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Neuheiten / Innovations / Novità 2017

D HPC-Vollhartmetallbohrer
Speeddrill 4.0-Universal,
DIN 6537K, kurz 3xD,
4 Führungsfasen,
mit Innenkühlung

Einsatzbereich:

VHM-Hochleistungsbohrer mit Innenkühlkanälen für universelle Anwendungen. Hohe Stabilität und universelle Einsetzbarkeit durch gerade Hauptschneide. Spezialanschliff bewirkt optimalen Spanbruch, hohe Zentriergenauigkeit und geringe Schnittkräfte.

E HPC solid carbide stub drills
Speeddrill 4.0-Universal,
DIN 6537K, short series 3xD,
4 guide chamfers,
with internal coolant supply

Range of application:

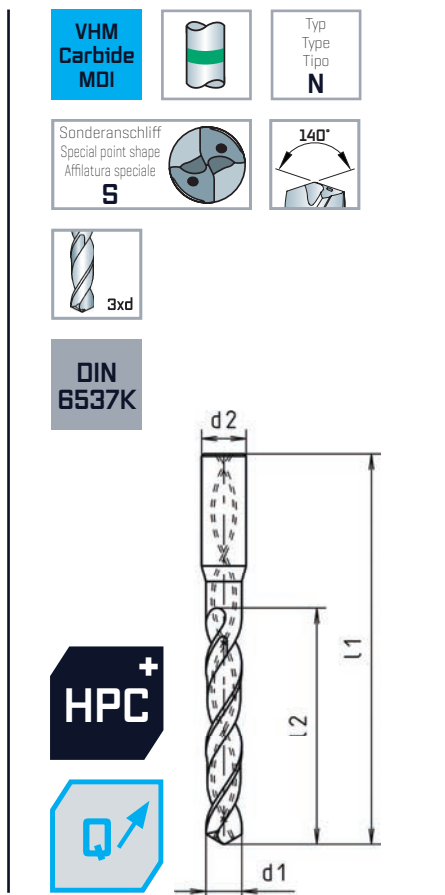
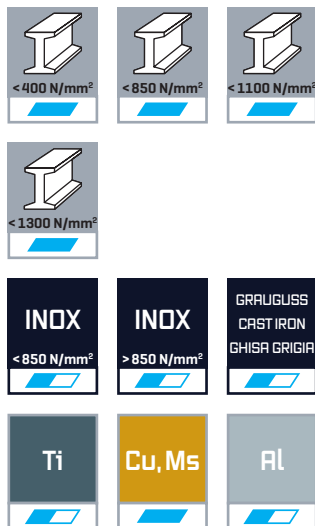
Solid carbide high performance drill with internal coolant supply for universal applications. High stability as well as universal usability due to straight main cutting edge. Special point shape effects optimum chip breakage, high centering accuracy and less cutting forces.

I HPC punte elicoidali MDI
Speeddrill 4.0-Universali,
DIN 6537K, serie corta 3xD,
4 superfici di guida svasate,
con fori lubrificazione

Impiego:

Punte MDI ad alto rendimento con fori di lubrificazione interni per applicazioni universali. Alta stabilità e utilizzo universale grazie alla affilatura piatta del tagliente principale. La geometria speciale della punta garantisce un'ottima evacuazione del truciolo, una elevata accuratezza di centraggio ed una minore forza di taglio.

UNIVERSAL 3xD



ANTRADUR

d1 _{h7} mm	d1 _{h7} inch	d2 _{h6} mm	l1 mm	l2 mm	Z	Code 6867 Art.-Nr.	€ %Gr.17A
3,00		6,00	62	20	2	0 6867003001 00	77,11
3,10		6,00	62	20	2	0 6867003101 00	77,11
3,17	1/8	6,00	62	20	2	0 6867003171 00	77,11
3,20		6,00	62	20	2	0 6867003201 00	77,11
3,25		6,00	62	20	2	0 6867003251 00	77,11
3,30		6,00	62	20	2	0 6867003301 00	77,11
3,38		6,00	62	20	2	0 6867003381 00	77,11
3,40		6,00	62	20	2	0 6867003401 00	77,11
3,50		6,00	62	20	2	0 6867003501 00	77,11
3,60		6,00	62	20	2	0 6867003601 00	77,11
3,65		6,00	62	20	2	0 6867003651 00	77,11

ANTRADUR

d1 _{h7} mm	d1 _{h7} inch	d2 _{h6} mm	l1 mm	l2 mm	Z	Code 6867 Art.-Nr.	€ %Gr.17A
3,70		6,00	62	20	2	0 6867003701 00	77,11
3,80		6,00	66	24	2	0 6867003801 00	77,11
3,90		6,00	66	24	2	0 6867003901 00	77,11
4,00		6,00	66	24	2	0 6867004001 00	77,11
4,10		6,00	66	24	2	0 6867004101 00	77,11
4,20		6,00	66	24	2	0 6867004201 00	77,11
4,30		6,00	66	24	2	0 6867004301 00	77,11
4,40		6,00	66	24	2	0 6867004401 00	77,11
4,50		6,00	66	24	2	0 6867004501 00	77,11
4,60		6,00	66	24	2	0 6867004601 00	77,11
4,65		6,00	66	24	2	0 6867004651 00	77,11

ANTRADUR
ANTRADUR

d1 _{h7} mm	d1 _{h7} inch	d2 _{h6} mm	l1 mm	l2 mm	Z	Code 6867 Art.-Nr.	€ %Gr.17A
4,70		6,00	66	24	2	0 6867004701 00	77,11
4,75		6,00	66	24	2	0 6867004751 00	77,11
4,76	3/16	6,00	66	28	2	0 6867004761 00	77,11
4,80		6,00	66	28	2	0 6867004801 00	77,11
4,90		6,00	66	28	2	0 6867004901 00	77,11
5,00		6,00	66	28	2	0 6867005001 00	77,11
5,10		6,00	66	28	2	0 6867005101 00	77,11
5,20		6,00	66	28	2	0 6867005201 00	77,11
5,25		6,00	66	28	2	0 6867005251 00	77,11
5,30		6,00	66	28	2	0 6867005301 00	77,11
5,40		6,00	66	28	2	0 6867005401 00	77,11
5,50		6,00	66	28	2	0 6867005501 00	77,11
5,60		6,00	66	28	2	0 6867005601 00	77,11
5,70		6,00	66	28	2	0 6867005701 00	77,11
5,75		6,00	66	28	2	0 6867005751 00	77,11
5,80		6,00	66	28	2	0 6867005801 00	77,11
5,90		6,00	66	28	2	0 6867005901 00	77,11
6,00		6,00	66	28	2	0 6867006001 00	77,11
6,10		8,00	79	34	2	0 6867006101 00	113,21
6,20		8,00	79	34	2	0 6867006201 00	113,21
6,30		8,00	79	34	2	0 6867006301 00	113,21
6,35	1/4	8,00	79	34	2	0 6867006351 00	113,21
6,40		8,00	79	34	2	0 6867006401 00	113,21
6,50		8,00	79	34	2	0 6867006501 00	113,21
6,60		8,00	79	34	2	0 6867006601 00	113,21
6,70		8,00	79	34	2	0 6867006701 00	113,21
6,80		8,00	79	34	2	0 6867006801 00	113,21
6,90		8,00	79	34	2	0 6867006901 00	113,21
7,00		8,00	79	34	2	0 6867007001 00	113,21
7,10		8,00	79	41	2	0 6867007101 00	113,21
7,20		8,00	79	41	2	0 6867007201 00	113,21
7,25		8,00	79	41	2	0 6867007251 00	113,21
7,30		8,00	79	41	2	0 6867007301 00	113,21
7,40		8,00	79	41	2	0 6867007401 00	113,21
7,45		8,00	79	41	2	0 6867007451 00	113,21
7,50		8,00	79	41	2	0 6867007501 00	113,21
7,60		8,00	79	41	2	0 6867007601 00	113,21
7,70		8,00	79	41	2	0 6867007701 00	113,21
7,75		8,00	79	41	2	0 6867007751 00	113,21
7,80		8,00	79	41	2	0 6867007801 00	113,21
7,90		8,00	79	41	2	0 6867007901 00	113,21
7,94	5/16	8,00	79	41	2	0 6867007941 00	113,21
8,00		8,00	79	41	2	0 6867008001 00	113,21
8,10		10,00	89	47	2	0 6867008101 00	140,00
8,20		10,00	89	47	2	0 6867008201 00	140,00
8,30		10,00	89	47	2	0 6867008301 00	140,00
8,40		10,00	89	47	2	0 6867008401 00	140,00
8,45		10,00	89	47	2	0 6867008451 00	140,00

d1 _{h7} mm	d1 _{h7} inch	d2 _{h6} mm	l1 mm	l2 mm	Z	Code 6867 Art.-Nr.	€ %Gr.17A
8,50		10,00	89	47	2	0 6867008501 00	140,00
8,60		10,00	89	47	2	0 6867008601 00	140,00
8,70		10,00	89	47	2	0 6867008701 00	140,00
8,80		10,00	89	47	2	0 6867008801 00	140,00
8,90		10,00	89	47	2	0 6867008901 00	140,00
9,00		10,00	89	47	2	0 6867009001 00	140,00
9,10		10,00	89	47	2	0 6867009101 00	140,00
9,20		10,00	89	47	2	0 6867009201 00	140,00
9,25		10,00	89	47	2	0 6867009251 00	140,00
9,30		10,00	89	47	2	0 6867009301 00	140,00
9,35		10,00	89	47	2	0 6867009351 00	140,00
9,40		10,00	89	47	2	0 6867009401 00	140,00
9,45		10,00	89	47	2	0 6867009451 00	140,00
9,50		10,00	89	47	2	0 6867009501 00	140,00
9,52	3/8	10,00	89	47	2	0 6867009521 00	140,00
9,60		10,00	89	47	2	0 6867009601 00	140,00
9,70		10,00	89	47	2	0 6867009701 00	140,00
9,75		10,00	89	47	2	0 6867009751 00	140,00
9,80		10,00	89	47	2	0 6867009801 00	140,00
9,90		10,00	89	47	2	0 6867009901 00	140,00
10,00		10,00	89	47	2	0 6867010001 00	140,00
10,10		12,00	102	55	2	0 6867010101 00	178,17
10,20		12,00	102	55	2	0 6867010201 00	178,17
10,25		12,00	102	55	2	0 6867010251 00	178,17
10,30		12,00	102	55	2	0 6867010301 00	178,17
10,40		12,00	102	55	2	0 6867010401 00	178,17
10,50		12,00	102	55	2	0 6867010501 00	178,17
10,60		12,00	102	55	2	0 6867010601 00	178,17
10,70		12,00	102	55	2	0 6867010701 00	178,17
10,75		12,00	102	55	2	0 6867010751 00	178,17
10,80		12,00	102	55	2	0 6867010801 00	178,17
10,90		12,00	102	55	2	0 6867010901 00	178,17
11,00		12,00	102	55	2	0 6867011001 00	178,17
11,10		12,00	102	55	2	0 6867011101 00	178,17
11,11	7/16	12,00	102	55	2	0 6867011111 00	178,17
11,20		12,00	102	55	2	0 6867011201 00	178,17
11,25		12,00	102	55	2	0 6867011251 00	178,17
11,30		12,00	102	55	2	0 6867011301 00	178,17
11,35		12,00	102	55	2	0 6867011351 00	178,17
11,40		12,00	102	55	2	0 6867011401 00	178,17
11,45		12,00	102	55	2	0 6867011451 00	178,17
11,50		12,00	102	55	2	0 6867011501 00	178,17
11,60		12,00	102	55	2	0 6867011601 00	178,17
11,70		12,00	102	55	2	0 6867011701 00	178,17
11,75		12,00	102	55	2	0 6867011751 00	178,17
11,80		12,00	102	55	2	0 6867011801 00	178,17
11,90		12,00	102	55	2	0 6867011901 00	178,17
12,00		12,00	102	55	2	0 6867012001 00	178,17

D HPC-Vollhartmetallbohrer Speeddrill 4.0-Universal, DIN 6537L, lang 5xD, 4 Führungsfasen, mit Innenkühlung

Einsatzbereich:

VHM-Hochleistungsbohrer mit Innenkühlkanälen für universelle Anwendungen. Hohe Stabilität und universelle Einsetzbarkeit durch gerade Hauptschneide. Spezialanschliff bewirkt optimalen Spanbruch, hohe Zentriergenauigkeit und geringe Schnittkräfte.

E HPC solid carbide stub drills Speeddrill 4.0-Universal, DIN 6537L, long series 5xD, 4 guide chamfers, with internal coolant supply

Range of application:

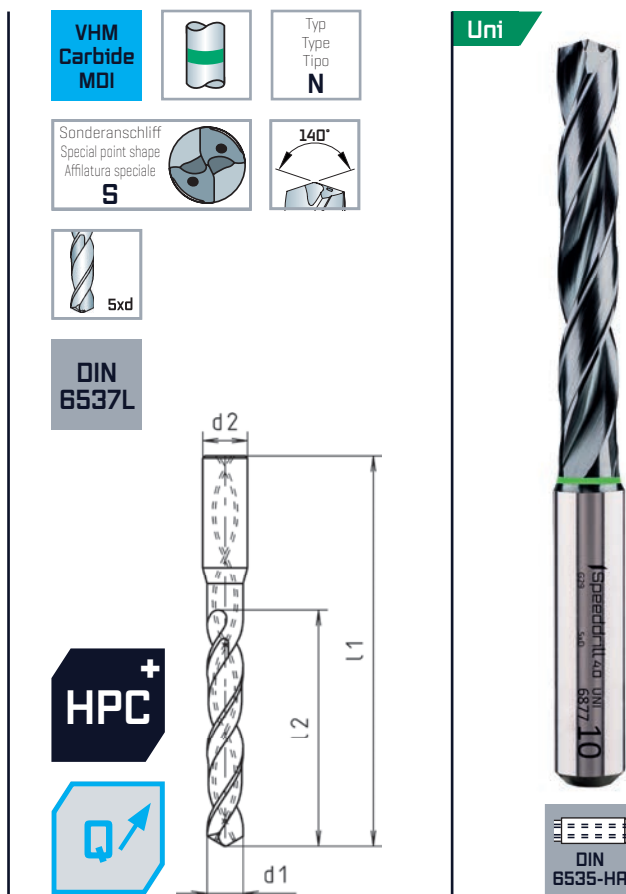
Solid carbide high performance drill with internal coolant supply for universal applications. High stability as well as universal usability due to straight main cutting edge. Special point shape effects optimum chip breakage, high centering accuracy and less cutting forces.

I HPC punte elicoidali MDI Speeddrill 4.0-Universali, DIN 6537L, serie lunga 5xD, 4 superfici di guida svasate, con fori lubrificazione

Impiego:

Punte MDI ad alto rendimento con fori di lubrificazione interni per applicazioni universali. Alta stabilità e utilizzo universale grazie alla particolare affilatura dei taglienti principali. La geometria speciale della punta garantisce un'ottima rottura del truciolo, una elevata accuratezza di centraggio ed una minore forza di taglio.

UNIVERSAL 5xD



ANTRADUR

d1 _{h7} mm	d1 _{h7} inch	d2 _{h6} mm	l1 mm	l2 mm	Z	Code 6877 Art.-Nr.	€ %Gr.17A
3,00		6,00	66	28	2	0 6877003001 00	97,28
3,10		6,00	66	28	2	0 6877003101 00	97,28
3,17	1/8	6,00	66	28	2	0 6877003171 00	97,28
3,20		6,00	66	28	2	0 6877003201 00	97,28
3,25		6,00	66	28	2	0 6877003251 00	97,28
3,30		6,00	66	28	2	0 6877003301 00	97,28
3,38		6,00	66	28	2	0 6877003381 00	97,28
3,40		6,00	66	28	2	0 6877003401 00	97,28
3,50		6,00	66	28	2	0 6877003501 00	97,28
3,60		6,00	66	28	2	0 6877003601 00	97,28
3,65		6,00	66	28	2	0 6877003651 00	97,28

ANTRADUR

d1 _{h7} mm	d1 _{h7} inch	d2 _{h6} mm	l1 mm	l2 mm	Z	Code 6877 Art.-Nr.	€ %Gr.17A
3,70		6,00	66	28	2	0 6877003701 00	97,28
3,80		6,00	74	36	2	0 6877003801 00	97,28
3,90		6,00	74	36	2	0 6877003901 00	97,28
4,00		6,00	74	36	2	0 6877004001 00	97,28
4,10		6,00	74	36	2	0 6877004101 00	97,28
4,20		6,00	74	36	2	0 6877004201 00	97,28
4,30		6,00	74	36	2	0 6877004301 00	97,28
4,40		6,00	74	36	2	0 6877004401 00	97,28
4,50		6,00	74	36	2	0 6877004501 00	97,28
4,60		6,00	74	36	2	0 6877004601 00	97,28
4,65		6,00	74	36	2	0 6877004651 00	97,28

ANTRADUR
ANTRADUR

d1 _{h7} mm	d1 _{h7} inch	d2 _{h6} mm	l1 mm	l2 mm	Z	Code 6877 Art.-Nr.	€ %Gr.17A
4,70		6,00	74	36	2	0 6877004701 00	97,28
4,75		6,00	74	36	2	0 6877004751 00	97,28
4,76	3/16	6,00	82	44	2	0 6877004761 00	97,28
4,80		6,00	82	44	2	0 6877004801 00	97,28
4,90		6,00	82	44	2	0 6877004901 00	97,28
5,00		6,00	82	44	2	0 6877005001 00	97,28
5,10		6,00	82	44	2	0 6877005101 00	97,28
5,20		6,00	82	44	2	0 6877005201 00	97,28
5,25		6,00	82	44	2	0 6877005251 00	97,28
5,30		6,00	82	44	2	0 6877005301 00	97,28
5,40		6,00	82	44	2	0 6877005401 00	97,28
5,50		6,00	82	44	2	0 6877005501 00	97,28
5,60		6,00	82	44	2	0 6877005601 00	97,28
5,70		6,00	82	44	2	0 6877005701 00	97,28
5,75		6,00	82	44	2	0 6877005751 00	97,28
5,80		6,00	82	44	2	0 6877005801 00	97,28
5,90		6,00	82	44	2	0 6877005901 00	97,28
6,00		6,00	82	44	2	0 6877006001 00	97,28
6,10		8,00	91	53	2	0 6877006101 00	131,18
6,20		8,00	91	53	2	0 6877006201 00	131,18
6,30		8,00	91	53	2	0 6877006301 00	131,18
6,35	1/4	8,00	91	53	2	0 6877006351 00	131,18
6,40		8,00	91	53	2	0 6877006401 00	131,18
6,50		8,00	91	53	2	0 6877006501 00	131,18
6,60		8,00	91	53	2	0 6877006601 00	131,18
6,70		8,00	91	53	2	0 6877006701 00	131,18
6,80		8,00	91	53	2	0 6877006801 00	131,18
6,90		8,00	91	53	2	0 6877006901 00	131,18
7,00		8,00	91	53	2	0 6877007001 00	131,18
7,10		8,00	91	53	2	0 6877007101 00	131,18
7,20		8,00	91	53	2	0 6877007201 00	131,18
7,25		8,00	91	53	2	0 6877007251 00	131,18
7,30		8,00	91	53	2	0 6877007301 00	131,18
7,40		8,00	91	53	2	0 6877007401 00	131,18
7,45		8,00	91	53	2	0 6877007451 00	131,18
7,50		8,00	91	53	2	0 6877007501 00	131,18
7,60		8,00	91	53	2	0 6877007601 00	131,18
7,70		8,00	91	53	2	0 6877007701 00	131,18
7,75		8,00	91	53	2	0 6877007751 00	131,18
7,80		8,00	91	53	2	0 6877007801 00	131,18
7,90		8,00	91	53	2	0 6877007901 00	131,18
7,94	5/16	8,00	91	53	2	0 6877007941 00	131,18
8,00		8,00	91	53	2	0 6877008001 00	131,18
8,10		10,00	103	61	2	0 6877008101 00	163,10
8,20		10,00	103	61	2	0 6877008201 00	163,10
8,30		10,00	103	61	2	0 6877008301 00	163,10
8,40		10,00	103	61	2	0 6877008401 00	163,10
8,45		10,00	103	61	2	0 6877008451 00	163,10

d1 _{h7} mm	d1 _{h7} inch	d2 _{h6} mm	l1 mm	l2 mm	Z	Code 6877 Art.-Nr.	€ %Gr.17A
8,50		10,00	103	61	2	0 6877008501 00	163,10
8,60		10,00	103	61	2	0 6877008601 00	163,10
8,70		10,00	103	61	2	0 6877008701 00	163,10
8,80		10,00	103	61	2	0 6877008801 00	163,10
8,90		10,00	103	61	2	0 6877008901 00	163,10
9,00		10,00	103	61	2	0 6877009001 00	163,10
9,10		10,00	103	61	2	0 6877009101 00	163,10
9,20		10,00	103	61	2	0 6877009201 00	163,10
9,25		10,00	103	61	2	0 6877009251 00	163,10
9,30		10,00	103	61	2	0 6877009301 00	163,10
9,35		10,00	103	61	2	0 6877009351 00	163,10
9,40		10,00	103	61	2	0 6877009401 00	163,10
9,45		10,00	103	61	2	0 6877009451 00	163,10
9,50		10,00	103	61	2	0 6877009501 00	163,10
9,52	3/8	10,00	103	61	2	0 6877009521 00	163,10
9,60		10,00	103	61	2	0 6877009601 00	163,10
9,70		10,00	103	61	2	0 6877009701 00	163,10
9,75		10,00	103	61	2	0 6877009751 00	163,10
9,80		10,00	103	61	2	0 6877009801 00	163,10
9,90		10,00	103	61	2	0 6877009901 00	163,10
10,00		10,00	103	61	2	0 6877010001 00	163,10
10,10		12,00	118	71	2	0 6877010101 00	218,80
10,20		12,00	118	71	2	0 6877010201 00	218,80
10,25		12,00	118	71	2	0 6877010251 00	218,80
10,30		12,00	118	71	2	0 6877010301 00	218,80
10,40		12,00	118	71	2	0 6877010401 00	218,80
10,50		12,00	118	71	2	0 6877010501 00	218,80
10,60		12,00	118	71	2	0 6877010601 00	218,80
10,70		12,00	118	71	2	0 6877010701 00	218,80
10,75		12,00	118	71	2	0 6877010751 00	218,80
10,80		12,00	118	71	2	0 6877010801 00	218,80
10,90		12,00	118	71	2	0 6877010901 00	218,80
11,00		12,00	118	71	2	0 6877011001 00	218,80
11,10		12,00	118	71	2	0 6877011101 00	218,80
11,11	7/16	12,00	118	71	2	0 6877011111 00	218,80
11,20		12,00	118	71	2	0 6877011201 00	218,80
11,25		12,00	118	71	2	0 6877011251 00	218,80
11,30		12,00	118	71	2	0 6877011301 00	218,80
11,35		12,00	118	71	2	0 6877011351 00	218,80
11,40		12,00	118	71	2	0 6877011401 00	218,80
11,45		12,00	118	71	2	0 6877011451 00	218,80
11,50		12,00	118	71	2	0 6877011501 00	218,80
11,60		12,00	118	71	2	0 6877011601 00	218,80
11,70		12,00	118	71	2	0 6877011701 00	218,80
11,75		12,00	118	71	2	0 6877011751 00	218,80
11,80		12,00	118	71	2	0 6877011801 00	218,80
11,90		12,00	118	71	2	0 6877011901 00	218,80
12,00		12,00	118	71	2	0 6877012001 00	218,80

D VHM-Mehrzahl Schlichtfräser Speedtwister-Universal, extra lang 5xD

Einsatzbereich:

VHM-Hochleistungsschlichtfräser für universellen Einsatz in Baustähle, Werkzeugstähle, Vergütungsstähle, aber auch rostfreien Stählen und Titanlegierungen bis 50 HRC.

Durch einen sehr starken Fräserkern und modifiziertem Stirnschliff mit kleiner Eckenschutzfase werden sehr hohe Zerspanungsleistungen mit exzellenter Oberflächengüte erzielt.

E Solid carbide multi flute finishing end mill Speedtwister-Universal, extra long series 5xD

Range of application:

High performance carbide finishing end mill for universal applications into structural steels, tool steels, treatable steels but also for stainless steels and titanium alloys up to 50 HRC.

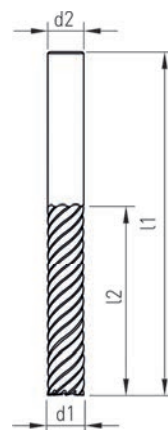
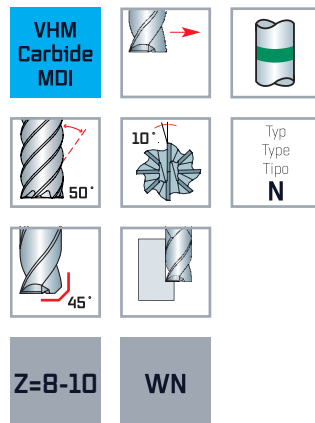
Due to a very strong core and an improved face grinding with small cutting edge chamfer, very high cutting performances with excellent surface quality will be achieved.

I Fresa in metallo duro multitagliente per finitura Speedtwister-Universale, extra serie lunga 5xD

Impiego:

Fresa a finire in Metallo Duro ad alto rendimento per applicazioni universali idonea per acciai strutturali, acciai da utensili, acciai da tempra ma anche per acciai inossidabili e leghe di titanio fino a 50 HRC. Grazie al nocciolo rinforzato e ad una migliorata superficie rettificata con piccoli smussi di protezione e' possibile raggiungere rendimenti di taglio molto elevati ed eccellenti qualità di finitura.


UNIVERSAL 5xD



Uni



ALUNIT-S®

d1 _{e8} mm	d2 _{n6} mm	l1 mm	l2 mm		Z	Code 6199 Art.-Nr.	€ %Gr.158
6	6	70	32	0,05	8	0 6199006001 00	73,46
8	8	80	42	0,05	8	0 6199008001 00	97,63
10	10	99	52	0,05	8	0 6199010001 00	143,80
12	12	115	62	0,05	8	0 6199012001 00	236,40
16	16	140	82	0,10	10	0 6199016001 00	383,44

D **STC-Schaftfräser**
Speedtwister-Inox,
extra lang XL, Fünfschneider,
ungleiche Drallsteigung, **5xD,**
mit Innenkühlung

Einsatzbereich:
Trochoidaler Hochleistungsfräser für austenitische rostfreie Stähle. Für statische und dynamische Bearbeitungen. Sehr hohe Laufruhe und perfekte Spankontrolle durch modernste Werkzeuggeometrien setzt neue Maßstäbe in der Zerspanungsleistung.

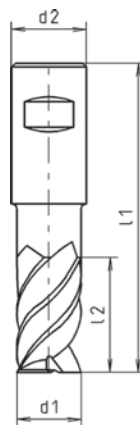
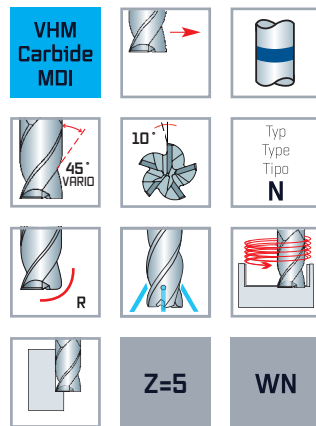
E **STC end mill**
Speedtwister-Inox,
extra long series XL, five flutes,
different spiral angles, **5xD,**
with internal coolant supply

Range of application:
Trochoidal high performance carbide end mill for austenitic stainless steels. For static and dynamic strategies. Very smooth operation and perfect chip control through modern tool geometry sets new standards in chip removal.

I **Fresa frontale STC**
Speedtwister-Inox,
serie extra lunga XL, 5 taglienti,
angolo elica disuguale, **5xD,**
con fori lubrificazione

Impiego:
Fresa trocoidale ad alto rendimento per la lavorazione di acciai austenitici inossidabili. Idonea per fresatura statiche e dinamiche. Elevata silenziosità e un perfetto controllo del truciolo dalla più moderna geometria dell'utensile stabilisce nuove standard nell'trasporto truciolo.


INOX 5xD



Inox



ULTRADUR

d1 _{fg} mm	d2 _{h6} mm	l1 mm	l2 mm	 R	Z	Code 6198 Art.-Nr.	€ %Gr.158
6	6	70	32	0,5	5	0 6198006001 00	205,00
8	8	80	42	0,5	5	0 6198008001 00	242,82
10	10	99	52	0,5	5	0 6198010001 00	271,50
12	12	115	62	0,5	5	0 6198012001 00	340,18
16	16	140	82	0,5	5	0 6198016001 00	515,11

D HSS Cobalt Kegelsenker
ungleiche Teilung
DIN 335 C, 90°

Einsatzbereich:

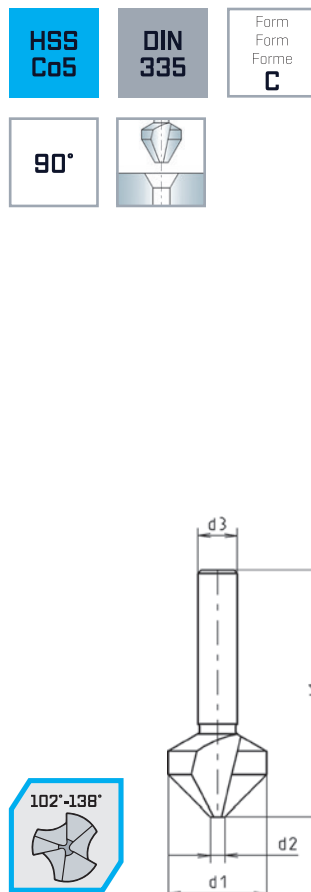
Für alle E- und NE-Metalle, Kunststoffe hart und weich. Universell einsetzbares Entgrat- und Senkwerkzeug für Bohrungen aller Art. Sehr gute Schneideigenschaften durch ungleichgeteilte Schneiden.



E HSS Cobalt countersinks
different partition
DIN 335 C, 90°

Range of application:

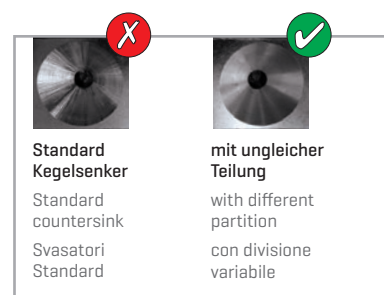
For ferrous and non-ferrous metals, synthetic materials soft and hard. Universal deburring and sink tool for all kind of borings. Excellent cutting features guarantee a smooth surface by unequally divided cutting edges.



I Svasatori HSS Cobalt
disuguale tagliente
DIN 335 C, 90°

Impiego:

Adatti per tutti i materiali ferrosi, non ferrosi, plastiche dure e dolci, per sbavature e svasature di tutti i tipi di fori. Perfette proprietà di taglio, a causa di disuguale tagliente.



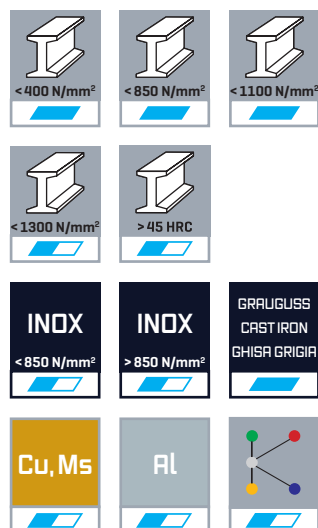
ALUNIT®

d1 mm	d2 mm	d3 _{h9} mm	l1 mm	Z	Code 2390 Art.-Nr.	€ %Gr.8	Code 2397 Art.-Nr.	€ %Gr.8
6,30	M3	1,50	5,00	45	0 2390006301 00	22,59	0 2397006301 00	30,15
8,30	M4	2,00	6,00	50	0 2390008301 00	23,09	0 2397008301 00	31,83
10,40	M5	2,50	6,00	50	0 2390010401 00	24,21	0 2397010401 00	34,41
12,40	M6	2,80	8,00	56	0 2390012401 00	27,35	0 2397012401 00	38,90
16,50	M8	3,20	10,00	60	0 2390016501 00	32,90	0 2397016501 00	50,50
20,50	M10	3,50	10,00	63	0 2390020501 00	41,36	0 2397020501 00	65,24
25,00	M12	3,80	10,00	67	0 2390025001 00	50,78	0 2397025001 00	74,65
31,00		4,20	12,00	71	0 2390031001 00	66,98	0 2397031001 00	114,73

**D HSS Cobalt Kegelsenker
3-Flächenschaft,
ungleiche Teilung,
DIN 335 C, 90°**

Einsatzbereich:

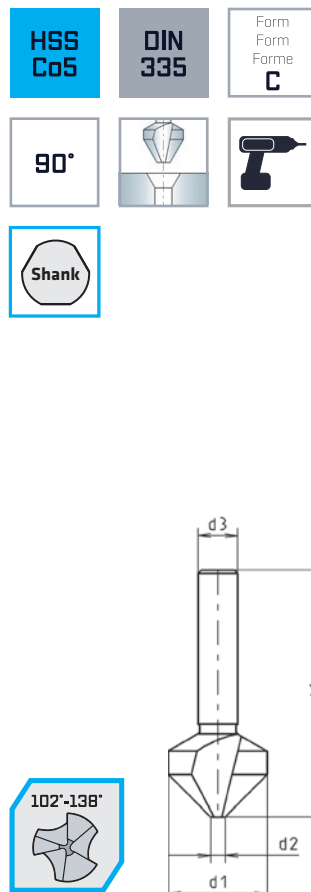
Für alle E- und NE-Metalle, Kunststoffe hart und weich. Universell einsetzbares Entgrat- und Senkwerkzeug für Bohrungen aller Art. Sehr gute Schneideigenschaften durch ungleichgeteilte Schneiden.



**E HSS Cobalt countersinks
3-surface shank,
different partition,
DIN 335 C, 90°**

Range of application:

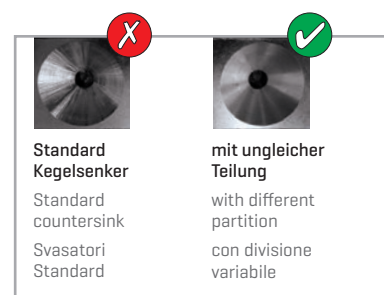
For ferrous and non-ferrous metals, synthetic materials soft and hard. Universal deburring and sink tool for all kind of borings. Excellent cutting features guarantee a smooth surface by unequally divided cutting edges.



**I Svasatori HSS Cobalt
Codolo a 3 superfici
disuguale tagliente
DIN 335 C, 90°**

Impiego:

Adatti per tutti i materiali ferrosi, non ferrosi, plastiche dure e dolci, per sbavature e svasature di tutti i tipi di fori. Perfette proprietà di taglio, a causa di disuguale tagliente.



ALUNIT®

d1 mm		d2 mm	d3 _{h9} mm	l1 mm	Z	Code 2380 Art.-Nr.	€ %Gr.8	Code 2387 Art.-Nr.	€ %Gr.8
6,30	M3	1,50	5,00	45	3	0 2380006301 00	24,17	0 2387006301 00	32,26
8,30	M4	2,00	6,00	50	3	0 2380008301 00	25,07	0 2387008301 00	34,54
10,40	M5	2,50	6,00	50	3	0 2380010401 00	25,90	0 2387010401 00	36,88
12,40	M6	2,80	8,00	56	3	0 2380012401 00	29,27	0 2387012401 00	41,62
16,50	M8	3,20	10,00	60	3	0 2380016501 00	35,21	0 2387016501 00	54,04
20,50	M10	3,50	10,00	63	3	0 2380020501 00	44,26	0 2387020501 00	69,80
25,00	M12	3,80	10,00	67	3	0 2380025001 00	54,33	0 2387025001 00	79,88
31,00		4,20	12,00	71	3	0 2380031001 00	71,67	0 2387031001 00	122,76

Hartmetall-Frässtifte

Einsatzbereich:

Herausragende Fräsleistung bei Edelstahl sowie ferritischen, austenitischen und martensitischen Materialien.

Tungsten carbide rotary burrs,

Range of application:

Outstanding milling performance in stainless steel as well as ferritic, austenitic and martensitic materials.

Lime rotative in metallo duro

Campo applicazione:

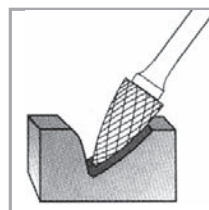
Elevato rendimento di fresatura nell'acciaio inossidabile e nei materiali ferritici, austenitici e martensiteici.



D Spitzbogen

E arc pointed nose

I a lancia



DIN
SPG

ISO
G

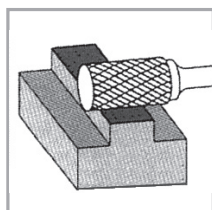


d1 mm	d2 mm	l1 mm	l2 mm	Code 7800 Art.-Nr.	€ %Gr.15A
6,00	6	50	16	0 7800061061 00	25,80
8,00	6	65	20	0 7800061081 00	31,33
10,00	6	65	20	0 7800061101 00	34,70
12,00	6	70	25	0 7800061121 00	47,20

D Zylinder, ohne Stirnverzahnung

E cylindrical, without front cut

I cilindriche, senza taglio in testa



DIN
ZYA

ISO
A

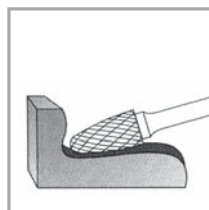


d1 mm	d2 mm	l1 mm	l2 mm	Code 7770 Art.-Nr.	€ %Gr.15A
6,00	6	50	16	0 7770061061 00	21,22
8,00	6	65	20	0 7770061081 00	27,78
10,00	6	65	20	0 7770061101 00	29,86
12,00	6	70	25	0 7770061121 00	46,59

D Rundbogen

E arc round nose

I a lancia raggata



DIN
RBF

ISO
F

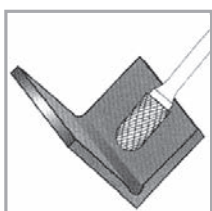


d1 mm	d2 mm	l1 mm	l2 mm	Code 7880 Art.-Nr.	€ %Gr.15A
6,00	6	50	18	0 7880061061 00	25,80
8,00	6	63	18	0 7880061081 00	30,36
10,00	6	65	20	0 7880061101 00	32,53
12,00	6	70	25	0 7880061121 00	48,12

D Walzenrund

E ball nose

I cilindriche sferica



DIN
WRC

ISO
C

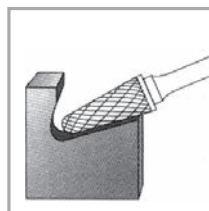


d1 mm	d2 mm	l1 mm	l2 mm	Code 7790 Art.-Nr.	€ %Gr.15A
6,00	6	50	16	0 7790061061 00	24,70
8,00	6	65	20	0 7790061081 00	30,23
10,00	6	65	20	0 7790061101 00	33,24
12,00	6	70	25	0 7790061121 00	52,27

D Rundkegel

E conical round nose

I conica raggata



DIN
KEL

ISO
L



d1 mm	d2 mm	l1 mm	l2 mm	Code 7890 Art.-Nr.	€ %Gr.15A
8,00	6	65	20	0 7890061081 00	34,63
10,00	6	65	20	0 7890061101 00	41,59
12,00	6	70	25	0 7890061121 00	50,81

SPECIAL STEEL

Hartmetall-Frässtifte

Einsatzbereich:
Speziell entwickelte Geometrie für Stahl- und Gusseisenanwendungen.
Hervorragende Zerspanungsleistung und hoher Materialabtrag.

Tungsten carbide rotary burrs,

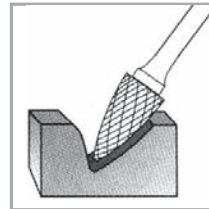
Range of application:
Special designed geometry for steel and cast iron applications.
Excellent cutting performance and high chip removal.

Lime rotative in metallo duro

Campo applicazione:
Geometria speciale per applicazioni in acciaio e ghisa. Eccellente rendimento di taglio e elevata rimozione del truciolo.



- D** Spitzbogen
- E** arc pointed nose
- I** a lancia



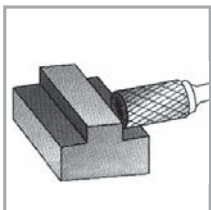
DIN
SPG

ISO
G



d1 mm	d2 mm	l1 mm	l2 mm	Code 7809 Art.-Nr.	€ %Gr.15A
6,00	6	50	16	0 7809061061 00	24,51
8,00	6	65	20	0 7809061081 00	29,76
10,00	6	65	20	0 7809061101 00	32,97
12,00	6	70	25	0 7809061121 00	44,85

- D** Zylinder, mit Stirnverzahnung
- E** cylindrical, with front cut
- I** cilindrica, taglio in testa



DIN
ZYA-S

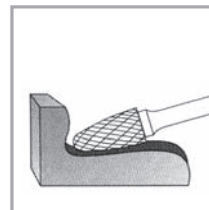


ISO
A-S



d1 mm	d2 mm	l1 mm	l2 mm	Code 7789 Art.-Nr.	€ %Gr.15A
6,00	6	50	16	0 7789061061 00	22,17
8,00	6	65	20	0 7789061081 00	29,01
10,00	6	65	20	0 7789061101 00	31,20
12,00	6	70	25	0 7789061121 00	48,69

- D** Rundbogen
- E** arc round nose
- I** a lancia raggata



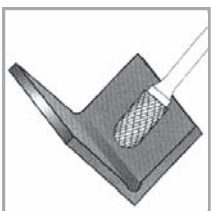
DIN
RBF

ISO
F



d1 mm	d2 mm	l1 mm	l2 mm	Code 7889 Art.-Nr.	€ %Gr.15A
6,00	6	50	18	0 7889061061 00	24,51
8,00	6	63	18	0 7889061081 00	28,85
10,00	6	65	20	0 7889061101 00	30,90
12,00	6	70	25	0 7889061121 00	45,72

- D** Walzenrund
- E** ball nose
- I** cilindrica sferica



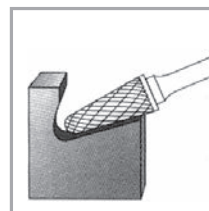
DIN
WRC

ISO
C



d1 mm	d2 mm	l1 mm	l2 mm	Code 7799 Art.-Nr.	€ %Gr.15A
6,00	6	50	16	0 7799061061 00	23,47
8,00	6	65	20	0 7799061081 00	28,73
10,00	6	65	20	0 7799061101 00	31,59
12,00	6	70	25	0 7799061121 00	49,66

- D** Rundkegel
- E** conical round nose
- I** conica raggata



DIN
KEL

ISO
L



d1 mm	d2 mm	l1 mm	l2 mm	Code 7899 Art.-Nr.	€ %Gr.15A
10,00	6	65	20	0 7899061101 00	39,52
12,00	6	70	25	0 7899061121 00	48,26

Überreicht durch | With the compliments of | Utensileria:



Artikel Nr.: 00999000092100

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