de ajuste para cápsula	FS1103 (SW 1,3)
 Torquímetro	FS1386
 Forquilha	FS1389



B 2

Corpo básico		Cápsula
	B3221G.T18.20-27.Z2	EB401.CC06
	B3221G.T18.20-27.Z2	EB402.CC06
	B3221G.T22.26-33.Z2	EB403.CC06
	B3220G.T28.33-41.Z2	EB205-206.CC06

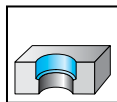
Acessórios

	Tipo	CC .. 0602 ..
	Chave	FS230 (T8)
	Chave ISO 2936-1,3	ISO2936-1,3 (SW 1,3)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)
	Cápsula de ARS	EB401-1.CC06 (ARS)
	Torquímetro	FS1385
	Torquímetro	FS1386
	Forquilha	FS1389

Ferramenta para mandrilamento com dois cortadores

B3220 mm

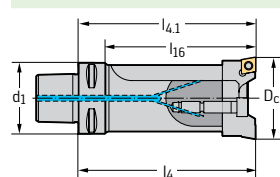
Walter Boring MEDIUM



D_c 41-153	$\kappa=90^\circ$	$Z=2$

	P	M	K	N	S	H	O
B3220	●●	●●	●●	●●	●●	●●	●●

Ferramenta



Walter Capto™ in acc. with ISO 26623

Denominação	D_c mm	d_1	l_4 mm	$l_{4.1}$ mm	kg	Tipo
B3220.C4.041-055.Z2.CC09	41-55	C4	80	80,3	0,6	CC .. 09T3 ..
B3220.C5.055-070.Z2.CC09	55-70	C5	100	100,3	1,3	
B3220.C6.070-090.Z2.CC12	70-90	C6	110	110,3	2,3	CC .. 1204 ..
B3220.C8.090-110.Z2.CC12	90-110	C8	110	110,3	3,8	
B3220.C8.110-133.Z2.CC12	110-133	C8	110	110,3	4,4	
B3220.C8.130-153.Z2.CC12	130-153	C8	110	110,3	4,4	

Walter Capto™ in acc. with ISO 26623

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

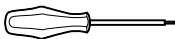
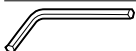
	Tipo	CC .. 09T3 ..	CC .. 1204 ..
	Disco de tensão para cápsula	FS1100	FS1101
	Parafuso para inserto intercambiável	FS359 (T15) 2,5 Nm	FS1030 (T20) 5 Nm
	Parafuso para cápsula	FS1095 (SW 4) 12 Nm	FS1096 (SW 6) 30 Nm
	Parafuso de ajuste para cápsula	FS1106 (SW 2)	FS1107 (SW 2,5)



B 2

Corpo básico		Cápsula
	B3220G.C4.041-056.Z2	EB207-208.CC09
	B3220G.C5.055-073.Z2	EB209-210.CC09
	B3220G.C6.070-093.Z2	EB211-212.CC12
	B3220G.C8.090-113.Z2	EB213-214.CC12
	B3220G.C8.110-153.Z2	EB215.CC12
	B3220G.C8.110-153.Z2	EB216.CC12

Acessórios

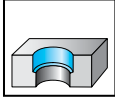
	Tipo	CC .. 09T3 ..	CC .. 1204 ..
	Chave	FS229 (T15)	FS228 (T20)
	Chave ISO 2936-2	ISO2936-2 (SW 2)	
	Chave ISO 2936-2,5		ISO2936-2,5 (SW 2,5)
	Chave ISO 2936-5	ISO2936-5 (SW 5)	
	Chave ISO 2936-6		ISO2936-6 (SW 6)
	Cápsula de ARS	EB207-208-1.CC09 (ARS)	
	Chave ISO 2936-8		ISO2936-8 (SW 8)
	Cápsula de ARS		EB211-212-1.CC12 (ARS)

Ferramenta para mandrilamento com dois cortadores

B3220 mm

Walter Boring MEDIUM

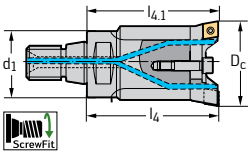
D_c 41-153	$\kappa=90^\circ$	$Z=2$



	P	M	K	N	S	H	O
B3220	●●	●●	●●	●	●●		

Ferramenta

Denominação	D_c mm	d_1	l_4 mm	$l_{4,1}$ mm	 kg	Tipo
B3220.T36.41-55.Z2.CC09	41-55	T36	65	65,3	0,5	CC .. 09T3 ..
B3220.T45.55-70.Z2.CC09	55-70	T45	80	80,3	0,9	



ScrewFit

Corpo e componentes estão incluídos no escopo de fornecimento

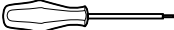
Componentes

Tipo	CC .. 09T3 ..
 Disco de tensão para cápsula	FS1100
 Parafuso para inserto intercambiável	FS359 (T15) 2,5 Nm
 Parafuso para cápsula	FS1095 (SW 4) 12 Nm
 Parafuso de ajuste para cápsula	FS1106 (SW 2)



Corpo básico		Cápsula
	B3220G.T36.41-55.Z2	EB207-208.CC09
	B3220G.T45.55-70.Z2	EB209-210.CC09

B 2

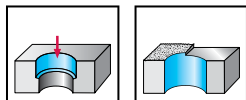
Acessórios		
	Tipo	CC .. 09T3 ..
	Chave	FS229 (T15)
	Chave ISO 2936-2	ISO2936-2 (SW 2)
	Chave ISO 2936-5	ISO2936-5 (SW 5)
	Cápsula de ARS	EB207-208-1.CC09 (ARS)

Ferramenta para mandrilamento com dois cortadores

B5460 mm

Walter Boring XT

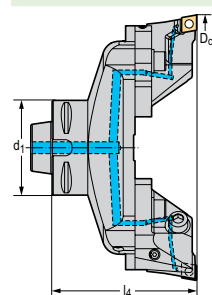
- Mandrilamento simétrico, assimétrico e com desvio axial-radial (ARS)
- Corpo básico/ponte também pode ser usado em B5120



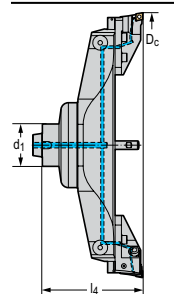
D _c 148– 620	Z=2	κ=90°

	P	M	K	N	S	H	O
B5460	●	●	●	●	●		

Ferramenta



Modular NCT adaptor



Modular NCT adaptor

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5460-148-200-N8-CC12	148–200	NCT 80	122	6,5	CC .. 1204 ..
B5460-198-250-N8-CC12	198–250	NCT 80	122	7,7	
B5460-248-300-N8-CC12	248–300	NCT 80	122	8,7	
B5460-298-380-N8-CC12	298–380	NCT 80	179	15	CC .. 1204 ..
B5460-378-460-N8-CC12	378–460	NCT 80	184	16,8	
B5460-458-540-N8-CC12	458–540	NCT 80	189	18,7	
B5460-538-620-N8-CC12	538–620	NCT 80	194	21,1	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

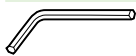
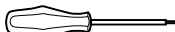
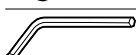
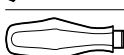
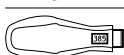
Tipo	CC .. 1204 ..	CN .. 1906 ..	WWAL_BE1204_2
Jogo de cunhas	FK398	FK398	FK398
Parafuso de fixação	FS2662 (SW 8)	FS2662 (SW 8)	FS2662 (SW 8)
Parafuso para inserto intercambiável	FS2658 (15IP) 3 Nm		FS2658 (15IP) 3 Nm
Anel trava	FS2663	FS2663	FS2663
Calço	AP197	AP198	AP199
Arruela	FS2647	FS2647	FS2647
Parafuso para líquido de refrigeração	FS2671 (SW 2.5)	FS2671 (SW 2.5)	FS2671 (SW 2.5)
Parafuso para calço	FS2660 (SW 4)	FS2661 (20IP) 6,4 Nm	FS2660 (SW 4)
Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)	FS2653 (SW 3)
Prisoneiro	FS2654	FS2654	FS2654
Mola de disco	FS2650	FS2650	FS2650
Fixação RC		FS2659	



B 2

	Corpo básico	Ponte	Corrediça	Cápsula
	B5120-148-000-N8-B		EB723	EB725.CC12
	B5120-198-000-N8-B		EB723	EB725.CC12
	B5120-248-000-N8-B		EB723	EB725.CC12
	B5120-298-000-N8-B	EB731	EB724	EB725.CC12
	B5120-298-000-N8-B	EB732	EB724	EB725.CC12
	B5120-298-000-N8-B	EB733	EB724	EB725.CC12
	B5120-298-000-N8-B	EB734	EB724	EB725.CC12

Acessórios

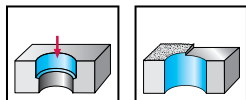
	Tipo	CC .. 1204 ..-WWAL_BE1204_2	CN .. 1906 ..
	Chave ISO 2936-2,5	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave T com controle de torque	FS2041	FS2041
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Haste intercambiável	FS2047 (T15IP)	FS2048 (T20IP)
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave	FS1485 (T15IP)	FS1486 (T20IP)
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Chave com controle de torque, analógica	FS2003	
	Chave com controle de torque, digital	FS2248	

Ferramenta para mandrilamento com dois cortadores

B5460 mm

Walter Boring XT

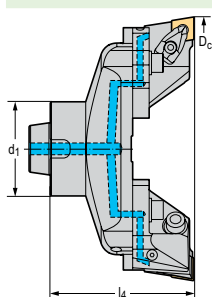
- Mandrilamento simétrico, assimétrico e com desvio axial-radial (ARS)
- Corpo básico/ponte também pode ser usado em B5120



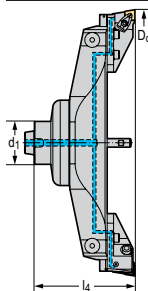
D _c 148– 620	Z=2	κ=90°

	P	M	K	N	S	H	O
B5460	●	●	●	●	●		

Ferramenta



Modular NCT adaptor



Modular NCT adaptor

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5460-148-200-N8-CN19	148–200	NCT 80	122	6,5	CN .. 1906 ..
B5460-198-250-N8-CN19	198–250	NCT 80	122	7,7	
B5460-248-300-N8-CN19	248–300	NCT 80	122	8,8	
B5460-298-380-N8-CN19	298–380	NCT 80	179	15,1	CN .. 1906 ..
B5460-378-460-N8-CN19	378–460	NCT 80	184	16,8	
B5460-458-540-N8-CN19	458–540	NCT 80	189	18,8	
B5460-538-620-N8-CN19	538–620	NCT 80	194	21,2	

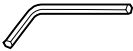
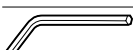
Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	Tipo	CC .. 1204 ..	CN .. 1906 ..	WWAL_BE1204_2
	Jogo de cunhas	FK398	FK398	FK398
	Parafuso de fixação	FS2662 (SW 8)	FS2662 (SW 8)	FS2662 (SW 8)
	Parafuso para inserto intercambiável	FS2658 (15IP) 3 Nm		FS2658 (15IP) 3 Nm
	Anel trava	FS2663	FS2663	FS2663
	Calço	AP197	AP198	AP199
	Arruela	FS2647	FS2647	FS2647
	Parafuso para líquido de refrigeração	FS2671 (SW 2.5)	FS2671 (SW 2.5)	FS2671 (SW 2.5)
	Parafuso para calço	FS2660 (SW 4)	FS2661 (20IP) 6,4 Nm	FS2660 (SW 4)
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)	FS2653 (SW 3)
	Prisoneiro	FS2654	FS2654	FS2654
	Mola de disco	FS2650	FS2650	FS2650
	Fixação RC		FS2659	



Corpo básico		Ponte	Corrediça	Cápsula
	B5120-148-000-N8-B		EB723	EB726.CN19
	B5120-198-000-N8-B		EB723	EB726.CN19
	B5120-248-000-N8-B		EB723	EB726.CN19
	B5120-298-000-N8-B	EB731	EB724	EB726.CN19
	B5120-298-000-N8-B	EB732	EB724	EB726.CN19
	B5120-298-000-N8-B	EB733	EB724	EB726.CN19
	B5120-298-000-N8-B	EB734	EB724	EB726.CN19

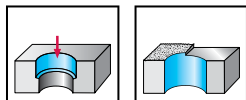
Acessórios			
	Tipo	CC .. 1204 ..-WWAL_BE1204_2	CN .. 1906 ..
	Chave ISO 2936-2,5	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave T com controle de torque	FS2041	FS2041
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Haste intercambiável	FS2047 (T15IP)	FS2048 (T20IP)
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave	FS1485 (T15IP)	FS1486 (T20IP)
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Chave com controle de torque, analógica	FS2003	
	Chave com controle de torque, digital	FS2248	

Ferramenta para mandrilamento com dois cortadores

B5460 mm

Walter Boring XT

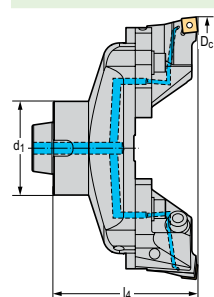
- Mandrilamento simétrico, assimétrico e com desvio axial-radial (ARS)
- Corpo básico/ponte também pode ser usado em B5120



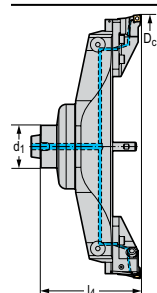
D _c 148– 620	Z=2	κ=90°

	P	M	K	N	S	H	O
B5460	●	●	●	●	●		

Ferramenta



Modular NCT adaptor



Modular NCT adaptor

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5460-148-200-N8-SC12	148–200	NCT 80	122	6,5	WWAL_ BE1204_2
B5460-198-250-N8-SC12	198–250	NCT 80	122	7,5	
B5460-248-300-N8-SC12	248–300	NCT 80	122	8,7	
B5460-298-380-N8-SC12	298–380	NCT 80	179	15	WWAL_ BE1204_2
B5460-378-460-N8-SC12	378–460	NCT 80	184	16,8	
B5460-458-540-N8-SC12	458–540	NCT 80	189	18,7	
B5460-538-620-N8-SC12	538–620	NCT 80	189	21,1	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

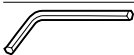
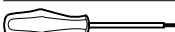
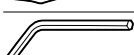
	Tipo	CC .. 1204 ..	CN .. 1906 ..	WWAL_BE1204_2
	Jogo de cunhas	FK398	FK398	FK398
	Parafuso de fixação	FS2662 (SW 8)	FS2662 (SW 8)	FS2662 (SW 8)
	Parafuso para inserto intercambiável	FS2658 (15IP) 3 Nm		FS2658 (15IP) 3 Nm
	Anel trava	FS2663	FS2663	FS2663
	Calço	AP197	AP198	AP199
	Arruela	FS2647	FS2647	FS2647
	Parafuso para líquido de refrigeração	FS2671 (SW 2.5)	FS2671 (SW 2.5)	FS2671 (SW 2.5)
	Parafuso para calço	FS2660 (SW 4)	FS2661 (20IP) 6,4 Nm	FS2660 (SW 4)
	Kit de ajuste	FS2653 (SW 3)	FS2653 (SW 3)	FS2653 (SW 3)
	Prisioneiro	FS2654	FS2654	FS2654
	Mola de disco	FS2650	FS2650	FS2650
	Fixação RC		FS2659	



B 2

	Corpo básico	Ponte	Corrediça	Cápsula
	B5120-148-000-N8-B		EB723	EB727.SC12
	B5120-198-000-N8-B		EB723	EB727.SC12
	B5120-248-000-N8-B		EB723	EB727.SC12
	B5120-298-000-N8-B	EB731	EB724	EB727.SC12
	B5120-298-000-N8-B	EB732	EB724	EB727.SC12
	B5120-298-000-N8-B	EB733	EB724	EB727.SC12
	B5120-298-000-N8-B	EB734	EB724	EB727.SC12

Acessórios

	Tipo	CC .. 1204 ..-WWAL_BE1204_2	CN .. 1906 ..
	Chave ISO 2936-2,5	ISO2936-2,5 (SW 2,5)	ISO2936-2,5 (SW 2,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)	ISO2936-3 (SW 3)
	Chave ISO 2936-8	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Chave T com controle de torque	FS2041	FS2041
	Chave ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Haste intercambiável	FS2047 (T15IP)	FS2048 (T20IP)
	Chave ISO 2936-10	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)
	Chave	FS1485 (T15IP)	FS1486 (T20IP)
	Chave ISO 2936-14	ISO2936-14 (SW 14)	ISO2936-14 (SW 14)
	Chave com controle de torque, analógica	FS2003	
	Chave com controle de torque, digital	FS2248	

Ferramenta para mandrilamento com dois cortadores

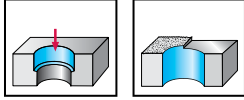
B5560

mm

Walter Boring XT

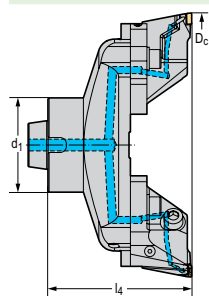
- Mandrilamento simétrico, assimétrico e com desvio axial-radial (ARS)
- Corpo básico/ponte também pode ser usado em B5120

D _c 148– 620	Z=2	κ=90°

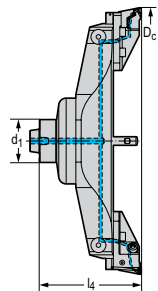


	P	M	K	N	S	H	O
B5560	●	●	●	●	●	●	●

Ferramenta



Modular NCT adaptor

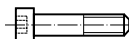


Modular NCT adaptor

Denominação	D _c mm	d ₁	l ₄ mm	kg	Tipo
B5560-148-200-N8-P400	148–200	NCT 80	122	6,5	P4160-2R ..
B5560-198-250-N8-P400	198–250	NCT 80	122	7,7	
B5560-248-300-N8-P400	248–300	NCT 80	122	8,8	
B5560-298-380-N8-P400	298–380	NCT 80	179	15	P4160-2R ..
B5560-378-460-N8-P400	378–460	NCT 80	184	16,8	
B5560-458-540-N8-P400	458–540	NCT 80	189	18,7	
B5560-538-620-N8-P400	538–620	NCT 80	194	21,1	

Corpo e componentes estão incluídos no escopo de fornecimento

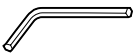
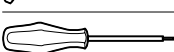
Componentes

	Tipo	P4160-2R ..
	Jogo de cunhas	FK398
	Parafuso de fixação	FS2662 (SW 8)
	Parafuso para inserto intercambiável	FS2079 (T9IP) 2 Nm
	Anel trava	FS2663
	Arruela	FS2647
	Parafuso para líquido de refrigeração	FS2671 (SW 2.5)
	Kit de ajuste	FS2653 (SW 3)
	Prisioneiro	FS2654
	Mola de disco	FS2650



Corpo básico		Ponte	Correção	Cápsula
	B5120-148-000-N8-B		EB723	EB728.P400
	B5120-198-000-N8-B		EB723	EB728.P400
	B5120-248-000-N8-B		EB723	EB728.P400
	B5120-298-000-N8-B	EB731	EB724	EB728.P400
	B5120-298-000-N8-B	EB732	EB724	EB728.P400
	B5120-298-000-N8-B	EB733	EB724	EB728.P400
	B5120-298-000-N8-B	EB734	EB724	EB728.P400

B 2

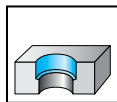
Acessórios		
	Tipo	P4160-2R ..
	Chave ISO 2936-2,5	ISO2936-2,5 (SW 2,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)
	Chave ISO 2936-8	ISO2936-8 (SW 8)
	Chave com controle de torque, analógica	FS2003
	Chave ISO 2936-4	ISO2936-4 (SW 4)
	Chave com controle de torque, digital	FS2248
	Haste intercambiável	FS2013 (T9IP)
	Chave ISO 2936-10	ISO2936-10 (SW 10)
	Chave	FS1484 (T9IP)
	Chave ISO 2936-14	ISO2936-14 (SW 14)

Ferramenta para mandrilamento com dois cortadores

B3221 / B3220 mm

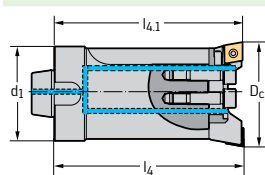
Walter Boring ^{MEDIUM}

D_c 20-41	$\kappa=90^\circ$	$Z=2$

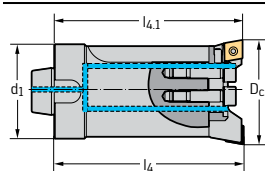


	P	M	K	N	S	H	O
B3221	●●	●●	●●	●	●●		
B3220	●●	●●	●●	●	●●		

Ferramenta



Modular NCT adaptor



Modular NCT adaptor

Denominação	D_c mm	d_1	l_4 mm	$l_{4.1}$ mm	kg	Tipo
B3221.N2.020-024.Z2.CC06	20-24	NCT 25	80		0,1	CC .. 0602 ..
B3221.N2.023-027.Z2.CC06	23-27	NCT 25	80		0,2	
B3221.N2.026-033.Z2.CC06	26-33	NCT 25	80		0,2	
B3220.N3.033-041.Z2.CC06	33-41	NCT 32	80	80,2	0,4	CC .. 0602 ..

Corpo e componentes estão incluídos no escopo de fornecimento

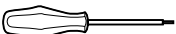
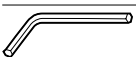
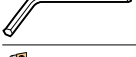
Componentes

	Tipo	CC .. 0602 ..
	Disco de tensão para cápsula	FS1098
	Parafuso para inserto intercambiável	FS923 (T8) 0,8 Nm
	Parafuso para cápsula	FS1093 (SW 3) 4 Nm
	Parafuso de ajuste para cápsula	FS1103 (SW 1,3)
	Dispositivo de arraste	FK311
	Parafuso de fixação para pino de arraste	FS502 (SW 2)



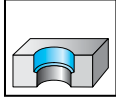
Corpo básico		Cápsula
	B3221G.N2.020-027.Z2	EB401.CC06
	B3221G.N2.020-027.Z2	EB402.CC06
	B3221G.N2.026-035.Z2	EB403.CC06
	B3220G.N3.033-044.Z2	EB205-206.CC06

B 2

Acessórios		
	Tipo	CC .. 0602 ..
	Chave	FS230 (T8)
	Chave ISO 2936-1,3	ISO2936-1,3 (SW 1,3)
	Chave ISO 2936-1,5	ISO2936-1,5 (SW 1,5)
	Chave ISO 2936-3	ISO2936-3 (SW 3)
	Chave ISO 2936-4	ISO2936-4 (SW 4)
	Cápsula de ARS	EB401-1.CC06 (ARS)

Ferramenta para mandrilamento com dois cortadores

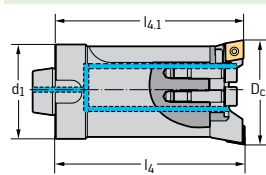
B3220 mm

Walter Boring ^{MEDIUM}


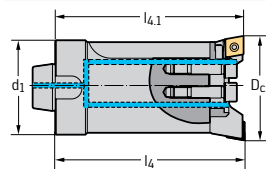
D_c 41-153	$\kappa=90^\circ$	$Z=2$

	P	M	K	N	S	H	O
B3220	●●	●●	●●	●●	●●	●●	●●

Ferramenta



Modular NCT adaptor

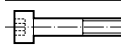


Modular NCT adaptor

Denominação	D_c mm	d_1	l_4 mm	$l_{4.1}$ mm	kg	Tipo
B3220.N4.041-055.Z2.CC09	41-55	NCT 40	80	80,3	0,6	CC .. 09T3 ..
B3220.N5.055-070.Z2.CC09	55-70	NCT 50	100	100,3	1,1	
B3220.N6.070-090.Z2.CC12	70-90	NCT 63	100	100,3	1,8	CC .. 1204 ..
B3220.N8.090-110.Z2.CC12	90-110	NCT 80	100	100,3	2,9	
B3220.N8.110-133.Z2.CC12	110-133	NCT 80	100	100,3	3,4	
B3220.N8.130-153.Z2.CC12	130-153	NCT 80	100	100,3	3,6	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

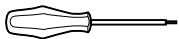
Tipo	CC .. 09T3 ..	CC .. 1204 ..
 Disco de tensão para cápsula	FS1100	FS1101
 Parafuso para inserto intercambiável	FS359 (T15) 2,5 Nm	FS1030 (T20) 5 Nm
 Parafuso para cápsula	FS1095 (SW 4) 12 Nm	FS1096 (SW 6) 30 Nm
 Parafuso de ajuste para cápsula	FS1106 (SW 2)	FS1107 (SW 2,5)
 Dispositivo de arraste	FK313	
 Parafuso de fixação para pino de arraste	FS504 (SW 2,5)	



B 2

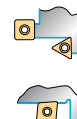
Corpo básico		Cápsula
	B3220G.N4.041-056.Z2	EB207-208.CC09
	B3220G.N5.055-073.Z2	EB209-210.CC09
	B3220G.N6.070-093.Z2	EB211-212.CC12
	B3220G.N8.090-113.Z2	EB213-214.CC12
	B3220G.N8.110-153.Z2	EB215.CC12
	B3220G.N8.110-153.Z2	EB216.CC12

Acessórios

	Tipo	CC .. 09T3 ..	CC .. 1204 ..
	Chave	FS229 (T15)	FS228 (T20)
	Chave ISO 2936-2	ISO2936-2 (SW 2)	
	Chave ISO 2936-2,5		ISO2936-2,5 (SW 2,5)
	Chave ISO 2936-5	ISO2936-5 (SW 5)	
	Chave ISO 2936-6		ISO2936-6 (SW 6)
	Cápsula de ARS	EB207-208-1.CC09 (ARS)	
	Chave ISO 2936-8		ISO2936-8 (SW 8)
	Cápsula de ARS		EB211-212-1.CC12 (ARS)

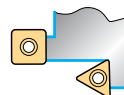
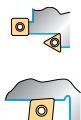
Suporte de fixação curto ISO

Usinagem



Ângulo de ataque	45°	45°	75°	75°	90°
					
Descrição	PSSN...CA	SSSC-09...CA	PSKN...CA	SSKC-09...CA	PCFN...CA
Tipos de insertos intercambiáveis					
Tamanho do inserto l [mm]	12	9	9-15	9	12
Sistema de fixação	Alavanca articulada	Parafuso	Alavanca articulada	Parafuso	Alavanca articulada
Precisão de ajuste [mm]					
D _{c min} [mm]	50	40	40 / 50 / 60 / 70	40	50
Página do catálogo	B 587	B 591	B 586	B 590	B 584
QR Code					
	www.walter-tools.com/woc/PSSN-CA	www.walter-tools.com/woc/SSSC-09-CA	www.walter-tools.com/woc/PSKN-CA	www.walter-tools.com/woc/SSKC-09-CA	www.walter-tools.com/woc/PCFN-CA

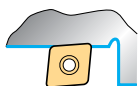
Usinagem



Ângulo de ataque	90°	90°	90°	90°	90°
					
Descrição	PTFC...CA	PTFN...CA	SCFC...CA	STFC...CA	SWFC...CA
Tipos de insertos intercambiáveis					
Tamanho do inserto l [mm]	16	16	9-12	9-11	6
Sistema de fixação	Alavanca articulada	Alavanca articulada	Parafuso	Parafuso	Parafuso
Precisão de ajuste [mm]					
D _{c min} [mm]	50	50	40 / 50	25 / 40	40
Página do catálogo	B 592	B 588	B 589	B 592	B 594
QR Code					
	www.walter-tools.com/woc/PTFC-CA	www.walter-tools.com/woc/PTFN-CA	www.walter-tools.com/woc/SCFC-CA	www.walter-tools.com/woc/STFC-CA	www.walter-tools.com/woc/SWFC-CA

Suporte de fixação curto ISO

Usinagem



Ângulo de ataque

95°

95°

105°



Descrição

PCLN...CA

SCLC...CA

SSRC-12...CA

Tipos de insertos intercambiáveis



Tamanho do inserto l [mm]

12-16

9-12

9

Sistema de fixação

Alavanca articulada

Parafuso

Parafuso

Precisão de ajuste [mm]

D_{c min} [mm]

50 / 60 / 70

40 / 50

40

Página do catálogo

B 585

B 589

B 590

QR Code


www.walter-tools.com/woc/

PCLN-CA

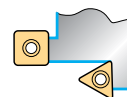
SCLC-CA

SSRC-12-CA

B 2

Mini-suporte de fixação curto Walter

Usinagem



Ângulo de ataque	15°	30°	45°	45°	60°



Descrição

FR701

FR675

FR/FL 673

FR699

FR674

Tipos de insertos intercambiáveis



Tamanho do inserto l [mm]

11

11

11

Sistema de fixação

Parafuso

Parafuso

Parafuso

Parafuso

Parafuso

Precisão de ajuste [mm]

D _{c min} [mm]	20	20	20	20 / 25	20

Página do catálogo

B 599

B 596

B 596

B 599

B 596

QR Code



www.walter-tools.com/woc/

FR701

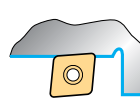
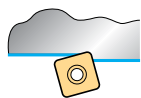
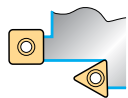
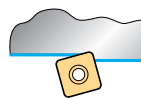
FR675

FR-FL-673

FR699

FR674

Usinagem



Ângulo de ataque	60°	75°	75°	90°	90°



Descrição

FR698

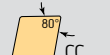
FR/FL 707

FR697

FR/FL 671

FR/FL 672

Tipos de insertos intercambiáveis



Tamanho do inserto l [mm]

11

6

11

Sistema de fixação

Parafuso

Parafuso

Parafuso

Parafuso

Parafuso

Precisão de ajuste [mm]

D _{c min} [mm]	20	20	20	14,5 / 20	20

Página do catálogo

B 599

B 596

B 599

B 595

B 596

QR Code



www.walter-tools.com/woc/

FR698

FR-FL-707

FR697

FR-FL-671

FR-FL-672

Mini-suporte de fixação curto Walter

Usinagem

Ângulo de ataque



Descrição	FR680
Tipos de insertos intercambiáveis	
Tamanho do inserto l [mm]	4
Sistema de fixação	Parafuso
Precisão de ajuste [mm]	
D _{c min} [mm]	20
Página do catálogo	B 595

QR Code

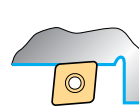
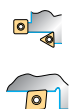
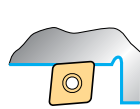
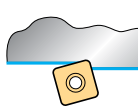
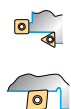


www.walter-tools.com/woc/	FR680

B 2

Suporte de fixação curto para mandrilamento de precisão Walter

Usinagem



Ângulo de ataque

90°

90°

90°

90°

95°



Descrição

FR/FL 709

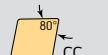
FR/FL 710

FR760

FR761

FR/FL 711

Tipos de insertos intercambiáveis



Tamanho do inserto l [mm]

11

6

11

6

4

Sistema de fixação

Parafuso

Parafuso

Parafuso

Parafuso

Parafuso

Precisão de ajuste [mm]

0,01

0,01

0,002

0,002

0,01

D_{c min} [mm]

36

28

28

28

28

Página do catálogo

B 601

B 601

B 602

B 602

B 601

QR Code



www.walter-tools.com/woc/

FR-FL-709

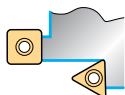
FR-FL-710

FR760

FR761

FR-FL-711

Usinagem



Ângulo de ataque

95°

95°



Descrição

FR/FL 717

FR763

Tipos de insertos intercambiáveis



Tamanho do inserto l [mm]

6

6

Sistema de fixação

Parafuso

Parafuso

Precisão de ajuste [mm]

0,01

0,002

D_{c min} [mm]

28

28

Página do catálogo

B 601

B 602

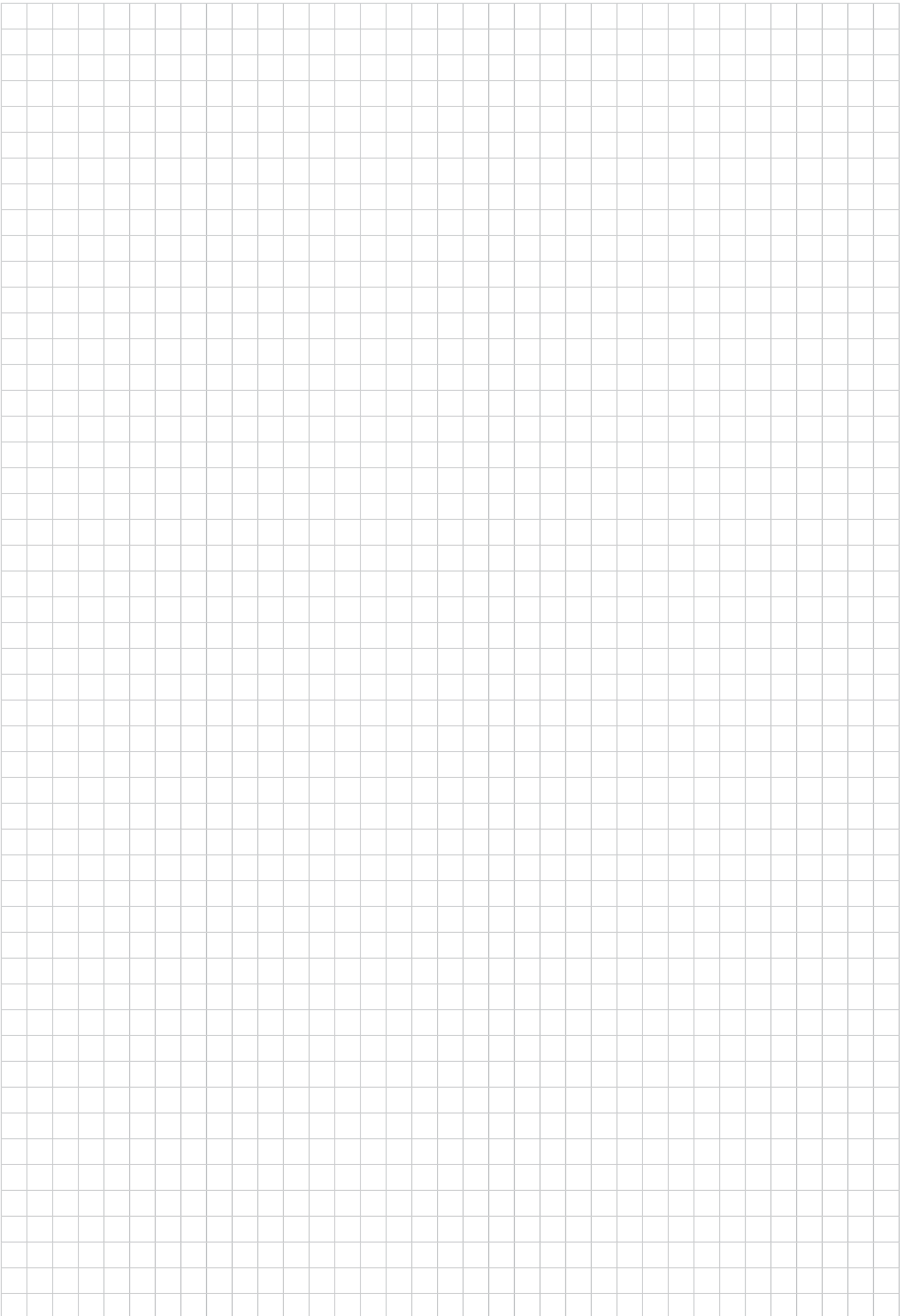
QR Code



www.walter-tools.com/woc/

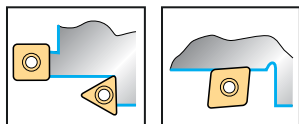
FR-FL-717

FR763



B 2

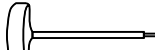
Cápsula curta ISO PCFN...CA



Ferramenta													
Denominação	h_1 mm	b mm	D_{cmin} mm	d_8 mm	l_{13} mm	f mm	h mm	l_1 mm	l_5 mm	t mm	Tipo		
PCFNR12CA-12	12	13,3	50	7	20	20	20	47	32	6	CN .. 1204 ..		

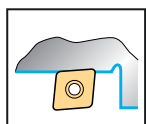
Corpo e componentes estão incluídos no escopo de fornecimento

Componentes			Tipo h_1 [mm]	CN .. 1204 .. 12
	Alavanca	KN109		
	Parafuso para inserto intercambiável Torque de aperto	FS332 (SW 2,5) 2,5 Nm		
	Parafuso de regulação axial	FS335		
	Parafuso de regulação radial	FS334 (SW 2)		
	Parafuso de fixação	FS977 (T30)		

Acessórios			Tipo h_1 [mm]	CN .. 1204 .. 12
	Chave ISO 2936	ISO2936-2,5 (SW 2,5)		
	Chave em T	FS1175 (T30)		

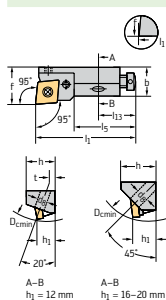
Cápsula curta ISO

PCLN...CA



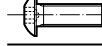
Ferramenta

Denominação	h_1 mm	b mm	D_{cmin} mm	d_8 mm	l_{13} mm	f mm	h mm	l_1 mm	l_5 mm	t mm	Tipo
PCLNL12CA-12	12	16	50	7	20	20	20	55	28	6	CN .. 1204 ..
PCLNL16CA-12	16	20	60	9	25	25	25	63	35	0	
PCLNL20CA-16	20	20	70	9	30	25	30	70	40	0	CN .. 1606 ..
PCLNR12CA-12	12	16	50	7	20	20	20	55	28	6	CN .. 1204 ..
PCLNR16CA-12	16	20	60	9	25	25	25	63	35	0	
PCLNR20CA-16	20	20	70	9	30	25	30	70	40	0	CN .. 1606 ..

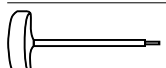


Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

Componentes	Tipo h_1 [mm]	CN .. 1204 .. 12	CN .. 1204 .. 16	CN .. 1606 .. 20
	Calço		AP134-CN1216	AP135-CN1624
	Alavanca	KN109	KN121	KN104
	Parafuso para inserto intercambiável Torque de aperto	FS332 (SW 2,5) 2,5 Nm	FS2129 (SW 3) 5 Nm	FS354 (SW 3) 5 Nm
	Rebite elástico		RS102	RS103
	Pino de montagem		MD101	MD102
	Parafuso de regulagem axial	FS335	FS338	FS339
	Parafuso de regulagem radial	FS334 (SW 2)	FS337 (SW 2,5)	FS337 (SW 2,5)
	Parafuso de fixação	FS977 (T30)	FS975 (T40)	FS975 (T40)

Acessórios

Acessórios	Tipo h_1 [mm]	CN .. 1204 .. 12	CN .. 1204 ..-CN .. 1606 .. 16-20
	Chave ISO 2936	ISO2936-2,5 (SW 2,5)	ISO2936-3 (SW 3)
	Chave em T	FS1175 (T30)	FS1176 (T40)

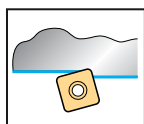
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

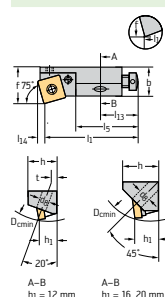
Cápsula curta ISO

PSKN...CA



B2

Ferramenta



Denominação

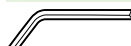
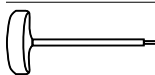
	h ₁ mm	l ₁₄ mm	b mm	D _{cmin} mm	d _g mm	l ₁₃ mm	f mm	h mm	l ₁ mm	l ₅ mm	t mm	Tipo
PSKNL12CA-12	12	3,1	16	50	7	20	20	20	55	32	6	SN .. 1204 ..
PSKNL16CA-12	16	3,1	20	60	9	25	25	25	63	37	0	
PSKNR10CA-09	10	2,2	10	40	7	20	14	15	44	17	5	SN .. 0903 ..
PSKNR12CA-12	12	3,1	16	50	7	20	20	20	55	32	6	SN .. 1204 ..
PSKNR16CA-12	16	3,1	20	60	9	25	25	25	63	37	0	SN .. 1506 ..
PSKNR20CA-15	20	3,8	20	70	9	30	25	30	70	40	0	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	Tipo h ₁ [mm]	SN .. 0903 .. 10	SN .. 1204 .. 12	SN .. 1204 .. 16	SN .. 1506 .. 20
	Calço			AP141-SN1216	AP142-SN1524
	Alavanca	KN126	KN109	KN121	KN104
	Parafuso para inserto intercambiável Torque de aperto	FS2182 (SW 2) 2 Nm	FS332 (SW 2,5) 2,5 Nm	FS2129 (SW 3) 5 Nm	FS354 (SW 3) 5 Nm
	Rebite elástico			RS102	RS103
	Pino de montagem			MD101	MD102
	Parafuso de regulação axial	FS335	FS335	FS338	FS339
	Parafuso de regulação radial	FS333 (SW 2)	FS333 (SW 2)	FS337 (SW 2,5)	FS337 (SW 2,5)
	Parafuso de fixação	FS976 (T30)	FS977 (T30)	FS975 (T40)	FS975 (T40)

Acessórios

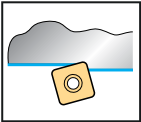
	Tipo h ₁ [mm]	SN .. 0903 .. 10	SN .. 1204 .. 12	SN .. 1204 ..-SN .. 1506 .. 16-20
	Chave ISO 2936	ISO2936-2 (SW 2)	ISO2936-2,5 (SW 2,5)	ISO2936-3 (SW 3)
	Chave em T	FS1175 (T30)	FS1175 (T30)	FS1176 (T40)

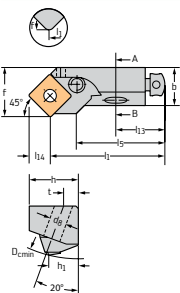
WALTER
SELECT

Ferramenta ideal para condições de usinagem

● ● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

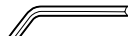
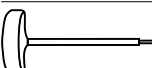
Cápsula curta ISO
PSSN...CA



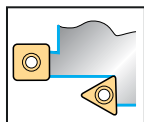
Ferramenta		h ₁ mm	l ₁₄ mm	b mm	D _{Cmin} mm	d ₈ mm	l ₁₃ mm	f mm	h mm	l ₁ mm	l ₅ mm	t mm	Tipo
	PSSNR12CA-12	12	8,3	15,5	50	7	20	20	20	38	30	6	SN .. 1204 ..

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes		Tipo h ₁ [mm]	SN .. 1204 .. 12
	Alavanca		KN109
	Parafuso para inserto intercambiável Torque de aperto		FS332 (SW 2,5) 2,5 Nm
	Parafuso de regulagem axial		FS335
	Parafuso de regulagem radial		FS333 (SW 2)
	Parafuso de fixação		FS977 (T30)

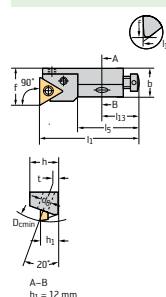
Acessórios		Tipo h ₁ [mm]	SN .. 1204 .. 12
	Chave ISO 2936		ISO2936-2,5 (SW 2,5)
	Chave em T		FS1175 (T30)

Cápsula curta ISO PTFN...CA



B2

Ferramenta



Denominação

h₁
mm

b
mm

D_{cmin}
mm

d₈
mm

l₁₃
mm

f
mm

h
mm

l₁
mm

l₅
mm

t
mm

Tipo

PTFNL12CA-16

12

16

50

7

20

20

20

55

32,5

6

TN .. 1604 ..

PTFNR12CA-16

12

15

50

7

20

20

20

55

32,5

6

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

Tipo
h₁ [mm]

TN .. 1604 ..
12


Alavanca

KN108


Parafuso para inserto intercambiável
Torque de aperto

FS331 (SW 2)
2 Nm


Parafuso de regulagem axial

FS335



Parafuso de regulagem radial

FS333 (SW 2)



Parafuso de fixação

FS977 (T30)

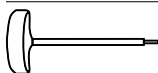
Acessórios

Tipo
h₁ [mm]

TN .. 1604 ..
12


Chave ISO 2936

ISO2936-2 (SW 2)



Chave em T

FS1175 (T30)

WALTER
SELECT

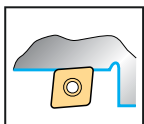
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

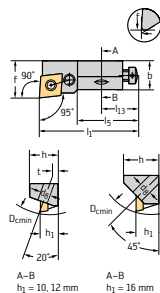
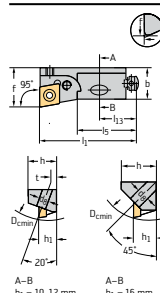
→ boas = 😊 → medianas = 😐 → ruins = 😞

Cápsula curta ISO

SCLC...CA / SCFC...CA

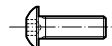


Ferramenta

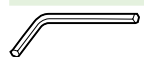
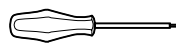
	Denominação	h_1 mm	b mm	D_{cmin} mm	d_8 mm	l_{13} mm	f mm	h mm	l_1 mm	l_5 mm	t mm	Tipo
	SCLCL10CA-09	10	11	40	7	20	14	15	50	33	5	CC .. 09T3 ..
	SCLCR10CA-09	10	11	40	7	20	14	15	50	33	5	
	SCLCR12CA-12	12	16	50	7	20	20	20	55	32	6	CC .. 1204 ..
	SCFCL10CA-09	10	11	40	7	20	14	15	50	33	5	CC .. 09T3 ..
	SCFCL12CA-12	12	16	50	7	20	20	20	55	32	6	CC .. 1204 ..
	SCFCR10CA-09	10	11	40	7	20	14	15	50	33	5	CC .. 09T3 ..
	SCFCR12CA-12	12	16	50	7	20	20	20	55	32	6	CC .. 1204 ..

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	Tipo h_1 [mm]	CC .. 09T3 .. 10	CC .. 1204 .. 12
	Parafuso para inserto intercambiável Torque de aperto	FS359 (T15) 2,5 Nm	FS1029 (T20) 5 Nm
	Parafuso de regulagem axial	FS335	FS335
	Parafuso de regulagem radial	FS369 (SW 2)	FS334 (SW 2)
	Parafuso de fixação	FS976 (T30)	FS976 (T30)

Acessórios

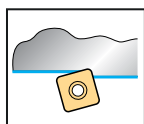
	Tipo h_1 [mm]	CC .. 09T3 .. 10	CC .. 1204 .. 12
	Chave ISO 2936	ISO2936-2 (SW 2)	ISO2936-2 (SW 2)
	Chave	FS229 (T15)	FS228 (T20)

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

Dispositivo de fixação curto ISO SSRC-12...CA / SSKC-09...CA



B2

Ferramenta

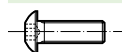
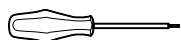
Denominação	h_1 mm	l_{14} mm	b mm	D_{cmin} mm	d_8 mm	l_{13} mm	f mm	h mm	l_1 mm	l_5 mm	t mm	Tipo
SSRCR10CA-09	10		11	40	7	20	14	15	50	33	5	SC .. 09T3 ..
SSKCR10CA-09	10	2,2	11	40	7	20	14	15	50	33	5	SC .. 09T3 ..

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

Componentes	Tipo h_1 [mm]	SC .. 09T3 .. 10
	Parafuso para inserto intercambiável Torque de aperto	FS359 (T15) 2,5 Nm
	Parafuso de regulagem radial	FS369 (SW 2)
	Parafuso de regulagem axial	FS335

Acessórios

Acessórios	Tipo h_1 [mm]	SC .. 09T3 .. 10
	Parafuso ISO7380	FS976 (T30)
	Chave	FS229 (T15)

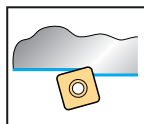
WALTER
SELECT

Ferramenta ideal para condições de usinagem

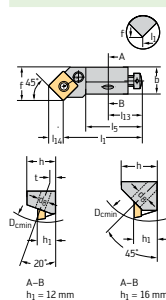
● ● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

Cápsula curta ISO

SSSC-09...CA



Ferramenta



Denominação

SSSCR10CA-09

h₁
mm

10

l₁₄
mm

6,1

b
mm

11

D_{Cmin}
mm

40

d₈
mm

7

l₁₃
mm

20

f
mm

14

h
mm

15

l₁
mm

44

l₅
mm

33

t
mm

5

Tipo

SC .. 09T3 ..

B 2

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

Tipo
h₁ [mm]SC .. 09T3 ..
10

Parafuso de regulação radial

FS369 (SW 2)

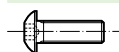


Parafuso de regulação axial

FS335

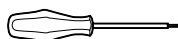
Parafuso para inserto intercambiável
Torque de apertoFS359 (T15)
2,5 Nm

Acessórios

Tipo
h₁ [mm]SC .. 09T3 ..
10

Parafuso ISO7380

FS976 (T30)



Chave

FS229 (T15)

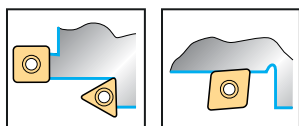
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

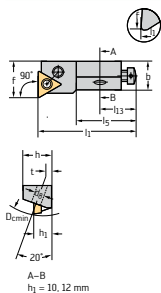
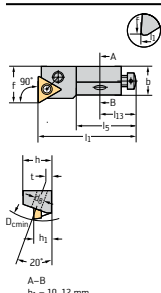
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

Cápsula curta ISO PTFC...CA / STFC...CA



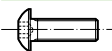
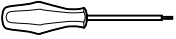
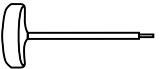
Ferramenta

	Denominação	h ₁ mm	b mm	D _{cmin} mm	d ₈ mm	l ₁₃ mm	f mm	h mm	l ₁ mm	l ₅ mm	t mm	Tipo
	PTFCL12CA-16	12	16	50	7	20	20	20	55	34	6	TC .. 16T3 ..
	PTFCR12CA-16	12	16	50	7	20	20	20	55	34	6	
	STFCR08CA-09	8	6,6	25	4,5	17	10	9,4	32	22	4,5	TC .. 0902 ..
	STFCR10CA-11	10	11	40	7	20	14	15	50	33	5	TC .. 1102 ..

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	Tipo h ₁ [mm]	TC .. 0902 .. 8	TC .. 1102 .. 10	TC .. 16T3 .. 12
	Alavanca			KN115
	Parafuso para inserto intercambiável Torque de aperto	FS2149 (T7IP) 0,9 Nm	FS375 (T7) 0,8 Nm	
	Parafuso para inserto intercambiável			FS346 (SW 2)
	Parafuso de regulagem axial	FS1023		
	Parafuso de regulagem radial	FS493 (SW 1,5)	FS369 (SW 2)	FS333 (SW 2)
	Parafuso de regulagem axial		FS335	FS335
	Parafuso de fixação	FS2106 (T15IP)	FS976 (T30)	

Acessórios	Tipo h ₁ [mm]	TC .. 0902 .. 8	TC .. 1102 .. 10	TC .. 16T3 .. 12
	Parafuso ISO7380			FS977 (T30)
	Chave	FS2088 (T7IP)	FS309 (T7)	
	Chave em T	FS1485 (T15IP)	FS1175 (T30)	
	Chave ISO 2938			ISO2936-2 (SW 2)

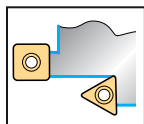
B 2

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 🤔 → ruins = 🤢

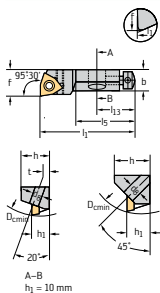
Cápsula curta ISO SWFC...CA



B2

Ferramenta

Denominação	h_1 mm	b mm	D_{cmin} mm	d_8 mm	l_{13} mm	f mm	h mm	l_1 mm	l_5 mm	t mm	Tipo
SWFCR10CA-06	10	11	40	7	20	14	15	50	33	5	WC .. 06T3 ..

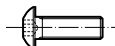
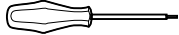


Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

Tipo	h_1 [mm]	WC .. 06T3 .. 10
	Parafuso para inserto intercambiável Torque de aperto	FS359 (T15) 2,5 Nm
	Parafuso de regulação radial	FS369 (SW 2)
	Parafuso de regulação axial	FS335

Acessórios

Tipo	h_1 [mm]	WC .. 06T3 .. 10
	Parafuso ISO7380	FS976 (T30)
	Chave	FS229 (T15)

WALTER
SELECT

Ferramenta ideal para condições de usinagem

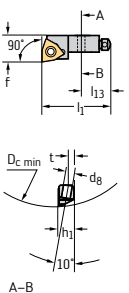
● ● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Porta-ferramentas curto mini

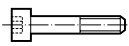
FR680 / FR/FL 671

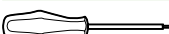


B 2

Ferramenta		h ₁ mm	b mm	D _{c min} mm	d ₈ mm	l ₁₃ mm	f mm	h mm	l ₁ mm	l ₅ mm	t mm	Tipo
	FR680		20	9,7	3,4	6	25		10,5	15,5	2,3	WC .. 0402 ..
	FL671		20	9,7	3,4	6	25		10,5		2,3	WC .. 06T3 ..
	FR670		14,5	8	3,4	6	25		10,5		2,3	CP .. 0502 ..
	FR671		20	9,7	3,4	6	25		10,5		2,3	WC .. 06T3 ..

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes		Tipo h ₁ [mm]	CP .. 0502 .. 6	WC .. 0402 ..–WC .. 06T3 .. 6
	Parafuso para inserto intercambiável Torque de aperto		FS1020 (T7) 0,6 Nm	FS924 (T8) 0,8 Nm
	Parafuso de regulagem radial		FS493 (SW 1,5)	FS493 (SW 1,5)
	Parafuso de regulagem axial		FS1023	FS1023
	Parafuso de fixação		FS1024 (SW 2)	FS1024 (SW 2)

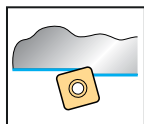
Acessórios		Tipo h ₁ [mm]	CP .. 0502 .. 6	WC .. 0402 ..–WC .. 06T3 .. 6
	Chave		FS309 (T7)	FS230 (T8)

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

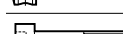
Porta-ferramentas curto mini FR675 / FR/FL 673 / FR674



B2

Ferramenta										
Denominação	l_{14} mm	D_{cmin} mm	f mm	d_8 mm	h_1 mm	l_1 mm	l_{13} mm	t mm	Tipo	
FR675	5,2	20	10,8	4,5	8	28	12	3,2	TC .. 1102 ..	
FL673	7,4	20	10,8	4,5	8	28	12	3,2	TC .. 1102 ..	
FR673	7,4	20	10,8	4,5	8	28	12	3,2		
FR674	9,1	20	11	4,5	8	28	12	3,2	TC .. 1102 ..	

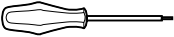
Corpo e componentes estão incluídos no escopo de fornecimento

Componentes		Tipo h_1 [mm]	TC .. 1102 .. 8
	Parafuso para inserto intercambiável Torque de aperto		FS375 (T7) 0,8 Nm
	Parafuso de regulagem radial		FS494 (SW 1,5)
	Parafuso de regulagem axial		FS1023
	Parafuso de fixação		FS2106 (T15IP)

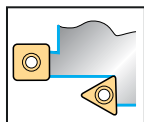
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = 😞

Acessórios		TC .. 1102 .. 8
	Chave	FS309 (T7)

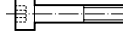
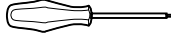
Porta-ferramentas curto mini FR/FL 707 / FR/FL 672



B2

Ferramenta										
Denominação	l_{14} mm	D_{cmin} mm	f mm	d_8 mm	h_1 mm	l_1 mm	l_{13} mm	t mm	Tipo	
FR707	10,1	20	11	4,5	8	28	12	3,2	TC .. 1102 ..	
FL672		20	11	4,5	8	28	12	3,2	TC .. 1102 ..	
FR672		20	11	4,5	8	28	12	3,2		

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes		Tipo h_1 [mm]	TC .. 1102 .. 8
	Parafuso para inserto intercambiável Torque de aperto		FS375 (T7) 0,8 Nm
	Parafuso de regulação radial		FS494 (SW 1,5)
	Parafuso de regulação axial		FS1023
	Parafuso de fixação		FS2106 (T15IP)
Acessórios		Tipo h_1 [mm]	TC .. 1102 .. 8
	Chave		FS309 (T7)

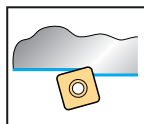
WALTER
SELECT

Ferramenta ideal para condições de usinagem

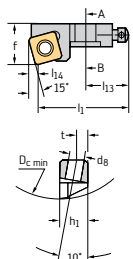
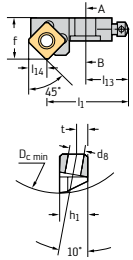
● ● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

Porta-ferramentas curto mini

FR701 / FR699



Ferramenta

	Denominação	l ₁₄ mm	D _{c min} mm	f mm	d ₈ mm	h ₁ mm	l ₁ mm	l ₁₃ mm	t mm	Tipo
	FR701	1,4	20	9,7	3,4	6	25	10,5	2,3	P284 . S-1N- ..
	FL704	4,6	25	11,5	4,5	8	28	12	3,2	P284 . S-2N- ..
	FR699	3,7	20	9,7	3,4	6	25	10,5	2,3	P284 . S-1N- ..

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	Tipo h ₁ [mm]	P284 . S-1N- .. 6	P284 . S-2N- .. 8
	Parafuso para inserto intercambiável Torque de aperto	FS924 (T8) 0,8 Nm	FS1005 (T8) 1,5 Nm
	Parafuso de regulagem radial	FS493 (SW 1,5)	FS494 (SW 1,5)
	Parafuso de regulagem axial	FS1023	FS1023
	Parafuso de fixação	FS1024 (SW 2)	FS2106 (T15IP)

Acessórios

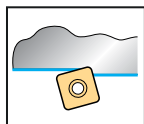
	Tipo h ₁ [mm]	P284 . S-1N- ..-P284 . S-2N- .. 6-8
	Chave	FS230 (T8)

**WALTER
SELECT**

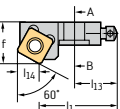
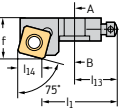
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

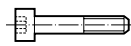
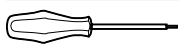
Porta-ferramentas curto mini FR698 / FR697



B2

Ferramenta										
	Denominação	l_{14} mm	D_{cmin} mm	f mm	d_8 mm	h_1 mm	l_1 mm	l_{13} mm	t mm	Tipo
	FR698	4,8	20	9,7	3,4	6	25	10,5	2,3	P284 . S-1N- ..
	A-B									
	FR697	5,5	20	9,7	3,4	6	25	10,5	2,3	P284 . S-1N- ..
	A-B									

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes		Tipo h_1 [mm]	P284 . S-1N- .. 6
	Parafuso para inserto intercambiável Torque de aperto		FS924 (T8) 0,8 Nm
	Parafuso de regulação radial		FS493 (SW 1,5)
	Parafuso de regulação axial		FS1023
	Parafuso de fixação		FS1024 (SW 2)
Acessórios		Tipo h_1 [mm]	P284 . S-1N- .. 6
	Chave		FS230 (T8)

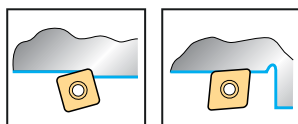
WALTER
SELECT

Ferramenta ideal para condições de usinagem

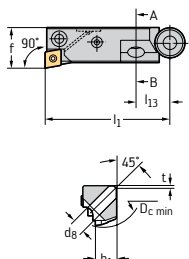
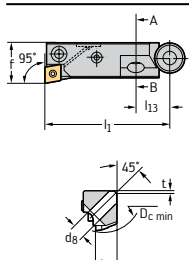
● ● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

Cápsulas para mandrilamento de precisão

FR/FL 710 / FR/FL 717



Ferramenta

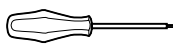
	Denominação	D _{Cmin} mm	f mm	d _g mm	h ₁ mm	l ₁ mm	l ₁₃ mm	t mm	Tipo
	FL710	28	16	4,5	8,5	49,5	9,3	1	CC .. 0602 ..
	FR710	28	16	4,5	8,5	49,5	9,3	1	
	FL717	28	16	4,5	8,5	49,5	9,3	1	CC .. 0602 ..
	FR717	28	16	4,5	8,5	49,5	9,3	1	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	Tipo h ₁ [mm]	CC .. 0602 .. 8,5
	Parafuso para inserto intercambiável Torque de aperto	FS1129 (T8) 0,8 Nm
	Parafuso de regulação axial	FS1355 (SW 3)
	Parafuso de regulação radial	FS1356 (T8)
	Parafuso de fixação	FS1354 (SW 4)
	Peça de pressão	FK369

Acessórios

	Tipo h ₁ [mm]	CC .. 0602 .. 8,5
	Chave	FS230 (T8)

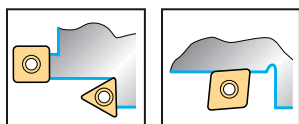
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

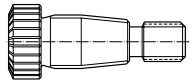
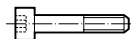
Cápsulas para mandrilamento de precisão

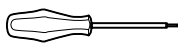
FR761 / FR763



Ferramenta									
Denominação	D_{cmin} mm	f mm	d_8 mm	h_1 mm	l_1 mm	l_{13} mm	t mm	Tipo	
FR761	28	16	5,5	8,5	49,5	13,5	1	CC .. 0602 ..	
FR763	28	16	5,5	8,5	49,5	13,5	1	CC .. 0602 ..	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes		Tipo h_1 [mm]	CC .. 0602 .. 8,5
	Parafuso para inserto intercambiável Torque de aperto		FS1129 (T8) 0,8 Nm
	Parafuso de regulagem radial		FS2565 (T8)
	Parafuso de regulagem axial		FS1355 (SW 3)
	Parafuso de fixação		FS1354 (SW 4)
	Peça de pressão		FK369

Acessórios		Tipo h_1 [mm]	CC .. 0602 .. 8,5
	Chave		FS230 (T8)

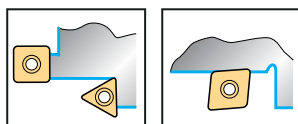
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

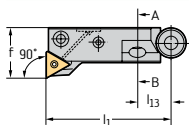
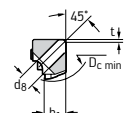
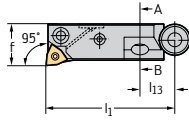
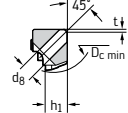
●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

Cápsulas para mandrilamento de precisão

FR/FL 709 / FR/FL 711



Ferramenta

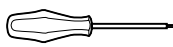
	Denominação	D _{Cmin} mm	f mm	d _g mm	h ₁ mm	l ₁ mm	l ₁₃ mm	t mm	Tipo
  A-B	FL709	36	20	4,5	8,5	49,5	9,3	1	TC .. 1102 ..
	FR709	36	20	4,5	8,5	49,5	9,3	1	
  A-B	FL711	28	16	4,5	8,5	49,5	9,3	1	WC .. 0402 ..
	FR711	28	16	4,5	8,5	49,5	9,3	1	

Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

	Tipo h ₁ [mm]	TC .. 1102 ..-WC .. 0402 .. 8,5
	Parafuso para inserto intercambiável Torque de aperto	FS1129 (T8) 0,8 Nm
	Parafuso de regulação axial	FS1355 (SW 3)
	Parafuso de regulação radial	FS1356 (T8)
	Parafuso de fixação	FS1354 (SW 4)
	Peça de pressão	FK369

Acessórios

	Tipo h ₁ [mm]	TC .. 1102 ..-WC .. 0402 .. 8,5
	Chave	FS230 (T8)

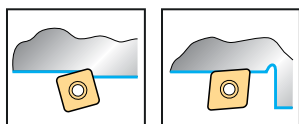
WALTER
SELECT

Ferramenta ideal para condições de usinagem

 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

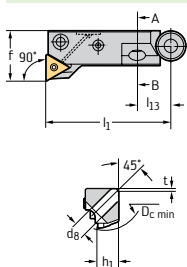
Cápsulas para mandrilamento de precisão

FR760



Ferramenta

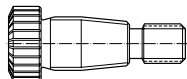
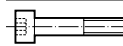
Denominação	D_{cmin} mm	f mm	d_8 mm	h_1 mm	l_1 mm	l_{13} mm	t mm	Tipo
FR760	28	20	5,5	8,5	49,5	13,5	1	TC .. 1102 ..



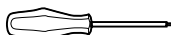
A-B

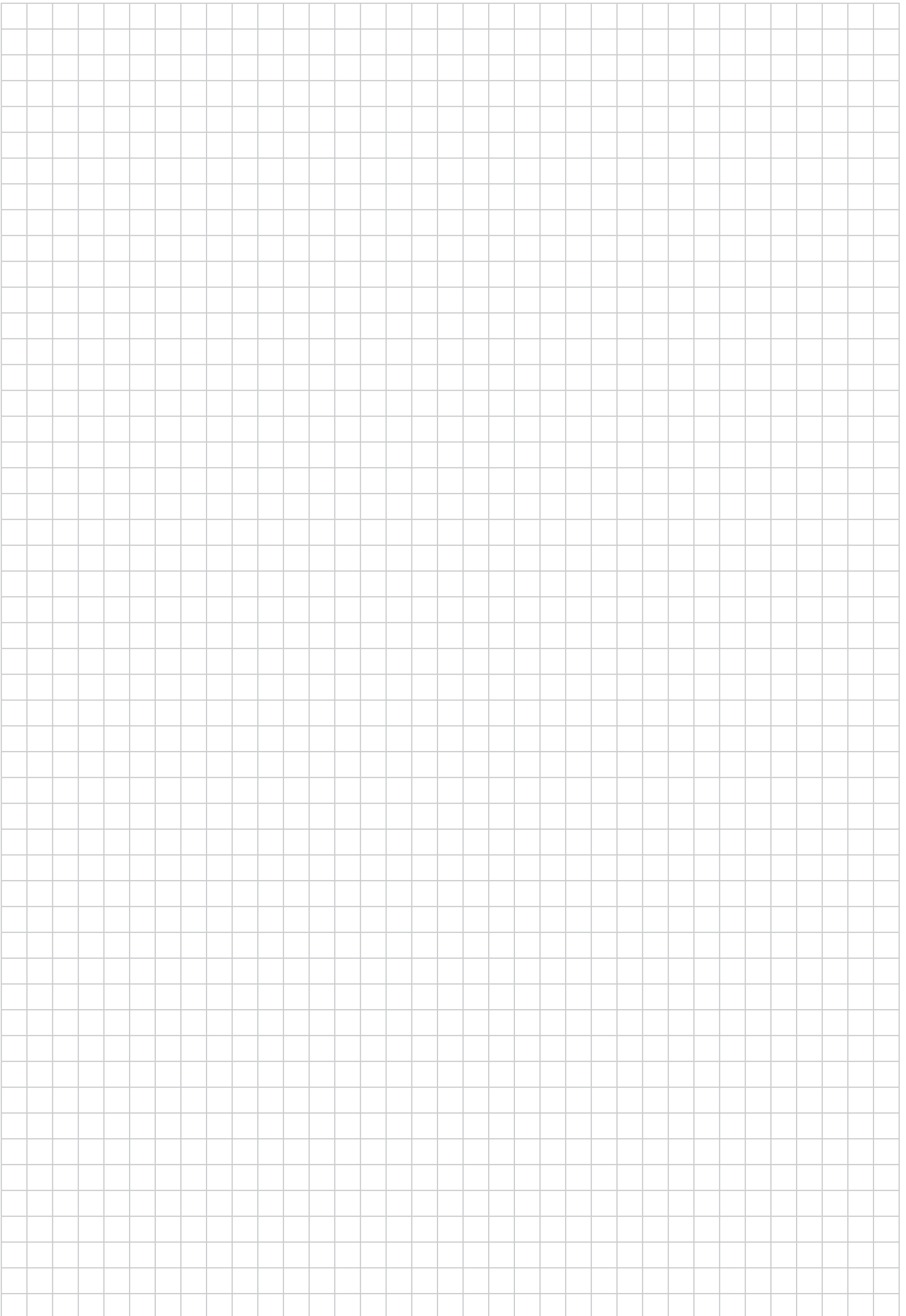
Corpo e componentes estão incluídos no escopo de fornecimento

Componentes

Tipo	h_1 [mm]	TC .. 1102 .. 8,5
	Parafuso para inserto intercambiável Torque de aperto	FS1129 (T8) 0,8 Nm
	Parafuso de regulagem radial	FS2565 (T8)
	Parafuso de regulagem axial	FS1355 (SW 3)
	Parafuso de fixação	FS1354 (SW 4)
	Peça de pressão	FK369

Acessórios

Tipo	h_1 [mm]	TC .. 1102 .. 8,5
	Chave	FS230 (T8)



B 2

Escareador HSS

B2



Profundidade de furação



Descrição	E6819TIN	Z3711TIN	E6819	E7819	E6818

Outros serviços

Norma	DIN 335	DIN 335	DIN 335	DIN 335	DIN 334
Revestimento / classe	TIN		não revestido	não revestido	não revestido
Haste	Haste cilíndrica		Haste cilíndrica	Cone Morse	Haste cilíndrica
Faixa de Ø [mm]	1,5–4,2	–	1,3–4,2	3,2–22	1,6–6,3
P Aço	●●		●●	●●	●●
M Aço inoxidável	●●		●●	●●	●●
K Ferro fundido	●●		●●	●●	●●
N Metais não ferrosos	●●		●●	●●	●●
S Materiais de usinagem difícil	●		●	●	●
H Materiais endurecidos					
O Outros	●●		●●	●●	●●

Página do catálogo	B 608	B 609	B 608	B 610	B 611

QR Code


www.walter-tools.com/woc/

	E6819TIN	Z3711TIN	E6819	E7819	E6818

WALTER SELECT

●● Aplicação principal ● Aplicação secundária

Escareador HSS



Profundidade de furação



Descrição

E7818

Outros serviços

Norma

DIN 334

Revestimento / classe

não revestido

Haste

Cone Morse

Faixa de Ø [mm]

4–25

P Aço

● ●

M Aço inoxidável

● ●

K Ferro fundido

● ●

N Metais não ferrosos

● ●

S Materiais de usinagem difícil

●

H Materiais endurecidos**O** Outros

● ●

Página do catálogo

B 613

QR Code


www.walter-tools.com/woc/

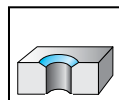
E7818

Escareadores de HSS a 90°

E6819TIN / E6819

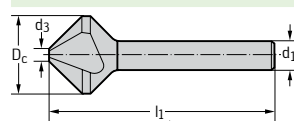


– E6819TIN disponíveis também em estojos



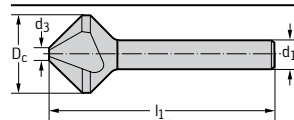
	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●		●●
não revestido	●●	●●	●●	●●	●		●●

Ferramenta



Cylindrical shank

Denominação	D _c mm	d ₃ mm	l ₁ mm	d ₁ mm
E6819TIN-6	6	1,5	45	5
E6819TIN-6.3	6,3	1,5	45	5
E6819TIN-7	7	1,8	50	6
E6819TIN-8	8	2	50	6
E6819TIN-8.3	8,3	2	50	6
E6819TIN-10	10	2,5	50	6
E6819TIN-10.4	10,4	2,5	50	6
E6819TIN-11.5	11,5	2,8	56	8
E6819TIN-12.4	12,4	2,8	56	8
E6819TIN-15	15	3,2	60	10
E6819TIN-16.5	16,5	3,2	60	10
E6819TIN-19	19	3,5	63	10
E6819TIN-20.5	20,5	3,5	63	10
E6819TIN-23	23	3,8	67	10
E6819TIN-25	25	3,8	67	10
E6819TIN-31	31	4,2	71	12
E6819-4.3	4,3	1,3	40	4
E6819-5	5	1,5	40	4
E6819-5.3	5,3	1,5	40	4
E6819-5.8	5,8	1,5	45	5
E6819-6	6	1,5	45	5
E6819-6.3	6,3	1,5	45	5
E6819-7	7	1,8	50	6
E6819-7.3	7,3	1,8	50	6
E6819-8	8	2	50	6
E6819-8.3	8,3	2	50	6
E6819-9.4	9,4	2,2	50	6
E6819-10	10	2,5	50	6
E6819-10.4	10,4	2,5	50	6
E6819-11.5	11,5	2,8	56	8
E6819-12.4	12,4	2,8	56	8
E6819-13.4	13,4	2,9	56	8
E6819-15	15	3,2	60	10
E6819-16.5	16,5	3,2	60	10
E6819-19	19	3,5	63	10
E6819-20.5	20,5	3,5	63	10
E6819-23	23	3,8	67	10
E6819-25	25	3,8	67	10
E6819-30	30	4,2	71	12
E6819-31	31	4,2	71	12

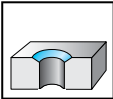


Cylindrical shank

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem → boas = 😊 → medianas = 😐 → ruins = ☹️

Chanfrador 90° HSS jogo E6819TIN
Z3711TIN



DIN
335



Ferramenta					TIN
	Denominação	D _{cmin} mm	D _{cmax} mm	Quantidade	
	Z3711TIN-6.3-20.5	1,5	20,5	6	

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = 😞

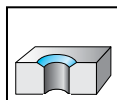
☹ ☹ ☹ / ★ = novo no programa

Brocas calibradoras e escareadores de HSS B 609

B 2

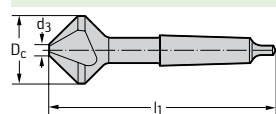
Escareadores de HSS a 90°

E7819


DIN
335


	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●		●●

Ferramenta



Morse taper

Denominação	D _c mm	d ₃ mm	l ₁ mm
E7819-15	15	3,2	85
E7819-16.5	16,5	3,2	85
E7819-19	19	3,5	100
E7819-20.5	20,5	3,5	100
E7819-23	23	3,8	106
E7819-25	25	3,8	106
E7819-26	26	3,8	106
E7819-28	28	4	112
E7819-30	30	4,2	112
E7819-31	31	4,2	112
E7819-34	34	4,5	118
E7819-37	37	4,8	118
E7819-40	40	10	140
E7819-50	50	14	150
E7819-63	63	16	180
E7819-80	80	22	190

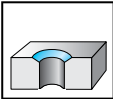
WALTER
SELECT

Ferramenta ideal para condições de usinagem

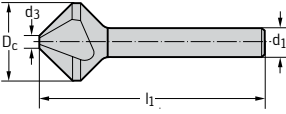
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

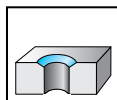
Escareadores de HSS a 60°
E6818



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●		●●

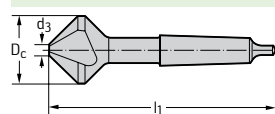
Ferramenta		D _c mm	d ₃ mm	l ₁ mm	d ₁ mm
 Cylindrical shank	Denominação				
	E6818-6.3	6,3	1,6	45	5
	E6818-8	8	2	50	6
	E6818-12.5	12,5	3,2	56	8
	E6818-16	16	4	63	10
	E6818-20	20	5	67	10
	E6818-25	25	6,3	71	10

Escareadores de HSS a 60° E7818


DIN
334


	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●		●●

Ferramenta



Morse taper

Denominação

D_c
mm

d₃
mm

l₁
mm

d₁
mm

E7818-16

16

4

90

E7818-20

20

5

106

E7818-25

25

6,3

112

E7818-31.5

31,5

10

118

E7818-40

40

12,5

150

E7818-50

50

16

160

E7818-63

63

20

190

E7818-80

80

25

200

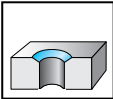
WALTER
SELECT

Ferramenta ideal para condições de usinagem

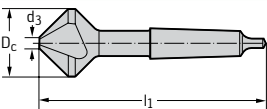
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

Escareadores de HSS a 60°
E7818



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●		●●

Ferramenta		D _c mm	d ₃ mm	l ₁ mm	d ₁ mm
 Morse taper	Denominação				
	E7818-16	16	4	90	
	E7818-20	20	5	106	
	E7818-25	25	6,3	112	
	E7818-31.5	31,5	10	118	
	E7818-40	40	12,5	150	
	E7818-50	50	16	160	
	E7818-63	63	20	190	
	E7818-80	80	25	200	

Alargadores de metal duro e de HSS

			
Norma	Walter	Walter	Walter



Descrição	F2481TMS	F2481	F2482TMS	F2482	F2171
Classe	CARBIDE SÓLIDO	CARBIDE SÓLIDO	CARBIDE SÓLIDO	CARBIDE SÓLIDO	CARBIDE SÓLIDO
Revestimento / classe	TMS	não revestido	TMS	não revestido	não revestido
Ângulo de hélice	Left-hand	Left-hand	reto	reto	Left-hand
Haste	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA	DIN 6535 HA
Faixa de Ø [mm]	3,97–20	3,97–20	3,97–20	3,97–20	2–20
P Aço	●●	●	●●	●	●●
M Aço inoxidável					●●
K Ferro fundido	●●	●	●●	●	●●
N Metais não ferrosos		●●		●●	●●
S Materiais de usinagem difícil					●●
H Materiais endurecidos					●
O Outros		●●		●●	●●
Página do catálogo	B 620	B 620	B 617	B 617	B 623
QR Code					
www.walter-tools.com/woc/	F2481TMS	F2481	F2482TMS	F2482	F2171

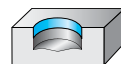
Alargadores de metal duro e de HSS

					 
Norma	Walter	DIN 212	DIN 212	DIN 212	DIN 2179

					
Descrição	F2162	F1342	F1352	F1352HUN	F3234
Classe	CARBIDE SÓLIDO	HSS	HSS	HSS	HSS
Revestimento / classe	não revestido	não revestido	não revestido	não revestido	não revestido
Ângulo de hélice	reto	reto	Left-hand	Left-hand	Left-hand
Haste	DIN 6335 HA	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica	Haste cilíndrica
Faixa de Ø [mm]	4–20	1–20	0,9–20	0,95–12	1–12
P Aço	●●	●●	●●	●●	●●
M Aço inoxidável	●●	●●	●●	●●	●●
K Ferro fundido	●●	●●	●●	●●	●●
N Metais não ferrosos	●●	●●	●●	●●	●●
S Materiais de usinagem difícil	●●	●●	●●	●●	●●
H Materiais endurecidos	●	●●	●●	●●	●●
O Outros	●●	●●	●●	●●	●●
Página do catálogo	B 624	B 651	B 625	B 625	B 654
QR Code					
www.walter-tools.com/woc/	F2162	F1342	F1352	F1352HUN	F3234

B 3

Alargadores de metal duro e de HSS



Norma

DIN 206

DIN 859



Descrição

F1131

F1231

Classe

HSS

HSS

Revestimento / classe

não revestido

não revestido

Ângulo de hélice

Left-hand

Left-hand

Haste

Haste cilíndrica

Haste cilíndrica

Faixa de Ø [mm]

1-32

8-30

P Aço

● ●

● ●

M Aço inoxidável

● ●

● ●

K Ferro fundido

● ●

● ●

N Metais não ferrosos

● ●

● ●

S Materiais de usinagem difícil

● ●

● ●

H Materiais endurecidos

● ●

● ●

O Outros

● ●

● ●

Página do catálogo

B 656

B 655

QR Code

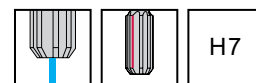

www.walter-tools.com/woc/

F1131

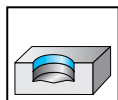
F1231

Alargadores HSC de metal duro

F2482TMS / F2482



– Tolerância para a medida 1/100: +0,004 mm



	P	M	K	N	S	H	O
TMS	●●		●●	●●			
não revestido	●		●	●●			●●

Ferramenta		D _c mm	L _c mm	l ₁ mm	l ₃ mm	l ₅ mm	d ₁ h6 mm	d ₃ mm	Z EA
	Denominação								
	F2482TMS-3.97	3,97	12	75	34	36	6	3,5	4
	F2482TMS-3.98	3,98	12	75	34	36	6	3,5	4
DIN 6535 HA	F2482TMS-3.99	3,99	12	75	34	36	6	3,5	4
	F2482TMS-4	4	12	75	34	36	6	3,5	4
	F2482TMS-4.01	4,01	12	75	34	36	6	3,5	4
	F2482TMS-4.02	4,02	12	75	34	36	6	3,5	4
	F2482TMS-4.03	4,03	12	75	34	36	6	3,5	4
	F2482TMS-4.5	4,5	12	75	34	36	6	4	4
	F2482TMS-4.97	4,97	12	75	35	36	6	4,4	4
	F2482TMS-4.98	4,98	12	75	35	36	6	4,4	4
	F2482TMS-4.99	4,99	12	75	35	36	6	4,4	4
	F2482TMS-5	5	12	75	35	36	6	4,4	4
	F2482TMS-5.01	5,01	12	75	35	36	6	4,4	4
	F2482TMS-5.02	5,02	12	75	35	36	6	4,4	4
	F2482TMS-5.03	5,03	12	75	35	36	6	4,4	4
	F2482TMS-5.5	5,5	12	75	35	36	6	4,9	4
	F2482TMS-5.97	5,97	12	75	35	36	6	5,3	4
	F2482TMS-5.98	5,98	12	75	35	36	6	5,3	4
	F2482TMS-5.99	5,99	12	75	35	36	6	5,3	4
	F2482TMS-6	6	12	75	35	36	6	5,3	4
	F2482TMS-6.01	6,01	12	75	35	36	6	5,3	4
	F2482TMS-6.02	6,02	12	75	35	36	6	5,3	4
	F2482TMS-6.03	6,03	12	75	35	36	6	5,3	4
	F2482TMS-6.5	6,5	16	100	59	36	8	5,7	6
	F2482TMS-7	7	16	100	59	36	8	6,2	6
	F2482TMS-7.5	7,5	16	100	60	36	8	6,7	6
	F2482TMS-7.97	7,97	16	100	60	36	8	7,2	6
	F2482TMS-7.98	7,98	16	100	60	36	8	7,2	6
	F2482TMS-7.99	7,99	16	100	60	36	8	7,2	6
	F2482TMS-8	8	16	100	60	36	8	7,2	6
	F2482TMS-8.01	8,01	16	100	60	36	8	7,2	6
	F2482TMS-8.02	8,02	16	100	60	36	8	7,2	6
	F2482TMS-8.03	8,03	16	100	60	36	8	7,2	6
	F2482TMS-8.5	8,5	20	100	55	40	10	7,7	6
	F2482TMS-9	9	20	100	55	40	10	8,2	6
	F2482TMS-9.5	9,5	20	120	76	40	10	8,7	6

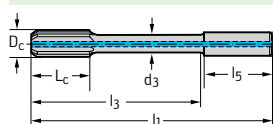
Exemplo de pedido para a classe TMS: F2482TMS-10

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹

Ferramenta

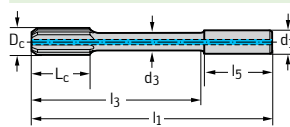


DIN 6535 HA

Denominação	D _c mm	L _c mm	l ₁ mm	l ₃ mm	l ₅ mm	d ₁ h6 mm	d ₃ mm	Z EA
F2482TMS-9.97	9,97	20	120	76	40	10	9	6
F2482TMS-9.98	9,98	20	120	76	40	10	9	6
F2482TMS-9.99	9,99	20	120	76	40	10	9	6
F2482TMS-10	10	20	120	76	40	10	9	6
F2482TMS-10.01	10,01	20	120	76	40	10	9	6
F2482TMS-10.02	10,02	20	120	76	40	10	9	6
F2482TMS-10.03	10,03	20	120	76	40	10	9	6
F2482TMS-10.5	10,5	20	120	70	45	12	9,5	6
F2482TMS-11	11	20	120	70	45	12	10	6
F2482TMS-11.5	11,5	20	120	71	45	12	10,5	6
F2482TMS-11.97	11,97	20	120	71	45	12	11	6
F2482TMS-11.98	11,98	20	120	71	45	12	11	6
F2482TMS-11.99	11,99	20	120	71	45	12	11	6
F2482TMS-12	12	20	120	71	45	12	11	6
F2482TMS-12.01	12,01	20	120	71	45	12	11	6
F2482TMS-12.02	12,02	20	120	71	45	12	11	6
F2482TMS-12.03	12,03	20	120	71	45	12	11	6
F2482TMS-13	13	22	130	80	45	14	11,5	6
F2482TMS-14	14	22	130	80	45	14	12,5	6
F2482TMS-15	15	22	130	77	48	16	13,5	6
F2482TMS-16	16	25	150	97	48	16	14,2	6
F2482TMS-17	17	25	150	97	48	18	15,2	6
F2482TMS-18	18	25	150	97	48	18	16,2	6
F2482TMS-19	19	25	150	95	50	20	17,2	6
F2482TMS-20	20	25	150	95	50	20	18,2	6
F2482-3.97	3,97	12	75	34	36	6	3,5	4
F2482-3.98	3,98	12	75	34	36	6	3,5	4
F2482-3.99	3,99	12	75	34	36	6	3,5	4
F2482-4	4	12	75	34	36	6	3,5	4
F2482-4.01	4,01	12	75	34	36	6	3,5	4
F2482-4.02	4,02	12	75	34	36	6	3,5	4
F2482-4.03	4,03	12	75	34	36	6	3,5	4
F2482-4.5	4,5	12	75	34	36	6	4	4
F2482-4.97	4,97	12	75	35	36	6	4,4	4
F2482-4.98	4,98	12	75	35	36	6	4,4	4
F2482-4.99	4,99	12	75	35	36	6	4,4	4
F2482-5	5	12	75	35	36	6	4,4	4
F2482-5.01	5,01	12	75	35	36	6	4,4	4
F2482-5.02	5,02	12	75	35	36	6	4,4	4
F2482-5.03	5,03	12	75	35	36	6	4,4	4
F2482-5.5	5,5	12	75	35	36	6	4,9	4
F2482-5.97	5,97	12	75	35	36	6	5,3	4
F2482-5.98	5,98	12	75	35	36	6	5,3	4
F2482-5.99	5,99	12	75	35	36	6	5,3	4
F2482-6	6	12	75	35	36	6	5,3	4
F2482-6.01	6,01	12	75	35	36	6	5,3	4

Exemplo de pedido para a classe TMS: F2482TMS-10

Ferramenta



DIN 6535 HA

Denominação	D _c mm	L _c mm	l ₁ mm	l ₃ mm	l ₅ mm	d ₁ h6 mm	d ₃ mm	Z EA
F2482-6.02	6,02	12	75	35	36	6	5,3	4
F2482-6.03	6,03	12	75	35	36	6	5,3	4
F2482-6.5	6,5	16	100	59	36	8	5,7	6
F2482-7	7	16	100	59	36	8	6,2	6
F2482-7.5	7,5	16	100	60	36	8	6,7	6
F2482-7.97	7,97	16	100	60	36	8	7,2	6
F2482-7.98	7,98	16	100	60	36	8	7,2	6
F2482-7.99	7,99	16	100	60	36	8	7,2	6
F2482-8	8	16	100	60	36	8	7,2	6
F2482-8.01	8,01	16	100	60	36	8	7,2	6
F2482-8.02	8,02	16	100	60	36	8	7,2	6
F2482-8.03	8,03	16	100	60	36	8	7,2	6
F2482-8.5	8,5	20	100	55	40	10	7,7	6
F2482-9	9	20	100	55	40	10	8,2	6
F2482-9.5	9,5	20	120	76	40	10	8,7	6
F2482-9.97	9,97	20	120	76	40	10	9	6
F2482-9.98	9,98	20	120	76	40	10	9	6
F2482-9.99	9,99	20	120	76	40	10	9	6
F2482-10	10	20	120	76	40	10	9	6
F2482-10.01	10,01	20	120	76	40	10	9	6
F2482-10.02	10,02	20	120	76	40	10	9	6
F2482-10.03	10,03	20	120	76	40	10	9	6
F2482-10.5	10,5	20	120	70	45	12	9,5	6
F2482-11	11	20	120	70	45	12	10	6
F2482-11.5	11,5	20	120	71	45	12	10,5	6
F2482-11.97	11,97	20	120	71	45	12	11	6
F2482-11.98	11,98	20	120	71	45	12	11	6
F2482-11.99	11,99	20	120	71	45	12	11	6
F2482-12	12	20	120	71	45	12	11	6
F2482-12.01	12,01	20	120	71	45	12	11	6
F2482-12.02	12,02	20	120	71	45	12	11	6
F2482-12.03	12,03	20	120	71	45	12	11	6
F2482-13	13	22	130	80	45	14	11,5	6
F2482-14	14	22	130	80	45	14	12,5	6
F2482-15	15	22	130	77	48	16	13,5	6
F2482-16	16	25	150	97	48	16	14,2	6
F2482-17	17	25	150	97	48	18	15,2	8
F2482-18	18	25	150	97	48	18	16,2	8
F2482-19	19	25	150	95	50	20	17,2	8
F2482-20	20	25	150	95	50	20	18,2	8

Exemplo de pedido para a classe TMS: F2482TMS-10

B3

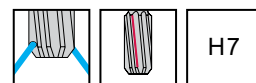
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

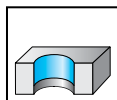
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Alargadores HSC de metal duro F2481TMS / F2481

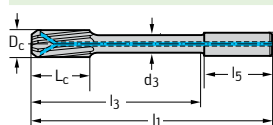


– Tolerância para a medida 1/100: +0,004 mm



	P	M	K	N	S	H	O
TMS	●●		●●				
não revestido	●		●	●●			●●

Ferramenta



DIN 6535 HA

Denominação	D _c mm	L _c mm	l ₁ mm	l ₃ mm	l ₅ mm	d ₁ h6 mm	d ₃ mm	Z EA
F2481TMS-3.97	3,97	12	75	34	36	6	3,4	4
F2481TMS-3.98	3,98	12	75	34	36	6	3,4	4
F2481TMS-3.99	3,99	12	75	34	36	6	3,4	4
F2481TMS-4	4	12	75	34	36	6	3,4	4
F2481TMS-4.01	4,01	12	75	34	36	6	3,4	4
F2481TMS-4.02	4,02	12	75	34	36	6	3,4	4
F2481TMS-4.03	4,03	12	75	34	36	6	3,4	4
F2481TMS-4.5	4,5	12	75	34	36	6	3,4	4
F2481TMS-4.97	4,97	12	75	35	36	6	3,8	4
F2481TMS-4.98	4,98	12	75	35	36	6	3,8	4
F2481TMS-4.99	4,99	12	75	35	36	6	3,8	4
F2481TMS-5	5	12	75	35	36	6	3,8	4
F2481TMS-5.01	5,01	12	75	35	36	6	3,8	4
F2481TMS-5.02	5,02	12	75	35	36	6	3,8	4
F2481TMS-5.03	5,03	12	75	35	36	6	3,8	4
F2481TMS-5.5	5,5	12	75	35	36	6	4,2	4
F2481TMS-5.97	5,97	12	75	35	36	6	4,5	4
F2481TMS-5.98	5,98	12	75	35	36	6	4,5	4
F2481TMS-5.99	5,99	12	75	35	36	6	4,5	4
F2481TMS-6	6	12	75	35	36	6	4,5	4
F2481TMS-6.01	6,01	12	75	35	36	6	4,5	4
F2481TMS-6.02	6,02	12	75	35	36	6	4,5	4
F2481TMS-6.03	6,03	12	75	35	36	6	4,5	4
F2481TMS-6.5	6,5	16	100	59	36	8	4,8	6
F2481TMS-7	7	16	100	59	36	8	5	6
F2481TMS-7.5	7,5	16	100	60	36	8	5,5	6
F2481TMS-7.97	7,97	16	100	60	36	8	6	6
F2481TMS-7.98	7,98	16	100	60	36	8	6	6
F2481TMS-7.99	7,99	16	100	60	36	8	6	6
F2481TMS-8	8	16	100	60	36	8	6	6
F2481TMS-8.01	8,01	16	100	60	36	8	6	6
F2481TMS-8.02	8,02	16	100	60	36	8	6	6
F2481TMS-8.03	8,03	16	100	60	36	8	6	6
F2481TMS-8.5	8,5	20	100	55	40	10	6,5	6
F2481TMS-9	9	20	100	55	40	10	7	6
F2481TMS-9.5	9,5	20	120	76	40	10	7,5	6

Exemplo de pedido para a classe TMS: F2481TMS-10

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

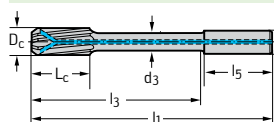
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞

Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	l ₃ mm	l ₅ mm	d ₁ h6 mm	d ₃ mm	Z EA
	DIN 6535 HA	F2481TMS-9.97	9,97	20	120	76	40	10	7,5	6
		F2481TMS-9.98	9,98	20	120	76	40	10	7,5	6
		F2481TMS-9.99	9,99	20	120	76	40	10	7,5	6
		F2481TMS-10	10	20	120	76	40	10	7,5	6
		F2481TMS-10.01	10,01	20	120	76	40	10	7,5	6
		F2481TMS-10.02	10,02	20	120	76	40	10	7,5	6
		F2481TMS-10.03	10,03	20	120	76	40	10	7,5	6
		F2481TMS-10.5	10,5	20	120	70	45	12	8	6
		F2481TMS-11	11	20	120	70	45	12	8,5	6
		F2481TMS-11.5	11,5	20	120	71	45	12	8,5	6
		F2481TMS-11.97	11,97	20	120	71	45	12	9	6
		F2481TMS-11.98	11,98	20	120	71	45	12	9	6
		F2481TMS-11.99	11,99	20	120	71	45	12	9	6
		F2481TMS-12	12	20	120	71	45	12	9	6
		F2481TMS-12.01	12,01	20	120	71	45	12	9	6
		F2481TMS-12.02	12,02	20	120	71	45	12	9	6
		F2481TMS-12.03	12,03	20	120	71	45	12	9	6
		F2481TMS-13	13	22	130	80	45	14	10	6
		F2481TMS-14	14	22	130	80	45	14	10,5	6
		F2481TMS-15	15	22	130	77	48	16	11,5	6
		F2481TMS-16	16	25	150	97	48	16	12	6
		F2481TMS-17	17	25	150	97	48	18	13	8
		F2481TMS-18	18	25	150	97	48	18	13,5	8
		F2481TMS-19	19	25	150	95	50	20	14	8
		F2481TMS-20	20	25	150	95	50	20	14,5	8
		F2481-3.97	3,97	12	75	34	36	6	3,4	4
		F2481-3.98	3,98	12	75	34	36	6	3,4	4
		F2481-3.99	3,99	12	75	34	36	6	3,4	4
		F2481-4	4	12	75	34	36	6	3,4	4
		F2481-4.01	4,01	12	75	34	36	6	3,4	4
		F2481-4.02	4,02	12	75	34	36	6	3,4	4
		F2481-4.03	4,03	12	75	34	36	6	3,4	4
		F2481-4.5	4,5	12	75	34	36	6	3,4	4
		F2481-4.97	4,97	12	75	35	36	6	3,8	4
		F2481-4.98	4,98	12	75	35	36	6	3,8	4
		F2481-4.99	4,99	12	75	35	36	6	3,8	4
		F2481-5	5	12	75	35	36	6	3,8	4
		F2481-5.01	5,01	12	75	35	36	6	3,8	4
		F2481-5.02	5,02	12	75	35	36	6	3,8	4
		F2481-5.03	5,03	12	75	35	36	6	3,8	4
		F2481-5.5	5,5	12	75	35	36	6	4,2	4
		F2481-5.97	5,97	12	75	35	36	6	4,5	4
		F2481-5.98	5,98	12	75	35	36	6	4,5	4
		F2481-5.99	5,99	12	75	35	36	6	4,5	4
		F2481-6	6	12	75	35	36	6	4,5	4
		F2481-6.01	6,01	12	75	35	36	6	4,5	4

Exemplo de pedido para a classe TMS: F2481TMS-10

Ferramenta



DIN 6535 HA

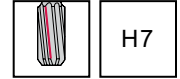
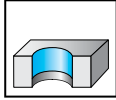
Denominação	D _c mm	L _c mm	l ₁ mm	l ₃ mm	l ₅ mm	d ₁ h6 mm	d ₃ mm	Z EA
F2481-6.02	6,02	12	75	35	36	6	4,5	4
F2481-6.03	6,03	12	75	35	36	6	4,5	4
F2481-6.5	6,5	16	100	59	36	8	4,8	6
F2481-7	7	16	100	59	36	8	5	6
F2481-7.5	7,5	16	100	60	36	8	5,5	6
F2481-7.97	7,97	16	100	60	36	8	6	6
F2481-7.98	7,98	16	100	60	36	8	6	6
F2481-7.99	7,99	16	100	60	36	8	6	6
F2481-8	8	16	100	60	36	8	6	6
F2481-8.01	8,01	16	100	60	36	8	6	6
F2481-8.02	8,02	16	100	60	36	8	6	6
F2481-8.03	8,03	16	100	60	36	8	6	6
F2481-8.5	8,5	20	100	55	40	10	6,5	6
F2481-9	9	20	100	55	40	10	7	6
F2481-9.5	9,5	20	120	76	40	10	7,5	6
F2481-9.97	9,97	20	120	76	40	10	7,5	6
F2481-9.98	9,98	20	120	76	40	10	7,5	6
F2481-9.99	9,99	20	120	76	40	10	7,5	6
F2481-10	10	20	120	76	40	10	7,5	6
F2481-10.01	10,01	20	120	76	40	10	7,5	6
F2481-10.02	10,02	20	120	76	40	10	7,5	6
F2481-10.03	10,03	20	120	76	40	10	7,5	6
F2481-10.5	10,5	20	120	70	45	12	8	6
F2481-11	11	20	120	70	45	12	8,5	6
F2481-11.5	11,5	20	120	71	45	12	8,5	6
F2481-11.97	11,97	20	120	71	45	12	9	6
F2481-11.98	11,98	20	120	71	45	12	9	6
F2481-11.99	11,99	20	120	71	45	12	9	6
F2481-12	12	20	120	71	45	12	9	6
F2481-12.01	12,01	20	120	71	45	12	9	6
F2481-12.02	12,02	20	120	71	45	12	9	6
F2481-12.03	12,03	20	120	71	45	12	9	6
F2481-13	13	22	130	80	45	14	10	6
F2481-14	14	22	130	80	45	14	10,5	6
F2481-15	15	22	130	77	48	16	11,5	6
F2481-16	16	25	150	97	48	16	12	6
F2481-17	17	25	150	97	48	18	13	8
F2481-18	18	25	150	97	48	18	13,5	8
F2481-19	19	25	150	95	50	20	14	8
F2481-20	20	25	150	95	50	20	14,5	8

Exemplo de pedido para a classe TMS: F2481TMS-10

Alargadores MD para máquinas F2171



– Metal duro até Ø 13 mm, ponta de metal duro acima de Ø 13 mm



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●	●●

Ferramenta		D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h6 mm	Z EA
 DIN 6535 HA	F2171-2	2	12	49	28	4	4
	F2171-2.5	2,5	16	59	28	4	4
	F2171-3	3	17	63	28	4	6
	F2171-3.2	3,2	18	65	28	4	6
	F2171-3.5	3,5	18	70	28	4	6
	F2171-4	4	19	75	28	4	6
	F2171-4.5	4,5	21	80	36	6	6
	F2171-5	5	23	86	36	6	6
	F2171-5.5	5,5	26	93	36	6	6
	F2171-6	6	26	93	36	6	6
	F2171-6.5	6,5	28	101	36	6	6
	F2171-7	7	31	109	36	8	6
	F2171-7.5	7,5	31	109	36	8	6
	F2171-8	8	33	117	36	8	6
	F2171-8.5	8,5	33	117	36	8	6
	F2171-9	9	36	125	40	10	6
	F2171-10	10	38	133	40	10	6
	F2171-11	11	41	142	45	12	6
	F2171-12	12	44	151	45	12	6
	F2171-13	13	44	151	45	12	6
	F2171-14	14	47	160	48	16	8
	F2171-15	15	50	162	48	16	8
	F2171-16	16	52	170	48	16	8
	F2171-18	18	52	182	48	18	8
	F2171-20	20	52	195	50	20	8

Dimensões construtivas similares a DIN 8093

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

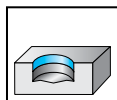
●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹

Alargadores MD para máquinas F2162

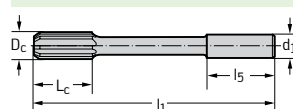


H7



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●	●●

Ferramenta



DIN 6535 HA

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h6 mm	Z EA
F2162-4	4	19	75	28	4	6
F2162-4.5	4,5	21	80	36	6	6
F2162-5	5	23	86	36	6	6
F2162-5.5	5,5	26	93	36	6	6
F2162-6	6	26	93	36	6	6
F2162-6.5	6,5	28	101	36	6	6
F2162-7	7	31	109	36	8	6
F2162-7.5	7,5	31	109	36	8	6
F2162-8	8	33	117	36	8	6
F2162-8.5	8,5	33	117	36	8	6
F2162-9	9	36	125	40	10	6
F2162-9.5	9,5	36	125	40	10	6
F2162-10	10	38	133	40	10	6
F2162-11	11	41	142	45	12	6
F2162-12	12	44	151	45	12	6
F2162-13	13	44	151	45	12	6
F2162-14	14	47	160	48	16	8
F2162-15	15	50	162	48	16	8
F2162-16	16	52	170	48	16	8
F2162-17	17	52	175	48	18	8
F2162-18	18	52	182	48	18	8
F2162-20	20	52	195	50	20	8

Dimensões construtivas similares a DIN 8093

WALTER
SELECT

Ferramenta ideal para condições de usinagem

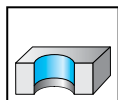
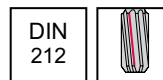
●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Alargadores para máquinas de HSS

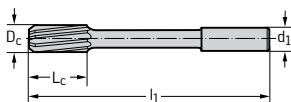
F1352HUN



– Norma Walter até Ø 3,75 mm – com pontas de centragem
– Escalonamento Ø = 0,01 mm



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta		D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
 Cylindrical shank	F1352HUN-0.95	0,95	6	34	19	1	3
	F1352HUN-0.97	0,97	6	34	19	1	3
	F1352HUN-0.98	0,98	6	34	19	1	3
	F1352HUN-0.99	0,99	6	34	19	1	3
	F1352HUN-1	1	6	34	19	1	3
	F1352HUN-1.01	1,01	6	34	19	1	3
	F1352HUN-1.02	1,02	6	34	19	1	3
	F1352HUN-1.03	1,03	6	34	19	1	3
	F1352HUN-1.04	1,04	6	34	19	1	3
	F1352HUN-1.05	1,05	6	34	19	1	3
	F1352HUN-1.06	1,06	6	34	19	1	3
	F1352HUN-1.07	1,07	7	36	20,5	1	3
	F1352HUN-1.08	1,08	7	36	20,5	1	3
	F1352HUN-1.09	1,09	7	36	20,5	1	3
	F1352HUN-1.11	1,11	7	36	20,5	1	3
	F1352HUN-1.12	1,12	7	36	20,5	1	3
	F1352HUN-1.13	1,13	7	36	20,5	1	3
	F1352HUN-1.14	1,14	7	36	20,5	1	3
	F1352HUN-1.15	1,15	7	36	20,5	1	3
	F1352HUN-1.16	1,16	7	36	20,5	1	3
	F1352HUN-1.17	1,17	7	36	20,5	1	3
	F1352HUN-1.18	1,18	7	36	20,5	1	3
	F1352HUN-1.19	1,19	8	38	21,5	1	3
	F1352HUN-1.2	1,2	8	38	21,5	1	3
	F1352HUN-1.21	1,21	8	38	21,5	1	3
	F1352HUN-1.22	1,22	8	38	21,5	1	3
	F1352HUN-1.23	1,23	8	38	21,5	1	3
	F1352HUN-1.24	1,24	8	38	21,5	1	3
	F1352HUN-1.25	1,25	8	38	21,5	1	3
	F1352HUN-1.26	1,26	8	38	21,5	1	3
	F1352HUN-1.27	1,27	8	38	21,5	1	3
	F1352HUN-1.28	1,28	8	38	21,5	1	3
	F1352HUN-1.29	1,29	8	38	21,5	1	3
	F1352HUN-1.3	1,3	8	38	21,5	1	3
	F1352HUN-1.31	1,31	8	38	21,5	1	3
	F1352HUN-1.32	1,32	8	38	21,5	1	3

B3

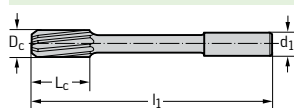
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



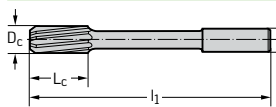
Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-1.33	1,33	8	40	22	1	3
F1352HUN-1.34	1,34	8	40	22	1	3
F1352HUN-1.35	1,35	8	40	22	1	3
F1352HUN-1.36	1,36	8	40	22	1	3
F1352HUN-1.37	1,37	8	40	22	1	3
F1352HUN-1.38	1,38	8	40	22	1	3
F1352HUN-1.39	1,39	8	40	22	1	3
F1352HUN-1.4	1,4	8	40	22	1	3
F1352HUN-1.41	1,41	8	40	22	1	3
F1352HUN-1.42	1,42	8	40	22	1	3
F1352HUN-1.43	1,43	8	40	22	1	3
F1352HUN-1.44	1,44	8	40	22	1	3
F1352HUN-1.45	1,45	8	40	22	1	3
F1352HUN-1.46	1,46	8	40	22	1	3
F1352HUN-1.47	1,47	8	40	22	1	3
F1352HUN-1.48	1,48	8	40	22	1	3
F1352HUN-1.49	1,49	8	40	22	1	3
F1352HUN-1.5	1,5	8	40	22	1	3
F1352HUN-1.51	1,51	9	43	23	2	3
F1352HUN-1.52	1,52	9	43	23	2	3
F1352HUN-1.53	1,53	9	43	23	2	3
F1352HUN-1.54	1,54	9	43	23	2	3
F1352HUN-1.55	1,55	9	43	23	2	3
F1352HUN-1.56	1,56	9	43	23	2	3
F1352HUN-1.57	1,57	9	43	23	2	3
F1352HUN-1.58	1,58	9	43	23	2	3
F1352HUN-1.59	1,59	9	43	23	2	3
F1352HUN-1.6	1,6	9	43	23	2	3
F1352HUN-1.61	1,61	9	43	23	2	3
F1352HUN-1.62	1,62	9	43	23	2	3
F1352HUN-1.63	1,63	9	43	23	2	3
F1352HUN-1.64	1,64	9	43	23	2	3
F1352HUN-1.65	1,65	9	43	23	2	3
F1352HUN-1.66	1,66	9	43	23	2	3
F1352HUN-1.67	1,67	9	43	23	2	3
F1352HUN-1.68	1,68	9	43	23	2	3
F1352HUN-1.69	1,69	9	43	23	2	3
F1352HUN-1.7	1,7	9	43	23	2	3
F1352HUN-1.71	1,71	10	46	24	2	4
F1352HUN-1.72	1,72	10	46	24	2	4
F1352HUN-1.73	1,73	10	46	24	2	4
F1352HUN-1.74	1,74	10	46	24	2	4
F1352HUN-1.75	1,75	10	46	24	2	4
F1352HUN-1.76	1,76	10	46	24	2	4
F1352HUN-1.77	1,77	10	46	24	2	4
F1352HUN-1.78	1,78	10	46	24	2	4

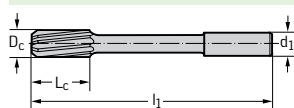
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
 Cylindrical shank		F1352HUN-1.79	1,79	10	46	24	2	4
		F1352HUN-1.8	1,8	10	46	24	2	4
		F1352HUN-1.81	1,81	10	46	24	2	4
		F1352HUN-1.82	1,82	10	46	24	2	4
		F1352HUN-1.83	1,83	10	46	24	2	4
		F1352HUN-1.84	1,84	10	46	24	2	4
		F1352HUN-1.85	1,85	10	46	24	2	4
		F1352HUN-1.86	1,86	10	46	24	2	4
		F1352HUN-1.87	1,87	10	46	24	2	4
		F1352HUN-1.88	1,88	10	46	24	2	4
		F1352HUN-1.89	1,89	10	46	24	2	4
		F1352HUN-1.9	1,9	10	46	24	2	4
		F1352HUN-1.91	1,91	11	49	25	2	4
		F1352HUN-1.92	1,92	11	49	25	2	4
		F1352HUN-1.93	1,93	11	49	25	2	4
		F1352HUN-1.94	1,94	11	49	25	2	4
		F1352HUN-1.95	1,95	11	49	25	2	4
		F1352HUN-1.96	1,96	11	49	25	2	4
		F1352HUN-1.97	1,97	11	49	25	2	4
		F1352HUN-1.98	1,98	11	49	25	2	4
		F1352HUN-1.99	1,99	11	49	25	2	4
		F1352HUN-2	2	11	49	25	2	4
		F1352HUN-2.01	2,01	11	49	25	2	4
		F1352HUN-2.02	2,02	11	49	25	2	4
		F1352HUN-2.03	2,03	11	49	25	2	4
		F1352HUN-2.04	2,04	11	49	25	2	4
		F1352HUN-2.05	2,05	11	49	25	2	4
		F1352HUN-2.06	2,06	11	49	25	2	4
		F1352HUN-2.07	2,07	11	49	25	2	4
		F1352HUN-2.08	2,08	11	49	25	2	4
		F1352HUN-2.09	2,09	11	49	25	2	4
		F1352HUN-2.1	2,1	11	49	25	2	4
		F1352HUN-2.11	2,11	11	49	25	2	4
		F1352HUN-2.12	2,12	11	49	25	2	4
		F1352HUN-2.13	2,13	12	53	27	2	4
		F1352HUN-2.14	2,14	12	53	27	2	4
		F1352HUN-2.15	2,15	12	53	27	2	4
		F1352HUN-2.16	2,16	12	53	27	2	4
		F1352HUN-2.17	2,17	12	53	27	2	4
		F1352HUN-2.18	2,18	12	53	27	2	4
		F1352HUN-2.19	2,19	12	53	27	2	4
		F1352HUN-2.2	2,2	12	53	27	2	4
		F1352HUN-2.21	2,21	12	53	27	2	4
		F1352HUN-2.22	2,22	12	53	27	2	4
		F1352HUN-2.23	2,23	12	53	27	2	4
		F1352HUN-2.24	2,24	12	53	27	2	4

Ferramenta



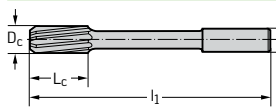
Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-2.25	2,25	12	53	27	2	4
F1352HUN-2.26	2,26	12	53	27	2	4
F1352HUN-2.27	2,27	12	53	27	2	4
F1352HUN-2.28	2,28	12	53	27	2	4
F1352HUN-2.29	2,29	12	53	27	2	4
F1352HUN-2.3	2,3	12	53	27	2	4
F1352HUN-2.31	2,31	12	53	27	2	4
F1352HUN-2.32	2,32	12	53	27	2	4
F1352HUN-2.33	2,33	12	53	27	2	4
F1352HUN-2.34	2,34	12	53	27	2	4
F1352HUN-2.35	2,35	12	53	27	2	4
F1352HUN-2.36	2,36	12	53	27	2	4
F1352HUN-2.37	2,37	14	57	29	3	4
F1352HUN-2.38	2,38	14	57	29	3	4
F1352HUN-2.39	2,39	14	57	29	3	4
F1352HUN-2.4	2,4	14	57	29	3	4
F1352HUN-2.41	2,41	14	57	29	3	4
F1352HUN-2.42	2,42	14	57	29	3	4
F1352HUN-2.43	2,43	14	57	29	3	4
F1352HUN-2.44	2,44	14	57	29	3	4
F1352HUN-2.45	2,45	14	57	29	3	4
F1352HUN-2.46	2,46	14	57	29	3	4
F1352HUN-2.47	2,47	14	57	29	3	4
F1352HUN-2.48	2,48	14	57	29	3	4
F1352HUN-2.49	2,49	14	57	29	3	4
F1352HUN-2.5	2,5	14	57	29	3	4
F1352HUN-2.51	2,51	14	57	29	3	4
F1352HUN-2.52	2,52	14	57	29	3	4
F1352HUN-2.53	2,53	14	57	29	3	4
F1352HUN-2.54	2,54	14	57	29	3	4
F1352HUN-2.55	2,55	14	57	29	3	4
F1352HUN-2.56	2,56	14	57	29	3	4
F1352HUN-2.57	2,57	14	57	29	3	4
F1352HUN-2.58	2,58	14	57	29	3	4
F1352HUN-2.59	2,59	14	57	29	3	4
F1352HUN-2.6	2,6	14	57	29	3	4
F1352HUN-2.61	2,61	14	57	29	3	4
F1352HUN-2.62	2,62	14	57	29	3	4
F1352HUN-2.63	2,63	14	57	29	3	4
F1352HUN-2.64	2,64	14	57	29	3	4
F1352HUN-2.65	2,65	14	57	29	3	4
F1352HUN-2.66	2,66	15	61	29	3	6
F1352HUN-2.67	2,67	15	61	29	3	6
F1352HUN-2.68	2,68	15	61	29	3	6
F1352HUN-2.69	2,69	15	61	29	3	6
F1352HUN-2.7	2,7	15	61	29	3	6

WALTER
SELECT

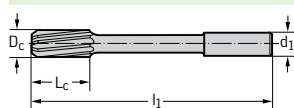
Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
	Cylindrical shank	F1352HUN-2.71	2,71	15	61	29	3	6
		F1352HUN-2.72	2,72	15	61	29	3	6
		F1352HUN-2.73	2,73	15	61	29	3	6
		F1352HUN-2.74	2,74	15	61	29	3	6
		F1352HUN-2.75	2,75	15	61	29	3	6
		F1352HUN-2.76	2,76	15	61	29	3	6
		F1352HUN-2.77	2,77	15	61	29	3	6
		F1352HUN-2.78	2,78	15	61	29	3	6
		F1352HUN-2.79	2,79	15	61	29	3	6
		F1352HUN-2.8	2,8	15	61	29	3	6
		F1352HUN-2.81	2,81	15	61	29	3	6
		F1352HUN-2.82	2,82	15	61	29	3	6
		F1352HUN-2.83	2,83	15	61	29	3	6
		F1352HUN-2.84	2,84	15	61	29	3	6
		F1352HUN-2.85	2,85	15	61	29	3	6
		F1352HUN-2.86	2,86	15	61	29	3	6
		F1352HUN-2.87	2,87	15	61	29	3	6
		F1352HUN-2.88	2,88	15	61	29	3	6
		F1352HUN-2.89	2,89	15	61	29	3	6
		F1352HUN-2.9	2,9	15	61	29	3	6
		F1352HUN-2.91	2,91	15	61	29	3	6
		F1352HUN-2.92	2,92	15	61	29	3	6
		F1352HUN-2.93	2,93	15	61	29	3	6
		F1352HUN-2.94	2,94	15	61	29	3	6
		F1352HUN-2.95	2,95	15	61	29	3	6
		F1352HUN-2.96	2,96	15	61	29	3	6
		F1352HUN-2.97	2,97	15	61	29	3	6
		F1352HUN-2.98	2,98	15	61	29	3	6
		F1352HUN-2.99	2,99	15	61	29	3	6
		F1352HUN-3	3	15	61	29	3	6
		F1352HUN-3.01	3,01	16	65	30	3	6
		F1352HUN-3.02	3,02	16	65	30	3	6
		F1352HUN-3.03	3,03	16	65	30	3	6
		F1352HUN-3.04	3,04	16	65	30	3	6
		F1352HUN-3.05	3,05	16	65	30	3	6
		F1352HUN-3.06	3,06	16	65	30	3	6
		F1352HUN-3.07	3,07	16	65	30	3	6
		F1352HUN-3.08	3,08	16	65	30	3	6
		F1352HUN-3.09	3,09	16	65	30	3	6
		F1352HUN-3.1	3,1	16	65	30	3	6
		F1352HUN-3.11	3,11	16	65	30	3	6
		F1352HUN-3.12	3,12	16	65	30	3	6
		F1352HUN-3.13	3,13	16	65	30	3	6
		F1352HUN-3.14	3,14	16	65	30	3	6
		F1352HUN-3.15	3,15	16	65	30	3	6
		F1352HUN-3.16	3,16	16	65	30	3	6

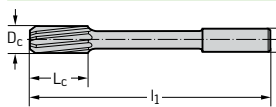
B3

Ferramenta

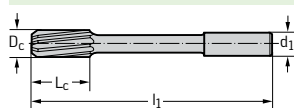


Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-3.17	3,17	16	65	30	3	6
F1352HUN-3.18	3,18	16	65	30	3	6
F1352HUN-3.19	3,19	16	65	30	3	6
F1352HUN-3.2	3,2	16	65	30	3	6
F1352HUN-3.21	3,21	16	65	30	3	6
F1352HUN-3.22	3,22	16	65	30	3	6
F1352HUN-3.23	3,23	16	65	30	3	6
F1352HUN-3.24	3,24	16	65	30	3	6
F1352HUN-3.25	3,25	16	65	30	3	6
F1352HUN-3.26	3,26	16	65	30	3	6
F1352HUN-3.27	3,27	16	65	30	3	6
F1352HUN-3.28	3,28	16	65	30	3	6
F1352HUN-3.29	3,29	16	65	30	3	6
F1352HUN-3.3	3,3	16	65	30	3	6
F1352HUN-3.31	3,31	16	65	30	3	6
F1352HUN-3.32	3,32	16	65	30	3	6
F1352HUN-3.33	3,33	16	65	30	3	6
F1352HUN-3.34	3,34	16	65	30	3	6
F1352HUN-3.35	3,35	16	65	30	3	6
F1352HUN-3.36	3,36	18	70	30	4	6
F1352HUN-3.37	3,37	18	70	30	4	6
F1352HUN-3.38	3,38	18	70	30	3	6
F1352HUN-3.39	3,39	18	70	30	3	6
F1352HUN-3.4	3,4	18	70	30	4	6
F1352HUN-3.41	3,41	18	70	30	4	6
F1352HUN-3.42	3,42	18	70	30	4	6
F1352HUN-3.43	3,43	18	70	30	4	6
F1352HUN-3.44	3,44	18	70	30	4	6
F1352HUN-3.45	3,45	18	70	30	4	6
F1352HUN-3.46	3,46	18	70	30	4	6
F1352HUN-3.47	3,47	18	70	30	4	6
F1352HUN-3.48	3,48	18	70	30	4	6
F1352HUN-3.49	3,49	18	70	30	4	6
F1352HUN-3.5	3,5	18	70	30	4	6
F1352HUN-3.51	3,51	18	70	30	4	6
F1352HUN-3.52	3,52	18	70	30	4	6
F1352HUN-3.53	3,53	18	70	30	4	6
F1352HUN-3.54	3,54	18	70	30	4	6
F1352HUN-3.55	3,55	18	70	30	4	6
F1352HUN-3.56	3,56	18	70	30	4	6
F1352HUN-3.57	3,57	18	70	30	4	6
F1352HUN-3.58	3,58	18	70	30	4	6
F1352HUN-3.59	3,59	18	70	30	4	6
F1352HUN-3.61	3,61	18	70	30	4	6
F1352HUN-3.62	3,62	18	70	30	4	6
F1352HUN-3.63	3,63	18	70	30	4	6

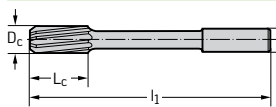
Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
	Cylindrical shank	F1352HUN-3.64	3,64	18	70	30	4	6
		F1352HUN-3.65	3,65	18	70	30	4	6
		F1352HUN-3.66	3,66	18	70	30	4	6
		F1352HUN-3.67	3,67	18	70	30	4	6
		F1352HUN-3.68	3,68	18	70	30	4	6
		F1352HUN-3.69	3,69	18	70	30	4	6
		F1352HUN-3.71	3,71	18	70	30	4	6
		F1352HUN-3.72	3,72	18	70	30	4	6
		F1352HUN-3.73	3,73	18	70	30	4	6
		F1352HUN-3.74	3,74	18	70	30	4	6
		F1352HUN-3.75	3,75	18	70	30	4	6
		F1352HUN-3.76	3,76	19	75	32	4	6
		F1352HUN-3.77	3,77	19	75	32	4	6
		F1352HUN-3.78	3,78	19	75	32	4	6
		F1352HUN-3.79	3,79	19	75	32	4	6
		F1352HUN-3.81	3,81	19	75	32	4	6
		F1352HUN-3.82	3,82	19	75	32	4	6
		F1352HUN-3.83	3,83	19	75	32	4	6
		F1352HUN-3.84	3,84	19	75	32	4	6
		F1352HUN-3.85	3,85	19	75	32	4	6
		F1352HUN-3.86	3,86	19	75	32	4	6
		F1352HUN-3.87	3,87	19	75	32	4	6
		F1352HUN-3.88	3,88	19	75	32	4	6
		F1352HUN-3.89	3,89	19	75	32	4	6
		F1352HUN-3.9	3,9	19	75	32	4	6
		F1352HUN-3.91	3,91	19	75	32	4	6
		F1352HUN-3.92	3,92	19	75	32	4	6
		F1352HUN-3.93	3,93	19	75	32	4	6
		F1352HUN-3.94	3,94	19	75	32	4	6
		F1352HUN-3.95	3,95	19	75	32	4	6
		F1352HUN-3.96	3,96	19	75	32	4	6
		F1352HUN-3.97	3,97	19	75	32	4	6
		F1352HUN-3.98	3,98	19	75	32	4	6
		F1352HUN-3.99	3,99	19	75	32	4	6
		F1352HUN-4	4	19	75	32	4	6
		F1352HUN-4.01	4,01	19	75	32	4	6
		F1352HUN-4.02	4,02	19	75	32	4	6
		F1352HUN-4.03	4,03	19	75	32	4	6
		F1352HUN-4.04	4,04	19	75	32	4	6
		F1352HUN-4.05	4,05	19	75	32	4	6
		F1352HUN-4.06	4,06	19	75	32	4	6
		F1352HUN-4.07	4,07	19	75	32	4	6
		F1352HUN-4.08	4,08	19	75	32	4	6
		F1352HUN-4.09	4,09	19	75	32	4	6
		F1352HUN-4.1	4,1	19	75	32	4	6
		F1352HUN-4.11	4,11	19	75	32	4	6

Ferramenta

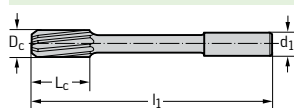


Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-4.12	4,12	19	75	32	4	6
F1352HUN-4.13	4,13	19	75	32	4	6
F1352HUN-4.14	4,14	19	75	32	4	6
F1352HUN-4.15	4,15	19	75	32	4	6
F1352HUN-4.16	4,16	19	75	32	4	6
F1352HUN-4.17	4,17	19	75	32	4	6
F1352HUN-4.18	4,18	19	75	32	4	6
F1352HUN-4.19	4,19	19	75	32	4	6
F1352HUN-4.2	4,2	19	75	32	4	6
F1352HUN-4.21	4,21	19	75	32	4	6
F1352HUN-4.22	4,22	19	75	32	4	6
F1352HUN-4.23	4,23	19	75	32	4	6
F1352HUN-4.24	4,24	19	75	32	4	6
F1352HUN-4.25	4,25	19	75	32	4	6
F1352HUN-4.26	4,26	21	80	33	5	6
F1352HUN-4.27	4,27	21	80	33	5	6
F1352HUN-4.28	4,28	21	80	33	5	6
F1352HUN-4.29	4,29	21	80	33	5	6
F1352HUN-4.3	4,3	21	80	33	5	6
F1352HUN-4.31	4,31	21	80	33	5	6
F1352HUN-4.32	4,32	21	80	33	5	6
F1352HUN-4.33	4,33	21	80	33	5	6
F1352HUN-4.34	4,34	21	80	33	5	6
F1352HUN-4.35	4,35	21	80	33	5	6
F1352HUN-4.36	4,36	21	80	33	5	6
F1352HUN-4.37	4,37	21	80	33	5	6
F1352HUN-4.38	4,38	21	80	33	5	6
F1352HUN-4.39	4,39	21	80	33	5	6
F1352HUN-4.41	4,41	21	80	33	5	6
F1352HUN-4.42	4,42	21	80	33	5	6
F1352HUN-4.43	4,43	21	80	33	5	6
F1352HUN-4.44	4,44	21	80	33	5	6
F1352HUN-4.45	4,45	21	80	33	5	6
F1352HUN-4.46	4,46	21	80	33	5	6
F1352HUN-4.47	4,47	21	80	33	5	6
F1352HUN-4.48	4,48	21	80	33	5	6
F1352HUN-4.49	4,49	21	80	33	5	6
F1352HUN-4.5	4,5	21	80	33	5	6
F1352HUN-4.51	4,51	21	80	33	5	6
F1352HUN-4.52	4,52	21	80	33	5	6
F1352HUN-4.53	4,53	21	80	33	5	6
F1352HUN-4.54	4,54	21	80	33	5	6
F1352HUN-4.55	4,55	21	80	33	5	6
F1352HUN-4.56	4,56	21	80	33	5	6
F1352HUN-4.57	4,57	21	80	33	5	6
F1352HUN-4.58	4,58	21	80	33	5	6

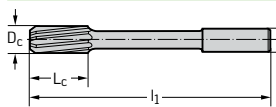
Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
	Cylindrical shank	F1352HUN-4.59	4,59	21	80	33	5	6
		F1352HUN-4.61	4,61	21	80	33	5	6
		F1352HUN-4.62	4,62	21	80	33	5	6
		F1352HUN-4.63	4,63	21	80	33	5	6
		F1352HUN-4.64	4,64	21	80	33	5	6
		F1352HUN-4.65	4,65	21	80	33	5	6
		F1352HUN-4.66	4,66	21	80	33	5	6
		F1352HUN-4.67	4,67	21	80	33	5	6
		F1352HUN-4.68	4,68	21	80	33	5	6
		F1352HUN-4.69	4,69	21	80	33	5	6
		F1352HUN-4.71	4,71	21	80	33	5	6
		F1352HUN-4.72	4,72	21	80	33	5	6
		F1352HUN-4.73	4,73	21	80	33	5	6
		F1352HUN-4.74	4,74	21	80	33	5	6
		F1352HUN-4.75	4,75	21	80	33	5	6
		F1352HUN-4.76	4,76	23	86	34	5	6
		F1352HUN-4.77	4,77	23	86	34	5	6
		F1352HUN-4.78	4,78	23	86	34	5	6
		F1352HUN-4.79	4,79	23	86	34	5	6
		F1352HUN-4.8	4,8	23	86	34	5	6
		F1352HUN-4.81	4,81	23	86	34	5	6
		F1352HUN-4.82	4,82	23	86	34	5	6
		F1352HUN-4.83	4,83	23	86	34	5	6
		F1352HUN-4.84	4,84	23	86	34	5	6
		F1352HUN-4.85	4,85	23	86	34	5	6
		F1352HUN-4.86	4,86	23	86	34	5	6
		F1352HUN-4.87	4,87	23	86	34	5	6
		F1352HUN-4.88	4,88	23	86	34	5	6
		F1352HUN-4.89	4,89	23	86	34	5	6
		F1352HUN-4.9	4,9	23	86	34	5	6
		F1352HUN-4.91	4,91	23	86	34	5	6
		F1352HUN-4.92	4,92	23	86	34	5	6
		F1352HUN-4.93	4,93	23	86	34	5	6
		F1352HUN-4.94	4,94	23	86	34	5	6
		F1352HUN-4.95	4,95	23	86	34	5	6
		F1352HUN-4.96	4,96	23	86	34	5	6
		F1352HUN-4.97	4,97	23	86	34	5	6
		F1352HUN-4.98	4,98	23	86	34	5	6
		F1352HUN-4.99	4,99	23	86	34	5	6
		F1352HUN-5	5	23	86	34	5	6
		F1352HUN-5.01	5,01	23	86	34	5	6
		F1352HUN-5.02	5,02	23	86	34	5	6
		F1352HUN-5.03	5,03	23	86	34	5	6
		F1352HUN-5.04	5,04	23	86	34	5	6
		F1352HUN-5.05	5,05	23	86	34	5	6
		F1352HUN-5.06	5,06	23	86	34	5	6

Ferramenta

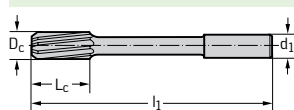


Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-5.07	5,07	23	86	34	5	6
F1352HUN-5.08	5,08	23	86	34	5	6
F1352HUN-5.09	5,09	23	86	34	5	6
F1352HUN-5.1	5,1	23	86	34	5	6
F1352HUN-5.11	5,11	23	86	34	5	6
F1352HUN-5.12	5,12	23	86	34	5	6
F1352HUN-5.13	5,13	23	86	34	5	6
F1352HUN-5.14	5,14	23	86	34	5	6
F1352HUN-5.15	5,15	23	86	34	5	6
F1352HUN-5.16	5,16	23	86	34	5	6
F1352HUN-5.17	5,17	23	86	34	5	6
F1352HUN-5.18	5,18	23	86	34	5	6
F1352HUN-5.19	5,19	23	86	34	5	6
F1352HUN-5.2	5,2	23	86	34	5	6
F1352HUN-5.21	5,21	23	86	34	5	6
F1352HUN-5.22	5,22	23	86	34	5	6
F1352HUN-5.23	5,23	23	86	34	5	6
F1352HUN-5.24	5,24	23	86	34	5	6
F1352HUN-5.25	5,25	23	86	34	5	6
F1352HUN-5.26	5,26	23	86	34	5	6
F1352HUN-5.27	5,27	23	86	34	5	6
F1352HUN-5.28	5,28	23	86	34	5	6
F1352HUN-5.29	5,29	23	86	34	5	6
F1352HUN-5.31	5,31	26	93	36	6	6
F1352HUN-5.32	5,32	26	93	36	6	6
F1352HUN-5.33	5,33	26	93	36	6	6
F1352HUN-5.34	5,34	26	93	36	6	6
F1352HUN-5.35	5,35	26	93	36	6	6
F1352HUN-5.36	5,36	26	93	36	6	6
F1352HUN-5.37	5,37	26	93	36	6	6
F1352HUN-5.38	5,38	26	93	36	6	6
F1352HUN-5.39	5,39	26	93	36	6	6
F1352HUN-5.41	5,41	26	93	36	6	6
F1352HUN-5.42	5,42	26	93	36	6	6
F1352HUN-5.43	5,43	26	93	36	6	6
F1352HUN-5.44	5,44	26	93	36	6	6
F1352HUN-5.45	5,45	26	93	36	6	6
F1352HUN-5.46	5,46	26	93	36	6	6
F1352HUN-5.47	5,47	26	93	36	6	6
F1352HUN-5.48	5,48	26	93	36	6	6
F1352HUN-5.49	5,49	26	93	36	6	6
F1352HUN-5.5	5,5	26	93	36	6	6
F1352HUN-5.51	5,51	26	93	36	6	6
F1352HUN-5.52	5,52	26	93	36	6	6
F1352HUN-5.53	5,53	26	93	36	6	6
F1352HUN-5.54	5,54	26	93	36	6	6

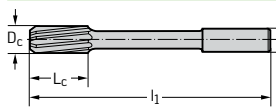
Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
	Cylindrical shank	F1352HUN-5.55	5,55	26	93	36	6	6
		F1352HUN-5.56	5,56	26	93	36	6	6
		F1352HUN-5.57	5,57	26	93	36	6	6
		F1352HUN-5.58	5,58	26	93	36	6	6
		F1352HUN-5.59	5,59	26	93	36	6	6
		F1352HUN-5.6	5,6	26	93	36	6	6
		F1352HUN-5.61	5,61	26	93	36	6	6
		F1352HUN-5.62	5,62	26	93	36	6	6
		F1352HUN-5.63	5,63	26	93	36	6	6
		F1352HUN-5.64	5,64	26	93	36	6	6
		F1352HUN-5.65	5,65	26	93	36	6	6
		F1352HUN-5.66	5,66	26	93	36	6	6
		F1352HUN-5.67	5,67	26	93	36	6	6
		F1352HUN-5.68	5,68	26	93	36	6	6
		F1352HUN-5.69	5,69	26	93	36	6	6
		F1352HUN-5.71	5,71	26	93	36	6	6
		F1352HUN-5.72	5,72	26	93	36	6	6
		F1352HUN-5.73	5,73	26	93	36	6	6
		F1352HUN-5.74	5,74	26	93	36	6	6
		F1352HUN-5.75	5,75	26	93	36	6	6
		F1352HUN-5.76	5,76	26	93	36	6	6
		F1352HUN-5.77	5,77	26	93	36	6	6
		F1352HUN-5.78	5,78	26	93	36	6	6
		F1352HUN-5.79	5,79	26	93	36	6	6
		F1352HUN-5.81	5,81	26	93	36	6	6
		F1352HUN-5.82	5,82	26	93	36	6	6
		F1352HUN-5.83	5,83	26	93	36	6	6
		F1352HUN-5.84	5,84	26	93	36	6	6
		F1352HUN-5.85	5,85	26	93	36	6	6
		F1352HUN-5.86	5,86	26	93	36	6	6
		F1352HUN-5.87	5,87	26	93	36	6	6
		F1352HUN-5.88	5,88	26	93	36	6	6
		F1352HUN-5.89	5,89	26	93	36	6	6
		F1352HUN-5.91	5,91	26	93	36	6	6
		F1352HUN-5.92	5,92	26	93	36	6	6
		F1352HUN-5.93	5,93	26	93	36	6	6
		F1352HUN-5.94	5,94	26	93	36	6	6
		F1352HUN-5.95	5,95	26	93	36	6	6
		F1352HUN-5.96	5,96	26	93	36	6	6
		F1352HUN-5.97	5,97	26	93	36	6	6
		F1352HUN-5.98	5,98	26	93	36	6	6
		F1352HUN-5.99	5,99	26	93	36	6	6
		F1352HUN-6	6	26	93	36	6	6
		F1352HUN-6.01	6,01	26	93	36	6	6
		F1352HUN-6.02	6,02	26	93	36	6	6
		F1352HUN-6.03	6,03	26	93	36	6	6

Ferramenta

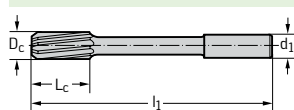


Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-6.04	6,04	28	101	38	6	6
F1352HUN-6.05	6,05	28	101	38	6	6
F1352HUN-6.06	6,06	28	101	38	6	6
F1352HUN-6.07	6,07	28	101	38	6	6
F1352HUN-6.08	6,08	28	101	38	6	6
F1352HUN-6.09	6,09	28	101	38	6	6
F1352HUN-6.1	6,1	28	101	38	6	6
F1352HUN-6.11	6,11	28	101	38	6	6
F1352HUN-6.12	6,12	28	101	38	6	6
F1352HUN-6.13	6,13	28	101	38	6	6
F1352HUN-6.14	6,14	28	101	38	6	6
F1352HUN-6.15	6,15	28	101	38	6	6
F1352HUN-6.16	6,16	28	101	38	6	6
F1352HUN-6.17	6,17	28	101	38	6	6
F1352HUN-6.18	6,18	28	101	38	6	6
F1352HUN-6.19	6,19	28	101	38	6	6
F1352HUN-6.2	6,2	28	101	38	6	6
F1352HUN-6.21	6,21	28	101	38	6	6
F1352HUN-6.22	6,22	28	101	38	6	6
F1352HUN-6.23	6,23	28	101	38	6	6
F1352HUN-6.24	6,24	28	101	38	6	6
F1352HUN-6.25	6,25	28	101	38	6	6
F1352HUN-6.26	6,26	28	101	38	6	6
F1352HUN-6.27	6,27	28	101	38	6	6
F1352HUN-6.28	6,28	28	101	38	6	6
F1352HUN-6.29	6,29	28	101	38	6	6
F1352HUN-6.31	6,31	28	101	38	6	6
F1352HUN-6.32	6,32	28	101	38	6	6
F1352HUN-6.33	6,33	28	101	38	6	6
F1352HUN-6.34	6,34	28	101	38	6	6
F1352HUN-6.35	6,35	28	101	38	6	6
F1352HUN-6.36	6,36	28	101	38	6	6
F1352HUN-6.37	6,37	28	101	38	6	6
F1352HUN-6.38	6,38	28	101	38	6	6
F1352HUN-6.39	6,39	28	101	38	6	6
F1352HUN-6.4	6,4	28	101	38	6	6
F1352HUN-6.41	6,41	28	101	38	6	6
F1352HUN-6.42	6,42	28	101	38	6	6
F1352HUN-6.43	6,43	28	101	38	6	6
F1352HUN-6.44	6,44	28	101	38	6	6
F1352HUN-6.45	6,45	28	101	38	6	6
F1352HUN-6.46	6,46	28	101	38	6	6
F1352HUN-6.47	6,47	28	101	38	6	6
F1352HUN-6.48	6,48	28	101	38	6	6
F1352HUN-6.49	6,49	28	101	38	6	6
F1352HUN-6.51	6,51	28	101	38	6	6

Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
	Cylindrical shank	F1352HUN-6.52	6,52	28	101	38	6	6
		F1352HUN-6.53	6,53	28	101	38	6	6
		F1352HUN-6.54	6,54	28	101	38	6	6
		F1352HUN-6.55	6,55	28	101	38	6	6
		F1352HUN-6.56	6,56	28	101	38	6	6
		F1352HUN-6.57	6,57	28	101	38	6	6
		F1352HUN-6.58	6,58	28	101	38	6	6
		F1352HUN-6.59	6,59	28	101	38	6	6
		F1352HUN-6.61	6,61	28	101	38	6	6
		F1352HUN-6.62	6,62	28	101	38	6	6
		F1352HUN-6.63	6,63	28	101	38	6	6
		F1352HUN-6.64	6,64	28	101	38	6	6
		F1352HUN-6.65	6,65	28	101	38	6	6
		F1352HUN-6.66	6,66	28	101	38	6	6
		F1352HUN-6.67	6,67	28	101	38	6	6
		F1352HUN-6.68	6,68	28	101	38	6	6
		F1352HUN-6.69	6,69	28	101	38	6	6
		F1352HUN-6.71	6,71	31	109	40	7	6
		F1352HUN-6.72	6,72	31	109	40	7	6
		F1352HUN-6.73	6,73	31	109	40	7	6
		F1352HUN-6.74	6,74	31	109	40	7	6
		F1352HUN-6.75	6,75	31	109	40	7	6
		F1352HUN-6.76	6,76	31	109	40	7	6
		F1352HUN-6.77	6,77	31	109	40	7	6
		F1352HUN-6.78	6,78	31	109	40	7	6
		F1352HUN-6.79	6,79	31	109	40	7	6
		F1352HUN-6.81	6,81	31	109	40	7	6
		F1352HUN-6.82	6,82	31	109	40	7	6
		F1352HUN-6.83	6,83	31	109	40	7	6
		F1352HUN-6.84	6,84	31	109	40	7	6
		F1352HUN-6.85	6,85	31	109	40	7	6
		F1352HUN-6.86	6,86	31	109	40	7	6
		F1352HUN-6.87	6,87	31	109	40	7	6
		F1352HUN-6.88	6,88	31	109	40	7	6
		F1352HUN-6.89	6,89	31	109	40	7	6
		F1352HUN-6.91	6,91	31	109	40	7	6
		F1352HUN-6.92	6,92	31	109	40	7	6
		F1352HUN-6.93	6,93	31	109	40	7	6
		F1352HUN-6.94	6,94	31	109	40	7	6
		F1352HUN-6.95	6,95	31	109	40	7	6
		F1352HUN-6.96	6,96	31	109	40	7	6
		F1352HUN-6.97	6,97	31	109	40	7	6
		F1352HUN-6.98	6,98	31	109	40	7	6
		F1352HUN-6.99	6,99	31	109	40	7	6
		F1352HUN-7	7	31	109	40	7	6
		F1352HUN-7.01	7,01	31	109	40	7	6

Ferramenta



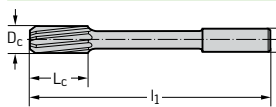
Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-7.02	7,02	31	109	40	7	6
F1352HUN-7.03	7,03	31	109	40	7	6
F1352HUN-7.04	7,04	31	109	40	7	6
F1352HUN-7.05	7,05	31	109	40	7	6
F1352HUN-7.06	7,06	31	109	40	7	6
F1352HUN-7.07	7,07	31	109	40	7	6
F1352HUN-7.08	7,08	31	109	40	7	6
F1352HUN-7.09	7,09	31	109	40	7	6
F1352HUN-7.11	7,11	31	109	40	7	6
F1352HUN-7.12	7,12	31	109	40	7	6
F1352HUN-7.13	7,13	31	109	40	7	6
F1352HUN-7.14	7,14	31	109	40	7	6
F1352HUN-7.15	7,15	31	109	40	7	6
F1352HUN-7.16	7,16	31	109	40	7	6
F1352HUN-7.17	7,17	31	109	40	7	6
F1352HUN-7.18	7,18	31	109	40	7	6
F1352HUN-7.19	7,19	31	109	40	7	6
F1352HUN-7.21	7,21	31	109	40	7	6
F1352HUN-7.22	7,22	31	109	40	7	6
F1352HUN-7.23	7,23	31	109	40	7	6
F1352HUN-7.24	7,24	31	109	40	7	6
F1352HUN-7.25	7,25	31	109	40	7	6
F1352HUN-7.26	7,26	31	109	40	7	6
F1352HUN-7.27	7,27	31	109	40	7	6
F1352HUN-7.28	7,28	31	109	40	7	6
F1352HUN-7.29	7,29	31	109	40	7	6
F1352HUN-7.31	7,31	31	109	40	7	6
F1352HUN-7.32	7,32	31	109	40	7	6
F1352HUN-7.33	7,33	31	109	40	7	6
F1352HUN-7.34	7,34	31	109	40	7	6
F1352HUN-7.35	7,35	31	109	40	7	6
F1352HUN-7.36	7,36	31	109	40	7	6
F1352HUN-7.37	7,37	31	109	40	7	6
F1352HUN-7.38	7,38	31	109	40	7	6
F1352HUN-7.39	7,39	31	109	40	7	6
F1352HUN-7.41	7,41	31	109	40	7	6
F1352HUN-7.42	7,42	31	109	40	7	6
F1352HUN-7.43	7,43	31	109	40	7	6
F1352HUN-7.44	7,44	31	109	40	7	6
F1352HUN-7.45	7,45	31	109	40	7	6
F1352HUN-7.46	7,46	31	109	40	7	6
F1352HUN-7.47	7,47	31	109	40	7	6
F1352HUN-7.48	7,48	31	109	40	7	6
F1352HUN-7.49	7,49	31	109	40	7	6
F1352HUN-7.5	7,5	31	109	40	7	6
F1352HUN-7.51	7,51	33	117	42	8	6

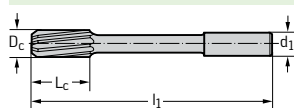
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
	Cylindrical shank	F1352HUN-7.52	7,52	33	117	42	8	6
		F1352HUN-7.53	7,53	33	117	42	8	6
		F1352HUN-7.54	7,54	33	117	42	8	6
		F1352HUN-7.55	7,55	33	117	42	8	6
		F1352HUN-7.56	7,56	33	117	42	8	6
		F1352HUN-7.57	7,57	33	117	42	8	6
		F1352HUN-7.58	7,58	33	117	42	8	6
		F1352HUN-7.59	7,59	33	117	42	8	6
		F1352HUN-7.61	7,61	33	117	42	8	6
		F1352HUN-7.62	7,62	33	117	42	8	6
		F1352HUN-7.63	7,63	33	117	42	8	6
		F1352HUN-7.64	7,64	33	117	42	8	6
		F1352HUN-7.65	7,65	33	117	42	8	6
		F1352HUN-7.66	7,66	33	117	42	8	6
		F1352HUN-7.67	7,67	33	117	42	8	6
		F1352HUN-7.68	7,68	33	117	42	8	6
		F1352HUN-7.69	7,69	33	117	42	8	6
		F1352HUN-7.71	7,71	33	117	42	8	6
		F1352HUN-7.72	7,72	33	117	42	8	6
		F1352HUN-7.73	7,73	33	117	42	8	6
		F1352HUN-7.74	7,74	33	117	42	8	6
		F1352HUN-7.75	7,75	33	117	42	8	6
		F1352HUN-7.76	7,76	33	117	42	8	6
		F1352HUN-7.77	7,77	33	117	42	8	6
		F1352HUN-7.78	7,78	33	117	42	8	6
		F1352HUN-7.79	7,79	33	117	42	8	6
		F1352HUN-7.81	7,81	33	117	42	8	6
		F1352HUN-7.82	7,82	33	117	42	8	6
		F1352HUN-7.83	7,83	33	117	42	8	6
		F1352HUN-7.84	7,84	33	117	42	8	6
		F1352HUN-7.85	7,85	33	117	42	8	6
		F1352HUN-7.86	7,86	33	117	42	8	6
		F1352HUN-7.87	7,87	33	117	42	8	6
		F1352HUN-7.88	7,88	33	117	42	8	6
		F1352HUN-7.89	7,89	33	117	42	8	6
		F1352HUN-7.91	7,91	33	117	42	8	6
		F1352HUN-7.92	7,92	33	117	42	8	6
		F1352HUN-7.93	7,93	33	117	42	8	6
		F1352HUN-7.94	7,94	33	117	42	8	6
		F1352HUN-7.95	7,95	33	117	42	8	6
		F1352HUN-7.96	7,96	33	117	42	8	6
		F1352HUN-7.97	7,97	33	117	42	8	6
		F1352HUN-7.98	7,98	33	117	42	8	6
		F1352HUN-7.99	7,99	33	117	42	8	6
		F1352HUN-8	8	33	117	42	8	6
		F1352HUN-8.01	8,01	33	117	42	8	6

Ferramenta



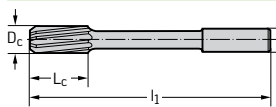
Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-8.02	8,02	33	117	42	8	6
F1352HUN-8.03	8,03	33	117	42	8	6
F1352HUN-8.04	8,04	33	117	42	8	6
F1352HUN-8.05	8,05	33	117	42	8	6
F1352HUN-8.06	8,06	33	117	42	8	6
F1352HUN-8.07	8,07	33	117	42	8	6
F1352HUN-8.08	8,08	33	117	42	8	6
F1352HUN-8.09	8,09	33	117	42	8	6
F1352HUN-8.1	8,1	33	117	42	8	6
F1352HUN-8.11	8,11	33	117	42	8	6
F1352HUN-8.12	8,12	33	117	42	8	6
F1352HUN-8.13	8,13	33	117	42	8	6
F1352HUN-8.14	8,14	33	117	42	8	6
F1352HUN-8.15	8,15	33	117	42	8	6
F1352HUN-8.16	8,16	33	117	42	8	6
F1352HUN-8.17	8,17	33	117	42	8	6
F1352HUN-8.18	8,18	33	117	42	8	6
F1352HUN-8.19	8,19	33	117	42	8	6
F1352HUN-8.2	8,2	33	117	42	8	6
F1352HUN-8.21	8,21	33	117	42	8	6
F1352HUN-8.22	8,22	33	117	42	8	6
F1352HUN-8.23	8,23	33	117	42	8	6
F1352HUN-8.24	8,24	33	117	42	8	6
F1352HUN-8.25	8,25	33	117	42	8	6
F1352HUN-8.26	8,26	33	117	42	8	6
F1352HUN-8.27	8,27	33	117	42	8	6
F1352HUN-8.28	8,28	33	117	42	8	6
F1352HUN-8.29	8,29	33	117	42	8	6
F1352HUN-8.3	8,3	33	117	42	8	6
F1352HUN-8.31	8,31	33	117	42	8	6
F1352HUN-8.32	8,32	33	117	42	8	6
F1352HUN-8.33	8,33	33	117	42	8	6
F1352HUN-8.34	8,34	33	117	42	8	6
F1352HUN-8.35	8,35	33	117	42	8	6
F1352HUN-8.36	8,36	33	117	42	8	6
F1352HUN-8.37	8,37	33	117	42	8	6
F1352HUN-8.38	8,38	33	117	42	8	6
F1352HUN-8.39	8,39	33	117	42	8	6
F1352HUN-8.41	8,41	33	117	42	8	6
F1352HUN-8.42	8,42	33	117	42	8	6
F1352HUN-8.43	8,43	33	117	42	8	6
F1352HUN-8.44	8,44	33	117	42	8	6
F1352HUN-8.45	8,45	33	117	42	8	6
F1352HUN-8.46	8,46	33	117	42	8	6
F1352HUN-8.47	8,47	33	117	42	8	6
F1352HUN-8.48	8,48	33	117	42	8	6

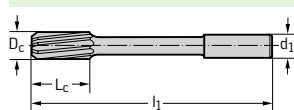
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
	Cylindrical shank	F1352HUN-8.49	8,49	33	117	42	8	6
		F1352HUN-8.5	8,5	33	117	42	8	6
		F1352HUN-8.51	8,51	36	125	44	9	6
		F1352HUN-8.52	8,52	36	125	44	9	6
		F1352HUN-8.53	8,53	36	125	44	9	6
		F1352HUN-8.54	8,54	36	125	44	9	6
		F1352HUN-8.55	8,55	36	125	44	9	6
		F1352HUN-8.56	8,56	36	125	44	9	6
		F1352HUN-8.57	8,57	36	125	44	9	6
		F1352HUN-8.58	8,58	36	125	44	9	6
		F1352HUN-8.59	8,59	36	125	44	9	6
		F1352HUN-8.61	8,61	36	125	44	9	6
		F1352HUN-8.62	8,62	36	125	44	9	6
		F1352HUN-8.63	8,63	36	125	44	9	6
		F1352HUN-8.64	8,64	36	125	44	9	6
		F1352HUN-8.65	8,65	36	125	44	9	6
		F1352HUN-8.66	8,66	36	125	44	9	6
		F1352HUN-8.67	8,67	36	125	44	9	6
		F1352HUN-8.68	8,68	36	125	44	9	6
		F1352HUN-8.69	8,69	36	125	44	9	6
		F1352HUN-8.71	8,71	36	125	44	9	6
		F1352HUN-8.72	8,72	36	125	44	9	6
		F1352HUN-8.73	8,73	36	125	44	9	6
		F1352HUN-8.74	8,74	36	125	44	9	6
		F1352HUN-8.75	8,75	36	125	44	9	6
		F1352HUN-8.76	8,76	36	125	44	9	6
		F1352HUN-8.77	8,77	36	125	44	9	6
		F1352HUN-8.78	8,78	36	125	44	9	6
		F1352HUN-8.79	8,79	36	125	44	9	6
		F1352HUN-8.81	8,81	36	125	44	9	6
		F1352HUN-8.82	8,82	36	125	44	9	6
		F1352HUN-8.83	8,83	36	125	44	9	6
		F1352HUN-8.84	8,84	36	125	44	9	6
		F1352HUN-8.85	8,85	36	125	44	9	6
		F1352HUN-8.86	8,86	36	125	44	9	6
		F1352HUN-8.87	8,87	36	125	44	9	6
		F1352HUN-8.88	8,88	36	125	44	9	6
		F1352HUN-8.89	8,89	36	125	44	9	6
		F1352HUN-8.91	8,91	36	125	44	9	6
		F1352HUN-8.92	8,92	36	125	44	9	6
		F1352HUN-8.93	8,93	36	125	44	9	6
		F1352HUN-8.94	8,94	36	125	44	9	6
		F1352HUN-8.95	8,95	36	125	44	9	6
		F1352HUN-8.96	8,96	36	125	44	9	6
		F1352HUN-8.97	8,97	36	125	44	9	6
		F1352HUN-8.98	8,98	36	125	44	9	6

Ferramenta



Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-8.99	8,99	36	125	44	9	6
F1352HUN-9	9	36	125	44	9	6
F1352HUN-9.01	9,01	36	125	44	9	6
F1352HUN-9.02	9,02	36	125	44	9	6
F1352HUN-9.03	9,03	36	125	44	9	6
F1352HUN-9.04	9,04	36	125	44	9	6
F1352HUN-9.05	9,05	36	125	44	9	6
F1352HUN-9.06	9,06	36	125	44	9	6
F1352HUN-9.07	9,07	36	125	44	9	6
F1352HUN-9.08	9,08	36	125	44	9	6
F1352HUN-9.09	9,09	36	125	44	9	6
F1352HUN-9.11	9,11	36	125	44	9	6
F1352HUN-9.12	9,12	36	125	44	9	6
F1352HUN-9.13	9,13	36	125	44	9	6
F1352HUN-9.14	9,14	36	125	44	9	6
F1352HUN-9.15	9,15	36	125	44	9	6
F1352HUN-9.16	9,16	36	125	44	9	6
F1352HUN-9.17	9,17	36	125	44	9	6
F1352HUN-9.18	9,18	36	125	44	9	6
F1352HUN-9.19	9,19	36	125	44	9	6
F1352HUN-9.21	9,21	36	125	44	9	6
F1352HUN-9.22	9,22	36	125	44	9	6
F1352HUN-9.23	9,23	36	125	44	9	6
F1352HUN-9.24	9,24	36	125	44	9	6
F1352HUN-9.25	9,25	36	125	44	9	6
F1352HUN-9.26	9,26	36	125	44	9	6
F1352HUN-9.27	9,27	36	125	44	9	6
F1352HUN-9.28	9,28	36	125	44	9	6
F1352HUN-9.29	9,29	36	125	44	9	6
F1352HUN-9.31	9,31	36	125	44	9	6
F1352HUN-9.32	9,32	36	125	44	9	6
F1352HUN-9.33	9,33	36	125	44	9	6
F1352HUN-9.34	9,34	36	125	44	9	6
F1352HUN-9.35	9,35	36	125	44	9	6
F1352HUN-9.36	9,36	36	125	44	9	6
F1352HUN-9.37	9,37	36	125	44	9	6
F1352HUN-9.38	9,38	36	125	44	9	6
F1352HUN-9.39	9,39	36	125	44	9	6
F1352HUN-9.41	9,41	36	125	44	9	6
F1352HUN-9.42	9,42	36	125	44	9	6
F1352HUN-9.43	9,43	36	125	44	9	6
F1352HUN-9.44	9,44	36	125	44	9	6
F1352HUN-9.45	9,45	36	125	44	9	6
F1352HUN-9.46	9,46	36	125	44	9	6
F1352HUN-9.47	9,47	36	125	44	9	6
F1352HUN-9.48	9,48	36	125	44	9	6

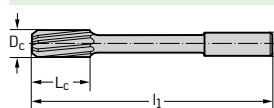
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

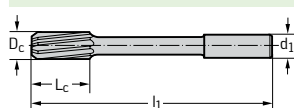
Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-9.49	9,49	36	125	44	9	6
F1352HUN-9.51	9,51	38	133	46	10	6
F1352HUN-9.52	9,52	38	133	46	10	6
F1352HUN-9.53	9,53	38	133	46	10	6
F1352HUN-9.54	9,54	38	133	46	10	6
F1352HUN-9.55	9,55	38	133	46	10	6
F1352HUN-9.56	9,56	38	133	46	10	6
F1352HUN-9.57	9,57	38	133	46	10	6
F1352HUN-9.58	9,58	38	133	46	10	6
F1352HUN-9.59	9,59	38	133	46	10	6
F1352HUN-9.61	9,61	38	133	46	10	6
F1352HUN-9.62	9,62	38	133	46	10	6
F1352HUN-9.63	9,63	38	133	46	10	6
F1352HUN-9.64	9,64	38	133	46	10	6
F1352HUN-9.65	9,65	38	133	46	10	6
F1352HUN-9.66	9,66	38	133	46	10	6
F1352HUN-9.67	9,67	38	133	46	10	6
F1352HUN-9.68	9,68	38	133	46	10	6
F1352HUN-9.69	9,69	38	133	46	10	6
F1352HUN-9.71	9,71	38	133	46	10	6
F1352HUN-9.72	9,72	38	133	46	10	6
F1352HUN-9.73	9,73	38	133	46	10	6
F1352HUN-9.74	9,74	38	133	46	10	6
F1352HUN-9.75	9,75	38	133	46	10	6
F1352HUN-9.76	9,76	38	133	46	10	6
F1352HUN-9.77	9,77	38	133	46	10	6
F1352HUN-9.78	9,78	38	133	46	10	6
F1352HUN-9.79	9,79	38	133	46	10	6
F1352HUN-9.81	9,81	38	133	46	10	6
F1352HUN-9.82	9,82	38	133	46	10	6
F1352HUN-9.83	9,83	38	133	46	10	6
F1352HUN-9.84	9,84	38	133	46	10	6
F1352HUN-9.85	9,85	38	133	46	10	6
F1352HUN-9.86	9,86	38	133	46	10	6
F1352HUN-9.87	9,87	38	133	46	10	6
F1352HUN-9.88	9,88	38	133	46	10	6
F1352HUN-9.89	9,89	38	133	46	10	6
F1352HUN-9.91	9,91	38	133	46	10	6
F1352HUN-9.92	9,92	38	133	46	10	6
F1352HUN-9.93	9,93	38	133	46	10	6
F1352HUN-9.94	9,94	38	133	46	10	6
F1352HUN-9.95	9,95	38	133	46	10	6
F1352HUN-9.96	9,96	38	133	46	10	6
F1352HUN-9.97	9,97	38	133	46	10	6
F1352HUN-9.98	9,98	38	133	46	10	6
F1352HUN-9.99	9,99	38	133	46	10	6

B3

WALTER
SELECT

●● Aplicação principal ● Aplicação secundária
 Ferramenta ideal para condições de usinagem → boas = 😊 → medianas = 😐 → ruins = 😞

Ferramenta



Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-10	10	38	133	46	10	6
F1352HUN-10.01	10,01	38	133	46	10	6
F1352HUN-10.02	10,02	38	133	46	10	6
F1352HUN-10.03	10,03	38	133	46	10	6
F1352HUN-10.04	10,04	38	133	46	10	6
F1352HUN-10.05	10,05	38	133	46	10	6
F1352HUN-10.06	10,06	38	133	46	10	6
F1352HUN-10.07	10,07	38	133	46	10	6
F1352HUN-10.08	10,08	38	133	46	10	6
F1352HUN-10.09	10,09	38	133	46	10	6
F1352HUN-10.1	10,1	38	133	46	10	6
F1352HUN-10.11	10,11	38	133	46	10	6
F1352HUN-10.12	10,12	38	133	46	10	6
F1352HUN-10.13	10,13	38	133	46	10	6
F1352HUN-10.14	10,14	38	133	46	10	6
F1352HUN-10.15	10,15	38	133	46	10	6
F1352HUN-10.16	10,16	38	133	46	10	6
F1352HUN-10.17	10,17	38	133	46	10	6
F1352HUN-10.18	10,18	38	133	46	10	6
F1352HUN-10.19	10,19	38	133	46	10	6
F1352HUN-10.2	10,2	38	133	46	10	6
F1352HUN-10.21	10,21	38	133	46	10	6
F1352HUN-10.22	10,22	38	133	46	10	6
F1352HUN-10.23	10,23	38	133	46	10	6
F1352HUN-10.24	10,24	38	133	46	10	6
F1352HUN-10.25	10,25	38	133	46	10	6
F1352HUN-10.26	10,26	38	133	46	10	6
F1352HUN-10.27	10,27	38	133	46	10	6
F1352HUN-10.28	10,28	38	133	46	10	6
F1352HUN-10.29	10,29	38	133	46	10	6
F1352HUN-10.31	10,31	38	133	46	10	6
F1352HUN-10.32	10,32	38	133	46	10	6
F1352HUN-10.33	10,33	38	133	46	10	6
F1352HUN-10.34	10,34	38	133	46	10	6
F1352HUN-10.35	10,35	38	133	46	10	6
F1352HUN-10.36	10,36	38	133	46	10	6
F1352HUN-10.37	10,37	38	133	46	10	6
F1352HUN-10.38	10,38	38	133	46	10	6
F1352HUN-10.39	10,39	38	133	46	10	6
F1352HUN-10.41	10,41	38	133	46	10	6
F1352HUN-10.42	10,42	38	133	46	10	6
F1352HUN-10.43	10,43	38	133	46	10	6
F1352HUN-10.44	10,44	38	133	46	10	6
F1352HUN-10.45	10,45	38	133	46	10	6
F1352HUN-10.46	10,46	38	133	46	10	6
F1352HUN-10.47	10,47	38	133	46	10	6

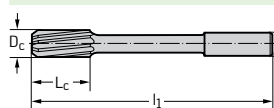
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-10.48	10,48	38	133	46	10	6
F1352HUN-10.49	10,49	38	133	46	10	6
F1352HUN-10.51	10,51	38	133	46	10	6
F1352HUN-10.52	10,52	38	133	46	10	6
F1352HUN-10.53	10,53	38	133	46	10	6
F1352HUN-10.54	10,54	38	133	46	10	6
F1352HUN-10.55	10,55	38	133	46	10	6
F1352HUN-10.56	10,56	38	133	46	10	6
F1352HUN-10.57	10,57	38	133	46	10	6
F1352HUN-10.58	10,58	38	133	46	10	6
F1352HUN-10.59	10,59	38	133	46	10	6
F1352HUN-10.61	10,61	41	142	46	10	6
F1352HUN-10.62	10,62	41	142	46	10	6
F1352HUN-10.63	10,63	41	142	46	10	6
F1352HUN-10.64	10,64	41	142	46	10	6
F1352HUN-10.65	10,65	41	142	46	10	6
F1352HUN-10.66	10,66	41	142	46	10	6
F1352HUN-10.67	10,67	41	142	46	10	6
F1352HUN-10.68	10,68	41	142	46	10	6
F1352HUN-10.69	10,69	41	142	46	10	6
F1352HUN-10.71	10,71	41	142	46	10	6
F1352HUN-10.72	10,72	41	142	46	10	6
F1352HUN-10.73	10,73	41	142	46	10	6
F1352HUN-10.74	10,74	41	142	46	10	6
F1352HUN-10.75	10,75	41	142	46	10	6
F1352HUN-10.76	10,76	41	142	46	10	6
F1352HUN-10.77	10,77	41	142	46	10	6
F1352HUN-10.78	10,78	41	142	46	10	6
F1352HUN-10.79	10,79	41	142	46	10	6
F1352HUN-10.81	10,81	41	142	46	10	6
F1352HUN-10.82	10,82	41	142	46	10	6
F1352HUN-10.83	10,83	41	142	46	10	6
F1352HUN-10.84	10,84	41	142	46	10	6
F1352HUN-10.85	10,85	41	142	46	10	6
F1352HUN-10.86	10,86	41	142	46	10	6
F1352HUN-10.87	10,87	41	142	46	10	6
F1352HUN-10.88	10,88	41	142	46	10	6
F1352HUN-10.89	10,89	41	142	46	10	6
F1352HUN-10.91	10,91	41	142	46	10	6
F1352HUN-10.92	10,92	41	142	46	10	6
F1352HUN-10.93	10,93	41	142	46	10	6
F1352HUN-10.94	10,94	41	142	46	10	6
F1352HUN-10.95	10,95	41	142	46	10	6
F1352HUN-10.96	10,96	41	142	46	10	6
F1352HUN-10.97	10,97	41	142	46	10	6
F1352HUN-10.98	10,98	41	142	46	10	6

B3

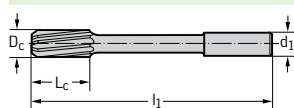
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

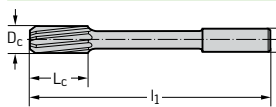
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
F1352HUN-10.99	10.99	41	142	46	10	6
F1352HUN-11.01	11.01	41	142	46	10	6
F1352HUN-11.02	11.02	41	142	46	10	6
F1352HUN-11.03	11.03	41	142	46	10	6
F1352HUN-11.04	11.04	41	142	46	10	6
F1352HUN-11.05	11.05	41	142	46	10	6
F1352HUN-11.06	11.06	41	142	46	10	6
F1352HUN-11.07	11.07	41	142	46	10	6
F1352HUN-11.08	11.08	41	142	46	10	6
F1352HUN-11.09	11.09	41	142	46	10	6
F1352HUN-11.1	11.1	41	142	46	10	6
F1352HUN-11.11	11.11	41	142	46	10	6
F1352HUN-11.12	11.12	41	142	46	10	6
F1352HUN-11.13	11.13	41	142	46	10	6
F1352HUN-11.14	11.14	41	142	46	10	6
F1352HUN-11.15	11.15	41	142	46	10	6
F1352HUN-11.16	11.16	41	142	46	10	6
F1352HUN-11.17	11.17	41	142	46	10	6
F1352HUN-11.18	11.18	41	142	46	10	6
F1352HUN-11.19	11.19	41	142	46	10	6
F1352HUN-11.2	11.2	41	142	46	10	6
F1352HUN-11.21	11.21	41	142	46	10	6
F1352HUN-11.22	11.22	41	142	46	10	6
F1352HUN-11.23	11.23	41	142	46	10	6
F1352HUN-11.24	11.24	41	142	46	10	6
F1352HUN-11.25	11.25	41	142	46	10	6
F1352HUN-11.26	11.26	41	142	46	10	6
F1352HUN-11.27	11.27	41	142	46	10	6
F1352HUN-11.28	11.28	41	142	46	10	6
F1352HUN-11.29	11.29	41	142	46	10	6
F1352HUN-11.3	11.3	41	142	46	10	6
F1352HUN-11.31	11.31	41	142	46	10	6
F1352HUN-11.32	11.32	41	142	46	10	6
F1352HUN-11.33	11.33	41	142	46	10	6
F1352HUN-11.34	11.34	41	142	46	10	6
F1352HUN-11.35	11.35	41	142	46	10	6
F1352HUN-11.36	11.36	41	142	46	10	6
F1352HUN-11.37	11.37	41	142	46	10	6
F1352HUN-11.38	11.38	41	142	46	10	6
F1352HUN-11.39	11.39	41	142	46	10	6
F1352HUN-11.4	11.4	41	142	46	10	6
F1352HUN-11.41	11.41	41	142	46	10	6
F1352HUN-11.42	11.42	41	142	46	10	6
F1352HUN-11.43	11.43	41	142	46	10	6
F1352HUN-11.44	11.44	41	142	46	10	6
F1352HUN-11.45	11.45	41	142	46	10	6

Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	l ₅ mm	d ₁ h9 mm	Z EA
	Cylindrical shank	F1352HUN-11.46	11,46	41	142	46	10	6
		F1352HUN-11.47	11,47	41	142	46	10	6
		F1352HUN-11.48	11,48	41	142	46	10	6
		F1352HUN-11.49	11,49	41	142	46	10	6
		F1352HUN-11.51	11,51	41	142	46	10	6
		F1352HUN-11.52	11,52	41	142	46	10	6
		F1352HUN-11.53	11,53	41	142	46	10	6
		F1352HUN-11.54	11,54	41	142	46	10	6
		F1352HUN-11.55	11,55	41	142	46	10	6
		F1352HUN-11.56	11,56	41	142	46	10	6
		F1352HUN-11.57	11,57	41	142	46	10	6
		F1352HUN-11.58	11,58	41	142	46	10	6
		F1352HUN-11.59	11,59	41	142	46	10	6
		F1352HUN-11.6	11,6	41	142	46	10	6
		F1352HUN-11.61	11,61	41	142	46	10	6
		F1352HUN-11.62	11,62	41	142	46	10	6
		F1352HUN-11.63	11,63	41	142	46	10	6
		F1352HUN-11.64	11,64	41	142	46	10	6
		F1352HUN-11.65	11,65	41	142	46	10	6
		F1352HUN-11.66	11,66	41	142	46	10	6
		F1352HUN-11.67	11,67	41	142	46	10	6
		F1352HUN-11.68	11,68	41	142	46	10	6
		F1352HUN-11.69	11,69	41	142	46	10	6
		F1352HUN-11.7	11,7	41	142	46	10	6
		F1352HUN-11.71	11,71	41	142	46	10	6
		F1352HUN-11.72	11,72	41	142	46	10	6
		F1352HUN-11.73	11,73	41	142	46	10	6
		F1352HUN-11.74	11,74	41	142	46	10	6
		F1352HUN-11.75	11,75	41	142	46	10	6
		F1352HUN-11.76	11,76	41	142	46	10	6
		F1352HUN-11.77	11,77	41	142	46	10	6
		F1352HUN-11.78	11,78	41	142	46	10	6
		F1352HUN-11.79	11,79	41	142	46	10	6
		F1352HUN-11.8	11,8	41	142	46	10	6
		F1352HUN-11.81	11,81	44	151	46	10	6
		F1352HUN-11.82	11,82	44	151	46	10	6
		F1352HUN-11.83	11,83	44	151	46	10	6
		F1352HUN-11.84	11,84	44	151	46	10	6
		F1352HUN-11.85	11,85	44	151	46	10	6
		F1352HUN-11.86	11,86	44	151	46	10	6
		F1352HUN-11.87	11,87	44	151	46	10	6
		F1352HUN-11.88	11,88	44	151	46	10	6
		F1352HUN-11.89	11,89	44	151	46	10	6
		F1352HUN-11.9	11,9	44	151	46	10	6
		F1352HUN-11.91	11,91	44	151	46	10	6
		F1352HUN-11.92	11,92	44	151	46	10	6
		F1352HUN-11.93	11,93	44	151	46	10	6
		F1352HUN-11.94	11,94	44	151	46	10	6
		F1352HUN-11.95	11,95	44	151	46	10	6
		F1352HUN-11.96	11,96	44	151	46	10	6
		F1352HUN-11.97	11,97	44	151	46	10	6
		F1352HUN-11.98	11,98	44	151	46	10	6
		F1352HUN-11.99	11,99	44	151	46	10	6
		F1352HUN-12	12	44	151	46	10	6

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

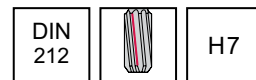
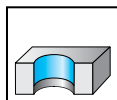
→ boas = 😊 → medianas = 😐 → ruins = 😞

Alargadores para máquinas de HSS

F1352

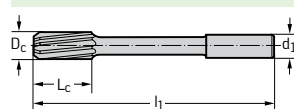


- Norma Walter até Ø 1,3 mm
- Com ponta de centragem nas duas extremidades até Ø 3,7 mm



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta



Cylindrical shank

Denominação

D_c
mm

L_c
mm

l₁
mm

d₁
h9
mm

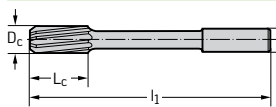
Z
EA

F1352-0.9	0,9	6	34	1	3
F1352-1	1	6	34	1	3
F1352-1.1	1,1	7	36	1	3
F1352-1.2	1,2	8	38	1	3
F1352-1.3	1,3	8	38	1	3
F1352-1.4	1,4	8	40	1	3
F1352-1.5	1,5	8	40	2	3
F1352-1.6	1,6	9	43	2	3
F1352-1.7	1,7	9	43	2	3
F1352-1.8	1,8	10	46	2	4
F1352-1.9	1,9	10	46	2	4
F1352-2	2	11	49	2	4
F1352-2.1	2,1	11	49	2	4
F1352-2.2	2,2	12	53	2	4
F1352-2.3	2,3	12	53	2	4
F1352-2.4	2,4	14	57	2	4
F1352-2.5	2,5	14	57	3	4
F1352-2.6	2,6	14	57	3	4
F1352-2.7	2,7	15	61	3	6
F1352-2.8	2,8	15	61	3	6
F1352-2.9	2,9	15	61	3	6
F1352-3	3	15	61	3	6
F1352-3.1	3,1	16	65	3	6
F1352-3.2	3,2	16	65	3	6
F1352-3.3	3,3	16	65	3	6
F1352-3.4	3,4	18	70	3	6
F1352-3.5	3,5	18	70	4	6
F1352-3.6	3,6	18	70	4	6
F1352-3.7	3,7	18	70	4	6
F1352-3.8	3,8	19	75	4	6
F1352-3.9	3,9	19	75	4	6
F1352-4	4	19	75	4	6
F1352-4.1	4,1	19	75	4	6
F1352-4.2	4,2	19	75	4	6
F1352-4.3	4,3	21	80	5	6
F1352-4.4	4,4	21	80	5	6

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	d ₁ h9 mm	Z EA
	Cylindrical shank	F1352-4.5	4,5	21	80	5	6
		F1352-4.6	4,6	21	80	5	6
		F1352-4.7	4,7	21	80	5	6
		F1352-4.8	4,8	23	86	5	6
		F1352-4.9	4,9	23	86	5	6
		F1352-5	5	23	86	5	6
		F1352-5.1	5,1	23	86	5	6
		F1352-5.2	5,2	23	86	5	6
		F1352-5.3	5,3	23	86	5	6
		F1352-5.4	5,4	26	93	6	6
		F1352-5.5	5,5	26	93	6	6
		F1352-5.6	5,6	26	93	6	6
		F1352-5.7	5,7	26	93	6	6
		F1352-5.8	5,8	26	93	6	6
		F1352-5.9	5,9	26	93	6	6
		F1352-6	6	26	93	6	6
		F1352-6.1	6,1	28	101	6	6
		F1352-6.2	6,2	28	101	6	6
		F1352-6.3	6,3	28	101	6	6
		F1352-6.4	6,4	28	101	6	6
		F1352-6.5	6,5	28	101	6	6
		F1352-6.6	6,6	28	101	6	6
		F1352-6.7	6,7	28	101	6	6
		F1352-6.8	6,8	31	109	7	6
		F1352-6.9	6,9	31	109	7	6
		F1352-7	7	31	109	7	6
		F1352-7.1	7,1	31	109	7	6
		F1352-7.2	7,2	31	109	7	6
		F1352-7.3	7,3	31	109	7	6
		F1352-7.4	7,4	31	109	7	6
		F1352-7.5	7,5	31	109	7	6
		F1352-7.6	7,6	33	117	8	6
		F1352-7.7	7,7	33	117	8	6
		F1352-7.8	7,8	33	117	8	6
		F1352-7.9	7,9	33	117	8	6
		F1352-8	8	33	117	8	6
		F1352-8.1	8,1	33	117	8	6
		F1352-8.2	8,2	33	117	8	6
		F1352-8.3	8,3	33	117	8	6
		F1352-8.4	8,4	33	117	8	6
		F1352-8.5	8,5	33	117	8	6
		F1352-8.6	8,6	36	125	9	6
		F1352-8.7	8,7	36	125	9	6
		F1352-8.8	8,8	36	125	9	6
		F1352-8.9	8,9	36	125	9	6
		F1352-9	9	36	125	9	6

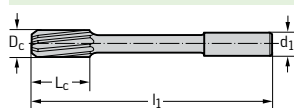
B3

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

 ●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

Denominação

D_c
mm

L_c
mm

l₁
mm

d₁
h9
mm

Z
EA

F1352-9.1	9,1	36	125	9	6
F1352-9.2	9,2	36	125	9	6
F1352-9.3	9,3	36	125	9	6
F1352-9.4	9,4	36	125	9	6
F1352-9.5	9,5	36	125	9	6
F1352-9.6	9,6	38	133	10	6
F1352-9.7	9,7	38	133	10	6
F1352-9.8	9,8	38	133	10	6
F1352-9.9	9,9	38	133	10	6
F1352-10	10	38	133	10	6
F1352-10.1	10,1	38	133	10	6
F1352-10.2	10,2	38	133	10	6
F1352-10.3	10,3	38	133	10	6
F1352-10.4	10,4	38	133	10	6
F1352-10.5	10,5	38	133	10	6
F1352-10.6	10,6	38	133	10	6
F1352-10.7	10,7	41	142	10	6
F1352-10.8	10,8	41	142	10	6
F1352-10.9	10,9	41	142	10	6
F1352-11	11	41	142	10	6
F1352-11.5	11,5	41	142	10	6
F1352-12	12	44	151	10	6
F1352-12.5	12,5	44	151	10	6
F1352-13	13	44	151	10	6
F1352-13.5	13,5	47	160	13	8
F1352-14	14	47	160	13	8
F1352-14.5	14,5	50	162	13	8
F1352-15	15	50	162	13	8
F1352-15.5	15,5	52	170	13	8
F1352-16	16	52	170	13	8
F1352-16.5	16,5	54	175	14	8
F1352-17	17	54	175	14	8
F1352-17.5	17,5	56	182	14	8
F1352-18	18	56	182	14	8
F1352-18.5	18,5	58	189	16	8
F1352-19	19	58	189	16	8
F1352-19.5	19,5	60	195	16	8
F1352-20	20	60	195	16	8

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

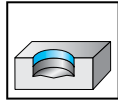
→ boas = 😊 → medianas = 😐 → ruins = 😞

Alargadores para máquinas de HSS

F1342



- Norma Walter até Ø 2,1 mm
- Com ponta de centragem nas duas extremidades até Ø 3,7 mm

DIN
212

H7

	P	M	K	N	S	H	O
não revestido	●●	●	●●	●●	●	●	●●

Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	d ₁ h9 mm	Z EA
 Cylindrical shank		F1342-1	1	6	34	1	3
		F1342-1.1	1,1	7	36	1	3
		F1342-1.2	1,2	7	36	1	3
		F1342-1.3	1,3	8	38	1	3
		F1342-1.4	1,4	8	40	1	3
		F1342-1.5	1,5	8	40	1	3
		F1342-1.6	1,6	9	43	2	3
		F1342-1.7	1,7	9	43	2	3
		F1342-1.8	1,8	10	46	2	4
		F1342-1.9	1,9	10	46	2	4
		F1342-2	2	11	49	2	4
		F1342-2.1	2,1	11	49	2	4
		F1342-2.2	2,2	12	53	2	4
		F1342-2.3	2,3	12	53	2	4
		F1342-2.4	2,4	14	57	2	4
		F1342-2.5	2,5	14	57	3	4
		F1342-2.6	2,6	14	57	3	4
		F1342-2.7	2,7	15	61	3	6
		F1342-2.8	2,8	15	61	3	6
		F1342-2.9	2,9	15	61	3	6
		F1342-3	3	15	61	3	6
		F1342-3.1	3,1	16	65	3	6
		F1342-3.2	3,2	16	65	3	6
		F1342-3.3	3,3	16	65	3	6
		F1342-3.4	3,4	18	70	3	6
		F1342-3.5	3,5	18	70	4	6
		F1342-3.6	3,6	18	70	4	6
		F1342-3.7	3,7	18	70	4	6
		F1342-3.8	3,8	19	75	4	6
		F1342-3.9	3,9	19	75	4	6
		F1342-4	4	19	75	4	6
		F1342-4.1	4,1	19	75	4	6
		F1342-4.2	4,2	19	75	4	6
		F1342-4.3	4,3	21	80	5	6
		F1342-4.4	4,4	21	80	5	6
		F1342-4.5	4,5	21	80	5	6

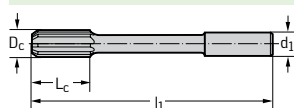
B3

WALTER
SELECT

Ferramenta ideal para condições de usinagem

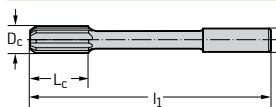
●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	d ₁ h9 mm	Z EA
F1342-4.6	4,6	21	80	5	6
F1342-4.7	4,7	21	80	5	6
F1342-4.8	4,8	23	86	5	6
F1342-4.9	4,9	23	86	5	6
F1342-5	5	23	86	5	6
F1342-5.1	5,1	23	86	5	6
F1342-5.2	5,2	23	86	5	6
F1342-5.3	5,3	23	86	5	6
F1342-5.4	5,4	26	93	6	6
F1342-5.5	5,5	26	93	6	6
F1342-5.6	5,6	26	93	6	6
F1342-5.7	5,7	26	93	6	6
F1342-5.8	5,8	26	93	6	6
F1342-5.9	5,9	26	93	6	6
F1342-6	6	26	93	6	6
F1342-6.1	6,1	28	101	6	6
F1342-6.2	6,2	28	101	6	6
F1342-6.3	6,3	28	101	6	6
F1342-6.4	6,4	28	101	6	6
F1342-6.5	6,5	28	101	6	6
F1342-6.6	6,6	28	101	6	6
F1342-6.7	6,7	28	101	6	6
F1342-6.8	6,8	31	109	7	6
F1342-6.9	6,9	31	109	7	6
F1342-7	7	31	109	7	6
F1342-7.1	7,1	31	109	7	6
F1342-7.2	7,2	31	109	7	6
F1342-7.3	7,3	31	109	7	6
F1342-7.4	7,4	31	109	7	6
F1342-7.5	7,5	31	109	7	6
F1342-7.6	7,6	33	117	8	6
F1342-7.7	7,7	33	117	8	6
F1342-7.8	7,8	33	117	8	6
F1342-7.9	7,9	33	117	8	6
F1342-8	8	33	117	8	6
F1342-8.1	8,1	33	117	8	6
F1342-8.2	8,2	33	117	8	6
F1342-8.3	8,3	33	117	8	6
F1342-8.4	8,4	33	117	8	6
F1342-8.5	8,5	33	117	8	6
F1342-8.6	8,6	36	125	9	6
F1342-8.7	8,7	36	125	9	6
F1342-8.8	8,8	36	125	9	6
F1342-8.9	8,9	36	125	9	6
F1342-9	9	36	125	9	6
F1342-9.1	9,1	36	125	9	6

Ferramenta		Denominação	D _c mm	L _c mm	l ₁ mm	d ₁ h9 mm	Z EA
	Cylindrical shank	F1342-9.2	9,2	36	125	9	6
		F1342-9.3	9,3	36	125	9	6
		F1342-9.4	9,4	36	125	9	6
		F1342-9.5	9,5	36	125	9	6
		F1342-9.6	9,6	38	133	10	6
		F1342-9.7	9,7	38	133	10	6
		F1342-9.8	9,8	38	133	10	6
		F1342-9.9	9,9	38	133	10	6
		F1342-10	10	38	133	10	6
		F1342-10.1	10,1	38	133	10	6
		F1342-10.2	10,2	38	133	10	6
		F1342-10.3	10,3	38	133	10	6
		F1342-10.4	10,4	38	133	10	6
		F1342-10.5	10,5	38	133	10	6
		F1342-10.6	10,6	38	133	10	6
		F1342-10.7	10,7	41	142	10	6
		F1342-10.8	10,8	41	142	10	6
		F1342-10.9	10,9	41	142	10	6
		F1342-11	11	41	142	10	6
		F1342-11.5	11,5	41	142	10	6
		F1342-12	12	44	151	10	6
		F1342-12.5	12,5	44	151	10	6
		F1342-13	13	44	151	10	6
		F1342-13.5	13,5	47	160	13	6
		F1342-14	14	47	160	13	8
		F1342-14.5	14,5	50	162	13	8
		F1342-15	15	50	162	13	8
		F1342-15.5	15,5	52	170	13	8
		F1342-16	16	52	170	13	8
		F1342-16.5	16,5	54	175	14	8
		F1342-17	17	54	175	14	8
		F1342-17.5	17,5	56	182	14	8
		F1342-18	18	56	182	14	8
		F1342-18.5	18,5	58	189	16	8
		F1342-19	19	58	189	16	8
		F1342-19.5	19,5	60	195	16	8
		F1342-20	20	60	195	16	8

B3

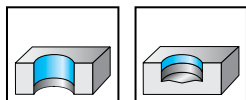
Alargadores cônicos para máquinas de HSS

F3234



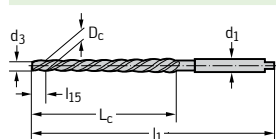
– Para pinos cônicos conforme a DIN EN 28736/ 28737/ 28744
– Para pinos cônicos conforme a DIN 258 / 1447 / 7977 / 7978

DIN
2179

1:50


	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta



Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	l ₁₅ mm	d ₁ h9 mm	d ₃ mm	Z EA
F3234-1	1	33	60	5	1,4	0,9	2
F3234-1.5	1,5	42	70	5	2,1	1,4	2
F3234-2	2	48	86	5	3,2	1,9	3
F3234-2.5	2,5	48	86	5	3,2	2,4	3
F3234-3	3	58	100	5	4	2,9	3
F3234-4	4	68	112	5	5	3,9	3
F3234-5	5	73	122	5	6,3	4,9	3
F3234-6	6	105	160	5	8	5,9	3
F3234-8	8	145	207	5	10	7,9	3
F3234-10	10	175	245	5	12,5	9,9	3
F3234-12	12	210	290	10	16	11,8	3

WALTER
SELECT

Ferramenta ideal para condições de usinagem

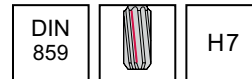
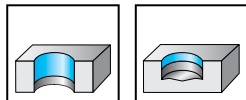
●● Aplicação principal ● Aplicação secundária
→ boas = 😊 → medianas = 😐 → ruins = ☹️

Alargadores manuais ajustáveis de HSS

F1231

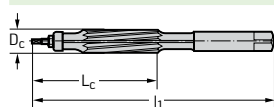


– Faixa de ajuste: $0,01 \times D_c$



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta



Parallel shank

Denominação	D_c mm	L_c mm	l_1 mm	Z EA
F1231-8	8	42	115	9
F1231-9	9	46	124	9
F1231-10	10	50	133	9
F1231-11	11	51	142	9
F1231-12	12	56	152	9
F1231-13	13	56	152	9
F1231-14	14	61	163	9
F1231-15	15	61	163	9
F1231-16	16	67	175	9
F1231-17	17	67	175	9
F1231-18	18	68	188	9
F1231-19	19	68	188	9
F1231-20	20	75	201	9
F1231-22	22	82	215	12
F1231-24	24	85	231	12
F1231-25	25	85	231	12
F1231-26	26	85	231	12
F1231-28	28	94	247	12
F1231-30	30	94	247	12

B 3

**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

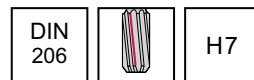
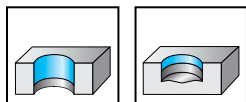
●● Aplicação principal ● Aplicação secundária
 → boas = 😊 → medianas = 😐 → ruins = ☹️

Alargadores manuais de HSS

F1131

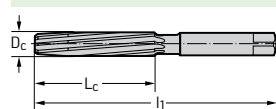


– Chanfro longo



	P	M	K	N	S	H	O
não revestido	●●	●●	●●	●●	●●	●●	●●

Ferramenta



Cylindrical shank

Denominação

D_c
mm

L_c
mm

l₁
mm

Z
EA

F1131-1	1	13	34	3
F1131-1.2	1.2	17	38	3
F1131-1.4	1.4	20	41	3
F1131-1.5	1.5	20	41	3
F1131-1.6	1.6	21	44	3
F1131-1.7	1.7	21	44	3
F1131-1.8	1.8	23	47	4
F1131-1.9	1.9	23	47	4
F1131-2	2	25	50	4
F1131-2.1	2.1	25	50	4
F1131-2.2	2.2	27	54	4
F1131-2.3	2.3	27	54	4
F1131-2.4	2.4	29	58	4
F1131-2.5	2.5	29	58	4
F1131-2.6	2.6	29	58	4
F1131-2.7	2.7	31	62	6
F1131-2.8	2.8	31	62	6
F1131-2.9	2.9	31	62	6
F1131-3	3	31	62	6
F1131-3.1	3.1	33	66	6
F1131-3.2	3.2	33	66	6
F1131-3.3	3.3	33	66	6
F1131-3.4	3.4	35	71	6
F1131-3.5	3.5	35	71	6
F1131-3.6	3.6	35	71	6
F1131-3.7	3.7	35	71	6
F1131-3.8	3.8	38	76	6
F1131-3.9	3.9	38	76	6
F1131-4	4	38	76	6
F1131-4.1	4.1	38	76	6
F1131-4.2	4.2	38	76	6
F1131-4.3	4.3	41	81	6
F1131-4.4	4.4	41	81	6
F1131-4.5	4.5	41	81	6
F1131-4.6	4.6	41	81	6
F1131-4.7	4.7	41	81	6

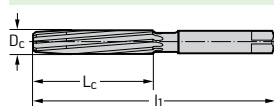
**WALTER
SELECT**

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	Z EA
F1131-4.8	4,8	44	87	6
F1131-4.9	4,9	44	87	6
F1131-5	5	44	87	6
F1131-5.1	5,1	44	87	6
F1131-5.2	5,2	44	87	6
F1131-5.4	5,4	47	93	6
F1131-5.5	5,5	47	93	6
F1131-5.6	5,6	47	93	6
F1131-5.7	5,7	47	93	6
F1131-5.8	5,8	47	93	6
F1131-5.9	5,9	47	93	6
F1131-6	6	47	93	6
F1131-6.1	6,1	50	100	6
F1131-6.2	6,2	50	100	6
F1131-6.3	6,3	50	100	6
F1131-6.4	6,4	50	100	6
F1131-6.5	6,5	50	100	6
F1131-6.6	6,6	50	100	6
F1131-6.7	6,7	50	100	6
F1131-6.8	6,8	54	107	6
F1131-6.9	6,9	54	107	6
F1131-7	7	54	107	6
F1131-7.1	7,1	54	107	6
F1131-7.2	7,2	54	107	6
F1131-7.3	7,3	54	107	6
F1131-7.4	7,4	54	107	6
F1131-7.5	7,5	54	107	6
F1131-7.7	7,7	58	115	6
F1131-7.8	7,8	58	115	6
F1131-7.9	7,9	58	115	6
F1131-8	8	58	115	6
F1131-8.1	8,1	58	115	6
F1131-8.2	8,2	58	115	6
F1131-8.3	8,3	58	115	6
F1131-8.4	8,4	58	115	6
F1131-8.5	8,5	58	115	6
F1131-8.7	8,7	62	124	6
F1131-8.8	8,8	62	124	6
F1131-8.9	8,9	62	124	6
F1131-9	9	62	124	6
F1131-9.1	9,1	62	124	6
F1131-9.2	9,2	62	124	6
F1131-9.3	9,3	62	124	6
F1131-9.4	9,4	62	124	6
F1131-9.5	9,5	62	124	6
F1131-9.6	9,6	66	133	6

B 3

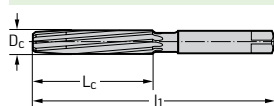
WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = ☹️

Ferramenta



Cylindrical shank

Denominação	D _c mm	L _c mm	l ₁ mm	Z EA
F1131-9.7	9,7	66	133	6
F1131-9.8	9,8	66	133	6
F1131-10	10	66	133	6
F1131-10.5	10,5	66	133	6
F1131-11	11	71	142	6
F1131-11.5	11,5	71	142	6
F1131-12	12	76	152	6
F1131-12.5	12,5	76	152	6
F1131-13	13	76	152	6
F1131-13.5	13,5	81	163	8
F1131-14	14	81	163	8
F1131-14.5	14,5	81	163	8
F1131-15	15	81	163	8
F1131-16	16	87	175	8
F1131-16.5	16,5	87	175	8
F1131-17	17	87	175	8
F1131-18	18	93	188	8
F1131-18.5	18,5	93	188	8
F1131-19	19	93	188	8
F1131-19.5	19,5	100	201	8
F1131-20	20	100	201	8
F1131-20.5	20,5	100	201	8
F1131-21	21	100	201	8
F1131-21.5	21,5	100	201	8
F1131-22	22	107	215	8
F1131-23	23	107	215	8
F1131-25	25	115	231	8
F1131-26	26	115	231	8
F1131-28	28	124	247	10
F1131-30	30	124	247	10
F1131-32	32	133	265	10

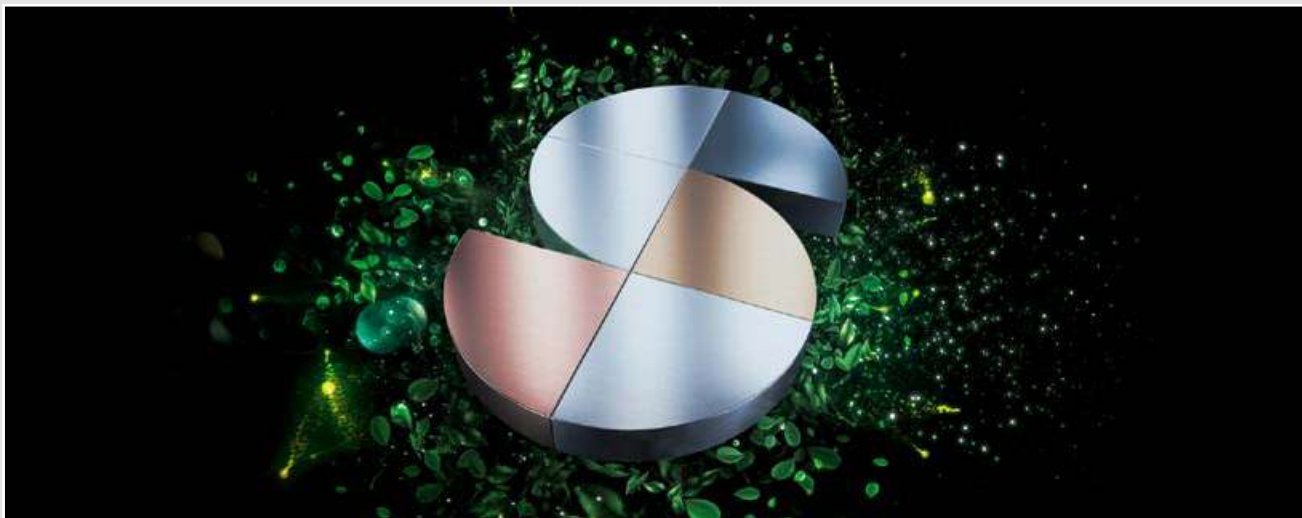
B3

WALTER
SELECT

Ferramenta ideal para condições de usinagem

●● Aplicação principal ● Aplicação secundária

→ boas = 😊 → medianas = 😐 → ruins = 😞



Produtos e serviços sustentáveis – certificados e transparentes

A Walter é uma empresa que se responsabiliza pelas pessoas e pelo meio ambiente. A sustentabilidade é um elemento central da nossa estratégia corporativa. Ela permeia os nossos produtos e as áreas da empresa e é verificada e certificada em intervalos regulares por terceiros independentes.

Comprovadamente fabricado de acordo com altos padrões

Todos os processos, procedimentos, métodos e recursos que utilizamos são verificados e avaliados por uma entidade independente de acordo com critérios severos: Segurança ocupacional, garantia de qualidade e ação ambientalmente amigável (por exemplo, por meio da compensação de CO₂ do nosso uso de energia) são exemplos disso. Nosso compromisso social mostra que Walter amplia muito mais a sua responsabilidade.

Transparência em toda a cadeia de processo – para que você fique seguro

O sistema de gestão integrado da Walter inclui o uso sustentável de recursos e meios de produção, bem como o trato com as pessoas – nossos clientes, parceiros e colaboradores. Para que você possa ter certeza de que todos os nossos produtos atendem a estes requisitos em toda a cadeia de processo, nossos próprios padrões também são aplicados em nossos fornecedores.

Certificações

O sistema de gestão integrado da Walter inclui certificações de acordo com:

- ISO 9001 (gestão da qualidade)
- ISO 14001 (gestão ambiental)
- ISO 45001 (gestão da segurança e saúde ocupacional)
- ISO 50001 (gestão de energia)
- Certificado de acordo com o Ecovadis Gold Standard e classificação NQC

Mais informações sobre
as certificações da Walter
podem ser encontradas aqui:



Segurança no trabalho e saúde ocupacional

A Walter protege seus colaboradores contra danos à saúde. A fim de evitar acidentes, revisamos constantemente nossos processos e adotamos medidas proativas para evitá-los.



Gestão ambiental e de energia

A proteção ambiental é uma meta corporativa importante para a Walter. Nós usamos a energia de forma eficiente e aplicamos métodos práticos que reduzem de forma sustentável o consumo de energia, água e recursos.



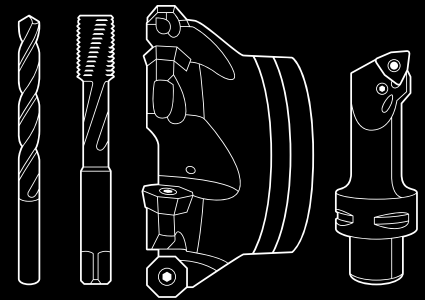
Gestão da qualidade

A Walter aprimora continuamente os seus produtos e processos. A qualidade dos nossos produtos é garantida por meio de medidas e procedimentos eficazes – sendo que ela é verificada regularmente através da nossa gestão de qualidade abrangente.

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