

TUNIT®

UTENSILI IN METALLO DURO
SOLID CARBIDE TOOLS
OUTILS EN CARBURE
VHM-WERKZEUGE



Catalogo | *Catalog* | Catalogue | *Katalog* **2021**

La Tungstentools Italia con il brand TUNIT, ha raggiunto 30 anni di esperienza ed oggi è in grado di offrire una vasta gamma di utensili standard e speciali in Metallo Duro. Riusciamo a coprire qualsiasi esigenza dei nostri clienti, dalle linee più economiche, ma comunque ad alto contenuto tecnologico, alle nuove generazioni di utensili per il settore stampi, automotive, aerospace, grafite e medicale, con il massimo rendimento. Il costante successo sul mercato nazionale e internazionale è garantito anche dalla tecnologia coating, ormai consolidata e apprezzata. La TUNIT, con i suoi due impianti PLATIT, è in grado di

offrire una vasta gamma di rivestimenti sia per utensili che per componenti di trancia e deformazione. Alla costruzione di utensili è affiancato un efficace servizio di ricondizionamento degli utensili e dei componenti, con tempi di realizzazione molto ridotti. Il nuovo catalogo TUNIT 2021 non evidenzia solo la vasta gamma di prodotti, ma contiene tutta una serie di novità che vanno ad arricchire il nostro programma. Abbiamo introdotto a completezza del nostro programma, una linea di utensili in PCD a fresare, forare e svasare con la possibilità di realizzare utensili in PCD speciali a disegno.

The firm Tungstentools Italia, brand TUNIT, with his more than 30 years of experience, aims today to offer best solid carbide standard and special tools. We are able to be a trendsetter in economical tools, listening to our customers, and at the same time trustworthy partner in the field of high performance cutting tools for mould line, automotive, aerospace, graphite and medical applications. The national and international success story is achieved by our PVD coating technology.

An extensive TUNIT coating division, with two PLATIT machines, offers highest level of competence in PVD coatings on cutting tools and components of metal cutting industry with a short lead time. Our new catalogue TUNIT 2021 offers an extensive range of products and develops special solutions that are tailor made, completing the range of our programme with a complete PCD programme for drilling and milling application needs.

Tungstentools Italia avec sa marque TUNIT et avec 30 ans d'expérience, se présente aujourd'hui avec une gamme d'outils coupants en carbure standards et spéciaux. Nous sommes à l'écoute des besoins de nos clients avec des gammes d'outils coupants économiques mais de grande précision et aussi avec une gamme d'outils innovants pour le secteur de moules, automotive, aéronautique, graphite, médical. Nous répondons depuis années aux besoins nationales et internationales avec un service de revêtement en PVD. La TUNIT, avec les deux centres de traitement PLATIT,

offre des revêtements d'excellence soit sur des outils coupants, soit sur des éléments de poinçonnage, cisailage et déformation. L'entreprise construit, mais elle offre aussi une gamme complète de prestations comme le réaffutage des outils coupants et composants mécaniques. Vous retrouvez toutes nos gammes d'outils coupants dans le nouveau catalogue TUNIT 2021 ainsi que les nouveautés. Enfin nous proposons des solutions complètes d'usinage avec une nouvelle gamme de outils coupants en PCD pour le perçage, fraisage et d'égavurage, standards et spéciaux.

Die Firma Tungstentools Italia, Markenzeichen TUNIT und 30-jähriger Erfahrung, bietet heutzutage ein umfassendes Werkzeugprogramm an; leistungsstarke Standard- u. Sonderanfertigungen. Wir sind flexible und vertrauensvolle Partner und behaupten uns in unterschiedlichen Branchen, wie beispielsweise im Bereich Formenbau, Automotive, Aerospace oder in der Medizintechnik. Die Fertigung von hochwertigen Zerspanungswerkzeugen, für die Inlandsmarktvorsorgung sowie des Exports, wird entscheidend, mit erstklassiger Beschichtungstechnologie abgerundet.

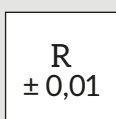
Die TUNIT ist, mit seinen PLATIT-Beschichtungsanlagen, ein hochqualitativer Partner und setzt sich nicht nur in der Fertigung der Zerspanungswerkzeuge durch. Der Werkzeughersteller bietet auch Nachschleifservice und Nachbeschichtungen von Stanz- und Umformwerkzeugen, sowie Bauteile aus der Metallindustrie an. Mit den neuen angebotenen PKD Schneidwerkzeugen, in Standardausführungen sowie in Sonderausführungen für Bohr- u. Fräsarbeiten, wird der neue TUNIT Katalog 2021 erweitert.

TUNIT®

Legenda | Symbols | Légende | Symbolverzeichnis



Fresa con cava a gradini
Milling tool with scaled slot
 Fraise avec goujure à étage
 Fräser mit gestufter Nut



Tolleranza raggio d'angolo
Corner radius tolerance
 Tolérance du rayon d'angle
 Toleranz des Eckenradius



Lucidatura
Lapped
 Polie
 Geläpft

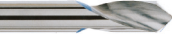
Rivestimenti | Coatings Revêtements | Beschichtungen

U uncoated	AC AluCroN
Ti S-Tin	TB TiCN-B
AT AlTiSiN	TG TiCN-G
Zr ZrN	T2 T2C Plus
DL T-DLC	D Diamond
AP AluCroN-Pro	

Materiale | Material | Matière | Werkstoff

A Acciai non legati Non-alloyed steels Aciers non-alliés Nichtlegierte Stähle	G Leghe di titanio Titan alloys Alliages de titane Titan Legierungen
B Acciai alto legati Alloyed steels Aciers alliés Legierte Stähle	H Alluminio, Leghe, Rame, Ottone, Bronzo Aluminium, Alloys, Copper, Brass, Bronze Aluminium, Alliages, Cuivre, Laiton, Bronze Aluminium, Legierungen, Kupfer, Messing, Bronze
C Acciai resistenti alle temperature Heat resistant steels Aciers resistant à la chaleur Hitzbeständige Stähle	I Materiali compositi, Fibra di carbonio, CFRP Composite materials, Carbon fibre, CFRP Matériaux composites, Fibre de carbon, CFRP Kompositmaterialien, Carbonfaser, CFRP
D Acciai inossidabili Stainless steels Aciers inoxydables Rostfreie Stähle	L Grafite Graphit Graphite Graphit
E Ghisa, Ghisa grigia, Ghisa malleabile Cast iron, Grey iron, Malleable iron Fonte, Fonte malléable Guss, Grauguss, Temperguss	M Materie plastiche Plastic materials Matière plastique Kunststoffe
F Leghe di Cr-Ni Cr-Ni alloys Alliages Cr-Ni Cr-Ni Legierungen	N Inconel 625-718 Inconel 625-718 Inconel 625-718 Inconel 625-718

Indice | Index | Index | Verzeichnis

Punte Drills Forets Spiralbohrer			Materiale Material Matière Werkstoff			Rivestimenti Coating Revêtement Beschichtung		
	TD 1.250	pag. 09	A	B		H	M	U Ti
	TD 1.253	pag. 11	A	B		H	M	U Ti
	TD 1.300	pag. 12	A	B		H	M	U Ti
	TD 1.500	pag. 14	A	B		H	M	U
	TMD 1.351	pag. 15	A	B	D	H		U
	TD GRAD	pag. 17	A	B	D	H		U AT
	TD 1.410	pag. 18	A	B	D E	H		U AT
	TD 1.420	pag. 19	A	B	D E	H		U AT
	TD 1.400	pag. 20	A	B	D E	H		U AT
	TD 1.350	pag. 21	A	B	D	H		U

Punte alte prestazioni High performance drills Forets carbure haute performance Hochleistungsbohrer			Materiale Material Matière Werkstoff			Rivestimenti Coating Revêtement Beschichtung		
	THP 2.900	pag. 22	A	B	D E F	H		AT
	THP 2.900 DC	pag. 24	A	B	D E F	H		T2
	THP 2.910 ST	pag. 26	A	B	D E F	H		AT
	THP 2.910 ST DC	pag. 28	A	B	D E F	H		T2
	THP 2.950 ST	pag. 30	A	B	D E F	H		AT
	THP 2.950 ST DC	pag. 31	A	B	D E F	H		T2
	THP 2.923 ST	pag. 32	A	B	D E F	H		AT
	THP 2.923 ST DC	pag. 33	A	B	D E F	H		T2
	THP 2.920 ST	pag. 34	A	B	D E F	H		AT
	THP 2.920 ST DC	pag. 35	A	B	D E F	H		T2
	THP 2.928 ST	pag. 36	A	B	D E F	H		AT
	THP 2.928 ST DC	pag. 37	A	B	D E F	H		T2
	THP 2.915	pag. 38	A	B	D E F	H		AT
	THP 2.921	pag. 39	A	B	D E F	H		AT
	THP 2.920 GG	pag. 40			E			AT
	THP 2.920 AL	pag. 41				H	M	Zr DL
	THP 2.928 AL	pag. 43				H	M	Zr DL

Micro punte alte prestazioni High performance micro drills Micro forets haute performance Hochleistungsmikrobohrer			Materiale Material Matière Werkstoff			Rivestimenti Coating Revêtement Beschichtung		
	THPM 2.920	pag. 45	A	B	D E F	H		AT
	THPM 2.928	pag. 46	A	B	D E F	H		AT
	THPM 2.912	pag. 47	A	B	D E F	H		AT

Punte alte prestazioni denti dritti | High speed straight flute drillsForets à haute performance à denture droite
Hochleistungsbohrer gerade genutet

THP 2.800 pag. 48

THP 2.820 pag. 49

Punte foro alesa | Drill reamer
Forets aléseurs | Bohrreibahnen

THSR 2.920 H7 pag. 50

Punte a lancia | Drills for aerospace applicationsForests pour les applications aéronautiques
Bohrer für die Luftfahrtindustrie

TD L3 pag. 51

TD L4 pag. 52

Frese | End mills
Fraises | Fräser

TM 3.1 pag. 53

TM 3.1 M pag. 54



TM 3.2 pag. 55

TM 3.2 L pag. 56



TM 3.2 XL pag. 57

TM 3.2 R pag. 58

TM 3.2 RL pag. 59

TM 3.2 RXL pag. 60

TMM 3.2 pag. 61

TMM 3.245 pag. 62

TM 3.2 RW pag. 63

TM 3.2 W pag. 64

TM 3.3 W pag. 65



TM 3.3 pag. 66

TM 3.3 L pag. 67

TM 3.3 XL pag. 68

TM 3.345 pag. 69

TM 3.245 W pag. 70

TM 3.360 pag. 71

TM 3.445 pag. 72



TM 3.4 pag. 73

TM 3.4 L pag. 74

TM 3.4 XL pag. 75

TM 3.4 R pag. 76



TM 3.4 RL pag. 77

TM 3.51 pag. 78

TM 3.61 TF pag. 79



TM 3.61 TL pag. 80

Materiale | Material
Matière | Werkstoff

A B C

A B C

Rivestimenti | Coating
Revêtement | Beschichtung

AT

AT

Materiale | Material
Matière | Werkstoff

A B C

F G H

Rivestimenti | Coating
Revêtement | Beschichtung

AT

Materiale | Material
Matière | Werkstoff

I

M

H I

M

Rivestimenti | Coating
Revêtement | Beschichtung

U AC

U AC

Materiale | Material
Matière | Werkstoff

E

H

I

M

Rivestimenti | Coating
Revêtement | Beschichtung

U

U

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A

H

M

U

A

H

M

U

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

H

M

U AT TB

A

H

M

U AT TB

A B

U AT TB

A

H

M

U AT TB

Zr

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

D E

H

M

U AT TB

A B

H

M

U AT TB

A B

H

M

U AT TB

Frese linea stampi HHC/HSC | End mills for mould line HHC/HSC

 Fraises programme moule HHC/HSC
 Fräser für Formenbau HHC/HSC


TM H.545 pag. 81

TM H.545 XL pag. 82



TM H.2 CR pag. 83

TM H.2 CRL pag. 84



TMM H.210 pag. 85

TMM H.215 pag. 86

TM H.4 TR pag. 87

TM H.4 TLR pag. 88

TM H.2 TR pag. 89

TM H.2 R pag. 90

TM H.2 RS pag. 91



TM HAPCT pag. 92

TM HAPCK pag. 93



TM H.2 MR pag. 94

TM H.2 MMR pag. 95

Materiale Material Matière Werkstoff		Rivestimenti Coating Revêtement Beschichtung
A B C	E F	AC
A B C	E F	AC
A B C	G	AC
A B C	G	AC
A B C D	F G	AC
A B C D	F G	AC
A B C	G	AC
A B C	G	AC
A B C	G	AC
A B C	F	AC
A B C	F	AC
C D	H	AC
C D	H	AC
C D	H	AC
C D	H	AC

Frese HPC | End mills HPC
 Fraises HPC | Fräser HPC


TM 4T-HPC pag. 96

TM 4T-SHPC pag. 97

TM 4C-HPC pag. 98



TM 4R-HPC pag. 99

TM 4TK-HPC pag. 100



TM 4CK-HPC pag. 101

Materiale Material Matière Werkstoff		Rivestimenti Coating Revêtement Beschichtung
B C	E F	AC
B C	E F	AC
B C	E F	AC
B C	E F	AC
B C	E F	AC
B C	E F	AC

Frese per titanio | Solid carbide titanium end mills
 Fraises carbure monobloc pour titane | VHM Titan Fräser


TM TI 4 pag. 102

TM TI 4 CR pag. 103

TM TI 5 CR pag. 104

TM TI 6 pag. 105



TM TI 7 CR pag. 106

Materiale Material Matière Werkstoff		Rivestimenti Coating Revêtement Beschichtung
D	F G	AP
D	F G	AP
D	F G	AP
	F G	AP
D	F G	AP

Frese per lavorazione trocoidale | Trochoidal milling cutter
 Fraise pour l'usinage trochoïdal | Trochoidal Fräser


TM HTPC-ST pag. 107

TM HTPC-TI pag. 108

Materiale Material Matière Werkstoff		Rivestimenti Coating Revêtement Beschichtung
B	F	AC
B	F G	AC

Frese per grafite | *End mills to machine graphite*
Fraises pour graphite | *Schaftfräser für Graphit*



TM HGD	pag. 109
TM HGDL	pag. 110
TM HGDR	pag. 111
TM HGDR_L	pag. 112

Materiale <i>Material</i> Matière <i>Werkstoff</i>	Rivestimenti <i>Coating</i> Revêtement <i>Beschichtung</i>
L	D
L	D
L	D
L	D

Frese HPC Alu | HPC Alu end mills
Fraises HPC Alu | HPC Alu Fräser



TM 3T-HPC ALU	pag. 113
TM 3C-HPC ALU	pag. 114
TM 3TK-HPC ALU	pag. 115
TM 3CK-HPC ALU	pag. 116
TM H.24 ALU	pag. 117
TM H.24 R ALU	pag. 118
TM 3.24	pag. 119

Materiale <i>Material</i> Matiere <i>Werkstoff</i>		Rivestimenti <i>Coating</i> Revêtement <i>Beschichtung</i>	
H	M	Zr	
H	M	Zr	
H	M	Zr	
H	M	Zr	
H	M	Zr	
H	M	Zr	
H	M	Zr	
H		U	Zr

Frese per materiali compositi | *End mills for composite materials*
Fraises pour les matières composites
Fräser für Kompositmaterialien



TMS 200	pag. 120
TMS 200 M1	pag. 121
TMS 200 M2	pag. 122
TMS 200 M3	pag. 123
TMS 206	pag. 124

Materiale <i>Material</i> Matière <i>Werkstoff</i>		Rivestimenti <i>Coating</i> Revêtement <i>Beschichtung</i>	
I	M	U	AC
I	M	U	AC
I	M	U	AC
I	M	U	AC
I	M	AC	TB

Alesatori | Reamers
Alésoirs | Reibahlen



TSR 4020	pag. 125
TSR 4020 C	pag. 127
TSR 4020 K	pag. 129
TSR 4020 KR	pag. 130

Materiale <i>Material</i> Matière <i>Werkstoff</i>								Rivestimenti <i>Coating</i> Revêtement <i>Beschichtung</i>	
A	B	C	D	E	F	G	H	M	U
A	B	C	D	E	F	G	H	M	U
A	B	C	D	E	F	G	H	M	TG
A	B	C	D	E	F	G	H	M	TG

Svasatori | *Deburrs*
Outils pour ébavurer | *Senker*



TM SV 60°	pag. 131
TM SV 90°	pag. 132
TM SV 100°	pag. 133
TM SV2 60°	pag. 134
TM SV3 90°	pag. 135
TM SV4 90°	pag. 136

Materiale <i>Material</i> Matiere <i>Werkstoff</i>										Rivestimenti <i>Coating</i> Revêtement <i>Beschichtung</i>	
A	B	C	D	E		G	H				AT
A	B	C	D	E		G	H				AT
A	B	C	D	E		G	H				AT
A	B			E			H		M		U
A	B			E			H		M		AT
A	B			E			H		M		AT

Bulini | *Lip cutter*
Burins | *Gravierstichel*

TM 5.80 L pag. 137

Materiale Material Matière <i>Werkstoff</i>		Rivestimenti Coating Revêtement <i>Beschichtung</i>	
A	H	M	U

Programma PCD | PCD Programme
 PCD Programme | PKD Programm

Materiale | Material
 Matière | Werkstoff


TP CD 3.2 pag. 138

TP CD 3.2 L pag. 139

TP CD 3.2 R pag. 140

TP CDT 3.2 pag. 141

TP CDT 3.2 L pag. 142

TP CD2 108 pag. 143

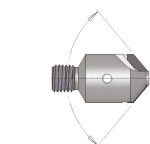
TP CD3 108 pag. 144

TP CD2 208 pag. 145

TP CD3 208 pag. 146

TD PK D2 pag. 147

TD PK D3 pag. 148



H I

H I

H I

H I

H I

H I

H I

H I

H I

I

I



uncoated

S-TiN

TD 1.250

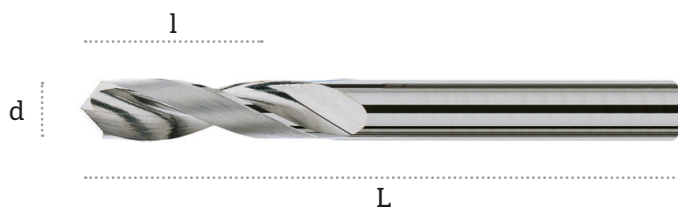
Punta elicoidale

Twist drill

Foret hélicoïdale

SpiralbohrerDIN
1897

118°



d h6	L	l	uncoated	S-TiN
1.00	26	6	TD 1.250-0100	
1.10	28	7	TD 1.250-0110	
1.20	30	8	TD 1.250-0120	
1.30	30	8	TD 1.250-0130	
1.40	32	9	TD 1.250-0140	
1.50	32	9	TD 1.250-0150	
1.60	34	10	TD 1.250-0160	
1.70	34	10	TD 1.250-0170	
1.80	36	11	TD 1.250-0180	
1.90	36	11	TD 1.250-0190	
2.00	38	12	TD 1.250-0200	TD 1.250-0200N
2.10	38	12	TD 1.250-0210	TD 1.250-0210N
2.20	40	13	TD 1.250-0220	TD 1.250-0220N
2.30	40	13	TD 1.250-0230	TD 1.250-0230N
2.40	43	14	TD 1.250-0240	TD 1.250-0240N
2.50	43	14	TD 1.250-0250	TD 1.250-0250N
2.60	43	14	TD 1.250-0260	TD 1.250-0260N
2.70	46	16	TD 1.250-0270	TD 1.250-0270N
2.80	46	16	TD 1.250-0280	TD 1.250-0280N
2.90	46	16	TD 1.250-0290	TD 1.250-0290N
3.00	46	16	TD 1.250-0300	TD 1.250-0300N
3.10	49	18	TD 1.250-0310	TD 1.250-0310N
3.20	49	18	TD 1.250-0320	TD 1.250-0320N
3.30	49	18	TD 1.250-0330	TD 1.250-0330N
3.40	52	20	TD 1.250-0340	TD 1.250-0340N
3.50	52	20	TD 1.250-0350	TD 1.250-0350N
3.60	52	20	TD 1.250-0360	TD 1.250-0360N
3.70	52	20	TD 1.250-0370	TD 1.250-0370N
3.80	55	22	TD 1.250-0380	TD 1.250-0380N
3.90	55	22	TD 1.250-0390	TD 1.250-0390N

d h6	L	l	uncoated	S-TiN
4.00	55	22	TD 1.250-0400	TD 1.250-0400N
4.10	55	22	TD 1.250-0410	TD 1.250-0410N
4.20	55	22	TD 1.250-0420	TD 1.250-0420N
4.30	58	24	TD 1.250-0430	TD 1.250-0430N
4.40	58	24	TD 1.250-0440	TD 1.250-0440N
4.50	58	24	TD 1.250-0450	TD 1.250-0450N
4.60	58	24	TD 1.250-0460	TD 1.250-0460N
4.70	58	24	TD 1.250-0470	TD 1.250-0470N
4.80	62	26	TD 1.250-0480	TD 1.250-0480N
4.90	62	26	TD 1.250-0490	TD 1.250-0490N
5.00	62	26	TD 1.250-0500	TD 1.250-0500N
5.10	62	26	TD 1.250-0510	TD 1.250-0510N
5.20	62	26	TD 1.250-0520	TD 1.250-0520N
5.30	62	26	TD 1.250-0530	TD 1.250-0530N
5.40	66	28	TD 1.250-0540	TD 1.250-0540N
5.50	66	28	TD 1.250-0550	TD 1.250-0550N
5.60	66	28	TD 1.250-0560	TD 1.250-0560N
5.70	66	28	TD 1.250-0570	TD 1.250-0570N
5.80	66	28	TD 1.250-0580	TD 1.250-0580N
5.90	66	28	TD 1.250-0590	TD 1.250-0590N
6.00	66	28	TD 1.250-0600	TD 1.250-0600N
6.10	70	31	TD 1.250-0610	TD 1.250-0610N
6.20	70	31	TD 1.250-0620	TD 1.250-0620N
6.30	70	31	TD 1.250-0630	TD 1.250-0630N
6.40	70	31	TD 1.250-0640	TD 1.250-0640N
6.50	70	31	TD 1.250-0650	TD 1.250-0650N
6.60	70	31	TD 1.250-0660	TD 1.250-0660N
6.70	70	31	TD 1.250-0670	TD 1.250-0670N
6.80	74	34	TD 1.250-0680	TD 1.250-0680N
6.90	74	34	TD 1.250-0690	TD 1.250-0690N
7.00	74	34	TD 1.250-0700	TD 1.250-0700N
7.10	74	34	TD 1.250-0710	TD 1.250-0710N
7.20	74	34	TD 1.250-0720	TD 1.250-0720N
7.30	74	34	TD 1.250-0730	TD 1.250-0730N
7.40	74	34	TD 1.250-0740	TD 1.250-0740N
7.50	74	34	TD 1.250-0750	TD 1.250-0750N
7.60	79	37	TD 1.250-0760	TD 1.250-0760N
7.70	79	37	TD 1.250-0770	TD 1.250-0770N

d h6	L	l	uncoated	S-TiN
7.80	79	37	TD 1.250-0780	TD 1.250-0780N
7.90	79	37	TD 1.250-0790	TD 1.250-0790N
8.00	79	37	TD 1.250-0800	TD 1.250-0800N
8.10	79	37	TD 1.250-0810	TD 1.250-0810N
8.20	79	37	TD 1.250-0820	TD 1.250-0820N
8.30	79	37	TD 1.250-0830	TD 1.250-0830N
8.40	79	37	TD 1.250-0840	TD 1.250-0840N
8.50	79	37	TD 1.250-0850	TD 1.250-0850N
8.60	84	40	TD 1.250-0860	TD 1.250-0860N
8.70	84	40	TD 1.250-0870	TD 1.250-0870N
8.80	84	40	TD 1.250-0880	TD 1.250-0880N
8.90	84	40	TD 1.250-0890	TD 1.250-0890N
9.00	84	40	TD 1.250-0900	TD 1.250-0900N
9.10	84	40	TD 1.250-0910	TD 1.250-0910N
9.20	84	40	TD 1.250-0920	TD 1.250-0920N
9.30	84	40	TD 1.250-0930	TD 1.250-0930N
9.40	84	40	TD 1.250-0940	TD 1.250-0940N
9.50	84	40	TD 1.250-0950	TD 1.250-0950N
9.60	89	43	TD 1.250-0960	TD 1.250-0960N
9.70	89	43	TD 1.250-0970	TD 1.250-0970N
9.80	89	43	TD 1.250-0980	TD 1.250-0980N
9.90	89	43	TD 1.250-0990	TD 1.250-0990N
10.00	89	43	TD 1.250-1000	TD 1.250-1000N
10.10	89	43	TD 1.250-1010	TD 1.250-1010N
10.20	89	43	TD 1.250-1020	TD 1.250-1020N
10.50	89	43	TD 1.250-1050	TD 1.250-1050N
11.00	95	47	TD 1.250-1100	TD 1.250-1100N
11.50	95	47	TD 1.250-1150	TD 1.250-1150N
12.00	102	51	TD 1.250-1200	TD 1.250-1200N
12.50	102	51	TD 1.250-1250	TD 1.250-1250N
12.70	102	51	TD 1.250-1270	TD 1.250-1270N
13.00	102	51	TD 1.250-1300	TD 1.250-1300N
14.00	107	54	TD 1.250-1400	TD 1.250-1400N
14.50	111	56	TD 1.250-1450	TD 1.250-1450N
15.00	111	56	TD 1.250-1500	TD 1.250-1500N
16.00	115	58	TD 1.250-1600	TD 1.250-1600N
18.00	123	62	TD 1.250-1800	TD 1.250-1800N
20.00	131	66	TD 1.250-2000	TD 1.250-2000N



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | elica sinistra
Coating | out of range | other sizes | left hand helix
Revêtement | exécution spéciale | diamètres intermédiaires | hélixe à gauche
Beschichtung | Linksschneidend | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage



parametri di lavoro
cutting data
paramètres d'usage
Schnittdaten

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

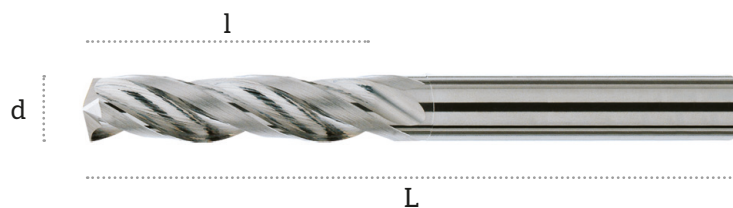
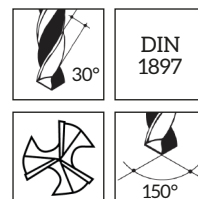
S-TiN

TD 1.253

Punta elicoidale a 3 eliche

3-flutes twist drill

Foret hélicoïdale à 3 lèbres

3-Schneiden-Spiralbohrer

d h6	L	l	uncoated	S-TiN
3.00	46	16	TD 1.253-0300	TD 1.253-0300N
3.10	49	18	TD 1.253-0310	TD 1.253-0310N
3.20	49	18	TD 1.253-0320	TD 1.253-0320N
3.30	49	18	TD 1.253-0330	TD 1.253-0330N
3.40	52	20	TD 1.253-0340	TD 1.253-0340N
3.50	52	20	TD 1.253-0350	TD 1.253-0350N
3.60	52	20	TD 1.253-0360	TD 1.253-0360N
3.70	52	20	TD 1.253-0370	TD 1.253-0370N
3.80	55	22	TD 1.253-0380	TD 1.253-0380N
3.90	55	22	TD 1.253-0390	TD 1.253-0390N
4.00	55	22	TD 1.253-0400	TD 1.253-0400N
4.10	55	22	TD 1.253-0410	TD 1.253-0410N
4.20	55	22	TD 1.253-0420	TD 1.253-0420N
4.30	58	24	TD 1.253-0430	TD 1.253-0430N
4.40	58	24	TD 1.253-0440	TD 1.253-0440N
4.50	58	24	TD 1.253-0450	TD 1.253-0450N
4.60	58	24	TD 1.253-0460	TD 1.253-0460N
4.70	58	24	TD 1.253-0470	TD 1.253-0470N
4.80	62	26	TD 1.253-0480	TD 1.253-0480N
4.90	62	26	TD 1.253-0490	TD 1.253-0490N
5.00	62	26	TD 1.253-0500	TD 1.253-0500N
5.10	62	26	TD 1.253-0510	TD 1.253-0510N
5.20	62	26	TD 1.253-0520	TD 1.253-0520N
5.30	62	26	TD 1.253-0530	TD 1.253-0530N
5.40	66	28	TD 1.253-0540	TD 1.253-0540N

d h6	L	l	uncoated	S-TiN
5.50	66	28	TD 1.253-0550	TD 1.253-0550N
5.60	66	28	TD 1.253-0560	TD 1.253-0560N
5.70	66	28	TD 1.253-0570	TD 1.253-0570N
5.80	66	28	TD 1.253-0580	TD 1.253-0580N
5.90	66	28	TD 1.253-0590	TD 1.253-0590N
6.00	66	28	TD 1.253-0600	TD 1.253-0600N
6.10	70	31	TD 1.253-0610	TD 1.253-0610N
6.20	70	31	TD 1.253-0620	TD 1.253-0620N
6.30	70	31	TD 1.253-0630	TD 1.253-0630N
6.40	70	31	TD 1.253-0640	TD 1.253-0640N
6.50	70	31	TD 1.253-0650	TD 1.253-0650N
6.60	70	31	TD 1.253-0660	TD 1.253-0660N
6.70	70	31	TD 1.253-0670	TD 1.253-0670N
6.80	74	34	TD 1.253-0680	TD 1.253-0680N
6.90	74	34	TD 1.253-0690	TD 1.253-0690N
7.00	74	34	TD 1.253-0700	TD 1.253-0700N
7.50	74	34	TD 1.253-0750	TD 1.253-0750N
8.00	79	37	TD 1.253-0800	TD 1.253-0800N
8.50	79	37	TD 1.253-0850	TD 1.253-0850N
9.00	84	40	TD 1.253-0900	TD 1.253-0900N
9.50	84	40	TD 1.253-0950	TD 1.253-0950N
10.00	89	43	TD 1.253-1000	TD 1.253-1000N
12.00	102	51	TD 1.253-1200	TD 1.253-1200N
14.00	107	54	TD 1.253-1400	TD 1.253-1400N



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

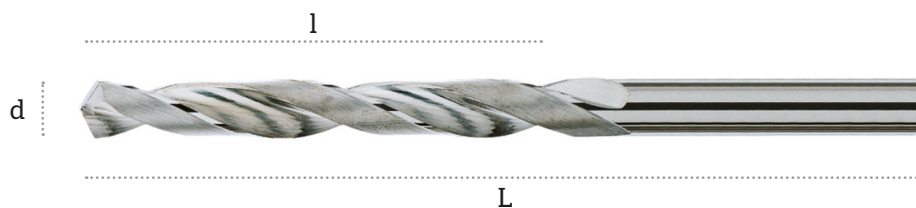
S-TiN

TD 1.300

Punta elicoidale
Twist drill
 Foret hélicoïdale
 Spiralbohrer

DIN
338

118°



d h6	L	l	uncoated	S-TiN
0.70	28	9	TD 1.300-0070	
0.80	30	10	TD 1.300-0080	
0.90	32	11	TD 1.300-0090	
1.00	34	12	TD 1.300-0100	
1.10	36	14	TD 1.300-0110	
1.20	38	16	TD 1.300-0120	
1.30	38	16	TD 1.300-0130	
1.40	40	18	TD 1.300-0140	
1.50	40	18	TD 1.300-0150	
1.60	43	20	TD 1.300-0160	
1.70	43	20	TD 1.300-0170	
1.80	46	22	TD 1.300-0180	
1.90	46	22	TD 1.300-0190	
2.00	49	24	TD 1.300-0200	TD 1.300-0200N
2.10	49	24	TD 1.300-0210	TD 1.300-0210N
2.20	53	27	TD 1.300-0220	TD 1.300-0220N
2.30	53	27	TD 1.300-0230	TD 1.300-0230N
2.40	57	30	TD 1.300-0240	TD 1.300-0240N
2.50	57	30	TD 1.300-0250	TD 1.300-0250N
2.60	57	30	TD 1.300-0260	TD 1.300-0260N
2.70	61	33	TD 1.300-0270	TD 1.300-0270N
2.80	61	33	TD 1.300-0280	TD 1.300-0280N
2.90	61	33	TD 1.300-0290	TD 1.300-0290N
3.00	61	33	TD 1.300-0300	TD 1.300-0300N
3.10	65	36	TD 1.300-0310	TD 1.300-0310N
3.20	65	36	TD 1.300-0320	TD 1.300-0320N
3.30	65	36	TD 1.300-0330	TD 1.300-0330N
3.40	70	39	TD 1.300-0340	TD 1.300-0340N
3.50	70	39	TD 1.300-0350	TD 1.300-0350N
3.60	70	39	TD 1.300-0360	TD 1.300-0360N

d h6	L	l	uncoated	S-TiN
3.70	70	39	TD 1.300-0370	TD 1.300-0370N
3.80	75	43	TD 1.300-0380	TD 1.300-0370N
3.90	75	43	TD 1.300-0390	TD 1.300-0390N
4.00	75	43	TD 1.300-0400	TD 1.300-0400N
4.10	75	43	TD 1.300-0410	TD 1.300-0410N
4.20	75	43	TD 1.300-0420	TD 1.300-0420N
4.30	80	47	TD 1.300-0430	TD 1.300-0430N
4.40	80	47	TD 1.300-0440	TD 1.300-0440N
4.50	80	47	TD 1.300-0450	TD 1.300-0450N
4.60	80	47	TD 1.300-0460	TD 1.300-0460N
4.70	80	47	TD 1.300-0470	TD 1.300-0470N
4.80	86	52	TD 1.300-0480	TD 1.300-0480N
4.90	86	52	TD 1.300-0490	TD 1.300-0490N
5.00	86	52	TD 1.300-0500	TD 1.300-0500N
5.10	86	52	TD 1.300-0510	TD 1.300-0510N
5.20	86	52	TD 1.300-0520	TD 1.300-0520N
5.30	86	52	TD 1.300-0530	TD 1.300-0530N
5.40	93	57	TD 1.300-0540	TD 1.300-0540N
5.50	93	57	TD 1.300-0550	TD 1.300-0550N
5.60	93	57	TD 1.300-0560	TD 1.300-0560N
5.70	93	57	TD 1.300-0570	TD 1.300-0570N
5.80	93	57	TD 1.300-0580	TD 1.300-0580N
5.90	93	57	TD 1.300-0590	TD 1.300-0590N
6.00	93	57	TD 1.300-0600	TD 1.300-0600N
6.10	101	63	TD 1.300-0610	TD 1.300-0610N
6.20	101	63	TD 1.300-0620	TD 1.300-0620N
6.30	101	63	TD 1.300-0630	TD 1.300-0630N
6.40	101	63	TD 1.300-0640	TD 1.300-0640N
6.50	101	63	TD 1.300-0650	TD 1.300-0650N
6.60	101	63	TD 1.300-0660	TD 1.300-0660N
6.70	101	63	TD 1.300-0670	TD 1.300-0670N
6.80	109	69	TD 1.300-0680	TD 1.300-0680N
6.90	109	69	TD 1.300-0690	TD 1.300-0690N
7.00	109	69	TD 1.300-0700	TD 1.300-0700N
7.10	109	69	TD 1.300-0710	TD 1.300-0710N
7.20	109	69	TD 1.300-0720	TD 1.300-0720N
7.30	109	69	TD 1.300-0730	TD 1.300-0730N
7.40	109	69	TD 1.300-0740	TD 1.300-0740N
7.50	109	69	TD 1.300-0750	TD 1.300-0750N
7.60	117	75	TD 1.300-0760	TD 1.300-0760N

d h6	L	l	uncoated	S-TiN
7.70	117	75	TD 1.300-0770	TD 1.300-0770N
7.80	117	75	TD 1.300-0780	TD 1.300-0780N
7.90	117	75	TD 1.300-0790	TD 1.300-0790N
8.00	117	75	TD 1.300-0800	TD 1.300-0800N
8.10	117	75	TD 1.300-0810	TD 1.300-0810N
8.20	117	75	TD 1.300-0820	TD 1.300-0820N
8.30	117	75	TD 1.300-0830	TD 1.300-0830N
8.40	117	75	TD 1.300-0840	TD 1.300-0840N
8.50	117	75	TD 1.300-0850	TD 1.300-0850N
8.60	125	81	TD 1.300-0860	TD 1.300-0860N
8.70	125	81	TD 1.300-0870	TD 1.300-0870N
8.80	125	81	TD 1.300-0880	TD 1.300-0880N
8.90	125	81	TD 1.300-0890	TD 1.300-0890N
9.00	125	81	TD 1.300-0900	TD 1.300-0900N
9.10	125	81	TD 1.300-0910	TD 1.300-0910N
9.20	125	81	TD 1.300-0920	TD 1.300-0920N
9.30	125	81	TD 1.300-0930	TD 1.300-0930N
9.40	125	81	TD 1.300-0940	TD 1.300-0940N
9.50	125	81	TD 1.300-0950	TD 1.300-0950N
9.60	133	87	TD 1.300-0960	TD 1.300-0960N
9.70	133	87	TD 1.300-0970	TD 1.300-0970N
9.80	133	87	TD 1.300-0980	TD 1.300-0980N
9.90	133	87	TD 1.300-0990	TD 1.300-0990N
10.00	133	87	TD 1.300-1000	TD 1.300-1000N
10.20	133	87	TD 1.300-1020	TD 1.300-1020N
10.50	133	87	TD 1.300-1050	TD 1.300-1050N
10.80	142	94	TD 1.300-1080	TD 1.300-1080N
11.00	142	94	TD 1.300-1100	TD 1.300-1100N
11.50	142	94	TD 1.300-1150	TD 1.300-1150N
11.80	142	94	TD 1.300-1180	TD 1.300-1180N
12.00	151	101	TD 1.300-1200	TD 1.300-1200N
12.50	151	101	TD 1.300-1250	TD 1.300-1250N
13.00	151	101	TD 1.300-1300	TD 1.300-1300N
13.50	160	108	TD 1.300-1350	TD 1.300-1350N
14.00	160	108	TD 1.300-1400	TD 1.300-1400N
14.50	160	108	TD 1.300-1450	TD 1.300-1450N
15.00	169	114	TD 1.300-1500	TD 1.300-1500N
15.50	178	120	TD 1.300-1550	TD 1.300-1550N
16.00	178	120	TD 1.300-1600	TD 1.300-1600N



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | elica sinistra
Coating | out of range | other sizes | left hand helix
Revêtement | exécution spéciale | diamètres intermédiaires | hélice à gauche
Beschichtung | Linksschneidend | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage



parametri di lavoro
cutting data
paramètres d'usage
Schnittdaten

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

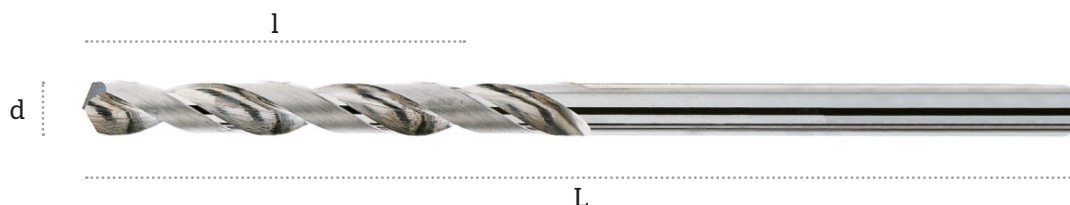




uncoated

TD 1.500

Punta elicoidale
Twist drill
Foret hélicoïdale
Spiralbohrer



d h6	L	l	uncoated
1.00	75	25	TD 1.500-0100
1.10	75	25	TD 1.500-0110
1.20	75	25	TD 1.500-0120
1.30	75	25	TD 1.500-0130
1.40	75	30	TD 1.500-0140
1.50	75	30	TD 1.500-0150
1.60	75	30	TD 1.500-0160
1.70	75	30	TD 1.500-0170
1.80	75	30	TD 1.500-0180
1.90	75	30	TD 1.500-0190
2.00	75	30	TD 1.500-0200
2.10	75	30	TD 1.500-0210
2.20	75	30	TD 1.500-0220
2.30	75	30	TD 1.500-0230
2.40	100	35	TD 1.500-0240
2.50	100	35	TD 1.500-0250
2.60	100	35	TD 1.500-0260
2.70	100	35	TD 1.500-0270
2.80	100	35	TD 1.500-0280
2.90	100	35	TD 1.500-0290
3.00	100	50	TD 1.500-0300
3.10	100	50	TD 1.500-0310
3.20	100	50	TD 1.500-0320

d h6	L	l	uncoated
3.30	100	50	TD 1.500-0330
3.40	100	50	TD 1.500-0340
3.50	100	50	TD 1.500-0350
3.60	100	50	TD 1.500-0360
3.70	100	50	TD 1.500-0370
3.80	100	50	TD 1.500-0380
3.90	100	50	TD 1.500-0390
4.00	100	50	TD 1.500-0400
4.10	100	50	TD 1.500-0410
4.20	100	50	TD 1.500-0420
4.30	100	50	TD 1.500-0430
4.40	100	50	TD 1.500-0440
4.50	100	50	TD 1.500-0450
4.60	100	50	TD 1.500-0460
4.70	100	50	TD 1.500-0470
4.80	100	50	TD 1.500-0480
4.90	100	50	TD 1.500-0490
5.00	150	75	TD 1.500-0500
5.10	150	75	TD 1.500-0510
5.20	150	75	TD 1.500-0520
5.30	150	75	TD 1.500-0530
5.40	150	75	TD 1.500-0540
5.50	150	75	TD 1.500-0550

d h6	L	l	uncoated
5.60	150	75	TD 1.500-0560
5.70	150	75	TD 1.500-0570
5.80	150	75	TD 1.500-0580
5.90	150	75	TD 1.500-0590
6.00	150	75	TD 1.500-0600
6.10	150	75	TD 1.500-0610
6.20	150	75	TD 1.500-0620
6.30	150	75	TD 1.500-0630
6.40	150	75	TD 1.500-0640
6.50	150	75	TD 1.500-0650
6.60	150	75	TD 1.500-0660
6.70	150	75	TD 1.500-0670
6.80	150	75	TD 1.500-0680
6.90	150	75	TD 1.500-0690
7.00	150	75	TD 1.500-0700
7.50	150	75	TD 1.500-0750
8.00	150	75	TD 1.500-0800
8.50	150	75	TD 1.500-0850
9.00	150	75	TD 1.500-0900
9.50	150	75	TD 1.500-0950
10.00	150	75	TD 1.500-1000
12.00	200	90	TD 1.500-1200

< 2.00 mm spirale 25° affilatura 118° | ≥ 2.00 mm spirale 30° affilatura 130°
 < 2.00 mm helix 25° pointing 118° | ≥ 2.00 mm helix 30° pointing 130°
 < 2.00 mm hélice 25° affûtage 118° | ≥ 2.00 mm hélice 30° affûtage 130°
 < 2.00 mm Drall 25° Spitzenwinkel 118° | ≥ 2.00 mm Drall 30° Spitzenwinkel 130°



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



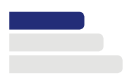
parametri di lavoro
cutting data
paramètres d'usage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

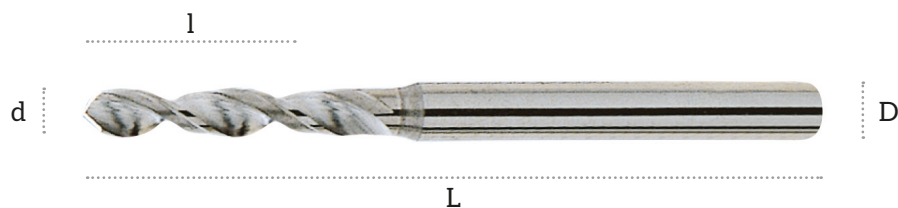
TMD 1.351

Punta elicoidale con gambo rinforzato 1/100

Twist drill with reinforced shank 1/100

Foret Hélicoïdale queue renforcée 1/100

Spiralbohrer mit verstärktem Zylinderschaft 1/100

DIN
1899 A

d h6	D h6	L	l	uncoated
0.15	1	30	1	TMD 1.351-0015
0.16	1	30	1	TMD 1.351-0016
0.17	1	30	1	TMD 1.351-0017
0.18	1	30	1	TMD 1.351-0018
0.19	1	30	1	TMD 1.351-0019
0.20	1	30	2	TMD 1.351-0020
0.21	1	30	2	TMD 1.351-0021
0.22	1	30	2	TMD 1.351-0022
0.23	1	30	2	TMD 1.351-0023
0.24	1	30	2	TMD 1.351-0024
0.25	1	30	2	TMD 1.351-0025
0.26	1	30	2.5	TMD 1.351-0026
0.27	1	30	2.5	TMD 1.351-0027
0.28	1	30	2.5	TMD 1.351-0028
0.29	1	30	2.5	TMD 1.351-0029
0.30	1	30	2.5	TMD 1.351-0030
0.31	1	30	3	TMD 1.351-0031
0.32	1	30	3	TMD 1.351-0032
0.33	1	30	3	TMD 1.351-0033
0.34	1	30	3	TMD 1.351-0034
0.35	1	30	4	TMD 1.351-0035
0.36	1	30	4	TMD 1.351-0036
0.37	1	30	4	TMD 1.351-0037
0.38	1	30	4	TMD 1.351-0038
0.39	1	30	4	TMD 1.351-0039
0.40	1	30	4	TMD 1.351-0040
0.41	1	30	4	TMD 1.351-0041
0.42	1	30	4	TMD 1.351-0042
0.43	1	30	4	TMD 1.351-0043
0.44	1	30	4	TMD 1.351-0044
0.45	1	30	6	TMD 1.351-0045
0.46	1	30	6	TMD 1.351-0046
0.47	1	30	6	TMD 1.351-0047

d h6	D h6	L	l	uncoated
0.48	1	30	6	TMD 1.351-0048
0.49	1	30	6	TMD 1.351-0049
0.50	1	30	6	TMD 1.351-0050
0.51	1	30	6	TMD 1.351-0051
0.52	1	30	6	TMD 1.351-0052
0.53	1	30	6	TMD 1.351-0053
0.54	1	30	6	TMD 1.351-0054
0.55	1	30	6	TMD 1.351-0055
0.56	1	30	6	TMD 1.351-0056
0.57	1	30	6	TMD 1.351-0057
0.58	1	30	6	TMD 1.351-0058
0.59	1	30	6	TMD 1.351-0059
0.60	1	30	6	TMD 1.351-0060
0.61	1	30	6	TMD 1.351-0061
0.62	1	30	6	TMD 1.351-0062
0.63	1	30	6	TMD 1.351-0063
0.64	1	30	6	TMD 1.351-0064
0.65	1	30	7	TMD 1.351-0065
0.66	1	30	7	TMD 1.351-0066
0.67	1	30	7	TMD 1.351-0067
0.68	1	30	7	TMD 1.351-0068
0.69	1	30	7	TMD 1.351-0069
0.70	1	30	7	TMD 1.351-0070
0.71	1	30	7	TMD 1.351-0071
0.72	1	30	7	TMD 1.351-0072
0.73	1	30	7	TMD 1.351-0073
0.74	1	30	7	TMD 1.351-0074
0.75	1	30	8	TMD 1.351-0075
0.76	1	30	8	TMD 1.351-0076
0.77	1	30	8	TMD 1.351-0077
0.78	1	30	8	TMD 1.351-0078
0.79	1	30	8	TMD 1.351-0079
0.80	1.5	30	8	TMD 1.351-0080

d h6	D h6	L	l	uncoated
0.81	1.5	30	8	TMD 1.351-0081
0.82	1.5	30	8	TMD 1.351-0082
0.83	1.5	30	8	TMD 1.351-0083
0.84	1.5	30	8	TMD 1.351-0084
0.85	1.5	30	8	TMD 1.351-0085
0.86	1.5	30	8	TMD 1.351-0086
0.87	1.5	30	8	TMD 1.351-0087
0.88	1.5	30	8	TMD 1.351-0088
0.89	1.5	30	8	TMD 1.351-0089
0.90	1.5	30	8	TMD 1.351-0090
0.91	1.5	30	8	TMD 1.351-0091
0.92	1.5	30	8	TMD 1.351-0092
0.93	1.5	30	8	TMD 1.351-0093
0.94	1.5	30	8	TMD 1.351-0094
0.95	1.5	30	10	TMD 1.351-0095
0.96	1.5	30	10	TMD 1.351-0096
0.97	1.5	30	10	TMD 1.351-0097
0.98	1.5	30	10	TMD 1.351-0098
0.99	1.5	30	10	TMD 1.351-0099
1.00	1.5	30	10	TMD 1.351-0100
1.01	1.5	30	10	TMD 1.351-0101
1.02	1.5	30	10	TMD 1.351-0102
1.03	1.5	30	10	TMD 1.351-0103
1.04	1.5	30	10	TMD 1.351-0104
1.05	1.5	30	10	TMD 1.351-0105
1.06	1.5	30	10	TMD 1.351-0106
1.07	1.5	30	10	TMD 1.351-0107
1.08	1.5	30	10	TMD 1.351-0108
1.09	1.5	30	10	TMD 1.351-0109
1.10	1.5	30	10	TMD 1.351-0110
1.11	1.5	30	10	TMD 1.351-0111
1.12	1.5	30	10	TMD 1.351-0112
1.13	1.5	30	10	TMD 1.351-0113
1.14	1.5	30	10	TMD 1.351-0114
1.15	1.5	30	12	TMD 1.351-0115
1.16	1.5	30	12	TMD 1.351-0116
1.17	1.5	30	12	TMD 1.351-0117
1.18	1.5	30	12	TMD 1.351-0118
1.19	1.5	30	12	TMD 1.351-0119
1.20	1.5	30	12	TMD 1.351-0120

d h6	D h6	L	l	uncoated
1.21	1.5	30	12	TMD 1.351-0121
1.22	1.5	30	12	TMD 1.351-0122
1.23	1.5	30	12	TMD 1.351-0123
1.24	1.5	30	12	TMD 1.351-0124
1.25	1.5	30	12	TMD 1.351-0125
1.26	1.5	30	12	TMD 1.351-0126
1.27	1.5	30	12	TMD 1.351-0127
1.28	1.5	30	12	TMD 1.351-0128
1.29	1.5	30	12	TMD 1.351-0129
1.30	1.5	30	12	TMD 1.351-0130
1.31	1.5	30	12	TMD 1.351-0131
1.32	1.5	30	12	TMD 1.351-0132
1.33	1.5	30	12	TMD 1.351-0133
1.34	1.5	30	12	TMD 1.351-0134
1.35	1.5	30	12	TMD 1.351-0135
1.36	1.5	30	12	TMD 1.351-0136
1.37	1.5	30	12	TMD 1.351-0137
1.38	1.5	30	12	TMD 1.351-0138
1.39	1.5	30	12	TMD 1.351-0139
1.40	1.5	30	12	TMD 1.351-0140
1.41	1.5	30	12	TMD 1.351-0141
1.42	1.5	30	12	TMD 1.351-0142
1.43	1.5	30	12	TMD 1.351-0143
1.44	1.5	30	12	TMD 1.351-0144
1.45	1.5	30	12	TMD 1.351-0145
1.46	1.5	30	12	TMD 1.351-0146
1.47	1.5	30	12	TMD 1.351-0147
1.48	1.5	30	12	TMD 1.351-0148
1.49	1.5	30	12	TMD 1.351-0149
1.50	2	30	12	TMD 1.351-0150
1.51	2	30	12	TMD 1.351-0151
1.52	2	30	12	TMD 1.351-0152
1.53	2	30	12	TMD 1.351-0153
1.54	2	30	12	TMD 1.351-0154
1.55	2	30	12	TMD 1.351-0155
1.56	2	30	12	TMD 1.351-0156
1.57	2	30	12	TMD 1.351-0157
1.58	2	30	12	TMD 1.351-0158
1.59	2	30	12	TMD 1.351-0159
1.60	2	30	12	TMD 1.351-0160

d h6	D h6	L	l	uncoated
1.61	2	30	12	TMD 1.351-0161
1.62	2	30	12	TMD 1.351-0162
1.63	2	30	12	TMD 1.351-0163
1.64	2	30	12	TMD 1.351-0164
1.65	2	30	12	TMD 1.351-0165
1.66	2	30	12	TMD 1.351-0166
1.67	2	30	12	TMD 1.351-0167
1.68	2	30	12	TMD 1.351-0168
1.69	2	30	12	TMD 1.351-0169
1.70	2	30	12	TMD 1.351-0170
1.71	2	30	12	TMD 1.351-0171
1.72	2	30	12	TMD 1.351-0172
1.73	2	30	12	TMD 1.351-0173
1.74	2	30	12	TMD 1.351-0174
1.75	2	30	12	TMD 1.351-0175
1.76	2	30	12	TMD 1.351-0176
1.77	2	30	12	TMD 1.351-0177
1.78	2	30	12	TMD 1.351-0178
1.79	2	30	12	TMD 1.351-0179
1.80	2	30	12	TMD 1.351-0180
1.81	2	30	12	TMD 1.351-0181
1.82	2	30	12	TMD 1.351-0182
1.83	2	30	12	TMD 1.351-0183
1.84	2	30	12	TMD 1.351-0184
1.85	2	30	12	TMD 1.351-0185
1.86	2	30	12	TMD 1.351-0186
1.87	2	30	12	TMD 1.351-0187
1.88	2	30	12	TMD 1.351-0188
1.89	2	30	12	TMD 1.351-0189
1.90	2	30	12	TMD 1.351-0190
1.91	2	30	12	TMD 1.351-0191
1.92	2	30	12	TMD 1.351-0192
1.93	2	30	12	TMD 1.351-0193
1.94	2	30	12	TMD 1.351-0194
1.95	2	30	12	TMD 1.351-0195
1.96	2	30	12	TMD 1.351-0196
1.97	2	30	12	TMD 1.351-0197
1.98	2	30	12	TMD 1.351-0198
1.99	2	30	12	TMD 1.351-0199
2.00	2.5	30	12	TMD 1.351-0200



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usage
Schnittdaten

Rivestimenti | elica sinistra
Coating | left hand helix
Revêtement | hélice à gauche
Beschichtung | Linksschneidend

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

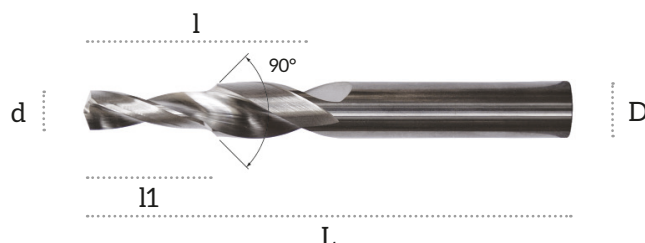
TD GRAD

Punta elicoidale a gradino

Step drill

Foret à étage

Stufenbohrer

TUNIT
NORM

	d h8	D h6	L	l	l1	uncoated	AlTiSiN
M3	2.50	6.00	66	20	8.8	TD GRADM3-0250	TD GRADM3-0250L
M4	3.30	6.00	66	24	11.4	TD GRADM4-0330	TD GRADM4-0330L
M5	4.20	6.00	66	28	13.6	TD GRADM5-0420	TD GRADM5-0420L
M6	5.00	8.00	79	34	16.5	TD GRADM6-0500	TD GRADM6-0500L
M8	6.80	10.00	89	47	21.0	TD GRADM8-0680	TD GRADM8-0680L
M10	8.50	12.00	102	55	25.5	TD GRADM10-0850	TD GRADM10-0850L
M12	10.20	14.00	107	60	30.0	TD GRADM12-1020	TD GRADM12-1020L
M14	12.00	16.00	115	65	34.5	TD GRADM14-1200	TD GRADM14-1200L
M16	14.00	18.00	123	73	38.5	TD GRADM16-1400	TD GRADM16-1400L



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

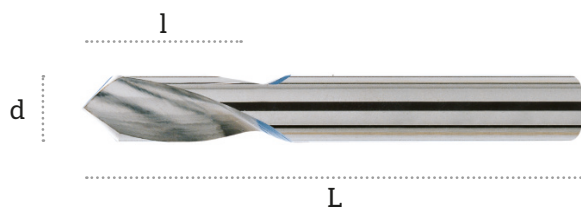
TD 1.410

Punta a centrare 90°

Center drill 90°

Foret à centrage 90°

NC-Anbohrer 90°



d h6	L	l	uncoated	AlTiSiN
3.00	45	12	TD 1.410-0300	TD 1.410-0300L
4.00	50	15	TD 1.410-0400	TD 1.410-0400L
5.00	50	18	TD 1.410-0500	TD 1.410-0500L
6.00	50	21	TD 1.410-0600	TD 1.410-0600L
8.00	60	25	TD 1.410-0800	TD 1.410-0800L
10.00	70	27	TD 1.410-1000	TD 1.410-1000L
12.00	70	27	TD 1.410-1200	TD 1.410-1200L
14.00	75	30	TD 1.410-1400	TD 1.410-1400L
16.00	75	30	TD 1.410-1600	TD 1.410-1600L
18.00	100	33	TD 1.410-1800	TD 1.410-1800L
20.00	100	33	TD 1.410-2000	TD 1.410-2000L



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

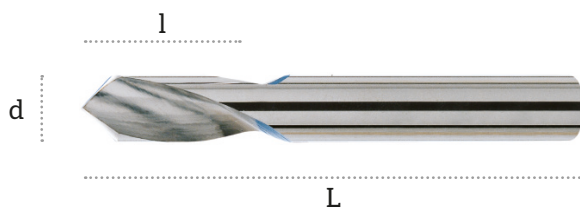
TD 1.420

Punta a centrare 100°

Center drill 100°

Foret à centrage 100°

NC-Anbohrer 100°



d h6	L	l	uncoated	AlTiSiN
6.00	50	21	TD 1.420-0600	TD 1.420-0600L
8.00	60	25	TD 1.420-0800	TD 1.420-0800L
10.00	70	27	TD 1.420-1000	TD 1.420-1000L
12.00	70	27	TD 1.420-1200	TD 1.420-1200L
16.00	75	30	TD 1.420-1600	TD 1.420-1600L



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

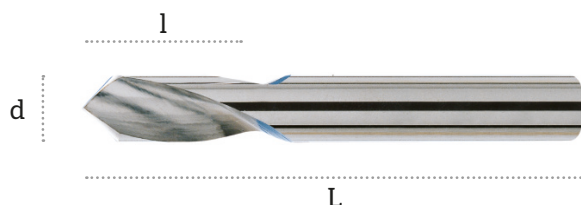
TD 1.400

Punta a centrare 120°

Center drill 120°

Foret à centrage 120°

NC-Anbohrer 120°



d h6	L	l	uncoated	AlTiSiN
3.00	45	12	TD 1.400-0300	TD 1.400-0300L
4.00	50	15	TD 1.400-0400	TD 1.400-0400L
5.00	50	18	TD 1.400-0500	TD 1.400-0500L
6.00	50	21	TD 1.400-0600	TD 1.400-0600L
8.00	60	25	TD 1.400-0800	TD 1.400-0800L
10.00	70	27	TD 1.400-1000	TD 1.400-1000L
12.00	70	27	TD 1.400-1200	TD 1.400-1200L
14.00	75	30	TD 1.400-1400	TD 1.400-1400L
16.00	75	30	TD 1.400-1600	TD 1.400-1600L
18.00	100	33	TD 1.400-1800	TD 1.400-1800L
20.00	100	33	TD 1.400-2000	TD 1.400-2000L



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



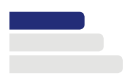
parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

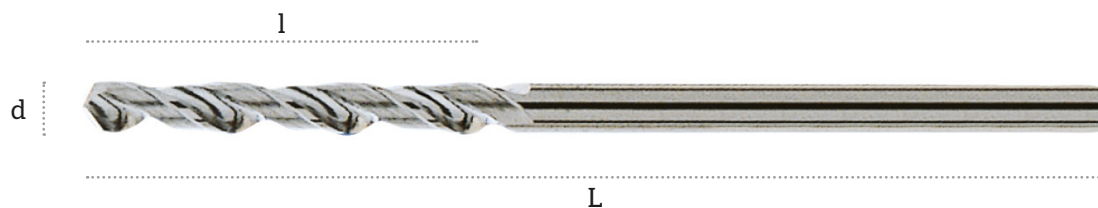




uncoated

TD 1.350

Punta elicoidale
Twist drill
 Foret hélicoïdale
Spiralbohrer



d h6	L	l	uncoated
0.70	30	6	TD 1.350-0070
0.75	30	8	TD 1.350-0075
0.80	30	8	TD 1.350-0080
0.85	30	9	TD 1.350-0085
0.90	30	9	TD 1.350-0090
0.95	30	10	TD 1.350-0095
1.00	30	10	TD 1.350-0100
1.05	30	10	TD 1.350-0105
1.10	30	10	TD 1.350-0110
1.15	30	12	TD 1.350-0115
1.20	30	12	TD 1.350-0120
1.25	30	12	TD 1.350-0125
1.30	30	12	TD 1.350-0130
1.35	30	12	TD 1.350-0135
1.40	30	12	TD 1.350-0140
1.45	30	12	TD 1.350-0145
1.50	30	12	TD 1.350-0150
1.55	40	16	TD 1.350-0155
1.60	40	16	TD 1.350-0160
1.65	40	16	TD 1.350-0165
1.70	40	16	TD 1.350-0170
1.75	40	16	TD 1.350-0175
1.80	40	16	TD 1.350-0180
1.85	40	16	TD 1.350-0185
1.90	40	16	TD 1.350-0190
1.95	40	16	TD 1.350-0195

d h6	L	l	uncoated
2.00	40	16	TD 1.350-0200
2.05	40	18	TD 1.350-0205
2.10	40	18	TD 1.350-0210
2.15	40	18	TD 1.350-0215
2.20	40	18	TD 1.350-0220
2.25	40	18	TD 1.350-0225
2.30	40	18	TD 1.350-0230
2.35	40	18	TD 1.350-0235
2.40	40	18	TD 1.350-0240
2.45	40	18	TD 1.350-0245
2.50	40	18	TD 1.350-0250
2.55	45	18	TD 1.350-0255
2.60	45	18	TD 1.350-0260
2.65	45	18	TD 1.350-0265
2.70	45	18	TD 1.350-0270
2.75	45	18	TD 1.350-0275
2.80	45	18	TD 1.350-0280
2.85	45	18	TD 1.350-0285
2.90	45	18	TD 1.350-0290
2.95	45	18	TD 1.350-0295
3.00	45	18	TD 1.350-0300
3.10	50	20	TD 1.350-0310
3.15	50	20	TD 1.350-03175
3.20	50	20	TD 1.350-0320
3.30	50	20	TD 1.350-0330
3.40	50	20	TD 1.350-0340

d h6	L	l	uncoated
3.50	50	20	TD 1.350-0350
3.60	50	20	TD 1.350-0360
3.70	50	20	TD 1.350-0370
3.80	50	20	TD 1.350-0380
3.90	50	20	TD 1.350-0390
4.00	50	20	TD 1.350-0400
4.10	50	25	TD 1.350-0410
4.20	50	25	TD 1.350-0420
4.30	50	25	TD 1.350-0430
4.40	50	25	TD 1.350-0440
4.50	50	25	TD 1.350-0450
4.60	50	25	TD 1.350-0460
4.70	50	25	TD 1.350-0470
4.80	50	25	TD 1.350-0480
4.90	50	25	TD 1.350-0490
5.00	50	25	TD 1.350-0500
5.10	50	25	TD 1.350-0510
5.20	50	25	TD 1.350-0520
5.30	50	25	TD 1.350-0530
5.40	50	25	TD 1.350-0540
5.50	50	25	TD 1.350-0550
5.60	50	25	TD 1.350-0560
5.70	50	25	TD 1.350-0570
5.80	50	25	TD 1.350-0580
5.90	50	25	TD 1.350-0590
6.00	50	25	TD 1.350-0600

< 3.00 mm diametri semidecimali | < 2.00 mm spirale 35°
 < 3.00 mm halfdecimal diameters | < 2.00 mm 35° helix
 < 3.00 mm diamètres semi-décimaux | < 2.00 mm 35° hélice
 < 3.00 mm halbzehtel-Durchmesser | < 2.00 mm 35° Spirale



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



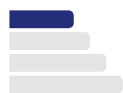
parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
 Revêtement | exécution spéciale | diamètres intermédiaires
 Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

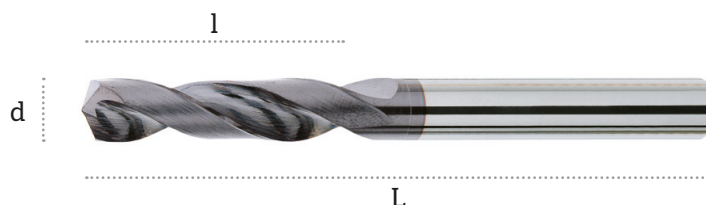
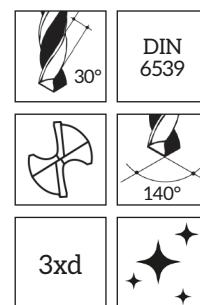




AlTiSiN

THP 2.900

Punta elicoidale ad alte prestazioni
Solid carbide high performance twist drill
Foret hélicoïdale à haute performance
Hochleistungsbohrer



d m7	L	l	AlTiSiN
2.80	46	16	THP 2.900-0280
2.90	46	16	THP 2.900-0290
3.00	46	16	THP 2.900-0300
3.10	49	18	THP 2.900-0310
3.20	49	18	THP 2.900-0320
3.30	49	18	THP 2.900-0330
3.40	52	20	THP 2.900-0340
3.50	52	20	THP 2.900-0350
3.60	52	20	THP 2.900-0360
3.70	52	20	THP 2.900-0370
3.80	55	22	THP 2.900-0380
3.90	55	22	THP 2.900-0390
4.00	55	22	THP 2.900-0400
4.10	55	22	THP 2.900-0410
4.20	55	22	THP 2.900-0420
4.30	58	24	THP 2.900-0430
4.40	58	24	THP 2.900-0440
4.50	58	24	THP 2.900-0450
4.60	58	24	THP 2.900-0460
4.70	58	24	THP 2.900-0470
4.80	62	26	THP 2.900-0480
4.90	62	26	THP 2.900-0490
5.00	62	26	THP 2.900-0500
5.10	62	26	THP 2.900-0510
5.20	62	26	THP 2.900-0520

d m7	L	l	AlTiSiN
5.30	62	26	THP 2.900-0530
5.40	66	28	THP 2.900-0540
5.50	66	28	THP 2.900-0550
5.60	66	28	THP 2.900-0560
5.70	66	28	THP 2.900-0570
5.80	66	28	THP 2.900-0580
5.90	66	28	THP 2.900-0590
6.00	66	28	THP 2.900-0600
6.10	70	31	THP 2.900-0610
6.20	70	31	THP 2.900-0620
6.30	70	31	THP 2.900-0630
6.35	70	31	THP 2.900-0635
6.40	70	31	THP 2.900-0640
6.50	70	31	THP 2.900-0650
6.60	70	31	THP 2.900-0660
6.70	70	31	THP 2.900-0670
6.80	74	34	THP 2.900-0680
6.90	74	34	THP 2.900-0690
7.00	74	34	THP 2.900-0700
7.10	74	34	THP 2.900-0710
7.20	74	34	THP 2.900-0720
7.30	74	34	THP 2.900-0730
7.40	74	34	THP 2.900-0740
7.50	74	34	THP 2.900-0750
7.60	79	37	THP 2.900-0760

d m7	L	l	AlTiSiN
7.70	79	37	THP 2.900-0770
7.80	79	37	THP 2.900-0780
7.90	79	37	THP 2.900-0790
8.00	79	37	THP 2.900-0800
8.10	79	37	THP 2.900-0810
8.20	79	37	THP 2.900-0820
8.30	79	37	THP 2.900-0830
8.40	79	37	THP 2.900-0840
8.50	79	37	THP 2.900-0850
8.60	84	40	THP 2.900-0860
8.70	84	40	THP 2.900-0870
8.80	84	40	THP 2.900-0880
8.90	84	40	THP 2.900-0890
9.00	84	40	THP 2.900-0900
9.10	84	40	THP 2.900-0910
9.20	84	40	THP 2.900-0920
9.30	84	40	THP 2.900-0930
9.40	84	40	THP 2.900-0940
9.50	84	40	THP 2.900-0950
9.60	89	43	THP 2.900-0960
9.70	89	43	THP 2.900-0970

d m7	L	l	AlTiSiN
9.80	89	43	THP 2.900-0980
9.90	89	43	THP 2.900-0990
10.00	89	43	THP 2.900-1000
10.10	89	43	THP 2.900-1010
10.20	89	43	THP 2.900-1020
10.50	89	43	THP 2.900-1050
10.80	95	47	THP 2.900-1080
11.00	95	47	THP 2.900-1100
11.50	95	47	THP 2.900-1150
12.00	102	51	THP 2.900-1200
12.50	102	51	THP 2.900-1250
13.00	102	51	THP 2.900-1300
13.50	107	54	THP 2.900-1350
14.00	107	54	THP 2.900-1400
14.50	111	56	THP 2.900-1450
15.00	111	56	THP 2.900-1500
15.50	115	58	THP 2.900-1550
16.00	115	58	THP 2.900-1600
18.00	123	62	THP 2.900-1800
20.00	131	66	THP 2.900-2000



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



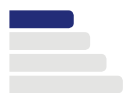
parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
 Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen




T2C Plus

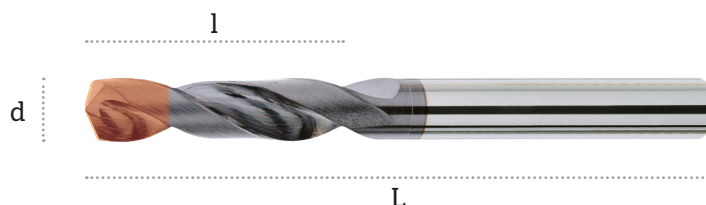
THP 2.900 DC

Punta elicoidale ad alte prestazioni con rivestimento multifunzionale

Solid carbide high performance twist drill with multifunctional coating

Foret hélicoïdal à haute performance avec un revêtement multifonction

Hochleistungsbohrer mit Multifunktionsbeschichtung

 DIN
6539


d m7	L	l	T2C Plus
2.80	46	16	THP 2.900-0280DC
2.90	46	16	THP 2.900-0290DC
3.00	46	16	THP 2.900-0300DC
3.10	49	18	THP 2.900-0310DC
3.20	49	18	THP 2.900-0320DC
3.30	49	18	THP 2.900-0330DC
3.40	52	20	THP 2.900-0340DC
3.50	52	20	THP 2.900-0350DC
3.60	52	20	THP 2.900-0360DC
3.70	52	20	THP 2.900-0370DC
3.80	55	22	THP 2.900-0380DC
3.90	55	22	THP 2.900-0390DC
4.00	55	22	THP 2.900-0400DC
4.10	55	22	THP 2.900-0410DC
4.20	55	22	THP 2.900-0420DC
4.30	58	24	THP 2.900-0430DC
4.40	58	24	THP 2.900-0440DC
4.50	58	24	THP 2.900-0450DC
4.60	58	24	THP 2.900-0460DC
4.70	58	24	THP 2.900-0470DC
4.80	62	26	THP 2.900-0480DC
4.90	62	26	THP 2.900-0490DC
5.00	62	26	THP 2.900-0500DC
5.10	62	26	THP 2.900-0510DC
5.20	62	26	THP 2.900-0520DC

d m7	L	l	T2C Plus
5.30	62	26	THP 2.900-0530DC
5.40	66	28	THP 2.900-0540DC
5.50	66	28	THP 2.900-0550DC
5.60	66	28	THP 2.900-0560DC
5.70	66	28	THP 2.900-0570DC
5.80	66	28	THP 2.900-0580DC
5.90	66	28	THP 2.900-0590DC
6.00	66	28	THP 2.900-0600DC
6.10	70	31	THP 2.900-0610DC
6.20	70	31	THP 2.900-0620DC
6.30	70	31	THP 2.900-0630DC
6.35	70	31	THP 2.900-0635DC
6.40	70	31	THP 2.900-0640DC
6.50	70	31	THP 2.900-0650DC
6.60	70	31	THP 2.900-0660DC
6.70	70	31	THP 2.900-0670DC
6.80	74	34	THP 2.900-0680DC
6.90	74	34	THP 2.900-0690DC
7.00	74	34	THP 2.900-0700DC
7.10	74	34	THP 2.900-0710DC
7.20	74	34	THP 2.900-0720DC
7.30	74	34	THP 2.900-0730DC
7.40	74	34	THP 2.900-0740DC
7.50	74	34	THP 2.900-0750DC
7.60	79	37	THP 2.900-0760DC

d m7	L	l	T2C Plus
7.70	79	37	THP 2.900-0770DC
7.80	79	37	THP 2.900-0780DC
7.90	79	37	THP 2.900-0790DC
8.00	79	37	THP 2.900-0800DC
8.10	79	37	THP 2.900-0810DC
8.20	79	37	THP 2.900-0820DC
8.30	79	37	THP 2.900-0830DC
8.40	79	37	THP 2.900-0840DC
8.50	79	37	THP 2.900-0850DC
8.60	84	40	THP 2.900-0860DC
8.70	84	40	THP 2.900-0870DC
8.80	84	40	THP 2.900-0880DC
8.90	84	40	THP 2.900-0890DC
9.00	84	40	THP 2.900-0900DC
9.10	84	40	THP 2.900-0910DC
9.20	84	40	THP 2.900-0920DC
9.30	84	40	THP 2.900-0930DC
9.40	84	40	THP 2.900-0940DC
9.50	84	40	THP 2.900-0950DC
9.60	89	43	THP 2.900-0960DC
9.70	89	43	THP 2.900-0970DC

d m7	L	l	T2C Plus
9.80	89	43	THP 2.900-0980DC
9.90	89	43	THP 2.900-0990DC
10.00	89	43	THP 2.900-1000DC
10.10	89	43	THP 2.900-1010DC
10.20	89	43	THP 2.900-1020DC
10.50	89	43	THP 2.900-1050DC
10.80	95	47	THP 2.900-1080DC
11.00	95	47	THP 2.900-1100DC
11.50	95	47	THP 2.900-1150DC
12.00	102	51	THP 2.900-1200DC
12.50	102	51	THP 2.900-1250DC
13.00	102	51	THP 2.900-1300DC
13.50	107	54	THP 2.900-1350DC
14.00	107	54	THP 2.900-1400DC
14.50	111	56	THP 2.900-1450DC
15.00	111	56	THP 2.900-1500DC
15.50	115	58	THP 2.900-1550DC
16.00	115	58	THP 2.900-1600DC
18.00	123	62	THP 2.900-1800DC
20.00	131	66	THP 2.900-2000DC



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



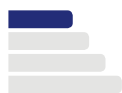
parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

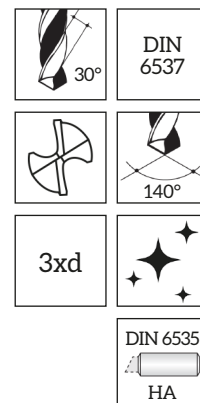
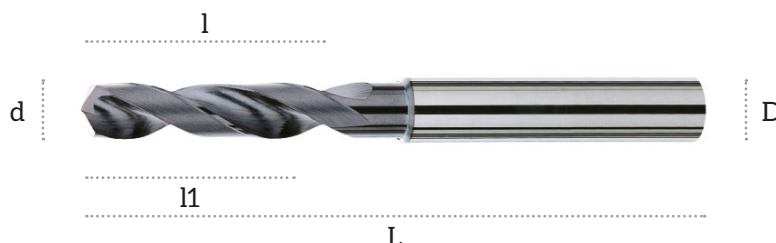




AITiSiN

THP 2.910 ST

Punta elicoidale ad alte prestazioni
Solid carbide high performance twist drill
 Foret hélicoïdale à haute performance
Hochleistungsbohrer



d m7	D h6	L	l	l1	AITiSiN
2.50	6.00	62	20	14	THP2.910ST-0250
2.80	6.00	62	20	14	THP2.910ST-0280
3.00	6.00	62	20	14	THP2.910ST-0300
3.10	6.00	62	20	14	THP2.910ST-0310
3.20	6.00	62	20	14	THP2.910ST-0320
3.30	6.00	62	20	14	THP2.910ST-0330
3.40	6.00	62	20	14	THP2.910ST-0340
3.50	6.00	62	20	14	THP2.910ST-0350
3.60	6.00	62	20	17	THP2.910ST-0360
3.70	6.00	62	20	17	THP2.910ST-0370
3.80	6.00	66	24	17	THP2.910ST-0380
3.90	6.00	66	24	17	THP2.910ST-0390
4.00	6.00	66	24	17	THP2.910ST-0400
4.10	6.00	66	24	17	THP2.910ST-0410
4.20	6.00	66	24	17	THP2.910ST-0420
4.30	6.00	66	24	17	THP2.910ST-0430
4.40	6.00	66	24	17	THP2.910ST-0440
4.50	6.00	66	24	17	THP2.910ST-0450
4.60	6.00	66	24	20	THP2.910ST-0460
4.70	6.00	66	24	20	THP2.910ST-0470
4.80	6.00	66	28	20	THP2.910ST-0480
4.90	6.00	66	28	20	THP2.910ST-0490
5.00	6.00	66	28	20	THP2.910ST-0500
5.10	6.00	66	28	20	THP2.910ST-0510
5.20	6.00	66	28	20	THP2.910ST-0520

d m7	D h6	L	l	l1	AlTiSiN
5.30	6.00	66	28	20	THP2.910ST-0530
5.40	6.00	66	28	20	THP2.910ST-0540
5.50	6.00	66	28	20	THP2.910ST-0550
5.60	6.00	66	28	20	THP2.910ST-0560
5.70	6.00	66	28	20	THP2.910ST-0570
5.80	6.00	66	28	20	THP2.910ST-0580
5.90	6.00	66	28	20	THP2.910ST-0590
6.00	6.00	66	28	20	THP2.910ST-0600
6.30	8.00	79	34	24	THP2.910ST-0630
6.50	8.00	79	34	24	THP2.910ST-0650
6.80	8.00	79	34	24	THP2.910ST-0680
7.00	8.00	79	34	24	THP2.910ST-0700
7.50	8.00	79	41	29	THP2.910ST-0750
7.80	8.00	79	41	29	THP2.910ST-0780
8.00	8.00	79	41	29	THP2.910ST-0800
8.50	10.00	89	47	35	THP2.910ST-0850
8.80	10.00	89	47	35	THP2.910ST-0880
9.00	10.00	89	47	35	THP2.910ST-0900
9.20	10.00	89	47	35	THP2.910ST-0920
9.50	10.00	89	47	35	THP2.910ST-0950
9.80	10.00	89	47	35	THP2.910ST-0980
10.00	10.00	89	47	35	THP2.910ST-1000
10.20	12.00	102	55	40	THP2.910ST-1020
10.50	12.00	102	55	40	THP2.910ST-1050
10.80	12.00	102	55	40	THP2.910ST-1080
11.00	12.00	102	55	40	THP2.910ST-1100
11.50	12.00	102	55	40	THP2.910ST-1150
11.80	12.00	102	55	40	THP2.910ST-1180
12.00	12.00	102	55	40	THP2.910ST-1200
12.50	14.00	107	60	43	THP2.910ST-1250
12.80	14.00	107	60	43	THP2.910ST-1280
13.00	14.00	107	60	43	THP2.910ST-1300
13.50	14.00	107	60	43	THP2.910ST-1350
14.00	14.00	107	60	43	THP2.910ST-1400



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HE
Coating | out of range | other sizes | DIN 6535 HE
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HE
Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HE

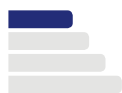
Su richiesta
On request
 Sur demande
Auf Anfrage



parametri di lavoro
cutting data
 paramètres d'usinage
Schnittdaten

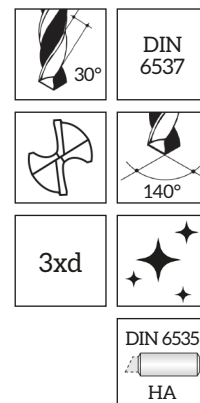
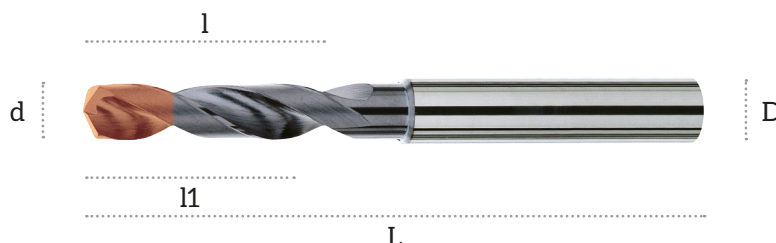
Applicazioni
Application groups
 Groupe d'emploi
Anwendungsgruppen




T2C Plus

THP 2.910 ST DC

Punta elicoidale ad alte prestazioni con rivestimento multifunzionale
Solid carbide high performance twist drill with multifunctional coating
 Foret hélicoïdal à haute performance avec un revêtement multifonction
Hochleistungsbohrer mit Multifunktionsbeschichtung



d m7	D h6	L	l	l1	T2C Plus
2.50	6.00	62	20	14	THP2.910ST-0250DC
2.80	6.00	62	20	14	THP2.910ST-0280DC
3.00	6.00	62	20	14	THP2.910ST-0300DC
3.10	6.00	62	20	14	THP2.910ST-0310DC
3.20	6.00	62	20	14	THP2.910ST-0320DC
3.30	6.00	62	20	14	THP2.910ST-0330DC
3.40	6.00	62	20	14	THP2.910ST-0340DC
3.50	6.00	62	20	14	THP2.910ST-0350DC
3.60	6.00	62	20	17	THP2.910ST-0360DC
3.70	6.00	62	20	17	THP2.910ST-0370DC
3.80	6.00	66	24	17	THP2.910ST-0380DC
3.90	6.00	66	24	17	THP2.910ST-0390DC
4.00	6.00	66	24	17	THP2.910ST-0400DC
4.10	6.00	66	24	17	THP2.910ST-0410DC
4.20	6.00	66	24	17	THP2.910ST-0420DC
4.30	6.00	66	24	17	THP2.910ST-0430DC
4.40	6.00	66	24	17	THP2.910ST-0440DC
4.50	6.00	66	24	17	THP2.910ST-0450DC
4.60	6.00	66	24	20	THP2.910ST-0460DC
4.70	6.00	66	24	20	THP2.910ST-0470DC
4.80	6.00	66	28	20	THP2.910ST-0480DC
4.90	6.00	66	28	20	THP2.910ST-0490DC
5.00	6.00	66	28	20	THP2.910ST-0500DC
5.10	6.00	66	28	20	THP2.910ST-0510DC
5.20	6.00	66	28	20	THP2.910ST-0520DC

d m7	D h6	L	l	l1	T2C Plus
5.30	6.00	66	28	20	THP2.910ST-0530DC
5.40	6.00	66	28	20	THP2.910ST-0540DC
5.50	6.00	66	28	20	THP2.910ST-0550DC
5.60	6.00	66	28	20	THP2.910ST-0560DC
5.70	6.00	66	28	20	THP2.910ST-0570DC
5.80	6.00	66	28	20	THP2.910ST-0580DC
5.90	6.00	66	28	20	THP2.910ST-0590DC
6.00	6.00	66	28	20	THP2.910ST-0600DC
6.30	8.00	79	34	24	THP2.910ST-0630DC
6.50	8.00	79	34	24	THP2.910ST-0650DC
6.80	8.00	79	34	24	THP2.910ST-0680DC
7.00	8.00	79	34	24	THP2.910ST-0700DC
7.50	8.00	79	41	29	THP2.910ST-0750DC
7.80	8.00	79	41	29	THP2.910ST-0780DC
8.00	8.00	79	41	29	THP2.910ST-0800DC
8.50	10.00	89	47	35	THP2.910ST-0850DC
8.80	10.00	89	47	35	THP2.910ST-0880DC
9.00	10.00	89	47	35	THP2.910ST-0900DC
9.20	10.00	89	47	35	THP2.910ST-0920DC
9.50	10.00	89	47	35	THP2.910ST-0950DC
9.80	10.00	89	47	35	THP2.910ST-0980DC
10.00	10.00	89	47	35	THP2.910ST-1000DC
10.20	12.00	102	55	40	THP2.910ST-1020DC
10.50	12.00	102	55	40	THP2.910ST-1050DC
10.80	12.00	102	55	40	THP2.910ST-1080DC
11.00	12.00	102	55	40	THP2.910ST-1100DC
11.50	12.00	102	55	40	THP2.910ST-1150DC
11.80	12.00	102	55	40	THP2.910ST-1180DC
12.00	12.00	102	55	40	THP2.910ST-1200DC
12.50	14.00	107	60	43	THP2.910ST-1250DC
12.80	14.00	107	60	43	THP2.910ST-1280DC
13.00	14.00	107	60	43	THP2.910ST-1300DC
13.50	14.00	107	60	43	THP2.910ST-1350DC
14.00	14.00	107	60	43	THP2.910ST-1400DC



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Rivestimenti | *esecuzione speciale* | diametri intermedi | DIN 6535 HE
Coating | *out of range* | *other sizes* | DIN 6535 HE
Revêtement | *exécution spéciale* | diamètres intermédiaires | DIN 6535 HE
Beschichtung | *Sonderausführungen* | *Zwischenabmessungen* | DIN 6535 HE

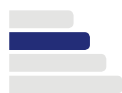
Su richiesta
On request
Sur demande
Auf Anfrage



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

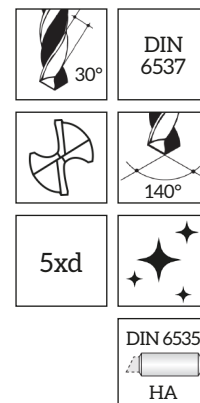
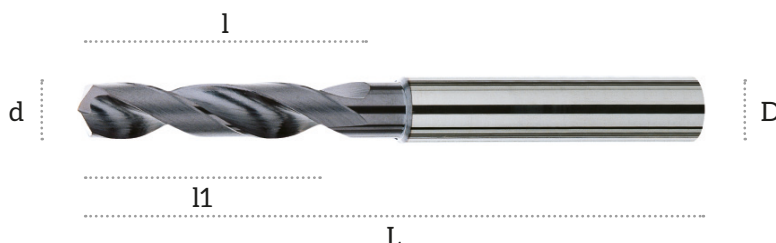




AlTiSiN

THP 2.950 ST

Punta elicoidale ad alte prestazioni
Solid carbide high performance twist drill
 Foret hélicoïdale à haute performance
Hochleistungsbohrer



d m7	D h6	L	l	l1	AlTiSiN
4.00	6.00	74	36	29	THP2.950ST-0400
4.20	6.00	74	36	29	THP2.950ST-0420
4.50	6.00	74	36	29	THP2.950ST-0450
5.00	6.00	82	44	35	THP2.950ST-0500
5.10	6.00	82	44	35	THP2.950ST-0510
5.50	6.00	82	44	35	THP2.950ST-0550
6.00	6.00	82	44	35	THP2.950ST-0600
6.50	8.00	91	53	43	THP2.950ST-0650
6.80	8.00	91	53	43	THP2.950ST-0680
7.00	8.00	91	53	43	THP2.950ST-0700
7.50	8.00	91	53	43	THP2.950ST-0750
8.00	8.00	91	53	43	THP2.950ST-0800
8.50	10.00	103	61	49	THP2.950ST-0850
8.80	10.00	103	61	49	THP2.950ST-0880
9.00	10.00	103	61	49	THP2.950ST-0900
9.50	10.00	103	61	49	THP2.950ST-0950
10.00	10.00	103	61	49	THP2.950ST-1000
10.50	12.00	118	71	56	THP2.950ST-1050
11.00	12.00	118	71	56	THP2.950ST-1100
12.00	12.00	118	71	56	THP2.950ST-1200



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt



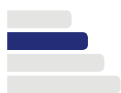
parametri di lavoro
cutting data
 paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HE
Coating | out of range | other sizes | DIN 6535 HE
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HE
 Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HE

Su richiesta
On request
 Sur demande
Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

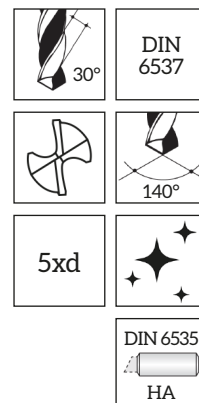
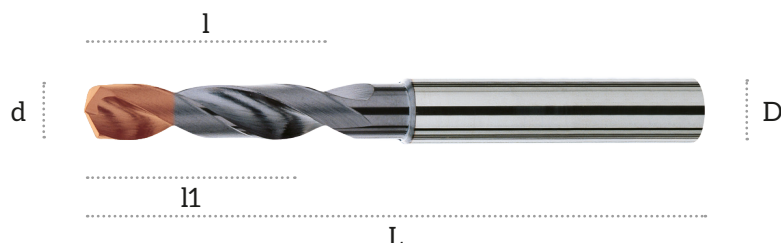




T2C Plus

THP 2.950 ST DC

Punta elicoidale ad alte prestazioni con rivestimento multifunzionale
Solid carbide high performance twist drill with multifunctional coating
 Foret hélicoïdal à haute performance avec un revêtement multifonction
 Hochleistungsbohrer mit Multifunktionsbeschichtung



d m7	D h6	L	l	l1	T2C Plus
4.00	6.00	74	36	29	THP2.950ST-0400DC
4.20	6.00	74	36	29	THP2.950ST-0420DC
4.50	6.00	74	36	29	THP2.950ST-0450DC
5.00	6.00	82	44	35	THP2.950ST-0500DC
5.10	6.00	82	44	35	THP2.950ST-0510DC
5.50	6.00	82	44	35	THP2.950ST-0550DC
6.00	6.00	82	44	35	THP2.950ST-0600DC
6.50	8.00	91	53	43	THP2.950ST-0650DC
6.80	8.00	91	53	43	THP2.950ST-0680DC
7.00	8.00	91	53	43	THP2.950ST-0700DC
7.50	8.00	91	53	43	THP2.950ST-0750DC
8.00	8.00	91	53	43	THP2.950ST-0800DC
8.50	10.00	103	61	49	THP2.950ST-0850DC
8.80	10.00	103	61	49	THP2.950ST-0880DC
9.00	10.00	103	61	49	THP2.950ST-0900DC
9.50	10.00	103	61	49	THP2.950ST-0950DC
10.00	10.00	103	61	49	THP2.950ST-1000DC
10.50	12.00	118	71	56	THP2.950ST-1050DC
11.00	12.00	118	71	56	THP2.950ST-1100DC
12.00	12.00	118	71	56	THP2.950ST-1200DC



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HE
Coating | out of range | other sizes | DIN 6535 HE
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HE
 Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HE

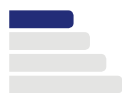
Su richiesta
On request
 Sur demande
 Auf Anfrage



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

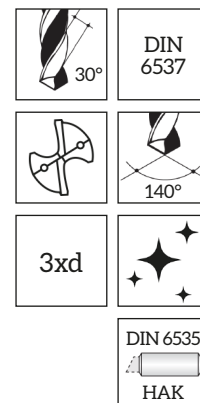
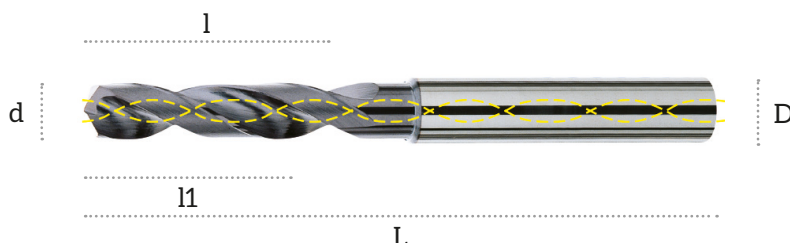




AITiSiN

THP 2.923 ST

Punta elicoidale ad alte prestazioni con fori di lubrificazione
Solid carbide high performance twist drill with interior cooling supplies
Foret hélicoïdale à haute performance avec trous d'huiles
Hochleistungsbohrer mit Innenkühlungen



d m7	D h6	L	l	l1	AITiSiN
3.00	6.00	62	20	14	THP2.923ST-0300
3.10	6.00	62	20	14	THP2.923ST-0310
3.30	6.00	62	20	14	THP2.923ST-0330
3.50	6.00	62	20	14	THP2.923ST-0350
3.70	6.00	62	20	14	THP2.923ST-0370
3.80	6.00	66	24	17	THP2.923ST-0380
4.00	6.00	66	24	17	THP2.923ST-0400
4.20	6.00	66	24	17	THP2.923ST-0420
4.50	6.00	66	24	17	THP2.923ST-0450
4.80	6.00	66	28	20	THP2.923ST-0480
5.00	6.00	66	28	20	THP2.923ST-0500
5.10	6.00	66	28	20	THP2.923ST-0510
5.20	6.00	66	28	20	THP2.923ST-0520
5.50	6.00	66	28	20	THP2.923ST-0550
5.80	6.00	66	28	20	THP2.923ST-0580
6.00	6.00	66	28	20	THP2.923ST-0600
6.30	8.00	79	34	24	THP2.923ST-0630
6.50	8.00	79	34	24	THP2.923ST-0650
6.80	8.00	79	34	24	THP2.923ST-0680
7.00	8.00	79	34	24	THP2.923ST-0700
7.50	8.00	79	41	29	THP2.923ST-0750
7.80	8.00	79	41	29	THP2.923ST-0780
8.00	8.00	79	41	29	THP2.923ST-0800
8.50	10.00	89	47	35	THP2.923ST-0850
8.80	10.00	89	47	35	THP2.923ST-0880
9.00	10.00	89	47	35	THP2.923ST-0900

d m7	D h6	L	l	l1	AITiSiN
9.20	10.00	89	47	35	THP2.923ST-0920
9.50	10.00	89	47	35	THP2.923ST-0950
9.80	10.00	89	47	35	THP2.923ST-0980
10.00	10.00	89	47	35	THP2.923ST-1000
10.20	12.00	102	55	40	THP2.923ST-1020
10.50	12.00	102	55	40	THP2.923ST-1050
10.80	12.00	102	55	40	THP2.923ST-1080
11.00	12.00	102	55	40	THP2.923ST-1100
11.50	12.00	102	55	40	THP2.923ST-1150
11.80	12.00	102	55	40	THP2.923ST-1180
12.00	12.00	102	55	40	THP2.923ST-1200
12.50	14.00	107	60	43	THP2.923ST-1250
12.80	14.00	107	60	43	THP2.923ST-1280
13.00	14.00	107	60	43	THP2.923ST-1300
13.50	14.00	107	60	43	THP2.923ST-1350
14.00	14.00	107	60	43	THP2.923ST-1400
14.50	16.00	115	65	45	THP2.923ST-1450
15.00	16.00	115	65	45	THP2.923ST-1500
15.50	16.00	115	65	45	THP2.923ST-1550
16.00	16.00	115	65	45	THP2.923ST-1600
16.50	18.00	123	73	51	THP2.923ST-1650
17.00	18.00	123	73	51	THP2.923ST-1700
17.50	18.00	123	73	51	THP2.923ST-1750
18.00	18.00	123	73	51	THP2.923ST-1800
20.00	20.00	131	79	55	THP2.923ST-2000



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

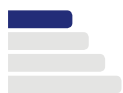
Su richiesta
On request
Sur demande
Auf Anfrage



parametri di lavoro
cutting data
paramètres d'usage
Schnittdaten

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

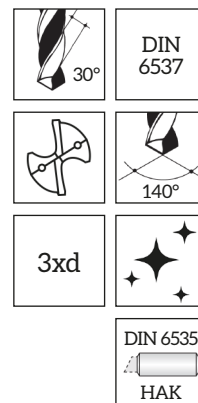
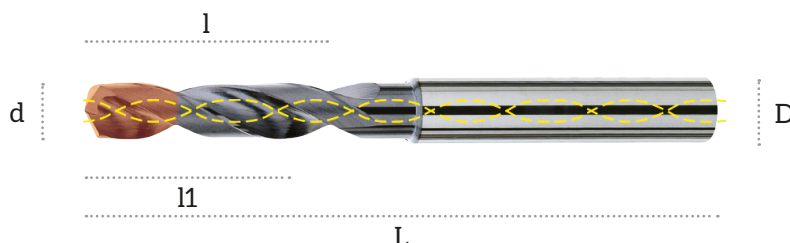




T2C Plus

THP 2.923 ST DC

Punta elicoidale ad alte prestazioni con rivestimento multifunzionale
Solid carbide high performance twist drill with multifunctional coating
 Foret hélicoïdal à haute performance avec un revêtement multifonction
 Hochleistungsbohrer mit Multifunktionsbeschichtung



d m7	D h6	L	l	l1	T2C Plus
3.00	6.00	62	20	14	THP2.923ST-0300
3.10	6.00	62	20	14	THP2.923ST-0310
3.30	6.00	62	20	14	THP2.923ST-0330
3.50	6.00	62	20	14	THP2.923ST-0350
3.70	6.00	62	20	14	THP2.923ST-0370
3.80	6.00	66	24	17	THP2.923ST-0380
4.00	6.00	66	24	17	THP2.923ST-0400
4.20	6.00	66	24	17	THP2.923ST-0420
4.50	6.00	66	24	17	THP2.923ST-0450
4.80	6.00	66	28	20	THP2.923ST-0480
5.00	6.00	66	28	20	THP2.923ST-0500
5.10	6.00	66	28	20	THP2.923ST-0510
5.20	6.00	66	28	20	THP2.923ST-0520
5.50	6.00	66	28	20	THP2.923ST-0550
5.80	6.00	66	28	20	THP2.923ST-0580
6.00	6.00	66	28	20	THP2.923ST-0600
6.30	8.00	79	34	24	THP2.923ST-0630
6.50	8.00	79	34	24	THP2.923ST-0650
6.80	8.00	79	34	24	THP2.923ST-0680
7.00	8.00	79	34	24	THP2.923ST-0700
7.50	8.00	79	41	29	THP2.923ST-0750
7.80	8.00	79	41	29	THP2.923ST-0780
8.00	8.00	79	41	29	THP2.923ST-0800
8.50	10.00	89	47	35	THP2.923ST-0850
8.80	10.00	89	47	35	THP2.923ST-0880
9.00	10.00	89	47	35	THP2.923ST-0900

d m7	D h6	L	l	l1	T2C Plus
9.20	10.00	89	47	35	THP2.923ST-0920
9.50	10.00	89	47	35	THP2.923ST-0950
9.80	10.00	89	47	35	THP2.923ST-0980
10.00	10.00	89	47	35	THP2.923ST-1000
10.20	12.00	102	55	40	THP2.923ST-1020
10.50	12.00	102	55	40	THP2.923ST-1050
10.80	12.00	102	55	40	THP2.923ST-1080
11.00	12.00	102	55	40	THP2.923ST-1100
11.50	12.00	102	55	40	THP2.923ST-1150
11.80	12.00	102	55	40	THP2.923ST-1180
12.00	12.00	102	55	40	THP2.923ST-1200
12.50	14.00	107	60	43	THP2.923ST-1250
12.80	14.00	107	60	43	THP2.923ST-1280
13.00	14.00	107	60	43	THP2.923ST-1300
13.50	14.00	107	60	43	THP2.923ST-1350
14.00	14.00	107	60	43	THP2.923ST-1400
14.50	16.00	115	65	45	THP2.923ST-1450
15.00	16.00	115	65	45	THP2.923ST-1500
15.50	16.00	115	65	45	THP2.923ST-1550
16.00	16.00	115	65	45	THP2.923ST-1600
16.50	18.00	123	73	51	THP2.923ST-1650
17.00	18.00	123	73	51	THP2.923ST-1700
17.50	18.00	123	73	51	THP2.923ST-1750
18.00	18.00	123	73	51	THP2.923ST-1800
20.00	20.00	131	79	55	THP2.923ST-2000



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
 Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

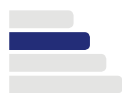
Su richiesta
On request
 Sur demande
 Auf Anfrage



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

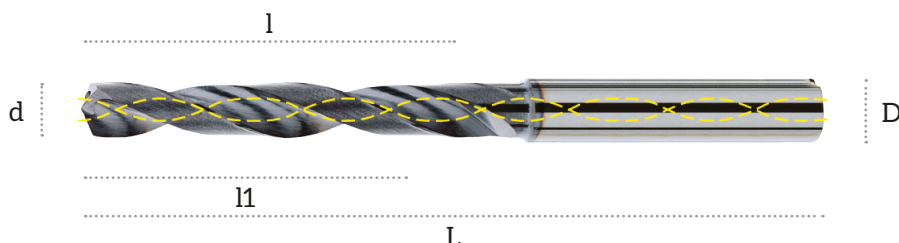
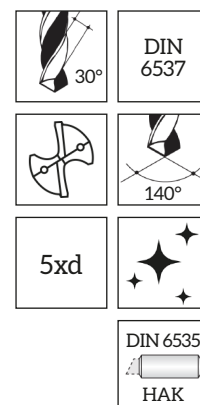




AlTiSiN

THP 2.920 ST

Punta elicoidale ad alte prestazioni con fori di lubrificazione
Solid carbide high performance twist drill with interior cooling supplies
 Foret hélicoïdale à haute performance avec trous d'huiles
 Hochleistungsbohrer mit Innenkühlungen



d m7	D h6	L	l	l1	AlTiSiN
3.00	6.00	66	28	23	THP2.920ST-0300
3.10	6.00	66	28	23	THP2.920ST-0310
3.30	6.00	66	28	23	THP2.920ST-0330
3.50	6.00	66	28	23	THP2.920ST-0350
3.70	6.00	66	28	23	THP2.920ST-0370
3.80	6.00	74	36	29	THP2.920ST-0380
4.00	6.00	74	36	29	THP2.920ST-0400
4.20	6.00	74	36	29	THP2.920ST-0420
4.50	6.00	74	36	29	THP2.920ST-0450
4.80	6.00	82	44	35	THP2.920ST-0480
5.00	6.00	82	44	35	THP2.920ST-0500
5.10	6.00	82	44	35	THP2.920ST-0510
5.20	6.00	82	44	35	THP2.920ST-0520
5.50	6.00	82	44	35	THP2.920ST-0550
5.80	6.00	82	44	35	THP2.920ST-0580
6.00	6.00	82	44	35	THP2.920ST-0600
6.30	8.00	91	53	43	THP2.920ST-0630
6.50	8.00	91	53	43	THP2.920ST-0650
6.80	8.00	91	53	43	THP2.920ST-0680
7.00	8.00	91	53	43	THP2.920ST-0700
7.50	8.00	91	53	43	THP2.920ST-0750
7.80	8.00	91	53	43	THP2.920ST-0780
8.00	8.00	91	53	43	THP2.920ST-0800
8.50	10.00	103	61	49	THP2.920ST-0850
8.80	10.00	103	61	49	THP2.920ST-0880
9.00	10.00	103	61	49	THP2.920ST-0900

d m7	D h6	L	l	l1	AlTiSiN
9.20	10.00	103	61	49	THP2.920ST-0920
9.50	10.00	103	61	49	THP2.920ST-0950
9.80	10.00	103	61	49	THP2.920ST-0980
10.00	10.00	103	61	49	THP2.920ST-1000
10.20	12.00	118	71	56	THP2.920ST-1020
10.50	12.00	118	71	56	THP2.920ST-1050
10.80	12.00	118	71	56	THP2.920ST-1080
11.00	12.00	118	71	56	THP2.920ST-1100
11.50	12.00	118	71	56	THP2.920ST-1150
11.80	12.00	118	71	56	THP2.920ST-1180
12.00	12.00	118	71	56	THP2.920ST-1200
12.30	14.00	124	77	60	THP2.920ST-1230
12.50	14.00	124	77	60	THP2.920ST-1250
12.80	14.00	124	77	60	THP2.920ST-1280
13.00	14.00	124	77	60	THP2.920ST-1300
13.50	14.00	124	77	60	THP2.920ST-1350
14.00	14.00	124	77	60	THP2.920ST-1400
14.50	16.00	133	83	63	THP2.920ST-1450
15.00	16.00	133	83	63	THP2.920ST-1500
15.50	16.00	133	83	63	THP2.920ST-1550
16.00	16.00	133	83	63	THP2.920ST-1600
16.50	18.00	143	93	71	THP2.920ST-1650
17.00	18.00	143	93	71	THP2.920ST-1700
17.50	18.00	143	93	71	THP2.920ST-1750
18.00	18.00	143	93	71	THP2.920ST-1800
20.00	20.00	153	101	77	THP2.920ST-2000



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
 Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

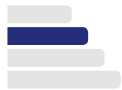
Su richiesta
On request
 Sur demande
 Auf Anfrage



parametri di lavoro
cutting data
 paramètres d'usage
 Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

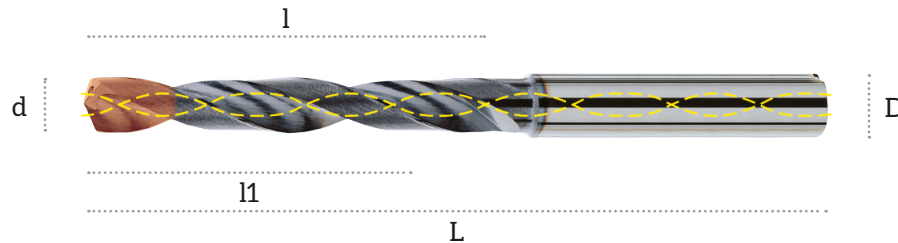
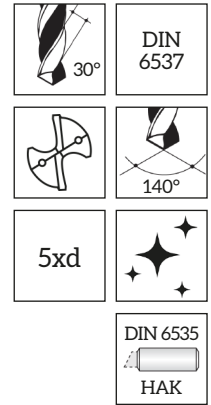




T2C Plus

THP 2.920 ST DC

Punta elicoidale ad alte prestazioni con rivestimento multifunzionale
Solid carbide high performance twist drill with multifunctional coating
 Foret hélicoïdal à haute performance avec un revêtement multifonction
 Hochleistungsbohrer mit Multifunktionsbeschichtung



d m7	D h6	L	l	l1	T2C Plus
3.00	6.00	66	28	23	THP2.920ST-0300DC
3.10	6.00	66	28	23	THP2.920ST-0310DC
3.30	6.00	66	28	23	THP2.920ST-0330DC
3.50	6.00	66	28	23	THP2.920ST-0350DC
3.70	6.00	66	28	23	THP2.920ST-0370DC
3.80	6.00	74	36	29	THP2.920ST-0380DC
4.00	6.00	74	36	29	THP2.920ST-0400DC
4.20	6.00	74	36	29	THP2.920ST-0420DC
4.50	6.00	74	36	29	THP2.920ST-0450DC
4.80	6.00	82	44	35	THP2.920ST-0480DC
5.00	6.00	82	44	35	THP2.920ST-0500DC
5.10	6.00	82	44	35	THP2.920ST-0510DC
5.20	6.00	82	44	35	THP2.920ST-0520DC
5.50	6.00	82	44	35	THP2.920ST-0550DC
5.80	6.00	82	44	35	THP2.920ST-0580DC
6.00	6.00	82	44	35	THP2.920ST-0600DC
6.30	8.00	91	53	43	THP2.920ST-0630DC
6.50	8.00	91	53	43	THP2.920ST-0650DC
6.80	8.00	91	53	43	THP2.920ST-0680DC
7.00	8.00	91	53	43	THP2.920ST-0700DC
7.50	8.00	91	53	43	THP2.920ST-0750DC
7.80	8.00	91	53	43	THP2.920ST-0780DC
8.00	8.00	91	53	43	THP2.920ST-0800DC
8.50	10.00	103	61	49	THP2.920ST-0850DC
8.80	10.00	103	61	49	THP2.920ST-0880DC
9.00	10.00	103	61	49	THP2.920ST-0900DC

d m7	D h6	L	l	l1	T2C Plus
9.20	10.00	103	61	49	THP2.920ST-0920DC
9.50	10.00	103	61	49	THP2.920ST-0950DC
9.80	10.00	103	61	49	THP2.920ST-0980DC
10.00	10.00	103	61	49	THP2.920ST-1000DC
10.20	12.00	118	71	56	THP2.920ST-1020DC
10.50	12.00	118	71	56	THP2.920ST-1050DC
10.80	12.00	118	71	56	THP2.920ST-1080DC
11.00	12.00	118	71	56	THP2.920ST-1100DC
11.50	12.00	118	71	56	THP2.920ST-1150DC
11.80	12.00	118	71	56	THP2.920ST-1180DC
12.00	12.00	118	71	56	THP2.920ST-1200DC
12.30	14.00	124	77	60	THP2.920ST-1230DC
12.50	14.00	124	77	60	THP2.920ST-1250DC
12.80	14.00	124	77	60	THP2.920ST-1280DC
13.00	14.00	124	77	60	THP2.920ST-1300DC
13.50	14.00	124	77	60	THP2.920ST-1350DC
14.00	14.00	124	77	60	THP2.920ST-1400DC
14.50	16.00	133	83	63	THP2.920ST-1450DC
15.00	16.00	133	83	63	THP2.920ST-1500DC
15.50	16.00	133	83	63	THP2.920ST-1550DC
16.00	16.00	133	83	63	THP2.920ST-1600DC
16.50	18.00	143	93	71	THP2.920ST-1650DC
17.00	18.00	143	93	71	THP2.920ST-1700DC
17.50	18.00	143	93	71	THP2.920ST-1750DC
18.00	18.00	143	93	71	THP2.920ST-1800DC
20.00	20.00	153	101	77	THP2.920ST-2000DC



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
 Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

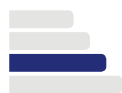
Su richiesta
On request
 Sur demande
 Auf Anfrage



parametri di lavoro
cutting data
 paramètres d'usage
 Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

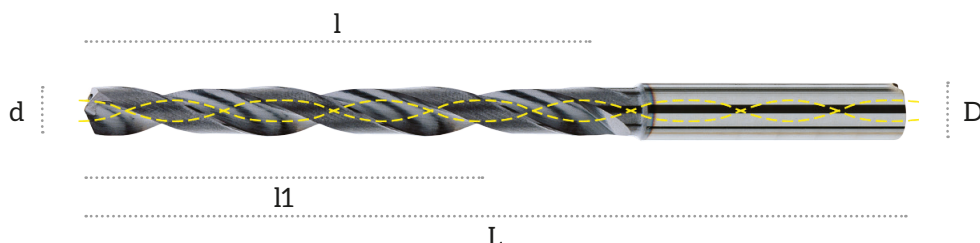
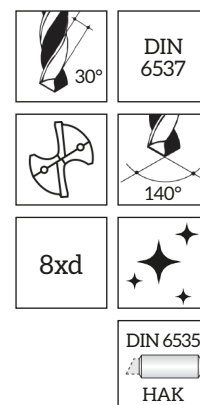




AITiSiN

THP 2.928 ST

Punta elicoidale ad alte prestazioni con fori di lubrificazione
Solid carbide high performance twist drill with interior cooling supplies
 Foret hélicoïdale à haute performance avec trous d'huiles
 Hochleistungsbohrer mit Innenkühlungen



d m7	D h6	L	l	l1	AITiSiN
3.50	6.00	72	34	29	THP2.928ST-0350
3.70	6.00	72	34	29	THP2.928ST-0370
3.80	6.00	81	43	36	THP2.928ST-0380
4.00	6.00	81	43	36	THP2.928ST-0400
4.20	6.00	81	43	36	THP2.928ST-0420
4.50	6.00	81	43	36	THP2.928ST-0450
4.80	6.00	95	57	48	THP2.928ST-0480
5.00	6.00	95	57	48	THP2.928ST-0500
5.10	6.00	95	57	48	THP2.928ST-0510
5.20	6.00	95	57	48	THP2.928ST-0520
5.50	6.00	95	57	48	THP2.928ST-0550
5.80	6.00	95	57	48	THP2.928ST-0580
6.00	6.00	95	57	48	THP2.928ST-0600
6.30	8.00	114	76	64	THP2.928ST-0630
6.50	8.00	114	76	64	THP2.928ST-0650
6.80	8.00	114	76	64	THP2.928ST-0680
7.00	8.00	114	76	64	THP2.928ST-0700

d m7	D h6	L	l	l1	AITiSiN
7.50	8.00	114	76	64	THP2.928ST-0750
7.80	8.00	114	76	64	THP2.928ST-0780
8.00	8.00	114	76	64	THP2.928ST-0800
8.50	10.00	142	95	80	THP2.928ST-0850
8.80	10.00	142	95	80	THP2.928ST-0880
9.00	10.00	142	95	80	THP2.928ST-0900
9.20	10.00	142	95	80	THP2.928ST-0920
9.50	10.00	142	95	80	THP2.928ST-0950
9.80	10.00	142	95	80	THP2.928ST-0980
10.00	10.00	142	95	80	THP2.928ST-1000
10.20	12.00	162	114	96	THP2.928ST-1020
10.50	12.00	162	114	96	THP2.928ST-1050
10.80	12.00	162	114	96	THP2.928ST-1080
11.00	12.00	162	114	96	THP2.928ST-1100
11.50	12.00	162	114	96	THP2.928ST-1150
11.80	12.00	162	114	96	THP2.928ST-1180
12.00	12.00	162	114	96	THP2.928ST-1200



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
 Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

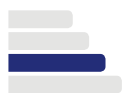
Su richiesta
On request
 Sur demande
 Auf Anfrage



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

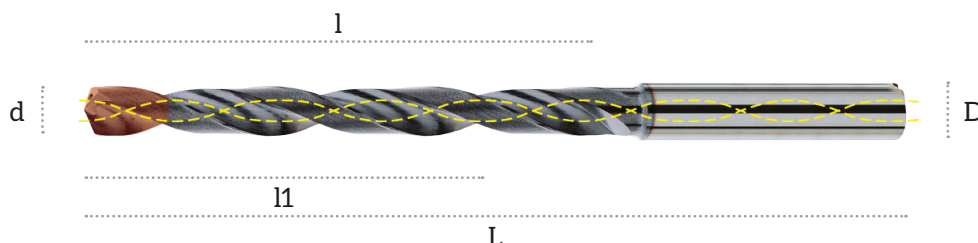
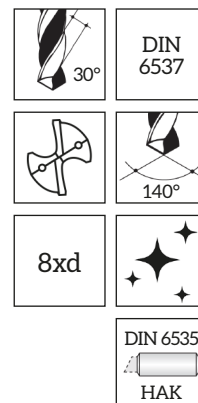




T2C Plus

THP 2.928 ST DC

Punta elicoidale ad alte prestazioni con rivestimento multifunzionale
Solid carbide high performance twist drill with multifunctional coating
 Foret hélicoïdal à haute performance avec un revêtement multifonction
 Hochleistungsbohrer mit Multifunktionsbeschichtung



d m7	D h6	L	l	l1	T2C Plus
3.50	6.00	72	34	29	THP2.928ST-0350DC
3.70	6.00	72	34	29	THP2.928ST-0370DC
3.80	6.00	81	43	36	THP2.928ST-0380DC
4.00	6.00	81	43	36	THP2.928ST-0400DC
4.20	6.00	81	43	36	THP2.928ST-0420DC
4.50	6.00	81	43	36	THP2.928ST-0450DC
4.80	6.00	95	57	48	THP2.928ST-0480DC
5.00	6.00	95	57	48	THP2.928ST-0500DC
5.10	6.00	95	57	48	THP2.928ST-0510DC
5.20	6.00	95	57	48	THP2.928ST-0520DC
5.50	6.00	95	57	48	THP2.928ST-0550DC
5.80	6.00	95	57	48	THP2.928ST-0580DC
6.00	6.00	95	57	48	THP2.928ST-0600DC
6.30	8.00	114	76	64	THP2.928ST-0630DC
6.50	8.00	114	76	64	THP2.928ST-0650DC
6.80	8.00	114	76	64	THP2.928ST-0680DC
7.00	8.00	114	76	64	THP2.928ST-0700DC

d m7	D h6	L	l	l1	T2C Plus
7.50	8.00	114	76	64	THP2.928ST-0750DC
7.80	8.00	114	76	64	THP2.928ST-0780DC
8.00	8.00	114	76	64	THP2.928ST-0800DC
8.50	10.00	142	95	80	THP2.928ST-0850DC
8.80	10.00	142	95	80	THP2.928ST-0880DC
9.00	10.00	142	95	80	THP2.928ST-0900DC
9.20	10.00	142	95	80	THP2.928ST-0920DC
9.50	10.00	142	95	80	THP2.928ST-0950DC
9.80	10.00	142	95	80	THP2.928ST-0980DC
10.00	10.00	142	95	80	THP2.928ST-1000DC
10.20	12.00	162	114	96	THP2.928ST-1020DC
10.50	12.00	162	114	96	THP2.928ST-1050DC
10.80	12.00	162	114	96	THP2.928ST-1080DC
11.00	12.00	162	114	96	THP2.928ST-1100DC
11.50	12.00	162	114	96	THP2.928ST-1150DC
11.80	12.00	162	114	96	THP2.928ST-1180DC
12.00	12.00	162	114	96	THP2.928ST-1200DC



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
 Coating | out of range | other sizes | DIN 6535 HEK
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
 Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

Su richiesta
On request
 Sur demande
 Auf Anfrage



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

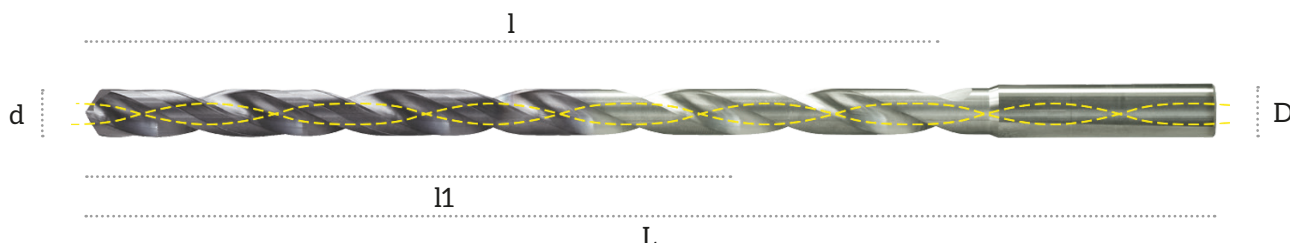
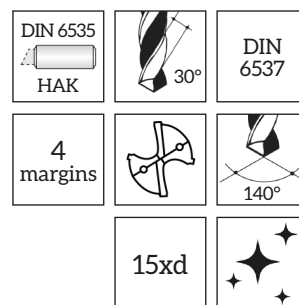




AlTiSiN

THP 2.915

Punta elicoidale ad alte prestazioni con fori di lubrificazione
Solid carbide high performance twist drill with interior cooling supplies
 Foret hélicoïdale à haute performance avec trous d'huiles
 Hochleistungsbohrer mit Innenkühlungen



d m7	D h6	L	l	l1	AlTiSiN
4.00	6.00	108	68	60	THP 2.915-0400
4.50	6.00	115	78	68	THP 2.915-0450
5.00	6.00	125	84	75	THP 2.915-0500
5.50	6.00	130	92	82	THP 2.915-0550
6.00	6.00	140	100	90	THP 2.915-0600
6.50	8.00	145	108	97	THP 2.915-0650
7.00	8.00	170	130	105	THP 2.915-0700
7.50	8.00	170	130	112	THP 2.915-0750
8.00	8.00	170	130	120	THP 2.915-0800
8.50	10.00	208	163	127	THP 2.915-0850
9.00	10.00	208	163	135	THP 2.915-0900
9.50	10.00	208	163	142	THP 2.915-0950
10.00	10.00	208	163	150	THP 2.915-1000
10.50	12.00	245	195	157	THP 2.915-1050
11.00	12.00	245	195	165	THP 2.915-1100
11.50	12.00	245	195	172	THP 2.915-1150
12.00	12.00	245	195	180	THP 2.915-1200



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
 Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

Su richiesta
On request
 Sur demande
 Auf Anfrage



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

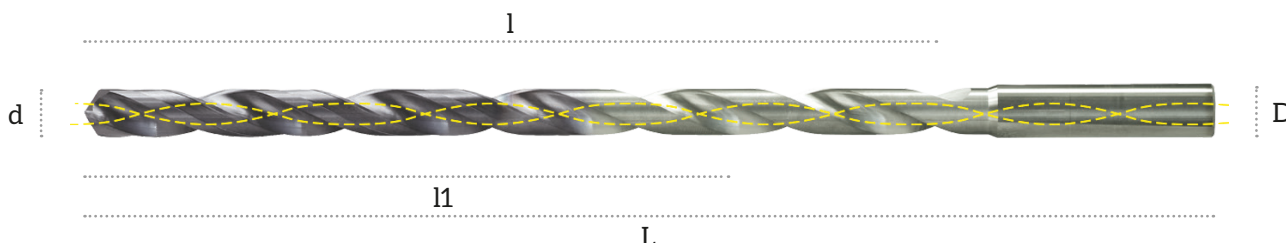
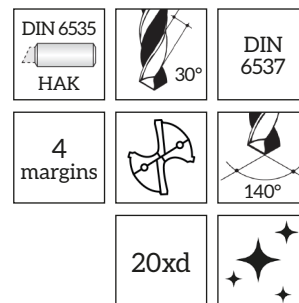




AlTiSiN

THP 2.921

Punta elicoidale ad alte prestazioni con fori di lubrificazione
Solid carbide high performance twist drill with interior cooling supplies
 Foret hélicoïdale à haute performance avec trous d'huiles
 Hochleistungsbohrer mit Innenkühlungen



d m7	D h6	L	l	l1	AlTiSiN
5.00	6.00	155	116	100	THP 2.921-0500
6.00	6.00	172	135	120	THP 2.921-0600
6.50	8.00	186	145	130	THP 2.921-0650
7.00	8.00	201	160	140	THP 2.921-0700
7.50	8.00	211	170	150	THP 2.921-0750
8.00	8.00	221	181	160	THP 2.921-0800
8.50	10.00	236	192	170	THP 2.921-0850
9.00	10.00	247	203	180	THP 2.921-0900
9.50	10.00	259	214	190	THP 2.921-0950
10.00	10.00	267	225	200	THP 2.921-1000



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



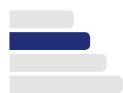
parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
 Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

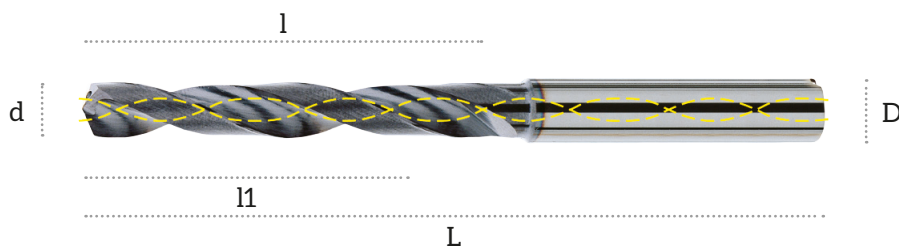
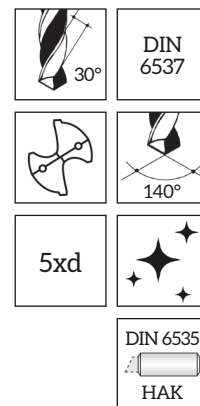




AlTiSiN

THP 2.920 GG

Punta alta prestazione con fori interni di lubrificazione per ghisa
Solid carbide high performance drills with cooling supplies for iron materials
 Forets haute performance avec trous d'huiles
 Hochleistungsbohrer mit Innenkühlungen für Gusseisenbearbeitungen



d m7	D h6	L	l	l1	AlTiSiN
6.00	6.00	82	44	35	THP2.920GG-0600
6.50	8.00	91	53	43	THP2.920GG-0650
6.80	8.00	91	53	43	THP2.920GG-0680
7.00	8.00	91	53	43	THP2.920GG-0700
7.50	8.00	91	53	43	THP2.920GG-0750
7.80	8.00	91	53	43	THP2.920GG-0780
8.00	8.00	91	53	43	THP2.920GG-0800
8.50	10.00	103	61	49	THP2.920GG-0850
8.80	10.00	103	61	49	THP2.920GG-0880
9.00	10.00	103	61	49	THP2.920GG-0900
9.50	10.00	103	61	49	THP2.920GG-0950
9.80	10.00	103	61	49	THP2.920GG-0980
10.00	10.00	103	61	49	THP2.920GG-1000
10.20	12.00	118	71	56	THP2.920GG-1020
10.50	12.00	118	71	56	THP2.920GG-1050
10.80	12.00	118	71	56	THP2.920GG-1080
11.00	12.00	118	71	56	THP2.920GG-1100
11.50	12.00	118	71	56	THP2.920GG-1150
11.80	12.00	118	71	56	THP2.920GG-1180
12.00	12.00	118	71	56	THP2.920GG-1200



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



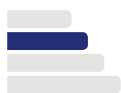
parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
 Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

E



ZrN

T-DLC

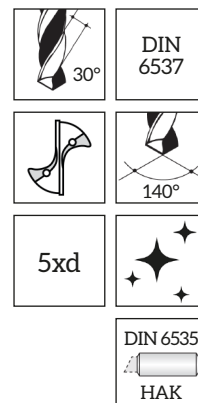
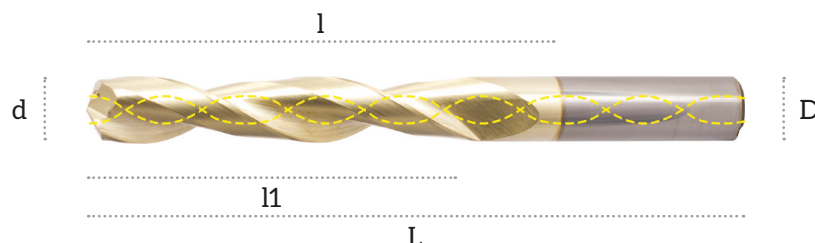
THP 2.920 AL

Punta ad alte prestazioni con fori di lubrificazione

Solid carbide high performance twist drill with interior cooling supplies

Foret hélicoïdale à haute performance avec trous d'huiles

Hochleistungsbohrer mit Innenkühlungen



d m7	D h6	L	l	l1	ZrN	T-DLC
3.00	6.00	66	28	23	THP2.920AL-0300	THP2.920AL-0300D
3.10	6.00	66	28	23	THP2.920AL-0310	THP2.920AL-0310D
3.30	6.00	66	28	23	THP2.920AL-0330	THP2.920AL-0330D
3.50	6.00	66	28	23	THP2.920AL-0350	THP2.920AL-0350D
3.70	6.00	66	28	23	THP2.920AL-0370	THP2.920AL-0370D
3.80	6.00	74	36	29	THP2.920AL-0380	THP2.920AL-0380D
4.00	6.00	74	36	29	THP2.920AL-0400	THP2.920AL-0400D
4.20	6.00	74	36	29	THP2.920AL-0420	THP2.920AL-0420D
4.50	6.00	74	36	35	THP2.920AL-0450	THP2.920AL-0450D
4.80	6.00	82	44	35	THP2.920AL-0480	THP2.920AL-0480D
5.00	6.00	82	44	35	THP2.920AL-0500	THP2.920AL-0500D
5.10	6.00	82	44	35	THP2.920AL-0510	THP2.920AL-0510D
5.20	6.00	82	44	35	THP2.920AL-0520	THP2.920AL-0520D
5.50	6.00	82	44	35	THP2.920AL-0550	THP2.920AL-0550D
5.80	6.00	82	44	35	THP2.920AL-0580	THP2.920AL-0580D
6.00	6.00	82	44	35	THP2.920AL-0600	THP2.920AL-0600D
6.30	8.00	91	53	43	THP2.920AL-0630	THP2.920AL-0630D
6.50	8.00	91	53	43	THP2.920AL-0650	THP2.920AL-0650D
6.80	8.00	91	53	43	THP2.920AL-0680	THP2.920AL-0680D
7.00	8.00	91	53	43	THP2.920AL-0700	THP2.920AL-0700D
7.50	8.00	91	53	43	THP2.920AL-0750	THP2.920AL-0750D
7.80	8.00	91	53	43	THP2.920AL-0780	THP2.920AL-0780D
8.00	8.00	91	53	43	THP2.920AL-0800	THP2.920AL-0800D
8.50	10.00	103	61	49	THP2.920AL-0850	THP2.920AL-0850D
8.80	10.00	103	61	49	THP2.920AL-0880	THP2.920AL-0880D

d m7	D h6	L	l	l1	ZrN	T-DLC
9.00	10.00	103	61	49	THP2.920AL-0900	THP2.920AL-0900D
9.20	10.00	103	61	49	THP2.920AL-0920	THP2.920AL-0920D
9.50	10.00	103	61	49	THP2.920AL-0950	THP2.920AL-0950D
9.80	10.00	103	61	49	THP2.920AL-0980	THP2.920AL-0980D
10.00	10.00	103	61	49	THP2.920AL-1000	THP2.920AL-1000D
10.20	12.00	118	71	56	THP2.920AL-1020	THP2.920AL-1020D
10.50	12.00	118	71	56	THP2.920AL-1050	THP2.920AL-1050D
10.80	12.00	118	71	56	THP2.920AL-1080	THP2.920AL-1080D
11.00	12.00	118	71	56	THP2.920AL-1100	THP2.920AL-1100D
11.50	12.00	118	71	56	THP2.920AL-1150	THP2.920AL-1150D
11.80	12.00	118	71	56	THP2.920AL-1180	THP2.920AL-1180D
12.00	12.00	118	71	56	THP2.920AL-1200	THP2.920AL-1200D



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

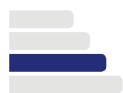
Su richiesta
On request
Sur demande
Auf Anfrage



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





ZrN

T-DLC

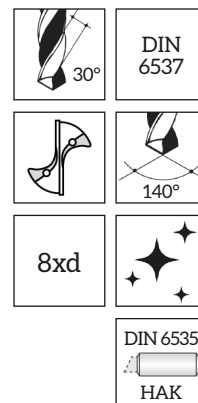
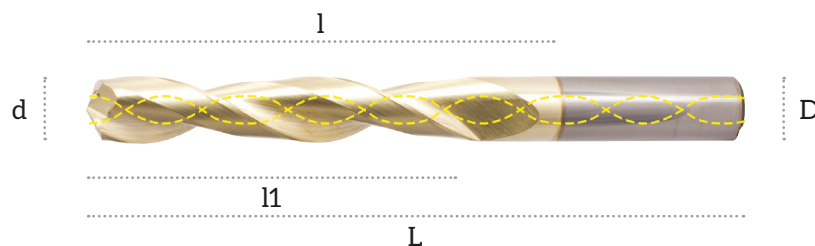
THP 2.928 AL

Punta ad alte prestazioni con fori di lubrificazione

Solid carbide high performance twist drill with interior cooling supplies

Foret hélicoïdale à haute performance avec trous d'huiles

Hochleistungsbohrer mit Innenkühlungen



d m7	D h6	L	l	l1	ZrN	T-DLC
4.00	6.00	81	43	36	THP2.928AL-0400	THP2.928AL-0400D
4.20	6.00	81	43	36	THP2.928AL-0420	THP2.928AL-0420D
4.50	6.00	81	43	36	THP2.928AL-0450	THP2.928AL-0450D
4.80	6.00	95	57	48	THP2.928AL-0480	THP2.928AL-0480D
5.00	6.00	95	57	48	THP2.928AL-0500	THP2.928AL-0500D
5.10	6.00	95	57	48	THP2.928AL-0510	THP2.928AL-0510D
5.20	6.00	95	57	48	THP2.928AL-0520	THP2.928AL-0520D
5.50	6.00	95	57	48	THP2.928AL-0550	THP2.928AL-0550D
5.80	6.00	95	57	48	THP2.928AL-0580	THP2.928AL-0580D
6.00	6.00	95	57	48	THP2.928AL-0600	THP2.928AL-0600D
6.30	8.00	114	76	64	THP2.928AL-0630	THP2.928AL-0630D
6.50	8.00	114	76	64	THP2.928AL-0650	THP2.928AL-0650D
6.80	8.00	114	76	64	THP2.928AL-0680	THP2.928AL-0680D
7.00	8.00	114	76	64	THP2.928AL-0700	THP2.928AL-0700D
7.50	8.00	114	76	64	THP2.928AL-0750	THP2.928AL-0750D
7.80	8.00	114	76	64	THP2.928AL-0780	THP2.928AL-0780D
8.00	8.00	114	76	64	THP2.928AL-0800	THP2.928AL-0800D
8.50	10.00	142	95	80	THP2.928AL-0850	THP2.928AL-0850D
8.80	10.00	142	95	80	THP2.928AL-0880	THP2.928AL-0880D
9.00	10.00	142	95	80	THP2.928AL-0900	THP2.928AL-0900D
9.20	10.00	142	95	80	THP2.928AL-0920	THP2.928AL-0920D
9.50	10.00	142	95	80	THP2.928AL-0950	THP2.928AL-0950D
9.80	10.00	142	95	80	THP2.928AL-0980	THP2.928AL-0980D
10.00	10.00	142	95	80	THP2.928AL-1000	THP2.928AL-1000D
10.20	12.00	162	114	96	THP2.928AL-1020	THP2.928AL-1020D

d m7	D h6	L	l	l1	ZrN	T-DLC
10.50	12.00	162	114	96	THP2.928AL-1050	THP2.928AL-1050D
10.80	12.00	162	114	96	THP2.928AL-1080	THP2.928AL-1080D
11.00	12.00	162	114	96	THP2.928AL-1100	THP2.928AL-1100D
11.50	12.00	162	114	96	THP2.928AL-1150	THP2.928AL-1150D
11.80	12.00	162	114	96	THP2.928AL-1180	THP2.928AL-1180D
12.00	12.00	162	114	96	THP2.928AL-1200	THP2.928AL-1200D



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
 Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

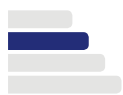
Su richiesta
On request
 Sur demande
Auf Anfrage



parametri di lavoro
cutting data
 paramètres d'usinage
Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
Anwendungsgruppen

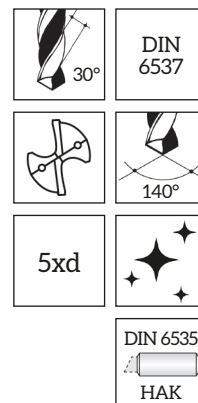
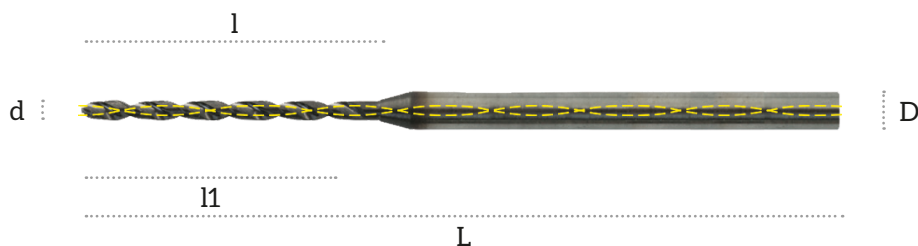




AlTiSiN

THPM 2.920

Micro punta elicoidale ad alte prestazioni con fori di lubrificazione
Solid carbide high performance twist micro drill with interior cooling supplies
Micro foret hélicoïdale à haute performance avec trous d'huiles
Hochleistungs-Mikrobohrer mit Innenkühlungen



d m7	D h6	L	l	l1	AlTiSiN
1.00	3.00	55	8	5	THPM 2.920-0100
1.10	3.00	55	12	7	THPM 2.920-0110
1.20	3.00	55	12	7	THPM 2.920-0120
1.30	3.00	55	12	7	THPM 2.920-0130
1.40	3.00	55	12	7	THPM 2.920-0140
1.50	3.00	55	12	8	THPM 2.920-0150
1.60	3.00	65	16	10	THPM 2.920-0160
1.70	3.00	65	16	10	THPM 2.920-0170
1.80	3.00	65	16	10	THPM 2.920-0180
1.90	3.00	65	16	10	THPM 2.920-0190
2.00	3.00	65	16	10	THPM 2.920-0200
2.10	3.00	74	20	12	THPM 2.920-0210
2.20	3.00	74	20	13	THPM 2.920-0220
2.30	3.00	74	20	13	THPM 2.920-0230
2.40	3.00	74	20	13	THPM 2.920-0240
2.50	3.00	74	20	13	THPM 2.920-0250
2.60	3.00	81	23	14	THPM 2.920-0260
2.70	3.00	81	23	14	THPM 2.920-0270
2.80	3.00	81	23	16	THPM 2.920-0280
2.90	3.00	81	23	16	THPM 2.920-0290



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

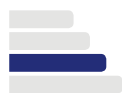
Su richiesta
On request
Sur demande
Auf Anfrage



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

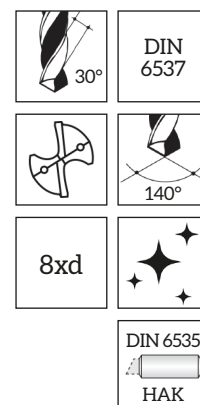
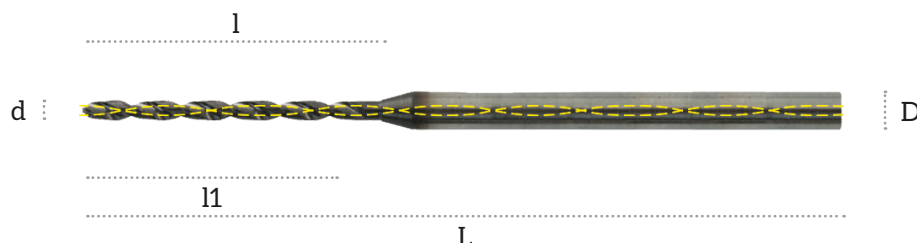




AITiSiN

THPM 2.928

Micro punta elicoidale ad alte prestazioni con fori di lubrificazione
Solid carbide high performance twist micro drill with interior cooling supplies
Micro foret hélicoïdale à haute performance avec trous d'huiles
Hochleistungs-Mikrobohrer mit Innenkühlungen



d m7	D h6	L	l	l1	AITiSiN
1.00	3.00	55	11	8	THPM 2.928-0100
1.10	3.00	55	17	10	THPM 2.928-0110
1.20	3.00	55	17	12	THPM 2.928-0120
1.30	3.00	55	17	12	THPM 2.928-0130
1.40	3.00	55	17	12	THPM 2.928-0140
1.50	3.00	55	17	12	THPM 2.928-0150
1.60	3.00	65	22	15	THPM 2.928-0160
1.70	3.00	65	22	15	THPM 2.928-0170
1.80	3.00	65	22	15	THPM 2.928-0180
1.90	3.00	65	22	15	THPM 2.928-0190
2.00	3.00	65	22	16	THPM 2.928-0200
2.10	3.00	74	28	18	THPM 2.928-0210
2.20	3.00	74	28	18	THPM 2.928-0220
2.30	3.00	74	28	18	THPM 2.928-0230
2.40	3.00	74	28	20	THPM 2.928-0240
2.50	3.00	74	28	20	THPM 2.928-0250
2.60	3.00	81	32	24	THPM 2.928-0260
2.70	3.00	81	32	24	THPM 2.928-0270
2.80	3.00	81	32	24	THPM 2.928-0280
2.90	3.00	81	32	24	THPM 2.928-0290



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

Su richiesta
On request
Sur demande
Auf Anfrage



parametri di lavoro
cutting data
paramètres d'usage
Schnittdaten

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

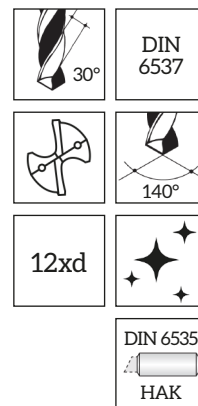
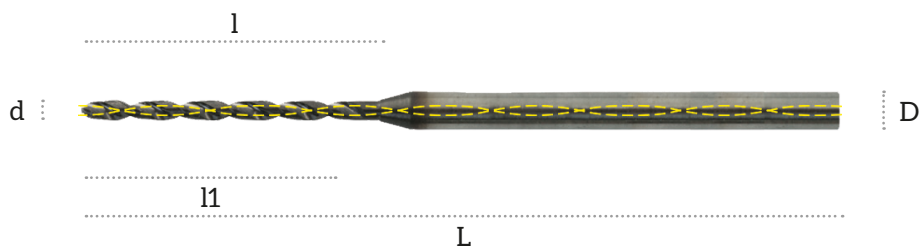




AlTiSiN

THPM 2.912

Micro punta elicoidale ad alte prestazioni con fori di lubrificazione
Solid carbide high performance twist micro drill with interior cooling supplies
Micro foret hélicoïdale à haute performance avec trous d'huiles
Hochleistungs-Mikrobohrer mit Innenkühlungen



d m7	D h6	L	l	l1	AlTiSiN
1.00	3.00	55	15	12	THPM 2.912-0100
1.10	3.00	55	23	13	THPM 2.912-0110
1.20	3.00	55	23	14	THPM 2.912-0120
1.30	3.00	55	23	16	THPM 2.912-0130
1.40	3.00	55	23	17	THPM 2.912-0140
1.50	3.00	55	23	18	THPM 2.912-0150
1.60	3.00	65	30	20	THPM 2.912-0160
1.70	3.00	65	30	21	THPM 2.912-0170
1.80	3.00	65	30	22	THPM 2.912-0180
1.90	3.00	65	30	23	THPM 2.912-0190
2.00	3.00	65	30	24	THPM 2.912-0200
2.10	3.00	74	38	26	THPM 2.912-0210
2.20	3.00	74	38	26	THPM 2.912-0220
2.30	3.00	74	38	27	THPM 2.912-0230
2.40	3.00	74	38	29	THPM 2.912-0240
2.50	3.00	74	38	30	THPM 2.912-0250
2.60	3.00	81	44	32	THPM 2.912-0260
2.70	3.00	81	44	33	THPM 2.912-0270
2.80	3.00	81	44	34	THPM 2.912-0280
2.90	3.00	81	44	35	THPM 2.912-0290



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

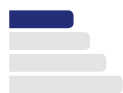
Su richiesta
On request
Sur demande
Auf Anfrage



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen



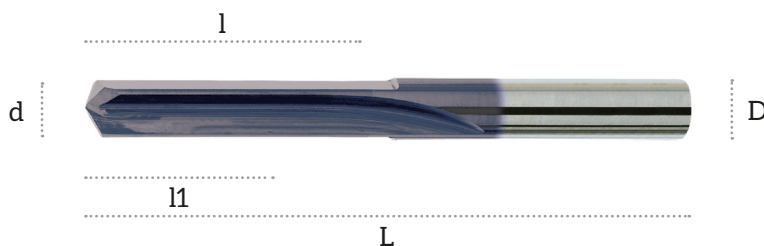
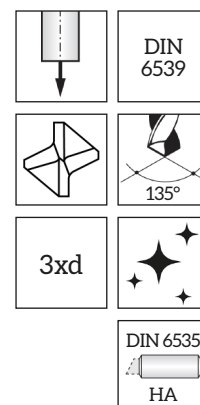

AITiSiN

THP 2.800

Punte alte prestazioni denti dritti

High speed straight flute drills

Forets à haute performance à denture droite

Hochleistungsbohrer gerade genutet


d m7	D h6	L	l	l1	AITiSiN
2.00	2.00	38	12	7	THP 2.800-0200
2.50	2.50	43	14	8	THP 2.800-0250
3.00	3.00	46	16	10	THP 2.800-0300
3.30	3.30	46	16	10	THP 2.800-0330
3.50	3.50	52	20	12	THP 2.800-0350
4.00	4.00	55	22	14	THP 2.800-0400
4.20	4.20	55	22	14	THP 2.800-0420
5.00	5.00	62	26	18	THP 2.800-0500
6.00	6.00	66	28	20	THP 2.800-0600
6.80	6.80	74	34	22	THP 2.800-0680
7.00	7.00	74	34	22	THP 2.800-0700
8.00	8.00	79	37	26	THP 2.800-0800
8.50	8.50	79	37	26	THP 2.800-0850
10.00	10.00	89	43	32	THP 2.800-1000
12.00	12.00	102	51	38	THP 2.800-1200



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

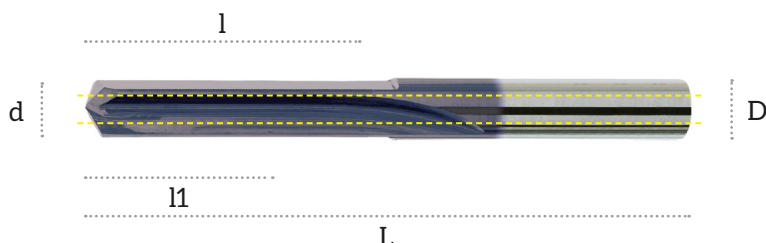
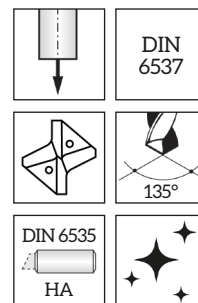




AlTiSiN

THP 2.820

Punte alte prestazioni denti dritti
High speed straight flute drills
Forets à haute performance à denture droite
Hochleistungsbohrer gerade genutet



3xd

5xd

8xd

Su richiesta
On request
Sur demande
Auf Anfrage



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



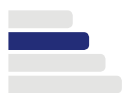
parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





AITiSiN

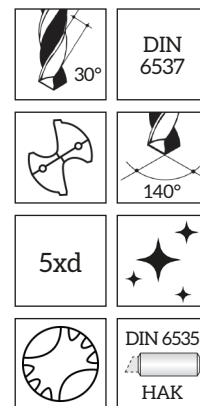
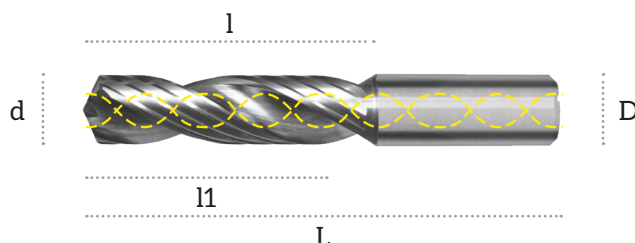
THSR 2.920 H7

Punta foro e alesa H7 elicoidale con fori di lubrificazione

Drill Reamer with internal cooling H7

Foret alésoir H7 arrosage interne

Bohrreibaalen H7 mit Innenkühlung



d H7	D h6	L	l	l1	AITiSiN
3.00	6.00	66	28	23	THSR 2.920-0300
4.00	6.00	74	36	29	THSR 2.920-0400
5.00	6.00	82	44	35	THSR 2.920-0500
6.00	6.00	82	44	35	THSR 2.920-0600
7.00	8.00	91	53	43	THSR 2.920-0700
8.00	8.00	91	53	43	THSR 2.920-0800
9.00	10.00	103	61	49	THSR 2.920-0900
10.00	10.00	103	61	49	THSR 2.920-1000
11.00	12.00	118	71	56	THSR 2.920-1100
12.00	12.00	118	71	56	THSR 2.920-1200



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HEK
Coating | out of range | other sizes | DIN 6535 HEK
Revêtement | exécution spéciale | diamètres intermédiaires | DIN 6535 HEK
Beschichtung | Sonderausführungen | Zwischenabmessungen | DIN 6535 HEK

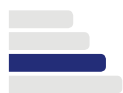
Su richiesta
On request
Sur demande
Auf Anfrage



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AluCroN

TD L3

Z=3

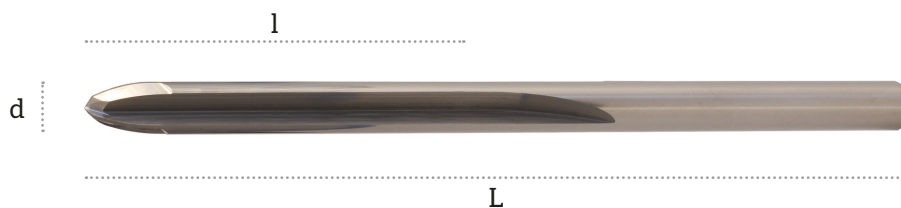
TUNIT
NORM

Punta foro e alesa H7

Drill Reamer H7

Foret alésoir H7

Bohrreibahlen H7



d H7	L	l	uncoated	AluCroN
2.00	100	50	TD L3-0200	TD L3-0200L
2.48	100	50	TD L3-0248	TD L3-0248L
3.00	100	50	TD L3-0300	TD L3-0300L
3.17	100	50	TD L3-0317	TD L3-0317L
4.00	100	50	TD L3-0400	TD L3-0400L
4.21	100	50	TD L3-0421	TD L3-0421L
4.82	100	50	TD L3-0482	TD L3-0482L
5.05	100	50	TD L3-0505	TD L3-0505L
5.53	100	50	TD L3-0553	TD L3-0553L
6.00	100	50	TD L3-0600	TD L3-0600L
6.33	100	50	TD L3-0633	TD L3-0633L
6.60	100	50	TD L3-0660	TD L3-0660L
7.00	100	50	TD L3-0700	TD L3-0700L
7.92	100	50	TD L3-0792	TD L3-0792L
8.00	100	50	TD L3-0800	TD L3-0800L
8.63	100	50	TD L3-0863	TD L3-0863L
9.00	100	50	TD L3-0900	TD L3-0900L
10.00	100	50	TD L3-1000	TD L3-1000L
12.00	100	50	TD L3-1200	TD L3-1200L

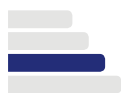

scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

uncoated

AluCroN

TD L4

Z=4

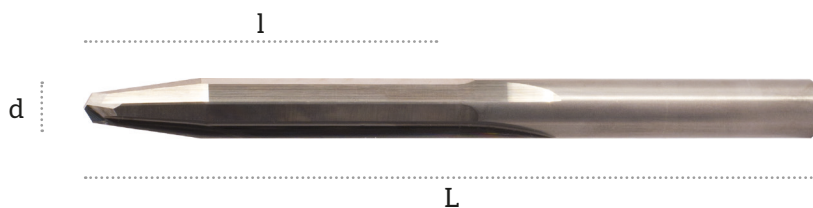
TUNIT
NORM

Punta foro e alesa H7

Drill Reamer H7

Foret aléreur H7

Bohrreibahlen H7



d H7	L	l	uncoated	AluCroN
2.00	100	50	TD L4-0200	TD L4-0200L
2.48	100	50	TD L4-0248	TD L4-0248L
3.00	100	50	TD L4-0300	TD L4-0300L
3.17	100	50	TD L4-0317	TD L4-0317L
4.00	100	50	TD L4-0400	TD L4-0400L
4.21	100	50	TD L4-0421	TD L4-0421L
4.82	100	50	TD L4-0482	TD L4-0482L
5.05	100	50	TD L4-0505	TD L4-0505L
5.53	100	50	TD L4-0553	TD L4-0553L
6.00	100	50	TD L4-0600	TD L4-0600L
6.33	100	50	TD L4-0633	TD L4-0633L
6.60	100	50	TD L4-0660	TD L4-0660L
7.00	100	50	TD L4-0700	TD L4-0700L
7.92	100	50	TD L4-0792	TD L4-0792L
8.00	100	50	TD L4-0800	TD L4-0800L
8.63	100	50	TD L4-0863	TD L4-0863L
9.00	100	50	TD L4-0900	TD L4-0900L
10.00	100	50	TD L4-1000	TD L4-1000L
12.00	100	50	TD L4-1200	TD L4-1200L


scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

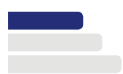
Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

H

I

M



uncoated

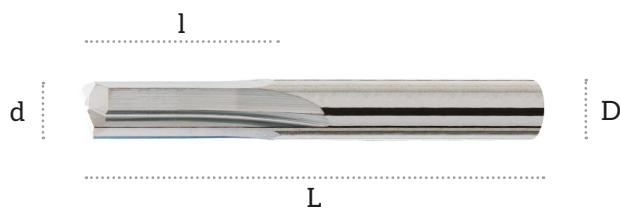
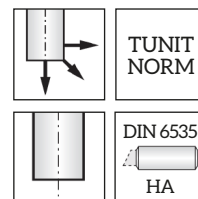
TM 3.1

Fresa a denti dritti 2 taglienti taglio al centro

Straight fluted end mill 2 flutes center cutting

Fraise à taille droite-2 lèvres coupe au centre

Schaftfräser gerade genutet-2 Schneiden mit Zentrumschnitt



d h9	D h6	L	lap	uncoated
2.00	2.00	38	8	TM 3.1-0200
2.50	2.50	38	8	TM 3.1-0250
3.00	3.00	38	12	TM 3.1-0300
3.50	3.50	40	12	TM 3.1-0350
4.00	4.00	40	12	TM 3.1-0400
4.50	4.50	50	14	TM 3.1-0450
5.00	5.00	50	14	TM 3.1-0500
5.50	5.50	50	16	TM 3.1-0550
6.00	6.00	50	16	TM 3.1-0600
6.50	6.50	50	16	TM 3.1-0650
7.00	7.00	60	20	TM 3.1-0700
7.50	7.50	60	20	TM 3.1-0750
8.00	8.00	60	20	TM 3.1-0800
8.50	8.50	60	20	TM 3.1-0850
9.00	9.00	60	20	TM 3.1-0900
9.50	9.50	70	22	TM 3.1-0950
10.00	10.00	70	22	TM 3.1-1000
12.00	12.00	70	22	TM 3.1-1200



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

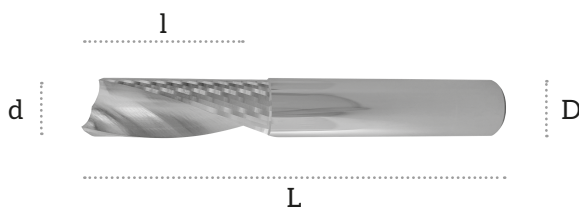
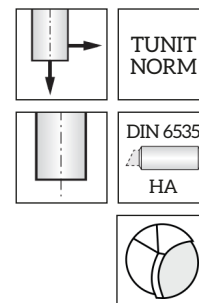
TM 3.1 M

Fresa integrale mono tagliente con testa piana taglio frontale al centro

Single flute end mill flat nose center cutting

Fraise une dent à bout plat coupe au centre

Einzahnfräser flache Stirn Zentrumschnitt



d h10	D h6	L	l ap	uncoated
3.00	3.00	40	12	TM 3.1M-0300
4.00	4.00	40	14	TM 3.1M-0400
5.00	5.00	50	16	TM 3.1M-0500
6.00	6.00	58	20	TM 3.1M-0600
8.00	8.00	64	22	TM 3.1M-0800
10.00	10.00	73	25	TM 3.1M-1000
12.00	12.00	84	35	TM 3.1M-1200



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

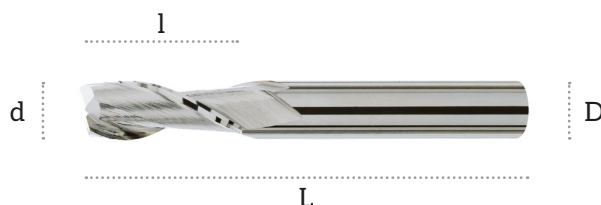
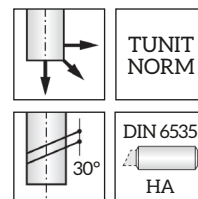
TiCN-B

TM 3.2

Fresa elicoidale 2 taglienti taglio al centro

Twist end mill 2 flutes center cutting

Fraise hélicoïdale 2 lèvres coupe au centre

Schaftfräser 2 Schneiden spiralgenutet mit Zentrumschnitt

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
2.00	2.00	38	8	TM 3.2-0200	TM 3.2-0200L	TM 3.2-0200C
2.50	2.50	38	8	TM 3.2-0250	TM 3.2-0250L	TM 3.2-0250C
3.00	3.00	38	12	TM 3.2-0300	TM 3.2-0300L	TM 3.2-0300C
3.50	3.50	40	12	TM 3.2-0350	TM 3.2-0350L	TM 3.2-0350C
4.00	4.00	40	12	TM 3.2-0400	TM 3.2-0400L	TM 3.2-0400C
4.50	4.50	50	14	TM 3.2-0450	TM 3.2-0450L	TM 3.2-0450C
5.00	5.00	50	14	TM 3.2-0500	TM 3.2-0500L	TM 3.2-0500C
5.50	5.50	50	16	TM 3.2-0550	TM 3.2-0550L	TM 3.2-0550C
6.00	6.00	50	16	TM 3.2-0600	TM 3.2-0600L	TM 3.2-0600C
6.50	6.50	50	16	TM 3.2-0650	TM 3.2-0650L	TM 3.2-0650C
7.00	7.00	60	20	TM 3.2-0700	TM 3.2-0700L	TM 3.2-0700C
7.50	7.50	60	20	TM 3.2-0750	TM 3.2-0750L	TM 3.2-0750C
8.00	8.00	60	20	TM 3.2-0800	TM 3.2-0800L	TM 3.2-0800C
8.50	8.50	60	20	TM 3.2-0850	TM 3.2-0850L	TM 3.2-0850C
9.00	9.00	60	20	TM 3.2-0900	TM 3.2-0900L	TM 3.2-0900C
9.50	9.50	70	22	TM 3.2-0950	TM 3.2-0950L	TM 3.2-0950C
10.00	10.00	70	22	TM 3.2-1000	TM 3.2-1000L	TM 3.2-1000C
11.00	11.00	70	22	TM 3.2-1100	TM 3.2-1100L	TM 3.2-1100C
12.00	12.00	70	22	TM 3.2-1200	TM 3.2-1200L	TM 3.2-1200C
13.00	13.00	75	25	TM 3.2-1300	TM 3.2-1300L	TM 3.2-1300C
14.00	14.00	75	25	TM 3.2-1400	TM 3.2-1400L	TM 3.2-1400C
15.00	15.00	75	25	TM 3.2-1500	TM 3.2-1500L	TM 3.2-1500C
16.00	16.00	75	25	TM 3.2-1600	TM 3.2-1600L	TM 3.2-1600C
18.00	18.00	100	32	TM 3.2-1800	TM 3.2-1800L	TM 3.2-1800C
20.00	20.00	100	32	TM 3.2-2000	TM 3.2-2000L	TM 3.2-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

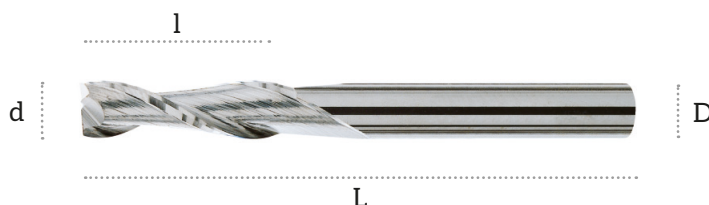
TM 3.2 L

Fresa elicoidale 2 taglienti, taglio al centro

Twist end mill 2 flutes center cutting

Fraise hélicoïdale 2 lèvres coupe au centre

Schaftfräser 2 Schneiden spiralgenutet mit Zentrumschnitt

TUNIT
NORMDIN 6535
HA

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
3.00	3.00	55	20	TM 3.2L-0300	TM 3.2L-0300L	TM 3.2L-0300C
4.00	4.00	60	20	TM 3.2L-0400	TM 3.2L-0400L	TM 3.2L-0400C
5.00	5.00	60	20	TM 3.2L-0500	TM 3.2L-0500L	TM 3.2L-0500C
6.00	6.00	65	24	TM 3.2L-0600	TM 3.2L-0600L	TM 3.2L-0600C
8.00	8.00	80	32	TM 3.2L-0800	TM 3.2L-0800L	TM 3.2L-0800C
10.00	10.00	80	32	TM 3.2L-1000	TM 3.2L-1000L	TM 3.2L-1000C
12.00	12.00	100	50	TM 3.2L-1200	TM 3.2L-1200L	TM 3.2L-1200C
14.00	14.00	100	50	TM 3.2L-1400	TM 3.2L-1400L	TM 3.2L-1400C
16.00	16.00	100	50	TM 3.2L-1600	TM 3.2L-1600L	TM 3.2L-1600C
20.00	20.00	100	50	TM 3.2L-2000	TM 3.2L-2000L	TM 3.2L-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

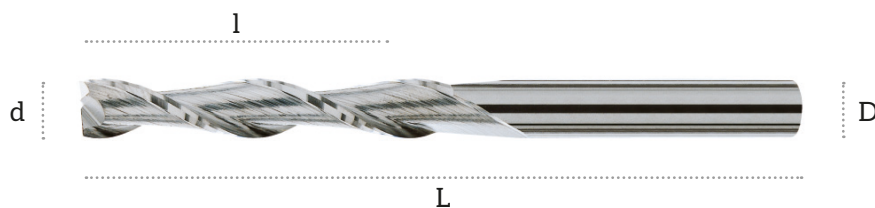
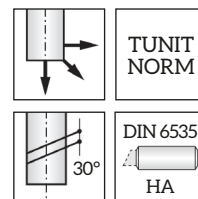
TiCN-B

TM 3.2 XL

Fresa elicoidale 2 taglienti, taglio al centro

Twist end mill 2 flutes center cutting

Fraise hélicoïdale 2 lèvres coupe au centre

Schaftfräser 2 Schneiden spiralgenutet mit Zentrumschnitt

d h9	D h6	L	lap	uncoated	AlTiSiN	TiCN-B
3.00	3.00	70	30	TM 3.2XL-0300	TM 3.2XL-0300L	TM 3.2XL-0300C
4.00	4.00	75	40	TM 3.2XL-0400	TM 3.2XL-0400L	TM 3.2XL-0400C
5.00	5.00	80	40	TM 3.2XL-0500	TM 3.2XL-0500L	TM 3.2XL-0500C
6.00	6.00	80	45	TM 3.2XL-0600	TM 3.2XL-0600L	TM 3.2XL-0600C
8.00	8.00	100	50	TM 3.2XL-0800	TM 3.2XL-0800L	TM 3.2XL-0800C
10.00	10.00	100	50	TM 3.2XL-1000	TM 3.2XL-1000L	TM 3.2XL-1000C
12.00	12.00	150	70	TM 3.2XL-1200	TM 3.2XL-1200L	TM 3.2XL-1200C
14.00	14.00	150	75	TM 3.2XL-1400	TM 3.2XL-1400L	TM 3.2XL-1400C
16.00	16.00	150	75	TM 3.2XL-1600	TM 3.2XL-1600L	TM 3.2XL-1600C
18.00	18.00	150	75	TM 3.2XL-1800	TM 3.2XL-1800L	TM 3.2XL-1800C
20.00	20.00	150	75	TM 3.2XL-2000	TM 3.2XL-2000L	TM 3.2XL-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

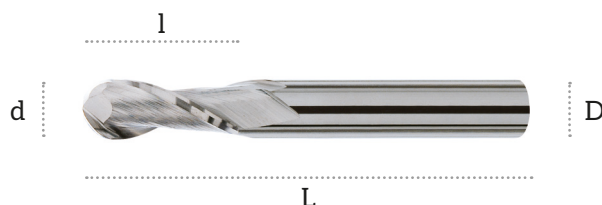
TM 3.2 R

Fresa elicoidale sferica 2 taglienti taglio al centro

Ball nose end mill 2 flutes center cutting

Fraise hélicoïdale à bout hémisphérique 2 lèvres coupe au centre

Stirnradiusfräser 2 Schneiden spiralgenutet mit Zentrumschnitt

TUNIT
NORMDIN 6535
HA

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
2.00	2.00	38	8	TM 3.2R-0200	TM 3.2R-0200L	TM 3.2R-0200C
2.50	2.50	38	8	TM 3.2R-0250	TM 3.2R-0250L	TM 3.2R-0250C
3.00	3.00	38	12	TM 3.2R-0300	TM 3.2R-0300L	TM 3.2R-0300C
3.50	3.50	40	12	TM 3.2R-0350	TM 3.2R-0350L	TM 3.2R-0350C
4.00	4.00	40	12	TM 3.2R-0400	TM 3.2R-0400L	TM 3.2R-0400C
4.50	4.50	50	14	TM 3.2R-0450	TM 3.2R-0450L	TM 3.2R-0450C
5.00	5.00	50	14	TM 3.2R-0500	TM 3.2R-0500L	TM 3.2R-0500C
5.50	5.50	50	16	TM 3.2R-0550	TM 3.2R-0550L	TM 3.2R-0550C
6.00	6.00	50	16	TM 3.2R-0600	TM 3.2R-0600L	TM 3.2R-0600C
6.50	6.50	50	16	TM 3.2R-0650	TM 3.2R-0650L	TM 3.2R-0650C
7.00	7.00	60	20	TM 3.2R-0700	TM 3.2R-0700L	TM 3.2R-0700C
7.50	7.50	60	20	TM 3.2R-0750	TM 3.2R-0750L	TM 3.2R-0750C
8.00	8.00	60	20	TM 3.2R-0800	TM 3.2R-0800L	TM 3.2R-0800C
8.50	8.50	60	20	TM 3.2R-0850	TM 3.2R-0850L	TM 3.2R-0850C
9.00	9.00	60	20	TM 3.2R-0900	TM 3.2R-0900L	TM 3.2R-0900C
9.50	9.50	70	22	TM 3.2R-0950	TM 3.2R-0950L	TM 3.2R-0950C
10.00	10.00	70	22	TM 3.2R-1000	TM 3.2R-1000L	TM 3.2R-1000C
11.00	11.00	70	22	TM 3.2R-1100	TM 3.2R-1100L	TM 3.2R-1100C
12.00	12.00	70	22	TM 3.2R-1200	TM 3.2R-1200L	TM 3.2R-1200C
13.00	13.00	75	25	TM 3.2R-1300	TM 3.2R-1300L	TM 3.2R-1300C
14.00	14.00	75	25	TM 3.2R-1400	TM 3.2R-1400L	TM 3.2R-1400C
15.00	15.00	75	25	TM 3.2R-1500	TM 3.2R-1500L	TM 3.2R-1500C
16.00	16.00	75	25	TM 3.2R-1600	TM 3.2R-1600L	TM 3.2R-1600C
18.00	18.00	100	32	TM 3.2R-1800	TM 3.2R-1800L	TM 3.2R-1800C
20.00	20.00	100	32	TM 3.2R-2000	TM 3.2R-2000L	TM 3.2R-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usage
Schnittdaten

Esecuzione speciale | diametri intermedi | 3 taglienti | DIN 6535 HB
Out of range | other sizes | 3 flutes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | 3 lèvres | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | 3 Schneiden | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

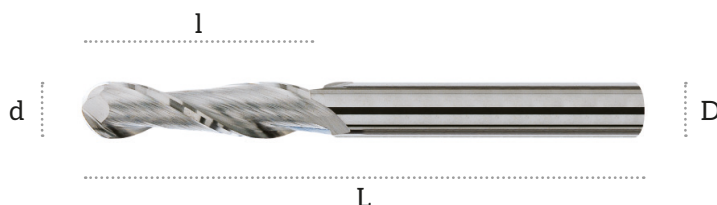
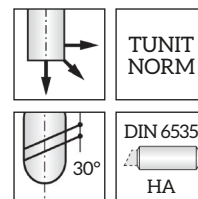
TM 3.2 RL

Fresa elicoidale sferica 2 taglienti taglio al centro

Ball nose end mill 2 flutes center cutting

Fraise hélicoïdale à bout hémisphérique 2 lèvres coupe au centre

Stirnradiusfräser 2 Schneiden spiralgenutet mit Zentrumschnitt



d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
3.00	3.00	55	20	TM 3.2RL-0300	TM 3.2RL-0300L	TM 3.2RL-0300C
4.00	4.00	60	20	TM 3.2RL-0400	TM 3.2RL-0400L	TM 3.2RL-0400C
5.00	5.00	60	20	TM 3.2RL-0500	TM 3.2RL-0500L	TM 3.2RL-0500C
6.00	6.00	65	24	TM 3.2RL-0600	TM 3.2RL-0600L	TM 3.2RL-0600C
8.00	8.00	80	32	TM 3.2RL-0800	TM 3.2RL-0800L	TM 3.2RL-0800C
10.00	10.00	80	32	TM 3.2RL-1000	TM 3.2RL-1000L	TM 3.2RL-1000C
12.00	12.00	100	50	TM 3.2RL-1200	TM 3.2RL-1200L	TM 3.2RL-1200C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | 3 taglienti | DIN 6535 HB
Out of range | other sizes | 3 flutes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | 3 lèvres | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | 3 Schneiden | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

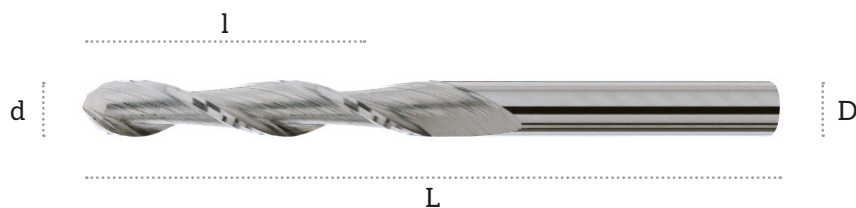
TM 3.2 RXL

Fresa elicoidale sferica 2 taglienti taglio al centro

Ball nose end mill 2 flutes center cutting

Fraise hélicoïdale à bout hémisphérique 2 lèvres coupe au centre

Stirnradiusfräser 2 Schneiden spiralgenutet mit Zentrumschnitt

TUNIT
NORMDIN 6535
HA

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
3.00	3.00	70	30	TM 3.2RXL-0300	TM 3.2RXL-0300L	TM 3.2RXL-0300C
4.00	4.00	75	40	TM 3.2RXL-0400	TM 3.2RXL-0400L	TM 3.2RXL-0400C
5.00	5.00	80	40	TM 3.2RXL-0500	TM 3.2RXL-0500L	TM 3.2RXL-0500C
6.00	6.00	80	45	TM 3.2RXL-0600	TM 3.2RXL-0600L	TM 3.2RXL-0600C
8.00	8.00	100	50	TM 3.2RXL-0800	TM 3.2RXL-0800L	TM 3.2RXL-0800C
10.00	10.00	100	50	TM 3.2RXL-1000	TM 3.2RXL-1000L	TM 3.2RXL-1000C
12.00	12.00	150	70	TM 3.2RXL-1200	TM 3.2RXL-1200L	TM 3.2RXL-1200C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



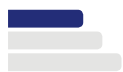
parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | 3 taglienti | DIN 6535 HB
Out of range | other sizes | 3 flutes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | 3 lèvres | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | 3 Schneiden | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

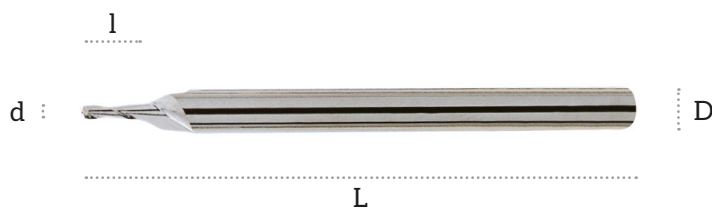
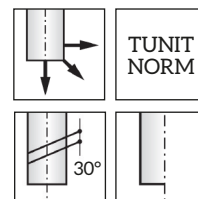




uncoated

TMM 3.2

Micro fresa 2 tagli 30°
Micro end mill 2 flutes 30°
 Micro-fraise 2 lèvres 30°
 Mikro-Fräser 2 Schneiden 30°



d h6	D h6	L	lap	uncoated
0.40	3.00	38.1	1.00	TMM 3.2-0040
0.50	3.00	38.1	1.50	TMM 3.2-0050
0.60	3.00	38.1	1.50	TMM 3.2-0060
0.70	3.00	38.1	2.00	TMM 3.2-0070
0.80	3.00	38.1	2.00	TMM 3.2-0080
0.90	3.00	38.1	2.00	TMM 3.2-0090
1.00	3.00	38.1	2.50	TMM 3.2-0100
1.10	3.00	38.1	2.50	TMM 3.2-0110
1.20	3.00	38.1	3.50	TMM 3.2-0120
1.30	3.00	38.1	4.00	TMM 3.2-0130
1.40	3.00	38.1	4.00	TMM 3.2-0140
1.50	3.00	38.1	4.50	TMM 3.2-0150
1.60	3.00	38.1	4.50	TMM 3.2-0160
1.70	3.00	38.1	5.00	TMM 3.2-0170
1.80	3.00	38.1	5.00	TMM 3.2-0180
1.90	3.00	38.1	5.00	TMM 3.2-0190
2.00	3.00	38.1	5.00	TMM 3.2-0200
2.50	3.00	38.1	5.00	TMM 3.2-0250



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
 Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





uncoated

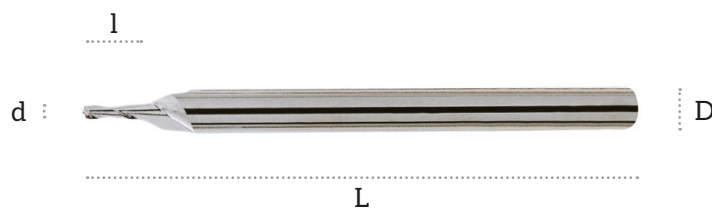
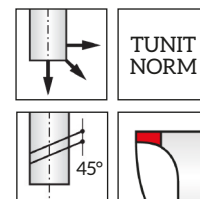
TMM 3.245

Micro fresa 2 tagli 45°

Micro end mill 2 flutes 45°

Micro-fraise 2 lèvres 45°

Mikro-Fräser 2 Schneiden 45°



d h6	D h6	L	l ap	uncoated
0.40	3.00	38.1	1.00	TMM 3.245-0040
0.50	3.00	38.1	1.50	TMM 3.245-0050
0.60	3.00	38.1	1.50	TMM 3.245-0060
0.70	3.00	38.1	2.00	TMM 3.245-0070
0.80	3.00	38.1	2.00	TMM 3.245-0080
0.90	3.00	38.1	2.00	TMM 3.245-0090
1.00	3.00	38.1	2.50	TMM 3.245-0100
1.10	3.00	38.1	2.50	TMM 3.245-0110
1.20	3.00	38.1	3.50	TMM 3.245-0120
1.30	3.00	38.1	4.00	TMM 3.245-0130
1.40	3.00	38.1	4.00	TMM 3.245-0140
1.50	3.00	38.1	4.50	TMM 3.245-0150
1.60	3.00	38.1	4.50	TMM 3.245-0160
1.70	3.00	38.1	5.00	TMM 3.245-0170
1.80	3.00	38.1	5.00	TMM 3.245-0180
1.90	3.00	38.1	5.00	TMM 3.245-0190
2.00	3.00	38.1	5.00	TMM 3.245-0200
2.50	3.00	38.1	5.00	TMM 3.245-0250



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

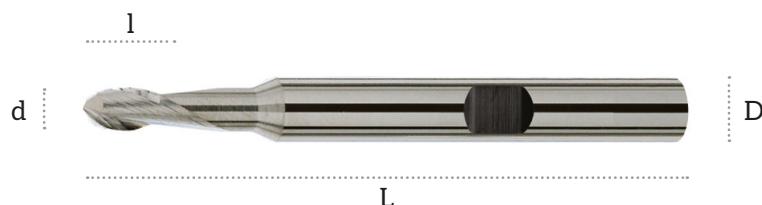
TM 3.2 RW

Fresa elicoidale sferica 2 taglienti taglio al centro

Ball nose end mill 2 flutes center cutting

Fraise hélicoïdale à bout hémisphérique 2 lèvres coupe au centre

Stirnradiusfräser 2 Schneiden spiralgenutet mit Zentrumschnitt

TUNIT
NORMDIN 6535
HB

d h9	D h6	L	lap	uncoated	AlTiSiN	TiCN-B
2.00	6.00	50	4	TM 3.2RW-0200	TM 3.2RW-0200L	TM 3.2RW-0200C
2.50	6.00	50	4	TM 3.2RW-0250	TM 3.2RW-0250L	TM 3.2RW-0250C
3.00	6.00	50	5	TM 3.2RW-0300	TM 3.2RW-0300L	TM 3.2RW-0300C
3.50	6.00	50	5	TM 3.2RW-0350	TM 3.2RW-0350L	TM 3.2RW-0350C
4.00	6.00	54	6	TM 3.2RW-0400	TM 3.2RW-0400L	TM 3.2RW-0400C
4.50	6.00	54	6	TM 3.2RW-0450	TM 3.2RW-0450L	TM 3.2RW-0450C
5.00	6.00	54	7	TM 3.2RW-0500	TM 3.2RW-0500L	TM 3.2RW-0500C
6.00	6.00	54	9	TM 3.2RW-0600	TM 3.2RW-0600L	TM 3.2RW-0600C
8.00	8.00	58	12	TM 3.2RW-0800	TM 3.2RW-0800L	TM 3.2RW-0800C
10.00	10.00	66	14	TM 3.2RW-1000	TM 3.2RW-1000L	TM 3.2RW-1000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

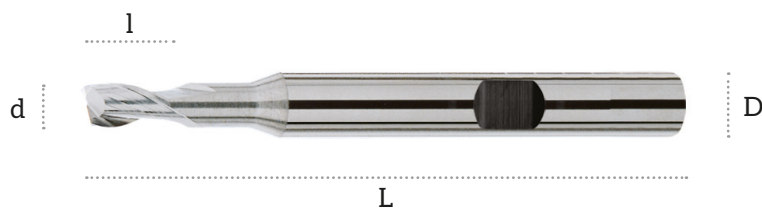
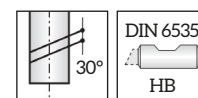
TiCN-B

TM 3.2 W

Fresa elicoidale 2 taglienti taglio al centro
Twist end mill 2 flutes center cutting

Fraise hélicoïdale 2 lèvres coupe au centre

Schaftfräser 2 Schneiden spiralgenutet mit Zentrumschnitt



d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
2.00	6.00	50	4	TM 3.2W-0200	TM 3.2W-0200L	TM 3.2W-0200C
2.50	6.00	50	4	TM 3.2W-0250	TM 3.2W-0250L	TM 3.2W-0250C
3.00	6.00	50	5	TM 3.2W-0300	TM 3.2W-0300L	TM 3.2W-0300C
3.50	6.00	50	5	TM 3.2W-0350	TM 3.2W-0350L	TM 3.2W-0350C
4.00	6.00	54	6	TM 3.2W-0400	TM 3.2W-0400L	TM 3.2W-0400C
4.50	6.00	54	6	TM 3.2W-0450	TM 3.2W-0450L	TM 3.2W-0450C
5.00	6.00	54	7	TM 3.2W-0500	TM 3.2W-0500L	TM 3.2W-0500C
6.00	6.00	54	9	TM 3.2W-0600	TM 3.2W-0600L	TM 3.2W-0600C
8.00	8.00	58	12	TM 3.2W-0800	TM 3.2W-0800L	TM 3.2W-0800C
10.00	10.00	66	14	TM 3.2W-1000	TM 3.2W-1000L	TM 3.2W-1000C



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
 Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

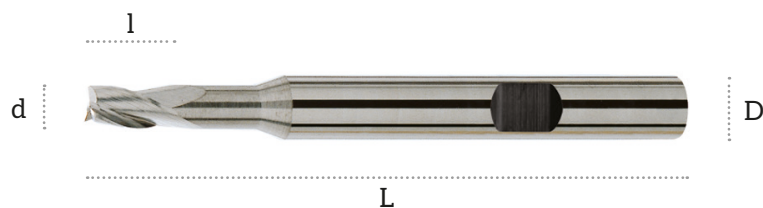
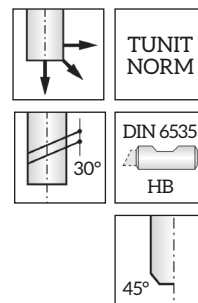
TM 3.3 W

Fresa elicoidale 3 taglienti taglio al centro

Twist end mill 3 flutes center cutting

Fraise hélicoïdale 3 lèvres coupe au centre

Schaftfräser 3 Schneiden spiralgenutet mit Zentrumschnitt



d h9	D h6	L	lap	uncoated	AlTiSiN	TiCN-B
2.00	6.00	50	4	TM 3.3W-0200	TM 3.3W-0200L	TM 3.3W-0200C
2.50	6.00	50	4	TM 3.3W-0250	TM 3.3W-0250L	TM 3.3W-0250C
3.00	6.00	50	5	TM 3.3W-0300	TM 3.3W-0300L	TM 3.3W-0300C
3.50	6.00	50	5	TM 3.3W-0350	TM 3.3W-0350L	TM 3.3W-0350C
4.00	6.00	54	6	TM 3.3W-0400	TM 3.3W-0400L	TM 3.3W-0400C
4.50	6.00	54	6	TM 3.3W-0450	TM 3.3W-0450L	TM 3.3W-0450C
5.00	6.00	54	7	TM 3.3W-0500	TM 3.3W-0500L	TM 3.3W-0500C
6.00	6.00	54	9	TM 3.3W-0600	TM 3.3W-0600L	TM 3.3W-0600C
8.00	8.00	58	12	TM 3.3W-0800	TM 3.3W-0800L	TM 3.3W-0800C
10.00	10.00	66	14	TM 3.3W-1000	TM 3.3W-1000L	TM 3.3W-1000C
12.00	12.00	73	14	TM 3.3W-1200	TM 3.3W-1200L	TM 3.3W-1200C
14.00	14.00	75	16	TM 3.3W-1400	TM 3.3W-1400L	TM 3.3W-1400C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

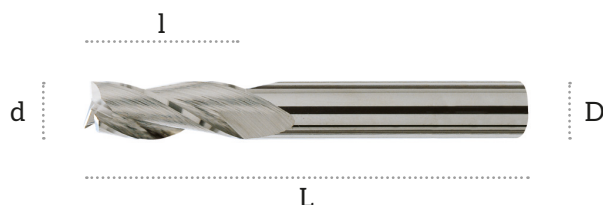
TM 3.3

Fresa elicoidale 3 taglienti taglio al centro

Twist end mill 3 flutes center cutting

Fraise hélicoïdale 3 lèvres coupe au centre

Schaftfräser 3 Schneiden spiralgenutet mit Zentrumschnitt

TUNIT
NORMDIN 6535
HA

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
2.00	2.00	38	8	TM 3.3-0200	TM 3.3-0200L	TM 3.3-0200C
2.50	2.50	38	8	TM 3.3-0250	TM 3.3-0250L	TM 3.3-0250C
3.00	3.00	38	12	TM 3.3-0300	TM 3.3-0300L	TM 3.3-0300C
3.50	3.50	40	12	TM 3.3-0350	TM 3.3-0350L	TM 3.3-0350C
4.00	4.00	40	12	TM 3.3-0400	TM 3.3-0400L	TM 3.3-0400C
4.50	4.50	50	14	TM 3.3-0450	TM 3.3-0450L	TM 3.3-0450C
5.00	5.00	50	14	TM 3.3-0500	TM 3.3-0500L	TM 3.3-0500C
5.50	5.50	50	16	TM 3.3-0550	TM 3.3-0550L	TM 3.3-0550C
6.00	6.00	50	16	TM 3.3-0600	TM 3.3-0600L	TM 3.3-0600C
6.50	6.50	50	16	TM 3.3-0650	TM 3.3-0650L	TM 3.3-0650C
7.00	7.00	60	20	TM 3.3-0700	TM 3.3-0700L	TM 3.3-0700C
7.50	7.50	60	20	TM 3.3-0750	TM 3.3-0750L	TM 3.3-0750C
8.00	8.00	60	20	TM 3.3-0800	TM 3.3-0800L	TM 3.3-0800C
8.50	8.50	60	20	TM 3.3-0850	TM 3.3-0850L	TM 3.3-0850C
9.00	9.00	60	20	TM 3.3-0900	TM 3.3-0900L	TM 3.3-0900C
9.50	9.50	70	22	TM 3.3-0950	TM 3.3-0950L	TM 3.3-0950C
10.00	10.00	70	22	TM 3.3-1000	TM 3.3-1000L	TM 3.3-1000C
11.00	11.00	70	22	TM 3.3-1100	TM 3.3-1100L	TM 3.3-1100C
12.00	12.00	70	22	TM 3.3-1200	TM 3.3-1200L	TM 3.3-1200C
13.00	13.00	75	25	TM 3.3-1300	TM 3.3-1300L	TM 3.3-1300C
14.00	14.00	75	25	TM 3.3-1400	TM 3.3-1400L	TM 3.3-1400C
15.00	15.00	75	25	TM 3.3-1500	TM 3.3-1500L	TM 3.3-1500C
16.00	16.00	75	25	TM 3.3-1600	TM 3.3-1600L	TM 3.3-1600C
18.00	18.00	100	32	TM 3.3-1800	TM 3.3-1800L	TM 3.3-1800C
20.00	20.00	100	32	TM 3.3-2000	TM 3.3-2000L	TM 3.3-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

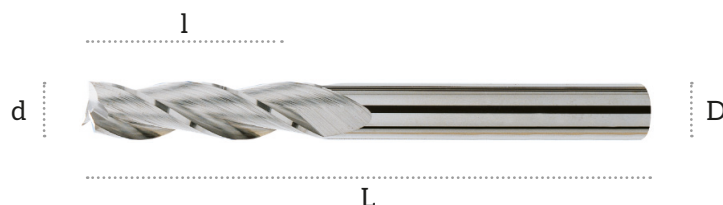
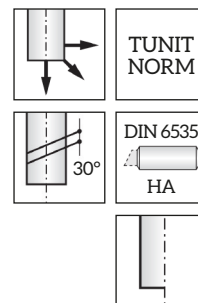
TiCN-B

TM 3.3 L

Fresa elicoidale 3 taglienti taglio al centro

Twist end mill 3 flutes center cutting

Fraise hélicoïdale 3 lèvres coupe au centre

Schaftfräser 3 Schneiden spiralgenutet mit Zentrumschnitt

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
3.00	3.00	55	20	TM 3.3L-0300	TM 3.3L-0300L	TM 3.3L-0300C
4.00	4.00	60	20	TM 3.3L-0400	TM 3.3L-0400L	TM 3.3L-0400C
5.00	5.00	60	20	TM 3.3L-0500	TM 3.3L-0500L	TM 3.3L-0500C
6.00	6.00	65	24	TM 3.3L-0600	TM 3.3L-0600L	TM 3.3L-0600C
8.00	8.00	80	32	TM 3.3L-0800	TM 3.3L-0800L	TM 3.3L-0800C
10.00	10.00	80	32	TM 3.3L-1000	TM 3.3L-1000L	TM 3.3L-1000C
12.00	12.00	100	50	TM 3.3L-1200	TM 3.3L-1200L	TM 3.3L-1200C
14.00	14.00	100	50	TM 3.3L-1400	TM 3.3L-1400L	TM 3.3L-1400C
16.00	16.00	100	50	TM 3.3L-1600	TM 3.3L-1600L	TM 3.3L-1600C
18.00	18.00	100	50	TM 3.3L-1800	TM 3.3L-1800L	TM 3.3L-1800C
20.00	20.00	100	50	TM 3.3L-2000	TM 3.3L-2000L	TM 3.3L-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

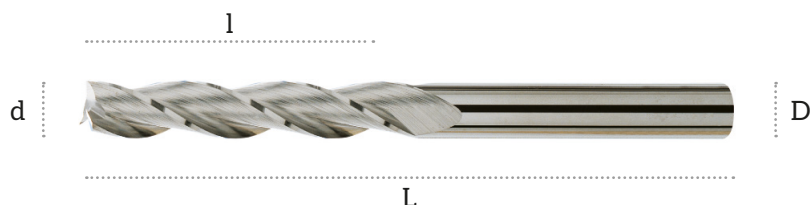
TiCN-B

TM 3.3 XL

Fresa elicoidale 3 taglienti taglio al centro

Twist end mill 3 flutes center cutting

Fraise hélicoïdale 3 lèvres coupe au centre

Schaftfräser 3 Schneiden spiralgenutet mit ZentrumschnittTUNIT
NORMDIN 6535
HA

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
3.00	3.00	70	30	TM 3.3XL-0300	TM 3.3XL-0300L	TM 3.3XL-0300C
4.00	4.00	75	40	TM 3.3XL-0400	TM 3.3XL-0400L	TM 3.3XL-0400C
5.00	5.00	80	40	TM 3.3XL-0500	TM 3.3XL-0500L	TM 3.3XL-0500C
6.00	6.00	80	45	TM 3.3XL-0600	TM 3.3XL-0600L	TM 3.3XL-0600C
8.00	8.00	100	50	TM 3.3XL-0800	TM 3.3XL-0800L	TM 3.3XL-0800C
10.00	10.00	100	50	TM 3.3XL-1000	TM 3.3XL-1000L	TM 3.3XL-1000C
12.00	12.00	150	70	TM 3.3XL-1200	TM 3.3XL-1200L	TM 3.3XL-1200C
14.00	14.00	150	75	TM 3.3XL-1400	TM 3.3XL-1400L	TM 3.3XL-1400C
16.00	16.00	150	75	TM 3.3XL-1600	TM 3.3XL-1600L	TM 3.3XL-1600C
18.00	18.00	150	75	TM 3.3XL-1800	TM 3.3XL-1800L	TM 3.3XL-1800C
20.00	20.00	150	75	TM 3.3XL-2000	TM 3.3XL-2000L	TM 3.3XL-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

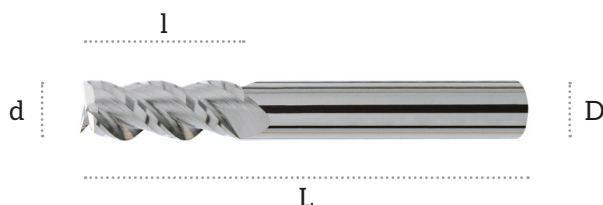
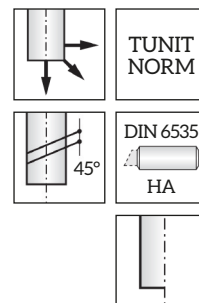
TiCN-B

TM 3.345

Fresa elicoidale 3 taglienti taglio al centro

Twist end mill 3 flutes center cutting

Fraise hélicoïdale 3 lèvres coupe au centre

Schaftfräser 3 Schneiden spiralgenutet mit Zentrumschnitt

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
4.00	6.00	50	12	TM 3.345-0400	TM 3.345-0400L	TM 3.345-0400C
5.00	6.00	50	14	TM 3.345-0500	TM 3.345-0500L	TM 3.345-0500C
6.00	6.00	50	16	TM 3.345-0600	TM 3.345-0600L	TM 3.345-0600C
8.00	8.00	60	20	TM 3.345-0800	TM 3.345-0800L	TM 3.345-0800C
10.00	10.00	70	22	TM 3.345-1000	TM 3.345-1000L	TM 3.345-1000C
12.00	12.00	70	22	TM 3.345-1200	TM 3.345-1200L	TM 3.345-1200C
14.00	14.00	75	25	TM 3.345-1400	TM 3.345-1400L	TM 3.345-1400C
16.00	16.00	75	25	TM 3.345-1600	TM 3.345-1600L	TM 3.345-1600C
18.00	18.00	100	30	TM 3.345-1800	TM 3.345-1800L	TM 3.345-1800C
20.00	20.00	100	30	TM 3.345-2000	TM 3.345-2000L	TM 3.345-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

TM 3.245 W

Fresa elicoidale 45° 2 taglienti taglio al centro

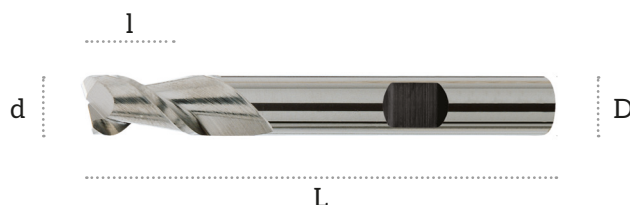
Twist end mill 2 flutes 45° helix angle 2 teeth cutting to center

Fraise hélicoïdale 2 lèvres 45° angle hélice deux coupes au centre

Fräser 2 Schneiden 45° spiralgenutet Zentrumschnitt

DIN
6527 LDIN 6535
HB

45°



d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
4.00	6.00	57	8	TM 3.245W-0400	TM 3.245W-0400L	TM 3.245W-0400C
6.00	6.00	57	10	TM 3.245W-0600	TM 3.245W-0600L	TM 3.245W-0600C
8.00	8.00	63	16	TM 3.245W-0800	TM 3.245W-0800L	TM 3.245W-0800C
10.00	10.00	72	19	TM 3.245W-1000	TM 3.245W-1000L	TM 3.245W-1000C
12.00	12.00	82	22	TM 3.245W-1200	TM 3.245W-1200L	TM 3.245W-1200C
16.00	16.00	92	25	TM 3.245W-1600	TM 3.245W-1600L	TM 3.245W-1600C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

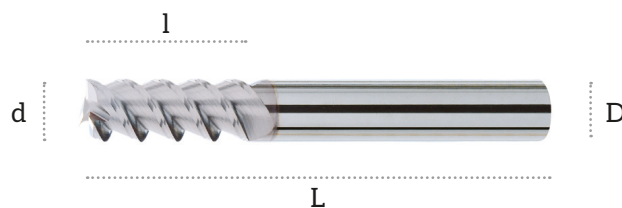
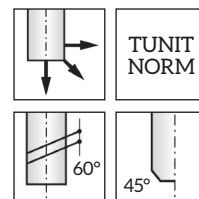
TM 3.360

Fresa elicoidale 3 taglienti forte torsione taglio al centro

Twist end mill 3 flutes 60° helix angle center cutting

Fraise hélicoïdale 3 lèvres 60° angle hélice coupe au centre

Fräser 3 Schneiden 60° spiralgenutet mit Zentrumschnitt



d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
4.00	6.00	50	12	TM 3.360-0400	TM 3.360-0400L	TM 3.360-0400C
5.00	6.00	50	14	TM 3.360-0500	TM 3.360-0500L	TM 3.360-0500C
6.00	6.00	50	16	TM 3.360-0600	TM 3.360-0600L	TM 3.360-0600C
8.00	8.00	60	20	TM 3.360-0800	TM 3.360-0800L	TM 3.360-0800C
10.00	10.00	70	22	TM 3.360-1000	TM 3.360-1000L	TM 3.360-1000C
12.00	12.00	70	22	TM 3.360-1200	TM 3.360-1200L	TM 3.360-1200C
14.00	14.00	75	25	TM 3.360-1400	TM 3.360-1400L	TM 3.360-1400C
16.00	16.00	75	25	TM 3.360-1600	TM 3.360-1600L	TM 3.360-1600C
18.00	18.00	100	30	TM 3.360-1800	TM 3.360-1800L	TM 3.360-1800C
20.00	20.00	100	30	TM 3.360-2000	TM 3.360-2000L	TM 3.360-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

ZrN

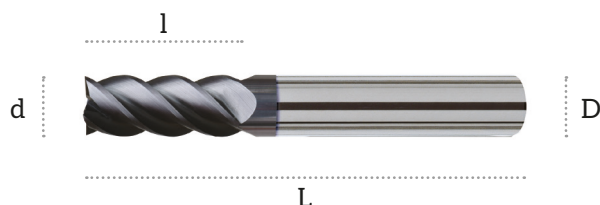
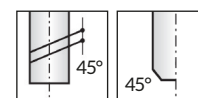
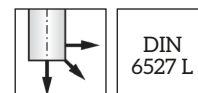
TM 3.445

Fresa elicoidale 45° 4 taglienti taglio al centro

Twist end mill 4 flutes 45° helix angle 2 teeth cutting to center

Fraise hélicoïdale 4 lèvres 45° angle hélice deux coupes au centre

Fräser 4 Schneiden 45° spiralgenutet Zentrumschnitt



d h9	D h6	L	lap	uncoated	AlTiSiN	TiCN-B	ZrN
6.00	6.00	57	16	TM 3.445-0600	TM 3.445-0600L	TM 3.445-0600C	TM 3.445-0600Z
8.00	8.00	63	19	TM 3.445-0800	TM 3.445-0800L	TM 3.445-0800C	TM 3.445-0800Z
10.00	10.00	75	25	TM 3.445-1000	TM 3.445-1000L	TM 3.445-1000C	TM 3.445-1000Z
12.00	12.00	83	28	TM 3.445-1200	TM 3.445-1200L	TM 3.445-1200C	TM 3.445-1200Z
14.00	14.00	83	30	TM 3.445-1400	TM 3.445-1400L	TM 3.445-1400C	TM 3.445-1400Z
16.00	16.00	92	35	TM 3.445-1600	TM 3.445-1600L	TM 3.445-1600C	TM 3.445-1600Z
18.00	18.00	92	35	TM 3.445-1800	TM 3.445-1800L	TM 3.445-1800C	TM 3.445-1800Z
20.00	20.00	104	40	TM 3.445-2000	TM 3.445-2000L	TM 3.445-2000C	TM 3.445-2000Z



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

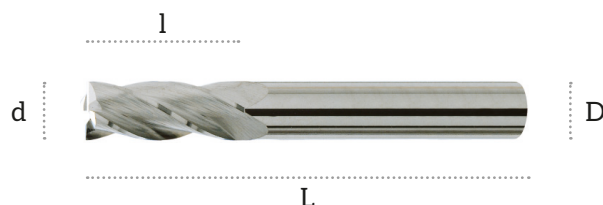
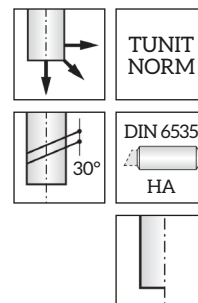
TiCN-B

TM 3.4

Fresa elicoidale 4 taglienti taglio al centro

Twist end mill 4 flutes center cutting

Fraise hélicoïdale 4 lèvres coupe au centre

Schaftfräser 4 Schneiden spiralgenutet mit Zentrumschnitt

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
2.00	2.00	38	8	TM 3.4-0200	TM 3.4-0200L	TM 3.4-0200C
2.50	2.50	38	8	TM 3.4-0250	TM 3.4-0250L	TM 3.4-0250C
3.00	3.00	38	12	TM 3.4-0300	TM 3.4-0300L	TM 3.4-0300C
3.50	3.50	40	12	TM 3.4-0350	TM 3.4-0350L	TM 3.4-0350C
4.00	4.00	40	12	TM 3.4-0400	TM 3.4-0400L	TM 3.4-0400C
4.50	4.50	50	14	TM 3.4-0450	TM 3.4-0450L	TM 3.4-0450C
5.00	5.00	50	14	TM 3.4-0500	TM 3.4-0500L	TM 3.4-0500C
5.50	5.50	50	16	TM 3.4-0550	TM 3.4-0550L	TM 3.4-0550C
6.00	6.00	50	16	TM 3.4-0600	TM 3.4-0600L	TM 3.4-0600C
6.50	6.50	50	16	TM 3.4-0650	TM 3.4-0650L	TM 3.4-0650C
7.00	7.00	60	20	TM 3.4-0700	TM 3.4-0700L	TM 3.4-0700C
7.50	7.50	60	20	TM 3.4-0750	TM 3.4-0750L	TM 3.4-0750C
8.00	8.00	60	20	TM 3.4-0800	TM 3.4-0800L	TM 3.4-0800C
8.50	8.50	60	20	TM 3.4-0850	TM 3.4-0850L	TM 3.4-0850C
9.00	9.00	60	20	TM 3.4-0900	TM 3.4-0900L	TM 3.4-0900C
9.50	9.50	70	22	TM 3.4-0950	TM 3.4-0950L	TM 3.4-0950C
10.00	10.00	70	22	TM 3.4-1000	TM 3.4-1000L	TM 3.4-1000C
11.00	11.00	70	22	TM 3.4-1100	TM 3.4-1100L	TM 3.4-1100C
12.00	12.00	70	22	TM 3.4-1200	TM 3.4-1200L	TM 3.4-1200C
13.00	13.00	75	25	TM 3.4-1300	TM 3.4-1300L	TM 3.4-1300C
14.00	14.00	75	25	TM 3.4-1400	TM 3.4-1400L	TM 3.4-1400C
15.00	15.00	75	25	TM 3.4-1500	TM 3.4-1500L	TM 3.4-1500C
16.00	16.00	75	25	TM 3.4-1600	TM 3.4-1600L	TM 3.4-1600C
18.00	18.00	100	32	TM 3.4-1800	TM 3.4-1800L	TM 3.4-1800C
20.00	20.00	100	32	TM 3.4-2000	TM 3.4-2000L	TM 3.4-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

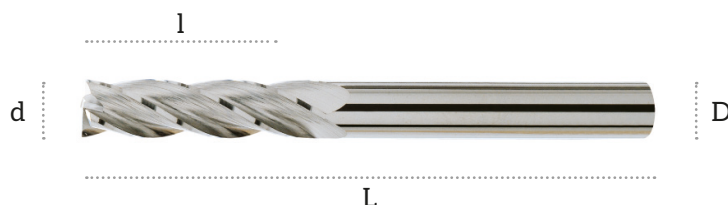
TiCN-B

TM 3.4 L

Fresa elicoidale 4 taglienti taglio al centro

Twist end mill 4 flutes center cutting

Fraise hélicoïdale 4 lèvres coupe au centre

Schaftfräser 4 Schneiden spiralgenutet mit ZentrumschnittTUNIT
NORMDIN 6535
HA

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
3.00	3.00	55	20	TM 3.4L-0300	TM 3.4L-0300L	TM 3.4L-0300C
4.00	4.00	60	20	TM 3.4L-0400	TM 3.4L-0400L	TM 3.4L-0400C
5.00	5.00	60	20	TM 3.4L-0500	TM 3.4L-0500L	TM 3.4L-0500C
6.00	6.00	65	24	TM 3.4L-0600	TM 3.4L-0600L	TM 3.4L-0600C
8.00	8.00	80	32	TM 3.4L-0800	TM 3.4L-0800L	TM 3.4L-0800C
10.00	10.00	80	32	TM 3.4L-1000	TM 3.4L-1000L	TM 3.4L-1000C
12.00	12.00	100	50	TM 3.4L-1200	TM 3.4L-1200L	TM 3.4L-1200C
14.00	14.00	100	50	TM 3.4L-1400	TM 3.4L-1400L	TM 3.4L-1400C
16.00	16.00	100	50	TM 3.4L-1600	TM 3.4L-1600L	TM 3.4L-1600C
18.00	18.00	100	50	TM 3.4L-1800	TM 3.4L-1800L	TM 3.4L-1800C
20.00	20.00	100	50	TM 3.4L-2000	TM 3.4L-2000L	TM 3.4L-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

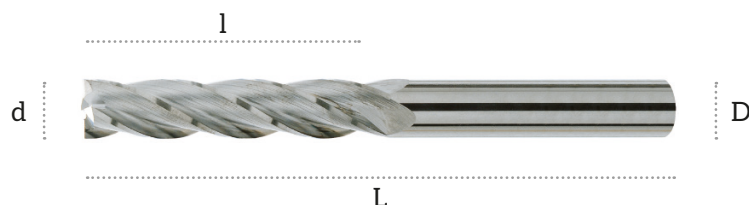
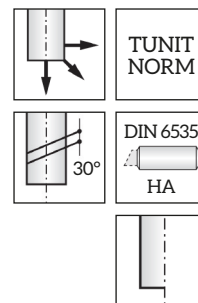
TiCN-B

TM 3.4 XL

Fresa elicoidale 4 taglienti taglio al centro

Twist end mill 4 flutes center cutting

Fraise hélicoïdale 4 lèvres coupe au centre

Schaftfräser 4 Schneiden spiralgenutet mit Zentrumschnitt

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
3.00	3.00	70	30	TM 3.4XL-0300	TM 3.4XL-0300L	TM 3.4XL-0300C
4.00	4.00	75	40	TM 3.4XL-0400	TM 3.4XL-0400L	TM 3.4XL-0400C
5.00	5.00	80	40	TM 3.4XL-0500	TM 3.4XL-0500L	TM 3.4XL-0500C
6.00	6.00	80	45	TM 3.4XL-0600	TM 3.4XL-0600L	TM 3.4XL-0600C
8.00	8.00	100	50	TM 3.4XL-0800	TM 3.4XL-0800L	TM 3.4XL-0800C
10.00	10.00	100	50	TM 3.4XL-1000	TM 3.4XL-1000L	TM 3.4XL-1000C
12.00	12.00	150	70	TM 3.4XL-1200	TM 3.4XL-1200L	TM 3.4XL-1200C
14.00	14.00	150	75	TM 3.4XL-1400	TM 3.4XL-1400L	TM 3.4XL-1400C
16.00	16.00	150	75	TM 3.4XL-1600	TM 3.4XL-1600L	TM 3.4XL-1600C
18.00	18.00	150	75	TM 3.4XL-1800	TM 3.4XL-1800L	TM 3.4XL-1800C
20.00	20.00	150	75	TM 3.4XL-2000	TM 3.4XL-2000L	TM 3.4XL-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

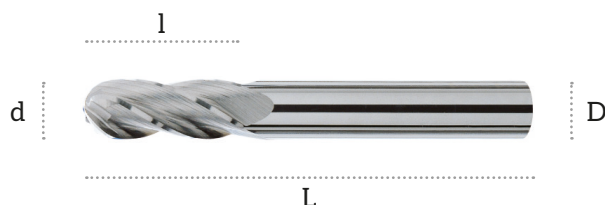
TM 3.4 R

Fresa elicoidale sferica 4 taglienti taglio al centro

Ball nose end mill 4 flutes center cutting

Fraise hélicoïdale à bout hémisphérique 4 lèvres coupe au centre

Stirnradiusfräser 4 Schneiden spiralgenutet mit Zentrumschnitt

TUNIT
NORMDIN 6535
HA

d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
2.00	2.00	38	8	TM 3.4R-0200	TM 3.4R-0200L	TM 3.4R-0200C
2.50	2.50	38	8	TM 3.4R-0250	TM 3.4R-0250L	TM 3.4R-0250C
3.00	3.00	38	12	TM 3.4R-0300	TM 3.4R-0300L	TM 3.4R-0300C
3.50	3.50	40	12	TM 3.4R-0350	TM 3.4R-0350L	TM 3.4R-0350C
4.00	4.00	40	12	TM 3.4R-0400	TM 3.4R-0400L	TM 3.4R-0400C
4.50	4.50	50	14	TM 3.4R-0450	TM 3.4R-0450L	TM 3.4R-0450C
5.00	5.00	50	14	TM 3.4R-0500	TM 3.4R-0500L	TM 3.4R-0500C
5.50	5.50	50	16	TM 3.4R-0550	TM 3.4R-0550L	TM 3.4R-0550C
6.00	6.00	50	16	TM 3.4R-0600	TM 3.4R-0600L	TM 3.4R-0600C
7.00	7.00	60	20	TM 3.4R-0700	TM 3.4R-0700L	TM 3.4R-0700C
8.00	8.00	60	20	TM 3.4R-0800	TM 3.4R-0800L	TM 3.4R-0800C
8.50	8.50	60	20	TM 3.4R-0850	TM 3.4R-0850L	TM 3.4R-0850C
10.00	10.00	70	22	TM 3.4R-1000	TM 3.4R-1000L	TM 3.4R-1000C
12.00	12.00	70	22	TM 3.4R-1200	TM 3.4R-1200L	TM 3.4R-1200C
14.00	14.00	75	25	TM 3.4R-1400	TM 3.4R-1400L	TM 3.4R-1400C
16.00	16.00	75	25	TM 3.4R-1600	TM 3.4R-1600L	TM 3.4R-1600C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

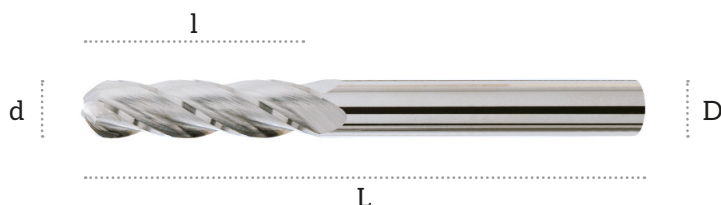
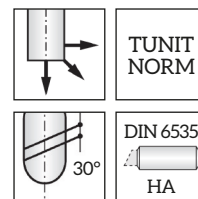
TM 3.4 RL

Fresa elicoidale sferica 4 taglienti taglio al centro

Ball nose end mill 4 flutes center cutting

Fraise hélicoïdale à bout hémisphérique 4 lèvres coupe au centre

Stirnradiusfräser 4 Schneiden spiralgenutet mit Zentrumschnitt



d h9	D h6	L	l ap	uncoated	AlTiSiN	TiCN-B
3.00	3.00	55	20	TM 3.4RL-0300	TM 3.4RL-0300L	TM 3.4RL-0300C
4.00	4.00	60	20	TM 3.4RL-0400	TM 3.4RL-0400L	TM 3.4RL-0400C
5.00	5.00	60	20	TM 3.4RL-0500	TM 3.4RL-0500L	TM 3.4RL-0500C
6.00	6.00	65	24	TM 3.4RL-0600	TM 3.4RL-0600L	TM 3.4RL-0600C
8.00	8.00	80	32	TM 3.4RL-0800	TM 3.4RL-0800L	TM 3.4RL-0800C
10.00	10.00	80	32	TM 3.4RL-1000	TM 3.4RL-1000L	TM 3.4RL-1000C
12.00	12.00	100	50	TM 3.4RL-1200	TM 3.4RL-1200L	TM 3.4RL-1200C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





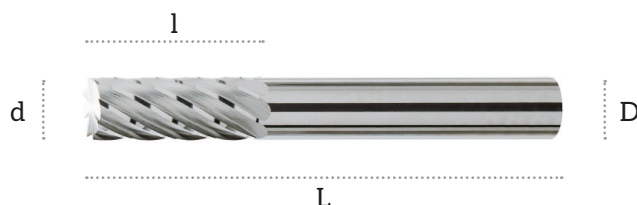
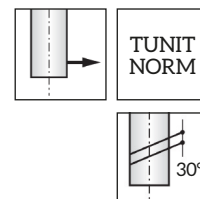
uncoated

AlTiSiN

TiCN-B

TM 3.51

Fresa elicoidale multident
Twist end mill multi-cut
 Fraise hélicoïdale multident
 Mehrschneidenfräser spiralgenutet



d h9	D h6	L	l ap	Z	uncoated	AlTiSiN	TiCN-B
3.00	3.00	38	12	6	TM 3.51-0300	TM 3.51-0300L	TM 3.51-0300C
4.00	4.00	40	12	6	TM 3.51-0400	TM 3.51-0400L	TM 3.51-0400C
5.00	5.00	50	14	6	TM 3.51-0500	TM 3.51-0500L	TM 3.51-0500C
6.00	6.00	50	16	8	TM 3.51-0600	TM 3.51-0600L	TM 3.51-0600C
7.00	7.00	60	20	8	TM 3.51-0700	TM 3.51-0700L	TM 3.51-0700C
8.00	8.00	60	20	8	TM 3.51-0800	TM 3.51-0800L	TM 3.51-0800C
10.00	10.00	70	22	8	TM 3.51-1000	TM 3.51-1000L	TM 3.51-1000C
12.00	12.00	70	22	10	TM 3.51-1200	TM 3.51-1200L	TM 3.51-1200C



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
 Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





uncoated

AlTiSiN

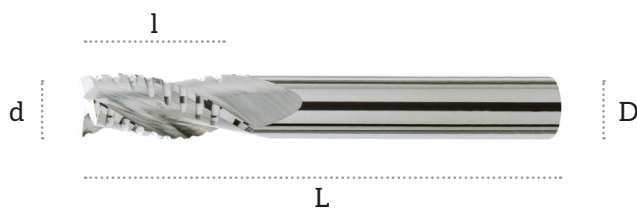
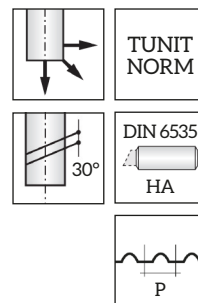
TiCN-B

TM 3.61 TF

Fresa con rompitruciolo dentatura piatta

Roughing end mill fine profile

Fraise ébauche à brise copeaux denture fine

Schrupfräser feine Verzahnung

d h9	D h6	L	l ap	Z	P	uncoated	AlTiSiN	TiCN-B
6.00	6.00	50	14	3	1.5	TM 3.61TF-0600	TM 3.61TF-0600L	TM 3.61TF-0600C
8.00	8.00	60	19	3	2	TM 3.61TF-0800	TM 3.61TF-0800L	TM 3.61TF-0800C
10.00	10.00	70	22	4	2.5	TM 3.61TF-1000	TM 3.61TF-1000L	TM 3.61TF-1000C
12.00	12.00	74	26	4	2.5	TM 3.61TF-1200	TM 3.61TF-1200L	TM 3.61TF-1200C
14.00	14.00	76	28	4	3	TM 3.61TF-1400	TM 3.61TF-1400L	TM 3.61TF-1400C
16.00	16.00	83	32	4	3	TM 3.61TF-1600	TM 3.61TF-1600L	TM 3.61TF-1600C
18.00	18.00	85	32	4	3	TM 3.61TF-1800	TM 3.61TF-1800L	TM 3.61TF-1800C
20.00	20.00	93	35	4	3	TM 3.61TF-2000	TM 3.61TF-2000L	TM 3.61TF-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AlTiSiN

TiCN-B

TM 3.61 TL

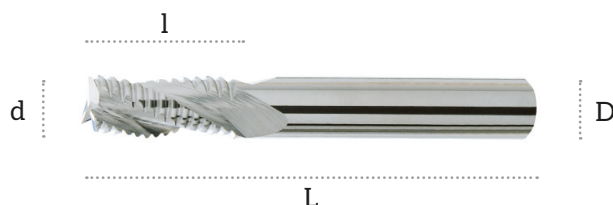
Fresa con rompitruciolo dentatura ondulata

Roughing end mill coarse profile

Fraise ébauche à brise copeaux denture grosse

Schruppfräser Grob-VerzahnungTUNIT
NORMDIN 6535
HA

P



d h9	D h6	L	l ap	Z	P	uncoated	AlTiSiN	TiCN-B
6.00	6.00	50	14	3	1	TM 3.61TL-0600	TM 3.61TL-0600L	TM 3.61TL-0600C
8.00	8.00	60	19	3	1.5	TM 3.61TL-0800	TM 3.61TL-0800L	TM 3.61TL-0800C
10.00	10.00	70	22	4	1.5	TM 3.61TL-1000	TM 3.61TL-1000L	TM 3.61TL-1000C
12.00	12.00	74	26	4	2	TM 3.61TL-1200	TM 3.61TL-1200L	TM 3.61TL-1200C
14.00	14.00	76	28	4	2	TM 3.61TL-1400	TM 3.61TL-1400L	TM 3.61TL-1400C
16.00	16.00	83	32	4	2.5	TM 3.61TL-1600	TM 3.61TL-1600L	TM 3.61TL-1600C
18.00	18.00	85	32	4	2.5	TM 3.61TL-1800	TM 3.61TL-1800L	TM 3.61TL-1800C
20.00	20.00	93	35	4	2.5	TM 3.61TL-2000	TM 3.61TL-2000L	TM 3.61TL-2000C



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

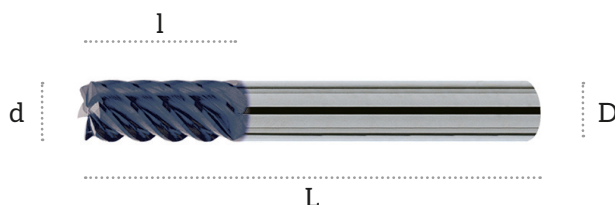
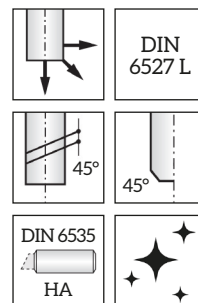




AluCroN

TM H.545

Fresa cilindrica multidentati per finiture ad alta velocità
High speed cutting end mill for finishing milling multi-cut, front rake angle
Fraise HSC fraisage à finir Multidentés-angle de coupe
Hochgeschwindigkeitsfräser Mehrschneiden Spanwinkel



d h9	D h6	L	l ap	Z	AluCroN
6.00	6.00	57	13	6	TM H.545-0600X
8.00	8.00	63	19	6	TM H.545-0800X
10.00	10.00	72	22	6	TM H.545-1000X
12.00	12.00	83	26	6	TM H.545-1200X
14.00	14.00	83	26	6	TM H.545-1400X
16.00	16.00	92	32	8	TM H.545-1600X
20.00	20.00	104	38	8	TM H.545-2000X



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

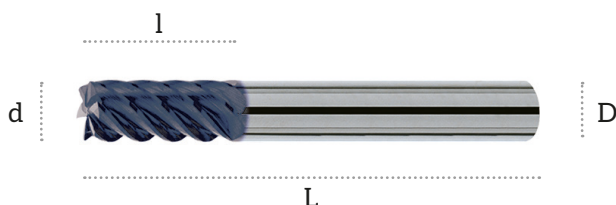
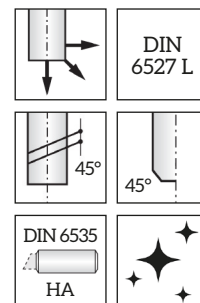




AluCroN

TM H.545 XL

Fresa cilindrica multident per finiture ad alta velocità
High speed cutting end mill for finishing milling multi-cut front rake angle
Fraise HSC fraisage à finir Multident angle de coupe
Hochgeschwindigkeitsfräser Mehrschneiden Spanwinkel



d h9	D h6	L	l ap	Z	AluCroN
6.00	6.00	65	20	6	TM H.545XL-0600
8.00	8.00	70	25	6	TM H.545XL-0800
10.00	10.00	80	30	6	TM H.545XL-1000
12.00	12.00	95	35	6	TM H.545XL-1200
16.00	16.00	110	50	8	TM H.545XL-1600
20.00	20.00	135	65	8	TM H.545XL-2000



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



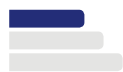
parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

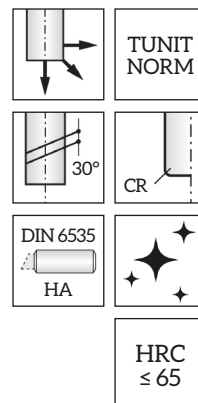
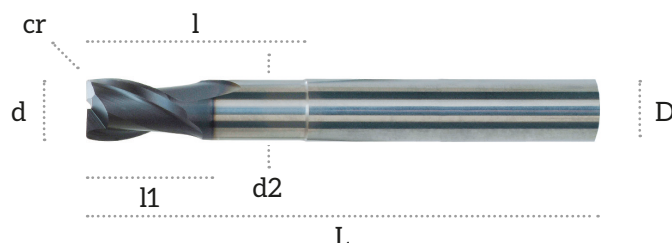




AluCroN

TM H.2 CR

Fresa torica 2 taglienti
 Torodial end mill 2 flutes
 Fraise torique 2 lèvres
 Torusfräser 2 Schneiden



d h7	D h6	d2	cr	L	l ap	l1	AluCroN
3.00	3.00	2,9	0,5	50	20	5	TM H.2CR-03R0.5
4.00	4.00	3,8	0,5	50	20	6	TM H.2CR-04R0.5
5.00	5.00	4,8	0,5	50	20	7	TM H.2CR-05R0.5
6.00	6.00	5,8	0,5	60	25	9	TM H.2CR-06R0.5
6.00	6.00	5,8	1	60	25	9	TM H.2CR-06R1.0
8.00	8.00	7,8	0,5	78	35	11	TM H.2CR-08R0.5
8.00	8.00	7,8	1	78	35	11	TM H.2CR-08R1.0
8.00	8.00	7,8	1,5	78	35	11	TM H.2CR-08R1.5
10.00	10.00	9,6	0,5	78	35	13	TM H.2CR-10R0.5
10.00	10.00	9,6	1	78	35	13	TM H.2CR-10R1.0
10.00	10.00	9,6	1,5	78	35	13	TM H.2CR-10R1.5
12.00	12.00	11,5	1	100	40	15	TM H.2CR-12R1.0
12.00	12.00	11,5	1,5	100	40	15	TM H.2CR-12R1.5
12.00	12.00	11,5	2	100	40	15	TM H.2CR-12R2.0



scheda tecnica
 technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
 cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
 Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
 On request
 Sur demande
 Auf Anfrage

Applicazioni
 Application groups
 Groupe d'emploi
 Anwendungsgruppen

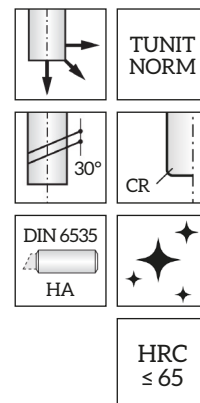
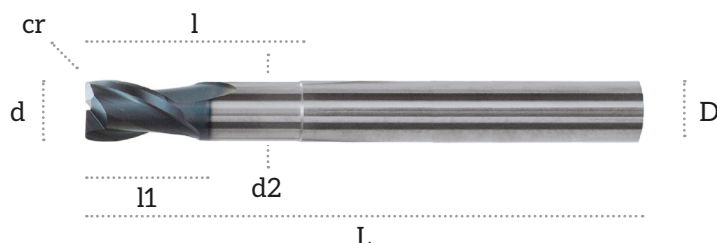




AluCroN

TM H.2 CRL

Fresa torica 2 taglienti
 Torodial end mill 2 flutes
 Fraise torique 2 lèvres
 Torusfräser 2 Schneiden



d h7	D h6	d2	cr	L	l ap	l1	AluCroN
3.00	3.00	2,9	0,5	78	25	5	TM H.2CRL-030.5
4.00	4.00	3,8	0,5	78	30	6	TM H.2CRL-040.5
5.00	5.00	4,8	0,5	78	35	7	TM H.2CRL-050.5
6.00	6.00	5,8	0,5	120	50	9	TM H.2CRL-060.5
6.00	6.00	5,8	1	120	50	9	TM H.2CRL-061.0
8.00	8.00	7,8	0,5	120	55	11	TM H.2CRL-080.5
8.00	8.00	7,8	1	120	55	11	TM H.2CRL-081.0
8.00	8.00	7,8	1,5	120	55	11	TM H.2CRL-081.5
10.00	10.00	9,6	0,5	150	65	13	TM H.2CRL-100.5
10.00	10.00	9,6	1	150	65	13	TM H.2CRL-101.0
10.00	10.00	9,6	1,5	150	65	13	TM H.2CRL-101.5
12.00	12.00	11,5	1	150	70	15	TM H.2CRL-121.0
12.00	12.00	11,5	1,5	150	70	15	TM H.2CRL-121.5
12.00	12.00	11,5	2	150	70	15	TM H.2CRL-122.0



scheda tecnica
 technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
 cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
 Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
 On request
 Sur demande
 Auf Anfrage

Applicazioni
 Application groups
 Groupe d'emploi
 Anwendungsgruppen





AluCroN

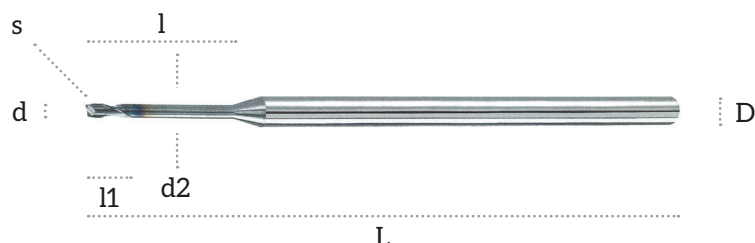
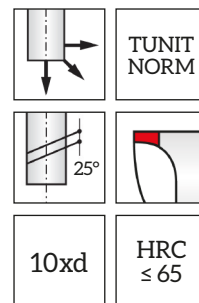
TMM H.210

Micro fresa 2 taglienti

Micro end mill 2 flutes

Micro-fraise 2 lèvres

Mikro-Fräser 2 Schneiden



d h7	D h6	d2	s	L	l ap	l1	AluCroN
0.50	3.00	0,45	-	40	5	0.60	TMM H.210-0050
0.60	3.00	0,55	-	40	6	0.72	TMM H.210-0060
0.80	3.00	0,75	-	40	8	0.96	TMM H.210-0080
1.00	3.00	0,95	0,07	50	10	1.20	TMM H.210-0100
1.20	3.00	1,10	0,07	50	12	1.44	TMM H.210-0120
1.50	3.00	1,40	0,07	60	15	1.80	TMM H.210-0150
2.00	3.00	1,90	0,10	60	20	2.40	TMM H.210-0200
2.50	3.00	2,30	0,10	60	25	3.00	TMM H.210-0250
3.00	3.00	2,80	0,10	60	30	3.60	TMM H.210-0300



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

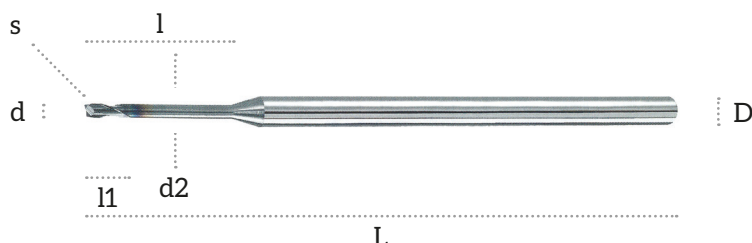
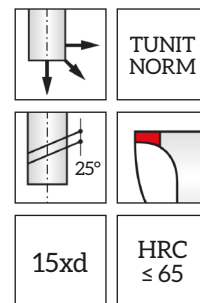




AluCroN

TMM H.215

Micro fresa 2 taglienti
Micro end mill 2 flutes
 Micro-fraise 2 lèvres
 Mikro-Fräser 2 Schneiden



d h7	D h6	d2	s	L	l ap	l1	AluCroN
1.00	3.00	0,95	0,07	60	15	1.20	TMM H.215-0100
1.20	3.00	1,10	0,07	60	18	1.44	TMM H.215-0120
1.50	3.00	1,40	0,07	70	22.5	1.80	TMM H.215-0150
2.00	3.00	1,90	0,10	70	30	2.40	TMM H.215-0200
2.50	3.00	2,30	0,10	70	37.5	3.00	TMM H.215-0250
3.00	3.00	2,80	0,10	80	45	3.60	TMM H.215-0300



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



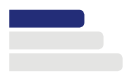
parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

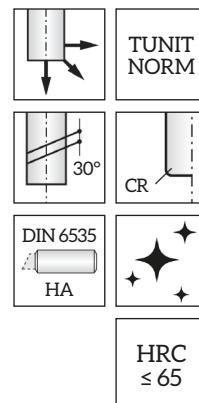
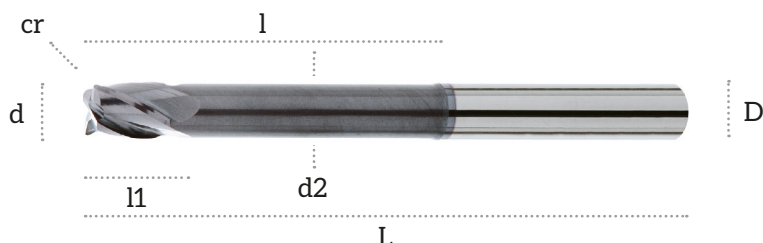




AluCroN

TM H.4 TR

Fresa torica 4 taglienti
 Torodial end mill 4 flutes
 Fraise torique 4 lèvres
 Torusfräser 4 Schneiden



d h10	D h6	d2	cr	L	l ap	l1	AluCroN
3.00	6.00	2,9	0,3	57	14	4	TM H.4TR-03R0.3
4.00	6.00	3,8	0,4	57	16	5	TM H.4TR-04R0.4
5.00	6.00	4,8	0,5	57	21	6	TM H.4TR-05R0.5
6.00	6.00	5,5	0,5	57	21	7	TM H.4TR-06R0.5
6.00	6.00	5,5	1	57	21	7	TM H.4TR-06R1.0
8.00	8.00	7,5	0,5	63	27	10	TM H.4TR-08R0.5
8.00	8.00	7,5	1	63	27	10	TM H.4TR-08R1.0
8.00	8.00	7,5	1,5	63	27	10	TM H.4TR-08R1.5
8.00	8.00	7,5	2	63	27	10	TM H.4TR-08R2.0
10.00	10.00	9,5	0,5	72	32	12	TM H.4TR-10R0.5
10.00	10.00	9,5	1	72	32	12	TM H.4TR-10R1.0
10.00	10.00	9,5	1,5	72	32	12	TM H.4TR-10R1.5
10.00	10.00	9,5	2	72	32	12	TM H.4TR-10R2.0
12.00	12.00	11,5	0,5	83	38	15	TM H.4TR-12R0.5
12.00	12.00	11,5	1	83	38	15	TM H.4TR-12R1.0
12.00	12.00	11,5	1,5	83	38	15	TM H.4TR-12R1.5
12.00	12.00	11,5	2	83	38	15	TM H.4TR-12R2.0



scheda tecnica
 technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
 cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
 Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
 On request
 Sur demande
 Auf Anfrage

Applicazioni
 Application groups
 Groupe d'emploi
 Anwendungsgruppen

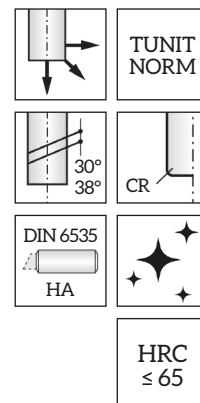
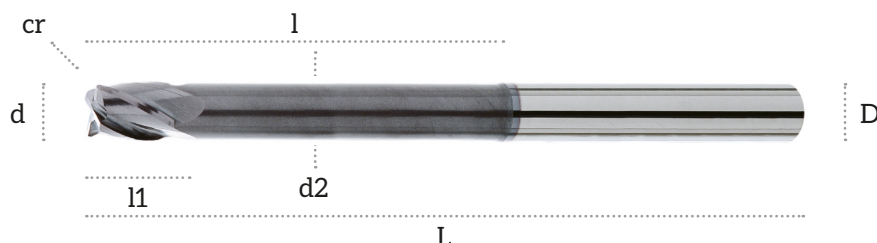




AluCroN

TM H.4 TLR

Fresa torica HPC 35°/38° 4 taglienti
 Torodial end mill HPC 35°/38° 4 flutes
 Fraise torique HPC 35°/38° 4 lèvres
 Torusfräser HPC 35°/38° 4 Schneiden



d h10	D h6	d2	cr	L	l ap	l1	AluCroN
6.00	6.00	5,5	0,5	80	45	8	TM H.4TLR-060.5
6.00	6.00	5,5	1	80	45	8	TM H.4TLR-061.0
8.00	8.00	7,5	0,5	100	60	11	TM H.4TLR-080.5
8.00	8.00	7,5	1	100	60	11	TM H.4TLR-081.0
8.00	8.00	7,5	1,5	100	60	11	TM H.4TLR-081.5
8.00	8.00	7,5	2	100	60	11	TM H.4TLR-082.0
10.00	10.00	9,5	0,5	100	60	13	TM H.4TLR-100.5
10.00	10.00	9,5	1	100	60	13	TM H.4TLR-101.0
10.00	10.00	9,5	1,5	100	60	13	TM H.4TLR-101.5
10.00	10.00	9,5	2	100	60	13	TM H.4TLR-102.0
12.00	12.00	11,5	0,5	120	75	16	TM H.4TLR-120.5
12.00	12.00	11,5	1	120	75	16	TM H.4TLR-121.0
12.00	12.00	11,5	1,5	120	75	16	TM H.4TLR-121.5
12.00	12.00	11,5	2	120	75	16	TM H.4TLR-122.0



scheda tecnica
 technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
 cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
 Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
 On request
 Sur demande
 Auf Anfrage

Applicazioni
 Application groups
 Groupe d'emploi
 Anwendungsgruppen

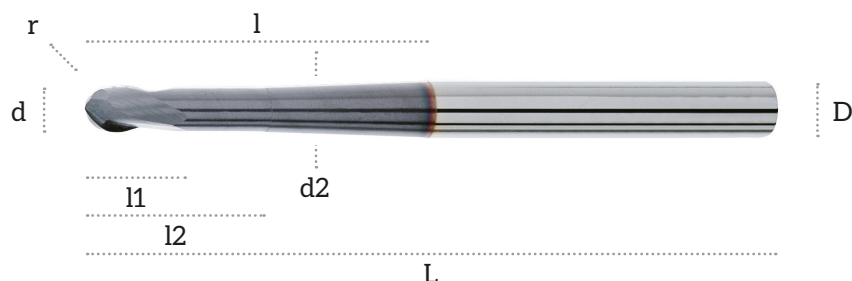
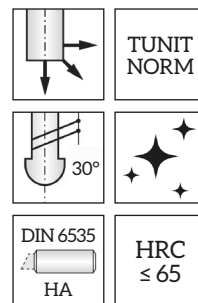




AluCroN

TM H.2 TR

Fresa sferica 2 taglienti
Ball nose end mill 2 flutes
 Fraise à bout hémisphérique 2 lèvres
 Radiusfräser 2 Schneiden



d h10	D h6	d2	r	L	l ap	l1	l2	AluCroN
4.00	6.00	3,7	2	100	40	6	16	TM H.2TR-04 R2
6.00	8.00	5,7	3	100	45	7	25	TM H.2TR-06 R3
8.00	10.00	7,7	4	120	60	8	32	TM H.2TR-08 R4
10.00	12.00	9,7	5	160	80	10	40	TM H.2TR-10 R5



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





AluCroN

TM H.2 R

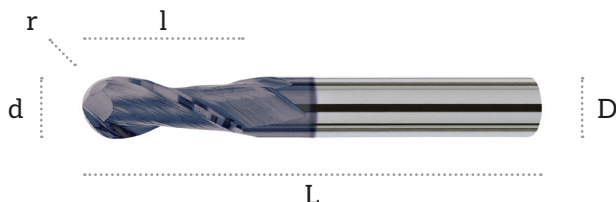
Fresa elicoidale sferica 2 taglienti

Ball nose end mill 2 flutes

Fraise hélicoïdale à bout hémisphérique 2 lèvres

Radiusfräser 2 Schneiden spiralgenutet


 TUNIT
NORM

 DIN 6535
HA


d h9	D h6	r	L	lap	AluCroN
3.00	6.00	1,5	50	5	TM H.2R-0300X
4.00	6.00	2	54	6	TM H.2R-0400X
5.00	6.00	2,5	54	8	TM H.2R-0500X
6.00	6.00	3	54	9	TM H.2R-0600X
8.00	8.00	4	58	12	TM H.2R-0800X
10.00	10.00	5	66	15	TM H.2R-1000X
12.00	12.00	6	73	18	TM H.2R-1200X
16.00	16.00	8	82	25	TM H.2R-1600X
20.00	20.00	10	92	30	TM H.2R-2000X



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





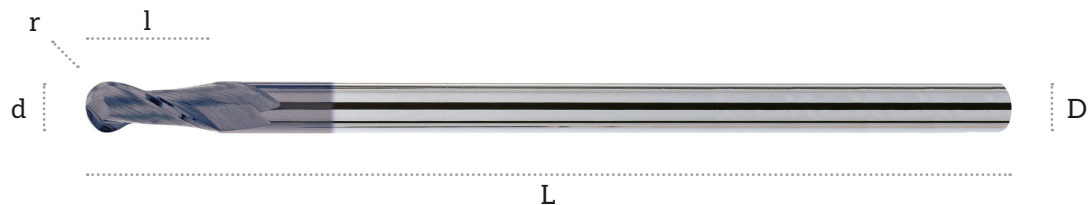
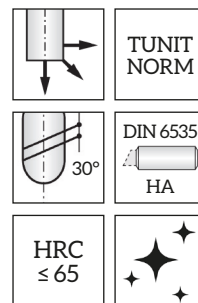
AluCroN

TM H.2 RS

Fresa elicoidale sferica 2 taglienti

Ball nose end mill 2 flutes

Fraise hélicoïdale à bout hémisphérique 2 lèvres

Radiusfräser 2 Schneiden spiralgenutet


d h9	D h6	r	L	l ap	AluCroN
6.00	6.00	3	100	15	TM H.2RS-06100X
6.00	6.00	3	150	20	TM H.2RS-06150X
8.00	8.00	4	150	20	TM H.2RS-08150X
8.00	8.00	4	200	20	TM H.2RS-08200X
10.00	10.00	5	150	25	TM H.2RS-10150X
10.00	10.00	5	200	25	TM H.2RS-10200X
12.00	12.00	6	150	25	TM H.2RS-12150X
12.00	12.00	6	200	25	TM H.2RS-12200X



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
 Sur demande
Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
Anwendungsgruppen

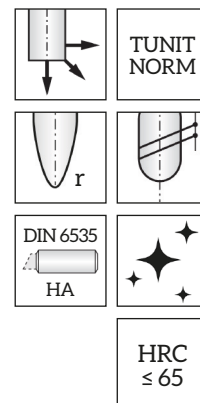
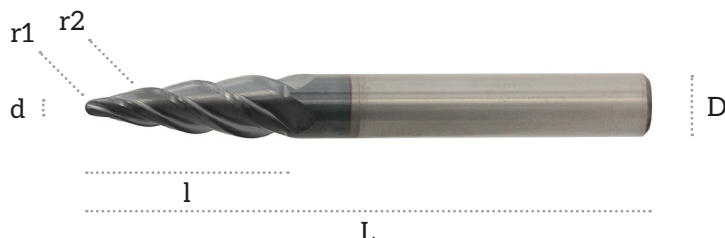




AluCroN

TM HAPCT

Fresa tangenziale a segmento curvo 4 taglienti
Barrel milling cutter tangential form 4 flutes
Fraises tonneau à forme tangentielle 4 lèbres
Bogensegmentfräser tangential Form 4 Schneiden



d h10	D h6	r1	r2	L	l ap	AluCroN
2.00	8.00	1	95	70	24	TM HAPCT-0200
4.00	10.00	2	90	82	28	TM HAPCT-0400
6.00	16.00	3	90	105	30	TM HAPCT-0600

Su richiesta
On request
Sur demande
Auf Anfrage



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





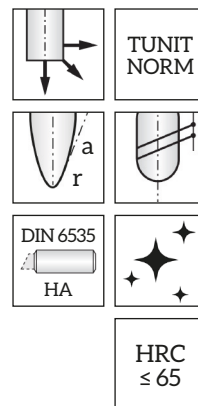
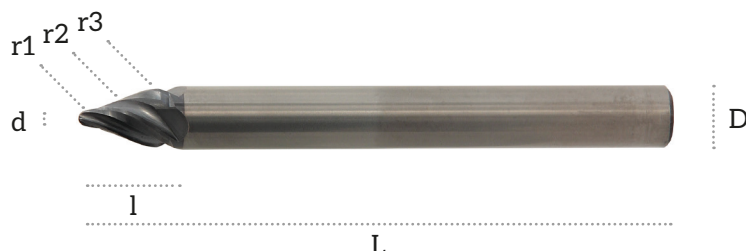
AluCroN

TM HAPCK

Fresa conica a segmento curvo 4 taglienti

Barrel milling cutter conical form 4 flutes

Fraises tonneau à forme conique 4 lèvres

Bogensegmentfräser konische Form 4 Schneiden

d h10	D h6	a	r1	r2	r3	L	l ap	AluCroN
2.00	8.00	18°	1	300	1	75	10	TM HAPCK-02-18
4.00	12.00	18°	2	450	2	100	14	TM HAPCK-04-18
6.00	16.00	18°	3	1200	3	120	18	TM HAPCK-06-18
6.00	16.00	28°	3	800	3	120	12	TM HAPCK-06-28
8.00	16.00	18°	4	1200	4	120	16	TM HAPCK-08-18
8.00	16.00	28°	4	800	4	120	11	TM HAPCK-08-28

Su richiesta
On request
Sur demande
Auf Anfrage



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen



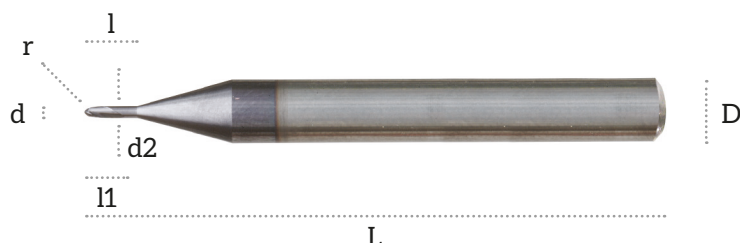


AluCroN

TM H.2 MR

Micro fresa sferica 2 taglienti
 Miniatur ball nose end mill 2 flutes
 Microfraise à bout hémisphérique 2 lèvres
 Mikroradiusfräser 2 Schneiden


 TUNIT
NORM

 HRC
≤ 65


d h9	D h6	d2	r	L	l ap	l1	AluCroN
0.60	6.00	0,55	0,3	55	3	1.20	TM H.2MR-0060X
0.80	6.00	0,75	0,4	55	4	1.20	TM H.2MR-0080X
1.00	6.00	0,95	0,5	55	5	1.50	TM H.2MR-0100X
1.20	6.00	1,15	0,6	55	5	1.60	TM H.2MR-0120X
1.50	6.00	1,44	0,75	55	5	1.80	TM H.2MR-0150X
2.00	6.00	1,92	1	55	6	2.00	TM H.2MR-0200X



scheda tecnica
 technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
 cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
 Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
 On request
 Sur demande
 Auf Anfrage

Applicazioni
 Application groups
 Groupe d'emploi
 Anwendungsgruppen





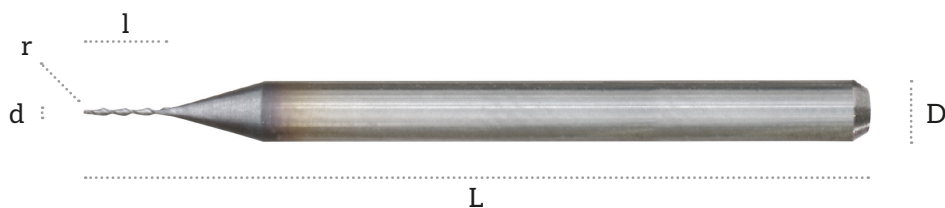
AluCroN

TM H.2 MMR

Micro fresa sferica 2 taglienti

Miniatur ball nose end mill 2 flutes

Microfraise à bout hémisphérique 2 lèvres

Mikroradiusfräser 2 SchneidenTUNIT
NORMHRC
≤ 65

d h9	D h6	r	L	l ap	AluCroN
0.40	3.00	0,2	38	1.0	TM H.2MMR-0040X
0.60	3.00	0,3	38	1.5	TM H.2MMR-0060X
0.80	3.00	0,4	38	2.0	TM H.2MMR-0080X
1.00	3.00	0,5	38	2.5	TM H.2MMR-0100X
1.50	3.00	0,75	38	4.5	TM H.2MMR-0150X



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





AluCroN

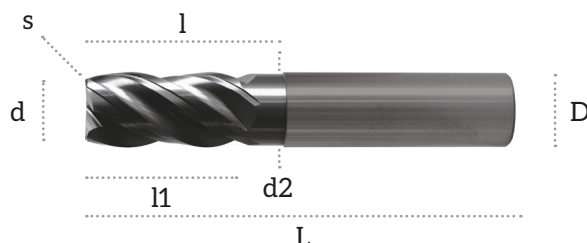
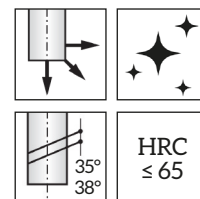
TM 4T-HPC

Fresa HPC divisione irregolare 4 taglienti

Unequal division HPC end mill 4 flutes

Fraise HPC division irrégulière 4 lèvres

VHM-Hochleistungsfräser ungleiche Teilung 4 Schneiden



d h8	D h6	d2	s	L	l ap	l1	AluCroN
3.00	6.00	2,80	0,1	57	15	8	TM 4T-HPC-0300
4.00	6.00	3,50	0,1	57	17	11	TM 4T-HPC-0400
5.00	6.00	4,50	0,2	57	19	13	TM 4T-HPC-0500
6.00	6.00	5,50	0,2	57	21	13	TM 4T-HPC-0600
8.00	8.00	7,50	0,2	63	26	19	TM 4T-HPC-0800
10.00	10.00	9,50	0,25	72	30	22	TM 4T-HPC-1000
12.00	12.00	11,50	0,3	83	37	26	TM 4T-HPC-1200
16.00	16.00	15,50	0,4	92	42	32	TM 4T-HPC-1600
20.00	20.00	19,50	0,5	104	50	38	TM 4T-HPC-2000



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





AluCroN

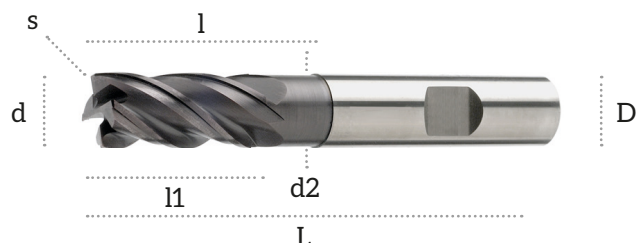
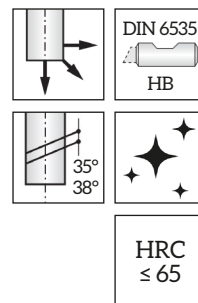
TM 4T-SHPC

Fresa SHPC divisione irregolare 4 taglienti

Unequal division SHPC end mill 4 flutes

Fraise division irrégulière SHPC 4 lèbres

VHM-Hochleistungsfräser SHPC ungleiche Teilung 4 Schneiden



d h9	D h6	d2	s	L	l ap	l1	AluCroN
3.00	6.00	2,80	0,1	57	18	8	TM 4T-SHPC-0300
4.00	6.00	3,50	0,1	57	21	11	TM 4T-SHPC-0400
5.00	6.00	4,50	0,2	57	21	13	TM 4T-SHPC-0500
6.00	6.00	5,50	0,2	57	21	13	TM 4T-SHPC-0600
8.00	8.00	7,50	0,2	63	27	19	TM 4T-SHPC-0800
10.00	10.00	9,50	0,25	72	32	22	TM 4T-SHPC-1000
12.00	12.00	11,50	0,3	83	38	26	TM 4T-SHPC-1200
16.00	16.00	15,50	0,4	92	44	32	TM 4T-SHPC-1600
20.00	20.00	19,50	0,5	104	54	38	TM 4T-SHPC-2000



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





AluCroN

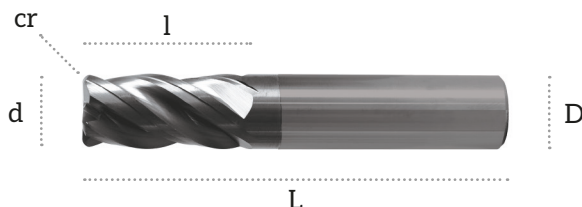
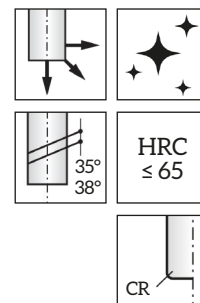
TM 4C-HPC

Fresa torica HPC divisione irregolare 4 taglienti

Unequal division HPC torodial end mill 4 flutes

Fraise torique HPC division irrégulière 4 lèbres

VHM-Torusfräser ungleiche Teilung 4 Schneiden



d h8	D h6	cr	L	lap	AluCroN
4.00	6.00	0,5	57	11	TM 4C-HPC-040.5
4.00	6.00	1	57	11	TM 4C-HPC-041.0
5.00	6.00	0,5	57	13	TM 4C-HPC-050.5
5.00	6.00	1	57	13	TM 4C-HPC-051.0
6.00	6.00	0,5	57	13	TM 4C-HPC-060.5
6.00	6.00	1	57	13	TM 4C-HPC-061.0
8.00	8.00	0,5	63	19	TM 4C-HPC-080.5
8.00	8.00	1	63	19	TM 4C-HPC-081.0
10.00	10.00	0,5	72	22	TM 4C-HPC-100.5
10.00	10.00	1	72	22	TM 4C-HPC-101.0
12.00	12.00	0,5	83	26	TM 4C-HPC-120.5
12.00	12.00	1	83	26	TM 4C-HPC-121.0
16.00	16.00	1	92	32	TM 4C-HPC-161.0
16.00	16.00	2	92	32	TM 4C-HPC-162.0
20.00	20.00	1	104	38	TM 4C-HPC-201.0
20.00	20.00	2	104	38	TM 4C-HPC-202.0



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





AluCroN

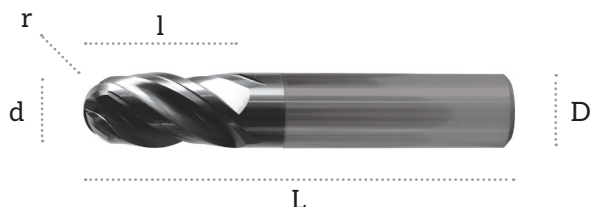
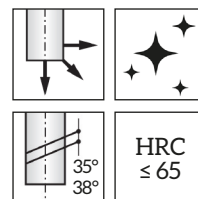
TM 4R-HPC

Fresa sferica HPC divisione irregolare 4 taglienti

Unequal division ball nose HPC end mill 4 flutes

Fraise HPC à bout hémisphérique division irrégulière 4 lèvres

VHM-Radiusfräser ungleiche Teilung 4 Schneiden



d h8	D h6	r	L	l ap	AluCroN
3.00	6.00	1,5	57	8	TM 4R-HPC-0300
4.00	6.00	2	57	10	TM 4R-HPC-0400
5.00	6.00	2,5	57	13	TM 4R-HPC-0500
6.00	6.00	3	57	13	TM 4R-HPC-0600
8.00	8.00	4	63	16	TM 4R-HPC-0800
10.00	10.00	5	72	22	TM 4R-HPC-1000
12.00	12.00	6	83	26	TM 4R-HPC-1200
16.00	16.00	8	92	32	TM 4R-HPC-1600
20.00	20.00	10	104	32	TM 4R-HPC-2000



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





AluCroN

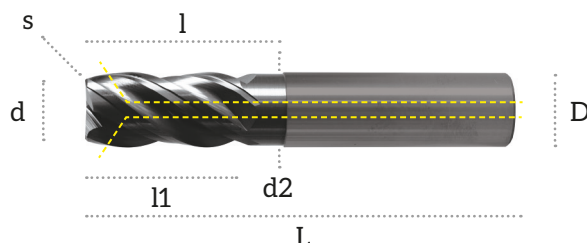
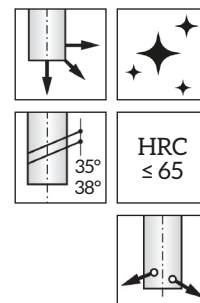
TM 4TK-HPC

Fresa HPC con fori radiali divisione irregolare 4 taglienti

Unequal division end mill with side coolant holes 4 flutes

Fraise division irrégulière avec trous d'huiles sur les goujures 4 lèvres

VHM-Hochleistungsfräser mit radial austretenden Kühlkanälen 4 Schneiden



d h8	D h6	d2	s	L	l ap	l1	AluCroN
6.00	6.00	5,50	0,2	57	21	13	TM 4TK-HPC-0600
8.00	8.00	7,50	0,2	63	26	19	TM 4TK-HPC-0800
10.00	10.00	9,50	0,25	72	30	22	TM 4TK-HPC-1000
12.00	12.00	11,50	0,3	83	37	26	TM 4TK-HPC-1200
16.00	16.00	15,50	0,4	92	42	32	TM 4TK-HPC-1600
20.00	20.00	19,50	0,5	104	50	38	TM 4TK-HPC-2000

Su richiesta

On request

Sur demande

Auf Anfrage



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





AluCroN

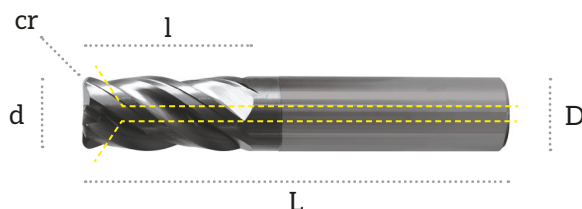
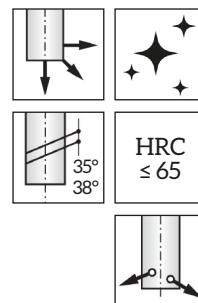
TM 4CK-HPC

Fresa torica HPC con fori radiali divisione irregolare 4 taglienti

Unequal division torodial end mill with side coolant holes 4 flutes

Fraise torique division irrégulière avec trous d'huiles sur les goujures 4 lèbres

VHM-Torusfräser ungleiche Teilung mit radial austretenden Kühlkanälen 4 Schneiden



d h8	D h6	cr	L	l ap	AluCroN
6.00	6.00	0,5	57	13	TM 4CKHPC-060.5
6.00	6.00	1	57	13	TM 4CKHPC-061.0
8.00	8.00	0,5	63	19	TM 4CKHPC-080.5
8.00	8.00	1	63	19	TM 4CKHPC-081.0
10.00	10.00	0,5	72	22	TM 4CKHPC-100.5
10.00	10.00	1	72	22	TM 4CKHPC-101.0
12.00	12.00	0,5	83	26	TM 4CKHPC-120.5
12.00	12.00	1	83	26	TM 4CKHPC-121.0
16.00	16.00	1	92	32	TM 4CKHPC-161.0
16.00	16.00	2	92	32	TM 4CKHPC-162.0
20.00	20.00	1	104	38	TM 4CKHPC-201.0
20.00	20.00	2	104	38	TM 4CKHPC-202.0

Su richiesta

On request

Sur demande

Auf Anfrage



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





AluCroN-Pro

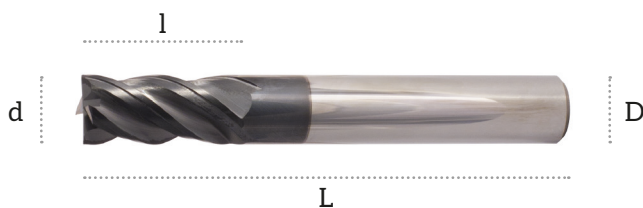
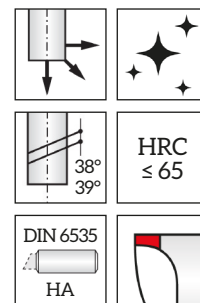
TM TI 4

Fresa HPC divisione irregolare 4 taglienti

Unequal division end mill 4 flutes

Fraise division irrégulière 4 lèbres

VHM-Hochleistungsfräser ungleiche Teilung 4 Schneiden



d h10	D h6	L	l ap	AluCroN-Pro
3.00	6.00	57	8	TM TI4-0300
4.00	6.00	57	11	TM TI4-0400
5.00	6.00	57	13	TM TI4-0500
6.00	6.00	57	13	TM TI4-0600
8.00	8.00	63	19	TM TI4-0800
10.00	10.00	72	22	TM TI4-1000
12.00	12.00	83	26	TM TI4-1200
16.00	16.00	92	32	TM TI4-1600
20.00	20.00	104	38	TM TI4-2000



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usage
 Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





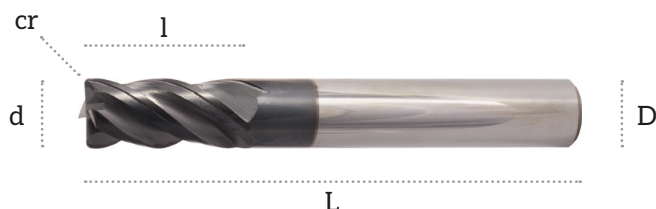
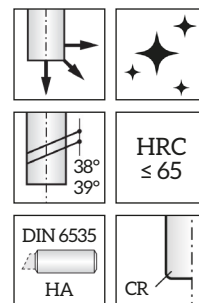
AluCroN-Pro

TM TI 4 CR

Fresa torica HPC divisione irregolare 4 taglienti

Unequal division torodial end mill 4 flutes

Fraise HPC à bout hémisphérique division irrégulière 4 lèvres

VHM-Radiusfräser ungleiche Teilung 4 Schneiden

d h10	D h6	cr	L	l ap	AluCroN-Pro
6.00	6.00	0,25	57	13	TM TI4CR-060.25
6.00	6.00	0,5	57	13	TM TI4CR-060.50
6.00	6.00	1,5	57	13	TM TI4CR-061.50
6.00	6.00	2,5	57	13	TM TI4CR-062.50
8.00	8.00	0,5	63	19	TM TI4CR-080.50
8.00	8.00	0,8	63	19	TM TI4CR-080.80
8.00	8.00	1,5	63	19	TM TI4CR-081.50
8.00	8.00	2,5	63	19	TM TI4CR-082.50
10.00	10.00	0,5	72	22	TM TI4CR-100.50
10.00	10.00	0,8	72	22	TM TI4CR-100.80
10.00	10.00	1,5	72	22	TM TI4CR-101.50
10.00	10.00	2	72	22	TM TI4CR-102.00
10.00	10.00	2,5	72	22	TM TI4CR-102.50
10.00	10.00	3	72	22	TM TI4CR-103.00
10.00	10.00	4	72	22	TM TI4CR-104.00
12.00	12.00	0,5	83	26	TM TI4CR-120.50
12.00	12.00	0,8	83	26	TM TI4CR-120.80
12.00	12.00	1,5	83	26	TM TI4CR-121.50
12.00	12.00	2	83	26	TM TI4CR-122.00
12.00	12.00	2,5	83	26	TM TI4CR-122.50

d h10	D h6	cr	L	l ap	AluCroN-Pro
12.00	12.00	3	83	26	TM TI4CR-123.00
12.00	12.00	3,5	83	26	TM TI4CR-123.50
12.00	12.00	4	83	26	TM TI4CR-124.00
16.00	16.00	0,5	92	32	TM TI4CR-160.50
16.00	16.00	0,8	92	32	TM TI4CR-160.80
16.00	16.00	2	92	32	TM TI4CR-162.00
16.00	16.00	2,5	92	32	TM TI4CR-162.50
16.00	16.00	3	92	32	TM TI4CR-163.00
16.00	16.00	3,5	92	32	TM TI4CR-163.50
16.00	16.00	4	92	32	TM TI4CR-164.00
16.00	16.00	5	92	32	TM TI4CR-165.00
20.00	20.00	0,5	104	38	TM TI4CR-200.50
20.00	20.00	0,8	104	38	TM TI4CR-200.80
20.00	20.00	2	104	38	TM TI4CR-202.00
20.00	20.00	2,5	104	38	TM TI4CR-202.50
20.00	20.00	3	104	38	TM TI4CR-203.00
20.00	20.00	3,5	104	38	TM TI4CR-203.50
20.00	20.00	4	104	38	TM TI4CR-204.00
20.00	20.00	5	104	38	TM TI4CR-205.00



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen



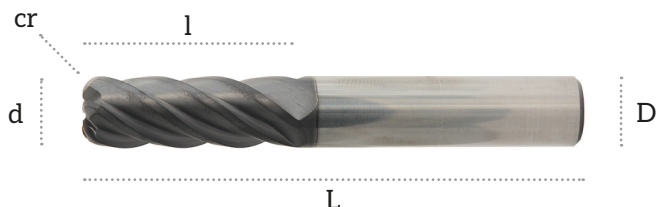
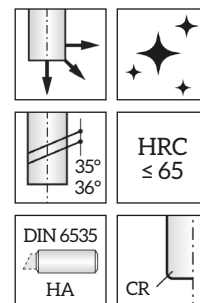


AluCroN-Pro

TM TI 5 CR

Fresa torica HPC divisione irregolare 5 taglienti
Unequal division torodial end mill 5 flutes

Fraise HPC à bout hémisphérique division irrégulière 5 lèvres
VHM-Radiusfräser ungleiche Teilung 5 Schneiden



d h10	D h6	cr	L	lap	AluCroN-Pro
12.00	12.00	0,5	83	32	TM TI5CR-12R0.5
12.00	12.00	1	83	32	TM TI5CR-12R1.0
12.00	12.00	1,5	83	32	TM TI5CR-12R1.5
12.00	12.00	2	83	32	TM TI5CR-12R2.0
12.00	12.00	2,5	83	32	TM TI5CR-12R2.5
12.00	12.00	3	83	32	TM TI5CR-12R3.0
12.00	12.00	4	83	32	TM TI5CR-12R4.0
16.00	16.00	0,5	92	50	TM TI5CR-16R0.5
16.00	16.00	1	92	50	TM TI5CR-16R1.0
16.00	16.00	1,5	92	50	TM TI5CR-16R1.5
16.00	16.00	2	92	50	TM TI5CR-16R2.0
16.00	16.00	2,5	92	50	TM TI5CR-16R2.5
16.00	16.00	3	92	50	TM TI5CR-16R3.0
16.00	16.00	3,5	92	50	TM TI5CR-16R3.5
16.00	16.00	4	92	50	TM TI5CR-16R4.0
16.00	16.00	5	92	50	TM TI5CR-16R5.0
20.00	20.00	0,5	104	52	TM TI5CR-20R0.5
20.00	20.00	1	104	52	TM TI5CR-20R1.0
20.00	20.00	2	104	52	TM TI5CR-20R2.0
20.00	20.00	2,5	104	52	TM TI5CR-20R2.5
20.00	20.00	3	104	52	TM TI5CR-20R3.0
20.00	20.00	4	104	52	TM TI5CR-20R4.0
20.00	20.00	5	104	52	TM TI5CR-20R5.0



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usage
Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
 Sur demande
Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
Anwendungsgruppen





AluCroN-Pro

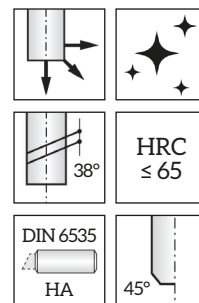
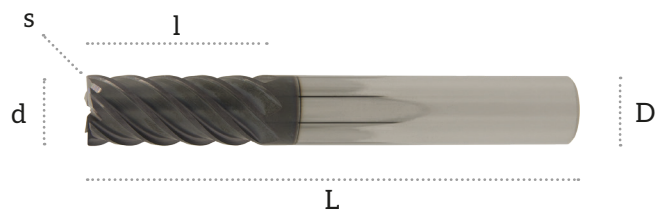
TM TI 6

Fresa HPC divisione irregolare

Unequal division end mill

Fraise division irrégulière

VHM-Hochleistungsfräser ungleiche Teilung



d h10	D h6	s	L	l ap	Z	AluCroN-Pro
6.00	6.00	0,15	57	13	6	TM TI6-0600
8.00	8.00	0,15	63	19	6	TM TI6-0800
10.00	10.00	0,20	72	22	6	TM TI6-1000
12.00	12.00	0,20	83	26	6	TM TI6-1200
16.00	16.00	0,20	92	32	8	TM TI6-1600
20.00	20.00	0,20	104	38	10	TM TI6-2000



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen



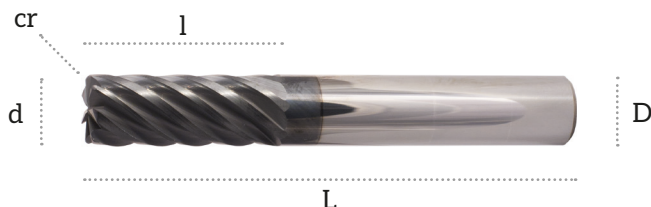
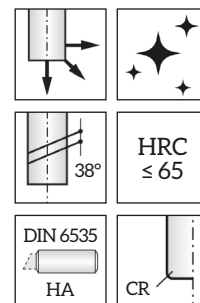


AluCroN-Pro

TM TI 7 CR

Fresa torica HPC divisione irregolare 7 taglienti
Unequal division torodial end mill 7 flutes

Fraise HPC à bout hémisphérique division irrégulière 7 lèvres
VHM-Radiusfräser ungleiche Teilung 7 Schneiden



d h10	D h6	cr	L	lap	AluCroN-Pro
12.00	12.00	0,5	83	32	TM TI7CR-12R0.5
12.00	12.00	1	83	32	TM TI7CR-12R1.0
12.00	12.00	2	83	32	TM TI7CR-12R2.0
12.00	12.00	2,5	83	32	TM TI7CR-12R2.5
12.00	12.00	3	83	32	TM TI7CR-12R3.0
12.00	12.00	4	83	32	TM TI7CR-12R4.0
16.00	16.00	0,5	92	50	TM TI7CR-16R0.5
16.00	16.00	1	92	50	TM TI7CR-16R1.0
16.00	16.00	2	92	50	TM TI7CR-16R2.0
16.00	16.00	2,5	92	50	TM TI7CR-16R2.5
16.00	16.00	3	92	50	TM TI7CR-16R3.0
16.00	16.00	3,5	92	50	TM TI7CR-16R3.5
16.00	16.00	4	92	50	TM TI7CR-16R4.0
16.00	16.00	5	92	50	TM TI7CR-16R5.0
20.00	20.00	1	104	52	TM TI7CR-20R1.0
20.00	20.00	2	104	52	TM TI7CR-20R2.0
20.00	20.00	2,5	104	52	TM TI7CR-20R2.5
20.00	20.00	3	104	52	TM TI7CR-20R3.0
20.00	20.00	4	104	52	TM TI7CR-20R4.0
20.00	20.00	5	104	52	TM TI7CR-20R5.0



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usage
Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
 Sur demande
Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
Anwendungsgruppen





AluCroN

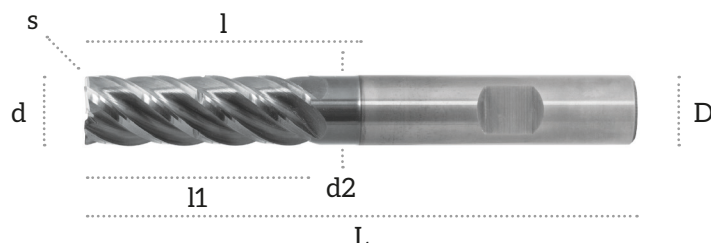
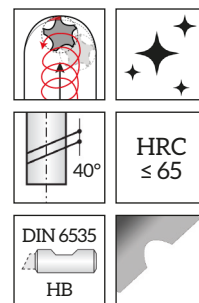
TM HTPC-ST

Fresa HPC trocoidale divisione irregolare 5 taglienti

Unequal division HPC end mill trochoidal 5 flutes

Fraise HPC division irrégulière trochoïdal 5 lèvres

Trochoidal Fräser ungleiche Teilung 5 Schneiden



d h9	D h6	d2	s	L	l ap	l1	AluCroN
6.00	6.00	5,80	0,1	62	25	18	TM HTPC-ST-0600
8.00	8.00	7,80	0,15	68	30	24	TM HTPC-ST-0800
10.00	10.00	9,80	0,2	80	35	30	TM HTPC-ST-1000
12.00	12.00	11,80	0,2	93	45	36	TM HTPC-ST-1200
16.00	16.00	15,80	0,3	108	55	48	TM HTPC-ST-1600
20.00	20.00	19,80	0,4	126	70	60	TM HTPC-ST-2000



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





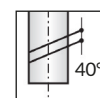
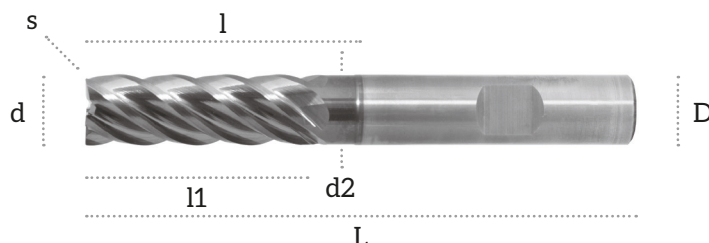
AluCroN

TM HTPC-TI

Fresa HPC trocoidale divisione irregolare 5 taglienti

Unequal division HPC end mill trochoidal 5 flutes

Fraise HPC division irrégulière trochoïdal 5 lèvres

Trochoidal Fräser ungleiche Teilung 5 Schneiden

 HRC
 ≤ 65


d h9	D h6	d2	s	L	l _{ap}	l ₁	AluCroN
6.00	6.00	5,80	0,1	62	25	18	TM HTPC-TI-0600
8.00	8.00	7,80	0,15	68	30	24	TM HTPC-TI-0800
10.00	10.00	9,80	0,2	80	35	30	TM HTPC-TI-1000
12.00	12.00	11,80	0,2	93	45	36	TM HTPC-TI-1200
16.00	16.00	15,80	0,3	108	55	48	TM HTPC-TI-1600
20.00	20.00	19,80	0,4	126	70	60	TM HTPC-TI-2000


 scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

 parametri di lavoro
cutting data
 paramètres d'usage
 Schnittdaten

 Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

 Su richiesta
On request
 Sur demande
 Auf Anfrage

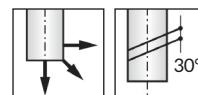
 Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen



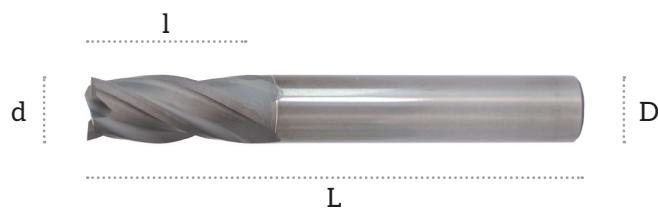

Diamond

TM HGD

Fresa per grafite
Square end mill to machine graphite
Fraise pour graphite
Schaftfräser für Graphit



DIN 6535
HA



d h7	D h6	L	l ap	Z	Diamond
1.00	1.00	38	3	2	TM HGD-0100
1.50	1.50	38	4	2	TM HGD-0150
2.00	2.00	40	7	2	TM HGD-0200
3.00	3.00	40	10	3	TM HGD-0300
4.00	4.00	40	11	3	TM HGD-0400
5.00	5.00	50	13	3	TM HGD-0500
6.00	6.00	50	16	3	TM HGD-0600
8.00	8.00	63	20	3	TM HGD-0800
10.00	10.00	72	22	4	TM HGD-1000
12.00	12.00	83	26	4	TM HGD-1200

Su richiesta
On request
Sur demande
Auf Anfrage



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

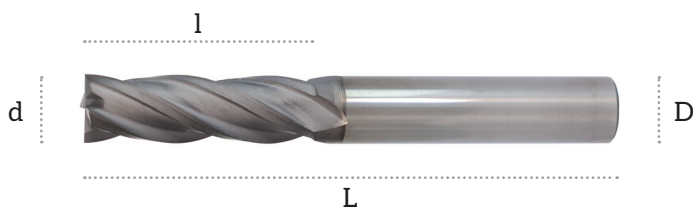
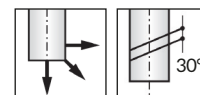




Diamond

TM HGDL

Fresa per grafite
End mill to machine graphite
Fraise pour graphite
Schaftfräser für Graphit



d h7	D h6	L	l ap	Z	Diamond
3.00	3.00	55	20	3	TM HGDL-0300
4.00	4.00	60	20	3	TM HGDL-0400
5.00	5.00	60	20	3	TM HGDL-0500
6.00	6.00	65	25	3	TM HGDL-0600
8.00	8.00	80	32	3	TM HGDL-0800
10.00	10.00	80	32	4	TM HGDL-1000
12.00	12.00	100	50	4	TM HGDL-1200

Su richiesta
On request
Sur demande
Auf Anfrage



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

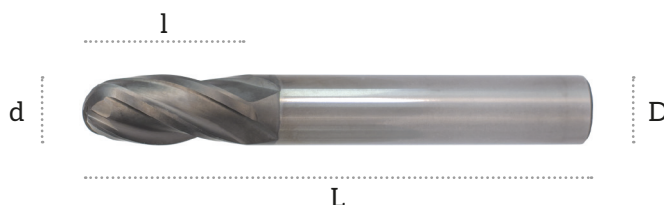
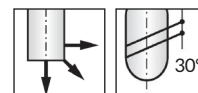




Diamond

TM HGDR

Fresa sferica per grafite
Ball nose end mill to machine graphite
 Fraise pour graphite
 Radiusfräser für Graphit



d h7	D h6	L	l ap	Z	Diamond
1.00	1.00	38	3	2	TM HGDR-0100
1.50	1.50	38	4	2	TM HGDR-0150
2.00	2.00	40	7	2	TM HGDR-0200
3.00	3.00	40	10	3	TM HGDR-0300
4.00	4.00	40	11	3	TM HGDR-0400
5.00	5.00	50	13	3	TM HGDR-0500
6.00	6.00	50	16	3	TM HGDR-0600
8.00	8.00	63	20	3	TM HGDR-0800
10.00	10.00	72	22	4	TM HGDR-1000
12.00	12.00	83	26	4	TM HGDR-1200

Su richiesta
On request
 Sur demande
 Auf Anfrage



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

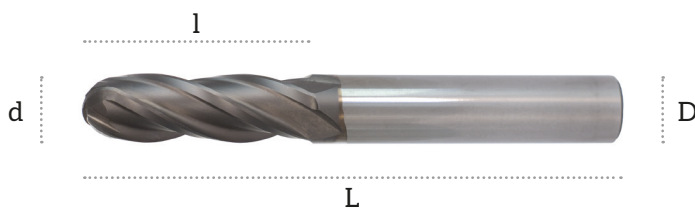
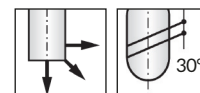




Diamond

TM HGDRL

Fresa sferica per grafite
Ball nose end mill to machine graphite
 Fraise pour graphite
 Radiusfräser für Graphit



d h7	D h6	L	l ap	Z	Diamond
3.00	3.00	55	20	3	TM HGDRL-0300
4.00	4.00	60	20	3	TM HGDRL-0400
5.00	5.00	60	20	3	TM HGDRL-0500
6.00	6.00	65	25	3	TM HGDRL-0600
8.00	8.00	80	32	3	TM HGDRL-0800
10.00	10.00	80	32	4	TM HGDRL-1000
12.00	12.00	100	50	4	TM HGDRL-1200

Su richiesta
On request
 Sur demande
 Auf Anfrage



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

L



ZrN

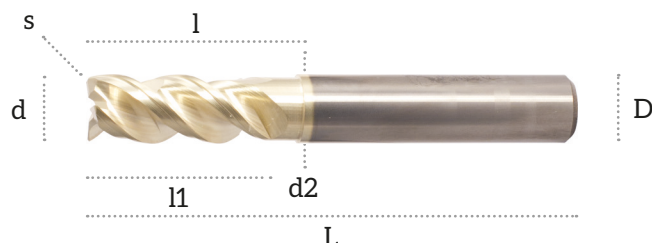
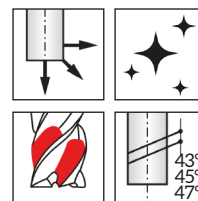
TM 3T-HPC Alu

Fresa HPC divisione irregolare 3 taglienti

Unequal division HPC end mill 3 flutes

Fraise HPC division irrégulière 3 lèbres

VHM-Hochleistungsfräser ungleiche Teilung 3 Schneiden



d h10	D h5	d2	s	L	l ap	l1	ZrN
6.00	6.00	5,5	0,2	57	21	13	TM 3T-HPC-0600
8.00	8.00	7,4	0,2	63	26	19	TM 3T-HPC-0800
10.00	10.00	9,2	0,25	72	30	22	TM 3T-HPC-1000
12.00	12.00	11	0,3	83	37	26	TM 3T-HPC-1200
16.00	16.00	15	0,4	92	42	32	TM 3T-HPC-1600
20.00	20.00	19	0,45	104	50	38	TM 3T-HPC-2000



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





ZrN

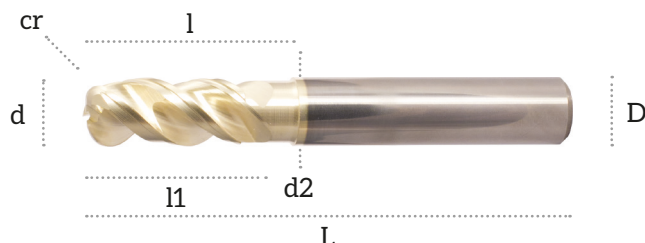
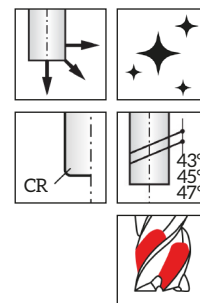
TM 3C-HPC Alu

Fresa torica HPC divisione irregolare 3 taglienti

Unequal division HPC torodial end mill 3 flutes

Fraise torique HPC division irrégulière 3 lèbres

VHM-Torusfräser ungleiche Teilung 3 Schneiden



d h10	D h5	d2	cr	L	l ap	l1	ZrN
6.00	6.00	5,5	0,5	57	21	13	TM 3C-HPC-060.5
6.00	6.00	5,5	1	57	21	13	TM 3C-HPC-061.0
6.00	6.00	5,5	1,5	57	21	13	TM 3C-HPC-061.5
8.00	8.00	7,4	1	63	26	19	TM 3C-HPC-081.0
8.00	8.00	7,4	1,5	63	26	19	TM 3C-HPC-081.5
8.00	8.00	7,4	2	63	26	19	TM 3C-HPC-082.0
8.00	8.00	7,4	2,5	63	26	19	TM 3C-HPC-082.5
8.00	8.00	7,4	3	63	26	19	TM 3C-HPC-083.0
10.00	10.00	9,2	1	70	30	22	TM 3C-HPC-101.0
10.00	10.00	9,2	1,5	70	30	22	TM 3C-HPC-101.5
10.00	10.00	9,2	2	70	30	22	TM 3C-HPC-102.0
10.00	10.00	9,2	2,5	72	30	22	TM 3C-HPC-102.5
10.00	10.00	9,2	3	72	30	22	TM 3C-HPC-103.0
10.00	10.00	9,2	4	72	30	22	TM 3C-HPC-104.0
12.00	12.00	11	1	83	37	26	TM 3C-HPC-121.0
12.00	12.00	11	1,5	83	37	26	TM 3C-HPC-121.5
12.00	12.00	11	2	83	37	26	TM 3C-HPC-122.0
12.00	12.00	11	2,5	83	37	26	TM 3C-HPC-122.5
12.00	12.00	11	3	83	37	26	TM 3C-HPC-123.0
12.00	12.00	11	4	83	37	26	TM 3C-HPC-124.0
16.00	16.00	15	2	92	42	32	TM 3C-HPC-162.0
16.00	16.00	15	2,5	92	42	32	TM 3C-HPC-162.5
16.00	16.00	15	3	92	42	32	TM 3C-HPC-163.0
16.00	16.00	15	4	92	42	32	TM 3C-HPC-164.0
16.00	16.00	15	5	92	42	32	TM 3C-HPC-165.0
20.00	20.00	19	2,5	104	50	38	TM 3C-HPC-202.5
20.00	20.00	19	3	104	50	38	TM 3C-HPC-203.0
20.00	20.00	19	4	104	50	38	TM 3C-HPC-204.0
20.00	20.00	19	5	104	50	38	TM 3C-HPC-205.0



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





ZrN

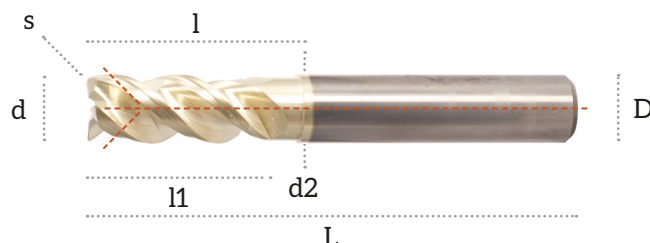
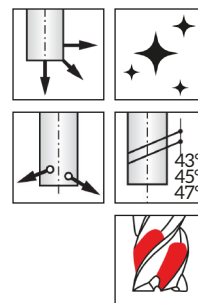
TM 3TK-HPC Alu

Fresa HPC con fori radiali divisione irregolare 3 taglienti

Unequal division end mill with side coolant holes 3 flutes

Fraise division irrégulière avec trous d'huiles sur les goujures 3 lèvres

VHM-Hochleistungsfräser mit radial austretenden Kühlkanälen 3 Schneiden



d h10	D h5	d2	s	L	l ap	l1	ZrN
6.00	6.00	5,5	0,2	57	21	13	TM 3TK-HPC-0600
8.00	8.00	7,4	0,2	63	26	19	TM 3TK-HPC-0800
10.00	10.00	9,2	0,25	72	30	22	TM 3TK-HPC-1000
12.00	12.00	11	0,3	83	37	26	TM 3TK-HPC-1200
16.00	16.00	15	0,4	92	42	32	TM 3TK-HPC-1600
20.00	20.00	19	0,45	104	50	38	TM 3TK-HPC-2000



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





ZrN

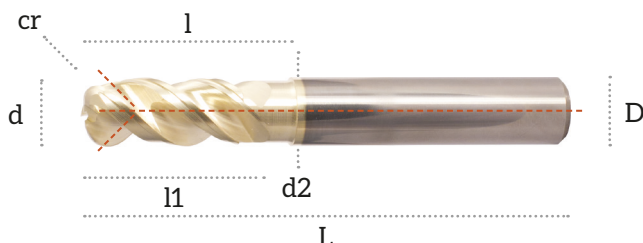
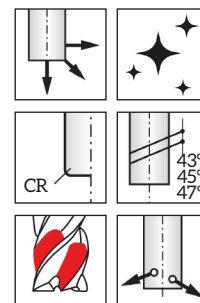
TM 3CK-HPC Alu

Fresa torica HPC con fori radiali divisione irregolare 3 taglienti

Unequal division torodial end mill with side coolant holes 3 flutes

Fraise torique division irrégulière avec trous d'huiles sur les goujures 3 lèbres

VHM-Torusfräser ungleiche Teilung mit radial austretenden Kühlkanälen 3 Schneiden



d h10	D h5	d2	cr	L	l ap	l1	ZrN
6.00	6.00	5,5	0,5	57	21	13	TM 3CKHPC-060.5
6.00	6.00	5,5	1	57	21	13	TM 3CKHPC-061.0
8.00	8.00	7,4	2	63	26	19	TM 3CKHPC-082.0
8.00	8.00	7,4	3	63	26	19	TM 3CKHPC-083.0
10.00	10.00	9,2	2	70	30	22	TM 3CKHPC-102.0
10.00	10.00	9,2	3	72	30	22	TM 3CKHPC-103.0
10.00	10.00	9,2	4	72	30	22	TM 3CKHPC-104.0
12.00	12.00	11	2	83	37	26	TM 3CKHPC-122.0
12.00	12.00	11	3	83	37	26	TM 3CKHPC-123.0
12.00	12.00	11	4	83	37	26	TM 3CKHPC-124.0
16.00	16.00	15	3	92	42	32	TM 3CKHPC-163.0
16.00	16.00	15	4	92	42	32	TM 3CKHPC-164.0
16.00	16.00	15	5	92	42	32	TM 3CKHPC-165.0
20.00	20.00	19	3	104	50	38	TM 3CKHPC-203.0
20.00	20.00	19	5	104	50	38	TM 3CKHPC-205.0



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

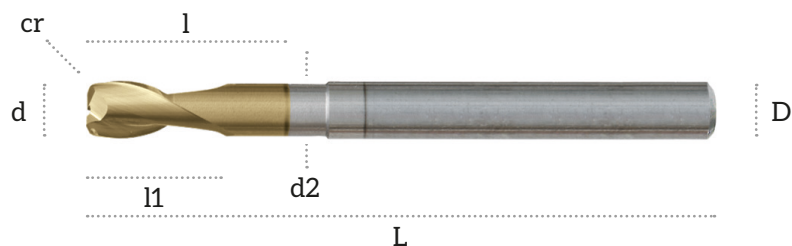
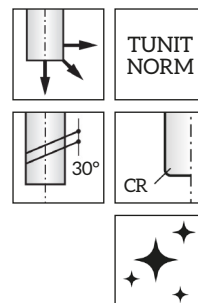




ZrN

TM H.24 Alu

Fresa torica 2 taglienti
Torodial end mill 2 flutes
 Fraise torique 2 lèvres
 Torusfräser 2 Schneiden



d e8	D h6	d2	cr	L	l ap	l1	ZrN
3.00	4.00	2,70	0,3	60	20	5	TM H.24-03 R0.3
4.00	4.00	3,70	0,4	60	20	5	TM H.24-04 R0.4
5.00	5.00	4,60	0,5	60	20	6	TM H.24-05 R0.5
6.00	6.00	5,50	0,3	65	25	7	TM H.24-06 R0.3
6.00	6.00	5,50	1	65	25	7	TM H.24-06 R1.0
8.00	8.00	7,40	0,3	70	30	9	TM H.24-08 R0.3
8.00	8.00	7,40	1	70	30	9	TM H.24-08 R1.0
10.00	10.00	9,20	0,3	85	40	11	TM H.24-10 R0.3
10.00	10.00	9,20	1,5	85	40	11	TM H.24-10 R1.5
12.00	12.00	11,00	1,5	93	45	12	TM H.24-12 R1.5



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





ZrN

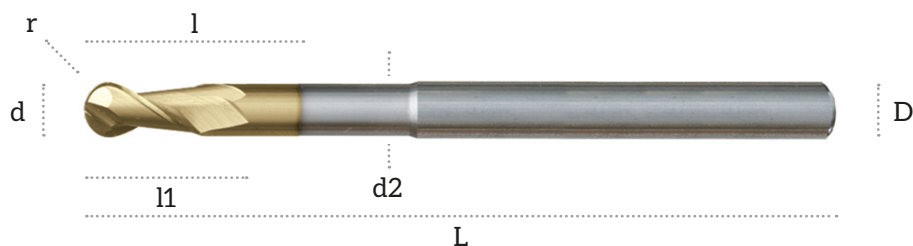
TM H.24 R Alu

Fresa sferica 2 taglienti

Ball nose end mill 2 flutes

Fraise à bout hémisphérique 2 lèvres

Radiusfräser 2 Schneiden



d e8	D h6	d2	r	L	l ap	l1	ZrN
3.00	6.00	2,80	1,5	70	25	6	TM H.24R-0300
4.00	6.00	3,70	2	70	25	8	TM H.24R-0400
5.00	6.00	4,60	2,5	70	25	10	TM H.24R-0500
6.00	6.00	5,50	3	80	35	12	TM H.24R-0600
8.00	8.00	7,40	4	80	35	16	TM H.24R-0800
10.00	10.00	9,20	5	90	45	20	TM H.24R-1000
12.00	12.00	11,00	6	100	50	24	TM H.24R-1200



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

ZrN

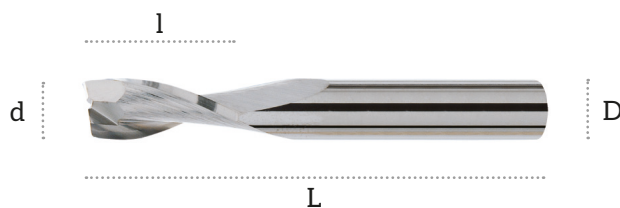
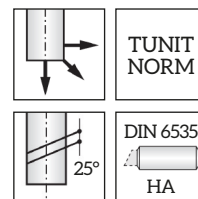
TM 3.24

Fresa elicoidale 2 taglienti ad alta frequenza per alluminio

High Speed rate twist end mill 2 flutes especially designed for milling aluminium

Fraise hélicoïdale à haute vitesse de coupe 2 lèvres pour le fraisage de l'aluminium

High Speed-Fräser 2 Schneiden Speziell geeignet für das Fräsen von Aluminium



d h9	D h6	L	lap	uncoated	ZrN
2.00	2.00	38	10	TM 3.24-0200	TM 3.24-0200Z
3.00	3.00	38	12	TM 3.24-0300	TM 3.24-0300Z
4.00	4.00	40	12	TM 3.24-0400	TM 3.24-0400Z
5.00	5.00	50	15	TM 3.24-0500	TM 3.24-0500Z
6.00	6.00	60	18	TM 3.24-0600	TM 3.24-0600Z
8.00	8.00	60	18	TM 3.24-0800	TM 3.24-0800Z
10.00	10.00	70	22	TM 3.24-1000	TM 3.24-1000Z
12.00	12.00	70	22	TM 3.24-1200	TM 3.24-1200Z
16.00	16.00	80	25	TM 3.24-1600	TM 3.24-1600Z
20.00	20.00	100	35	TM 3.24-2000	TM 3.24-2000Z



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Rivestimenti | esecuzione speciale | diametri intermedi
Coating | out of range | other sizes
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

H



uncoated

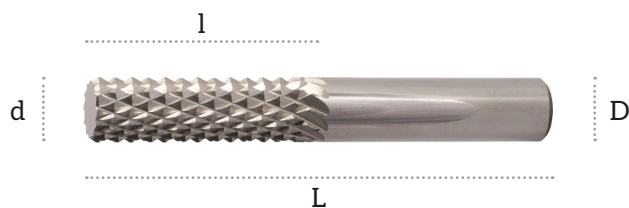
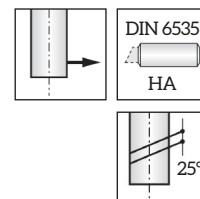
AluCroN

TMS 200

Fresa per contornatura

Countouring cutter

Fraise pour des opérations de contournage

Konturenfräser


d h10	D h6	L	l ap	uncoated	AluCroN
3.00	3.00	40	10	TMS 200-0300	TMS 200-0300ACN
4.00	4.00	40	15	TMS 200-0400	TMS 200-0400ACN
5.00	5.00	50	16	TMS 200-0500	TMS 200-0500ACN
6.00	6.00	50	18	TMS 200-0600	TMS 200-0600ACN
6.35	6.35	60	20	TMS 200-0635	TMS 200-0635ACN
8.00	8.00	63	25	TMS 200-0800	TMS 200-0800ACN
10.00	10.00	72	30	TMS 200-1000	TMS 200-1000ACN
12.00	12.00	83	32	TMS 200-1200	TMS 200-1200ACN



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
 Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
 Sur demande
Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
Anwendungsgruppen





uncoated

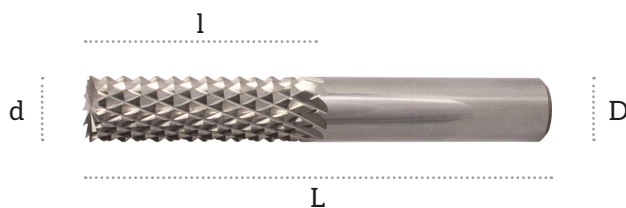
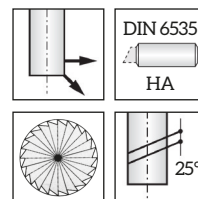
AluCroN

TMS 200 M1

Fresa per contornatura testa multitaglienti

Countouring cutter with multicut front

Fraise pour des opérations de contournage avec multi-coupe frontale

Konturenfräser mit Mehrschneider

d h10	D h6	L	l ap	uncoated	AluCroN
3.00	3.00	40	10	TMS 200 M1-0300	TMS 200 M1-0300ACN
4.00	4.00	40	15	TMS 200 M1-0400	TMS 200 M1-0400ACN
5.00	5.00	50	16	TMS 200 M1-0500	TMS 200 M1-0500ACN
6.00	6.00	50	18	TMS 200 M1-0600	TMS 200 M1-0600ACN
6.35	6.35	60	20	TMS 200 M1-0635	TMS 200 M1-0635ACN
8.00	8.00	63	25	TMS 200 M1-0800	TMS 200 M1-0800ACN
10.00	10.00	72	30	TMS 200 M1-1000	TMS 200 M1-1000ACN
12.00	12.00	83	32	TMS 200 M1-1200	TMS 200 M1-1200ACN



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





uncoated

AluCroN

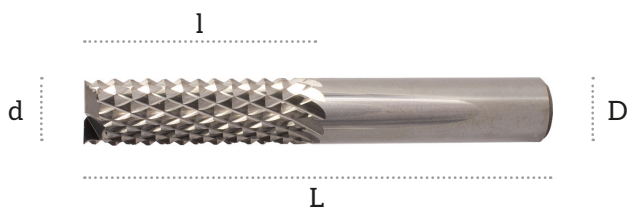
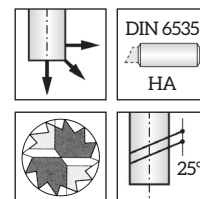
TMS 200 M2

Fresa per contornatura con affilatura frontale

Countouring cutter with front cut

Fraise pour des opérations de contournage avec coupe frontale

Konturenfräser mit Stirnschnitt



d h10	D h6	L	l ap	uncoated	AluCroN
3.00	3.00	40	10	TMS 200 M2-0300	TMS 200 M2-0300ACN
4.00	4.00	40	15	TMS 200 M2-0400	TMS 200 M2-0400ACN
5.00	5.00	50	16	TMS 200 M2-0500	TMS 200 M2-0500ACN
6.00	6.00	50	18	TMS 200 M2-0600	TMS 200 M2-0600ACN
6.35	6.35	60	20	TMS 200 M2-0635	TMS 200 M2-0635ACN
8.00	8.00	63	25	TMS 200 M2-0800	TMS 200 M2-0800ACN
10.00	10.00	72	30	TMS 200 M2-1000	TMS 200 M2-1000ACN
12.00	12.00	83	32	TMS 200 M2-1200	TMS 200 M2-1200ACN



scheda tecnica
 technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
 cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
 Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
 On request
 Sur demande
 Auf Anfrage

Applicazioni
 Application groups
 Groupe d'emploi
 Anwendungsgruppen





uncoated

AluCroN

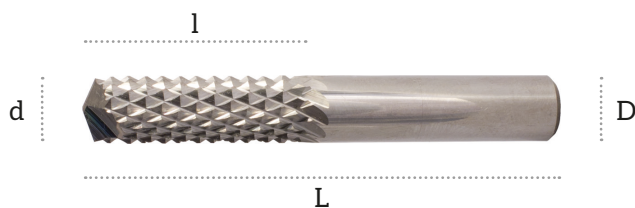
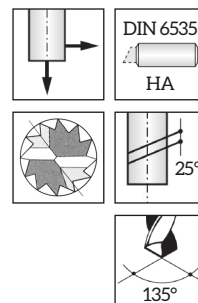
TMS 200 M3

Fresa per contornatura con affilatura forante 135°

Countouring cutter with drilling point 135°

Fraise pour des opérations de contourage 135° à coupe perçante

Konturenfräser mit Bohrspitze 135°



d h10	D h6	L	l ap	uncoated	AluCroN
3.00	3.00	40	10	TMS 200 M3-0300	TMS 200 M3-0300ACN
4.00	4.00	40	15	TMS 200 M3-0400	TMS 200 M3-0400ACN
5.00	5.00	50	16	TMS 200 M3-0500	TMS 200 M3-0500ACN
6.00	6.00	50	18	TMS 200 M3-0600	TMS 200 M3-0600ACN
6.35	6.35	60	20	TMS 200 M3-0635	TMS 200 M3-0635ACN
8.00	8.00	63	25	TMS 200 M3-0800	TMS 200 M3-0800ACN
10.00	10.00	72	30	TMS 200 M3-1000	TMS 200 M3-1000ACN
12.00	12.00	83	32	TMS 200 M3-1200	TMS 200 M3-1200ACN



scheda tecnica
 technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
 cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
 Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
 On request
 Sur demande
 Auf Anfrage

Applicazioni
 Application groups
 Groupe d'emploi
 Anwendungsgruppen





TiCN-B

AluCroN

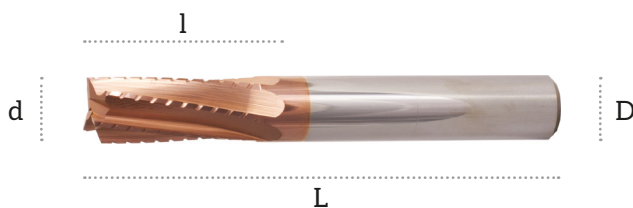
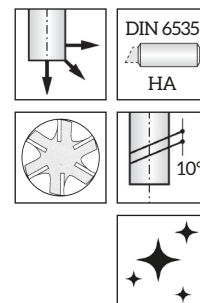
TMS 206

Fresa per contornatura 6 taglienti

Countouring cutter 6 flutes

Fraise pour des opérations de contournage 6 lèvres

Konturenfräser 6 Schneiden



d h10	D h6	L	l ap	TiCN-B	AluCroN
4.00	4.00	50	15	TMS206-0400B	TMS206-0400ACN
5.00	5.00	50	16	TMS206-0500B	TMS206-0500ACN
6.00	6.00	50	18	TMS206-0600B	TMS206-0600ACN
8.00	8.00	63	20	TMS206-0800B	TMS206-0800ACN
10.00	10.00	72	25	TMS206-1000B	TMS206-1000ACN
12.00	12.00	83	30	TMS206-1200B	TMS206-1200ACN



scheda tecnica
 technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
 cutting data
 paramètres d'usinage
 Schnittdaten

Diametri intermedi
 Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
 On request
 Sur demande
 Auf Anfrage

Applicazioni
 Application groups
 Groupe d'emploi
 Anwendungsgruppen

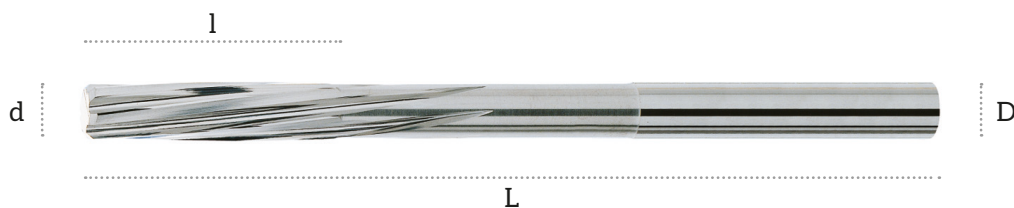
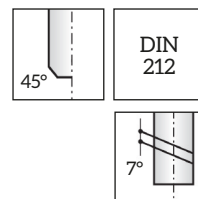




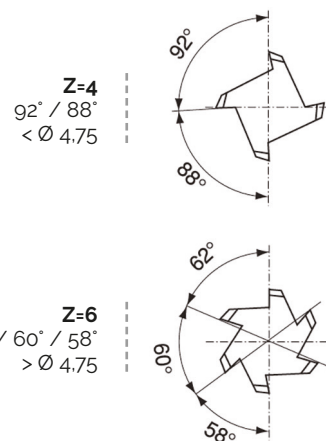
uncoated

TSR 4020

Alesatore elicoidale.
Left hand twist reamer.
 Aléssoir hélicoïdal.
 Reibahle-spiralgenutet



d H7	D H7	L	l	Z	uncoated
1.00	1.00	40	5	4	TSR 4020-0100
1.10	1.10	40	7	4	TSR 4020-0110
1.20	1.20	40	7	4	TSR 4020-0120
1.30	1.30	40	7	4	TSR 4020-0130
1.40	1.40	40	8	4	TSR 4020-0140
1.50	1.50	40	8	4	TSR 4020-0150
1.60	1.60	43	9	4	TSR 4020-0160
1.70	1.70	46	10	4	TSR 4020-0170
1.80	1.80	46	10	4	TSR 4020-0180
1.90	1.90	46	10	4	TSR 4020-0190
2.00	2.00	49	11	4	TSR 4020-0200
2.10	2.10	49	11	4	TSR 4020-0210
2.20	2.20	53	12	4	TSR 4020-0220
2.30	2.30	53	12	4	TSR 4020-0230
2.40	2.40	54	14	4	TSR 4020-0240
2.50	2.50	57	14	4	TSR 4020-0250
2.60	2.60	57	14	4	TSR 4020-0260
2.70	2.70	61	15	4	TSR 4020-0270
2.80	2.80	61	15	4	TSR 4020-0280
2.90	2.90	61	15	4	TSR 4020-0290
3.00	3.00	61	15	4	TSR 4020-0300
3.10	3.10	65	16	4	TSR 4020-0310
3.20	3.20	65	16	4	TSR 4020-0320
3.30	3.30	65	16	4	TSR 4020-0330
3.40	3.40	70	18	4	TSR 4020-0340
3.50	3.50	70	18	4	TSR 4020-0350



d H7	D h6	L	l	Z	uncoated
3.60	3.60	70	18	4	TSR 4020-0360
3.70	3.70	70	18	4	TSR 4020-0370
3.80	3.80	75	19	4	TSR 4020-0380
3.90	3.90	75	19	4	TSR 4020-0390
4.00	4.00	75	19	4	TSR 4020-0400
4.10	4.10	75	19	4	TSR 4020-0410
4.20	4.20	75	19	4	TSR 4020-0420
4.30	4.30	80	21	4	TSR 4020-0430
4.40	4.40	80	21	4	TSR 4020-0440
4.50	4.50	80	21	4	TSR 4020-0450
4.60	4.60	80	21	4	TSR 4020-0460
4.70	4.70	80	21	4	TSR 4020-0470
4.80	4.80	86	23	6	TSR 4020-0480
4.90	4.90	86	23	6	TSR 4020-0490
5.00	5.00	86	23	6	TSR 4020-0500
5.10	5.10	86	23	6	TSR 4020-0510
5.20	5.20	86	23	6	TSR 4020-0520
5.30	5.30	86	23	6	TSR 4020-0530
5.40	5.40	93	26	6	TSR 4020-0540
5.50	5.50	93	26	6	TSR 4020-0550

d H7	D h6	L	l	Z	uncoated
5.60	5.60	93	26	6	TSR 4020-0560
5.70	5.70	93	26	6	TSR 4020-0570
5.80	5.80	93	26	6	TSR 4020-0580
5.90	5.90	93	26	6	TSR 4020-0590
6.00	6.00	93	26	6	TSR 4020-0600
6.50	6.50	101	28	6	TSR 4020-0650
7.00	7.00	109	31	6	TSR 4020-0700
7.50	7.50	109	31	6	TSR 4020-0750
8.00	8.00	117	33	6	TSR 4020-0800
8.50	8.50	117	33	6	TSR 4020-0850
9.00	9.00	125	36	6	TSR 4020-0900
9.50	9.50	125	36	6	TSR 4020-0950
10.00	10.00	133	38	6	TSR 4020-1000
10.50	10.50	133	38	6	TSR 4020-1050
11.00	11.00	142	41	6	TSR 4020-1100
11.50	11.50	142	41	6	TSR 4020-1150
12.00	12.00	151	44	6	TSR 4020-1200
12.50	12.50	151	44	6	TSR 4020-1250
13.00	13.00	151	44	6	TSR 4020-1300

Taglio destro, spirale sinistra, divisione irregolare
Right hand cutting, left hand helix, unequal division
 Hélice à gauche, coupe à droite, division irrégulière
 Linksdrill, Rechtsschneidend, Ungleiche Teilung



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

Rivestimenti | diametri intermedi | affilatura per fori ciechi
Coating | other sizes | special execution for reaming blind holes
 Revêtement | diamètres intermédiaires | Affûtage pour trou borgne
 Beschichtung | Zwischenabmessungen | Geometrie für das Reiben von Sacklochbohrungen

Su richiesta
On request
 Sur demande
 Auf Anfrage



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





uncoated

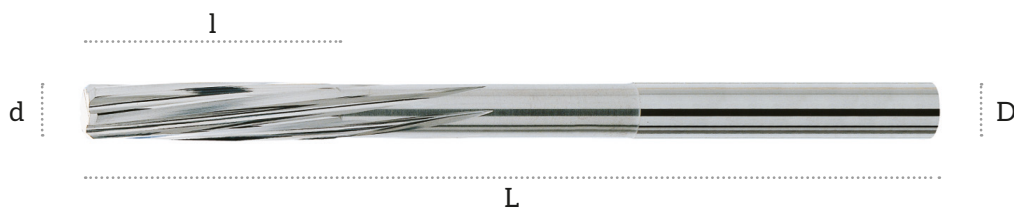
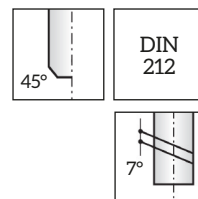
TSR 4020 C

Alesatore elicoidale centesimale

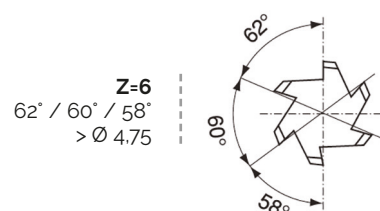
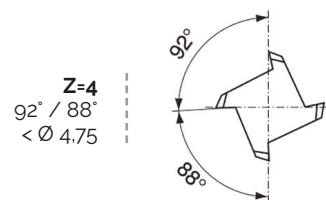
Left hand twist reamer 1/100

Aléssoir hélicoïdal 1/100

Reibahle-spiralgenutet Linksdraht 1/100



d H7	D h6	L	l	Z	uncoated
0.95	1.50	40	5	4	TSR 4020C-0095
0.96	1.50	40	5	4	TSR 4020C-0096
0.97	1.50	40	5	4	TSR 4020C-0097
0.98	1.50	40	5	4	TSR 4020C-0098
0.99	1.50	40	5	4	TSR 4020C-0099
1.01	1.50	40	5	4	TSR 4020C-0101
1.02	1.50	40	5	4	TSR 4020C-0102
1.03	1.50	40	5	4	TSR 4020C-0103
1.04	1.50	40	5	4	TSR 4020C-0104
1.05	1.50	40	5	4	TSR 4020C-0105
1.97	2.00	49	11	4	TSR 4020C-0197
1.98	2.00	49	11	4	TSR 4020C-0198
1.99	2.00	49	11	4	TSR 4020C-0199
2.01	2.00	49	11	4	TSR 4020C-0201
2.02	2.00	49	11	4	TSR 4020C-0202
2.03	2.00	49	11	4	TSR 4020C-0203
2.04	2.00	49	11	4	TSR 4020C-0204
2.05	2.00	49	11	4	TSR 4020C-0205
2.97	3.00	61	15	6	TSR 4020C-0297
2.98	3.00	61	15	6	TSR 4020C-0298
2.99	3.00	61	15	6	TSR 4020C-0299
3.01	3.00	61	15	6	TSR 4020C-0301
3.02	3.00	61	15	6	TSR 4020C-0302
3.03	3.00	61	15	6	TSR 4020C-0303
3.04	3.00	61	15	6	TSR 4020C-0304
3.05	3.00	61	15	6	TSR 4020C-0305



d H7	D h6	L	l	Z	uncoated
3.97	4.00	75	19	6	TSR 4020C-0397
3.98	4.00	75	19	6	TSR 4020C-0398
3.99	4.00	75	19	6	TSR 4020C-0399
4.01	4.00	75	19	6	TSR 4020C-0401
4.02	4.00	75	19	6	TSR 4020C-0402
4.03	4.00	75	19	6	TSR 4020C-0403
4.04	4.00	75	19	6	TSR 4020C-0404
4.05	4.00	75	19	6	TSR 4020C-0405
4.97	5.00	86	23	6	TSR 4020C-0497
4.98	5.00	86	23	6	TSR 4020C-0498
4.99	5.00	86	23	6	TSR 4020C-0499
5.01	5.00	86	23	6	TSR 4020C-0501
5.02	5.00	86	23	6	TSR 4020C-0502
5.03	5.00	86	23	6	TSR 4020C-0503
5.04	5.00	86	23	6	TSR 4020C-0504
5.05	5.00	86	23	6	TSR 4020C-0505
5.97	6.00	93	26	6	TSR 4020C-0597
5.98	6.00	93	26	6	TSR 4020C-0598
5.99	6.00	93	26	6	TSR 4020C-0599
6.01	6.00	93	26	6	TSR 4020C-0601
6.02	6.00	93	26	6	TSR 4020C-0602
6.03	6.00	93	26	6	TSR 4020C-0603
6.04	6.00	93	26	6	TSR 4020C-0604
6.05	6.00	93	26	6	TSR 4020C-0605
6.97	8.00	109	31	6	TSR 4020C-0697
6.98	8.00	109	31	6	TSR 4020C-0698
6.99	8.00	109	31	6	TSR 4020C-0699
7.01	8.00	109	31	6	TSR 4020C-0701
7.02	8.00	109	31	6	TSR 4020C-0702
7.03	8.00	109	31	6	TSR 4020C-0703
7.04	8.00	109	31	6	TSR 4020C-0704
7.05	8.00	109	31	6	TSR 4020C-0705
7.97	8.00	117	33	6	TSR 4020C-0797
7.98	8.00	117	33	6	TSR 4020C-0798
7.99	8.00	117	33	6	TSR 4020C-0799
8.01	8.00	117	33	6	TSR 4020C-0801

d H7	D h6	L	l	Z	uncoated
8.02	8.00	117	33	6	TSR 4020C-0802
8.03	8.00	117	33	6	TSR 4020C-0803
8.04	8.00	117	33	6	TSR 4020C-0804
8.05	8.00	117	33	6	TSR 4020C-0805
8.97	10.00	125	36	6	TSR 4020C-0897
8.98	10.00	125	36	6	TSR 4020C-0898
8.99	10.00	125	36	6	TSR 4020C-0899
9.01	10.00	125	36	6	TSR 4020C-0901
9.02	10.00	125	36	6	TSR 4020C-0902
9.03	10.00	125	36	6	TSR 4020C-0903
9.04	10.00	125	36	6	TSR 4020C-0904
9.05	10.00	125	36	6	TSR 4020C-0905
9.97	10.00	133	38	6	TSR 4020C-0997
9.98	10.00	133	38	6	TSR 4020C-0998
9.99	10.00	133	38	6	TSR 4020C-0999
10.01	10.00	133	38	6	TSR 4020C-1001
10.02	10.00	133	38	6	TSR 4020C-1002
10.03	10.00	133	38	6	TSR 4020C-1003
10.04	10.00	133	38	6	TSR 4020C-1004
10.05	10.00	133	38	6	TSR 4020C-1005
10.97	12.00	142	41	6	TSR 4020C-1097
10.98	12.00	142	41	6	TSR 4020C-1098
10.99	12.00	142	41	6	TSR 4020C-1099
11.01	12.00	142	41	6	TSR 4020C-1101
11.02	12.00	142	41	6	TSR 4020C-1102
11.03	12.00	142	41	6	TSR 4020C-1103
11.04	12.00	142	41	6	TSR 4020C-1104
11.05	12.00	142	41	6	TSR 4020C-1105
11.97	12.00	151	44	6	TSR 4020C-1197
11.98	12.00	151	44	6	TSR 4020C-1198
11.99	12.00	151	44	6	TSR 4020C-1199
12.01	12.00	151	44	6	TSR 4020C-1201
12.02	12.00	151	44	6	TSR 4020C-1202
12.03	12.00	151	44	6	TSR 4020C-1203
12.04	12.00	151	44	6	TSR 4020C-1204
12.05	12.00	151	44	6	TSR 4020C-1205

Taglio destro, spirale sinistra, divisione irregolare
Right hand cutting, left hand helix, unequal division
 Hélice à gauche, coupe à droite, division irrégulière
 Linksdrill, Rechtsschneidend, Ungleiche Teilung



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

Rivestimenti | diametri intermedi | affilatura per fori ciechi
Coating | other sizes | special execution for reaming blind holes
 Revêtement | diamètres intermédiaires | Affûtage pour trou borgne
 Beschichtung | Zwischenabmessungen | Geometrie für das Reiben von Sacklochbohrungen

Su richiesta
On request
 Sur demande
 Auf Anfrage



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





TICN-G

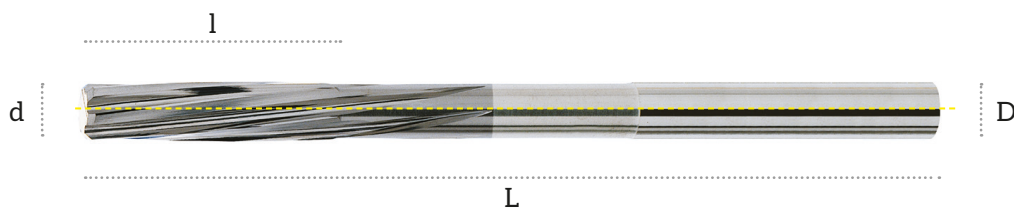
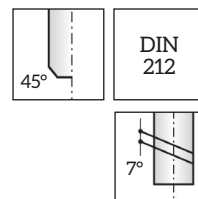
TSR 4020 K

Alesatore elicoidale con foro centrale

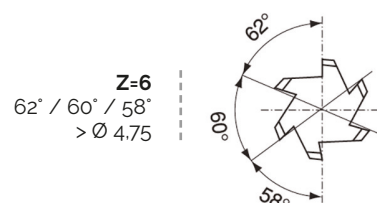
Twist reamer with internal cooling

Alésoir denture hélicoïdal avec arrosage central

Reibahle-spiralgenutet mit zentralen Innenkühlung



d H7	D h6	L	l	Z	TiCN-G
5.00	6.00	86	23	6	TSR 4020K-0500
5.50	6.00	93	26	6	TSR 4020K-0550
6.00	6.00	93	26	6	TSR 4020K-0600
6.50	8.00	101	28	6	TSR 4020K-0650
7.00	8.00	109	31	6	TSR 4020K-0700
7.50	8.00	109	31	6	TSR 4020K-0750
8.00	8.00	117	33	6	TSR 4020K-0800
8.50	10.00	117	33	6	TSR 4020K-0850
9.00	10.00	125	36	6	TSR 4020K-0900
9.50	10.00	125	36	6	TSR 4020K-0950
10.00	10.00	133	38	6	TSR 4020K-1000
10.50	12.00	142	41	6	TSR 4020K-1050
11.00	12.00	142	41	6	TSR 4020K-1100
11.50	12.00	142	41	6	TSR 4020K-1150
12.00	12.00	151	44	6	TSR 4020K-1200



Taglio destro, spirale sinistra, divisione irregolare
Right hand cutting, left hand helix, unequal division
 Hélice à gauche, coupe à droite, division irrégulière
 Linksdraht, Rechtsschneidend, Ungleiche Teilung



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usage
 Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage





TiCN-G

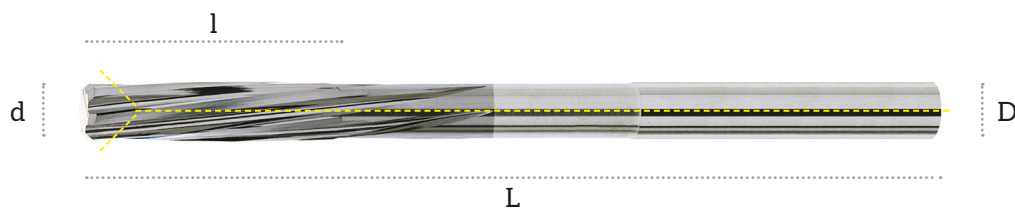
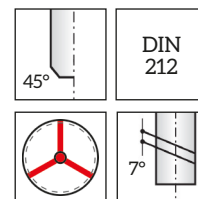
TSR 4020 KR

Alesatore elicoidale con fori radiali

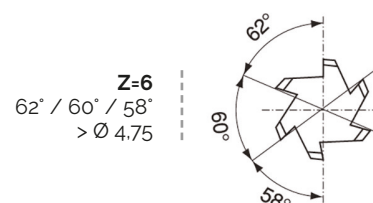
Twist reamer with internal cooling through flutes

Alésoir denture hélicoïdal avec arrosage latéral

Reibahle spiralgenutet mit Innenkühlung durch die Spannuten



d H7	D h6	L	l	Z	TiCN-G
5.00	6.00	86	23	6	TSR 4020KR-0500
5.50	6.00	93	26	6	TSR 4020KR-0550
6.00	6.00	93	26	6	TSR 4020KR-0600
6.50	8.00	101	28	6	TSR 4020KR-0650
7.00	8.00	109	31	6	TSR 4020KR-0700
7.50	8.00	109	31	6	TSR 4020KR-0750
8.00	8.00	117	33	6	TSR 4020KR-0800
8.50	10.00	117	33	6	TSR 4020KR-0850
9.00	10.00	125	36	6	TSR 4020KR-0900
9.50	10.00	125	36	6	TSR 4020KR-0950
10.00	10.00	133	38	6	TSR 4020KR-1000
10.50	12.00	142	41	6	TSR 4020KR-1050
11.00	12.00	142	41	6	TSR 4020KR-1100
11.50	12.00	142	41	6	TSR 4020KR-1150
12.00	12.00	151	44	6	TSR 4020KR-1200



Taglio destro, spirale sinistra, divisione irregolare
Right hand cutting, left hand helix, unequal division
 Hélice à gauche, coupe à droite, division irrégulière
 Linksdrehung, Rechtsschneidend, Ungleiche Teilung



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
cutting data
 paramètres d'usinage
 Schnittdaten

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

Diametri intermedi
Other sizes
 Diamètres intermédiaires
 Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage





AlTiSiN

TM SV 60°

Svasatore 60°

Deburr 60°

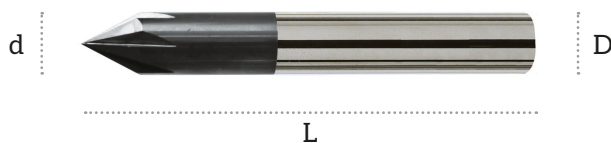
Outil pour ébavurer 60°

Entgrater 60°

TUNIT
NORM

DIN 6535

HA



d	D h6	L	Z	AlTiSiN
4.00	4.00	54	4	TM SV60-0400L
6.00	6.00	60	4	TM SV60-0600L
8.00	8.00	63	5	TM SV60-0800L
10.00	10.00	72	6	TM SV60-1000L
12.00	12.00	83	6	TM SV60-1200L



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | DIN 6535 HB
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





AlTiSiN

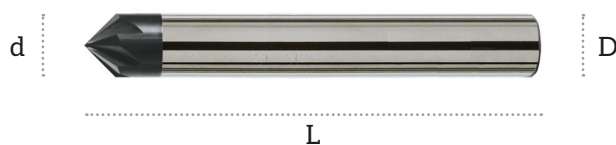
TM SV 90°

Svasatore 90°
 Deburr 90°
 Outil pour ébavurer 90°
 Entgrater 90°

TUNIT
NORM

DIN 6535

HA



d	D h6	L	Z	AlTiSiN
4.00	4.00	54	4	TM SV90-0400L
6.00	6.00	60	4	TM SV90-0600L
8.00	8.00	63	5	TM SV90-0800L
10.00	10.00	72	6	TM SV90-1000L
12.00	12.00	83	6	TM SV90-1200L



scheda tecnica
 technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
 cutting data
 paramètres d'usage
 Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
 Out of range | other sizes | DIN 6535 HB
 Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
 Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
 On request
 Sur demande
 Auf Anfrage

Applicazioni
 Application groups
 Groupe d'emploi
 Anwendungsgruppen





AlTiSiN

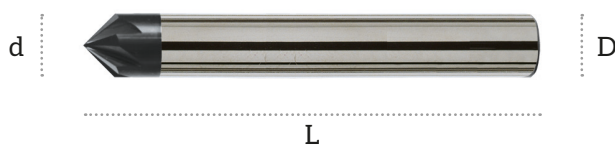
TM SV 100°

Svasatore 100°
 Deburr 100°
 Outil pour ébavurer 100°
 Entgrater 100°

TUNIT
NORM

DIN 6535

HA



d	D h6	L	Z	AlTiSiN
4.00	4.00	54	4	TM SV100-0400L
6.00	6.00	60	4	TM SV100-0600L
8.00	8.00	63	5	TM SV100-0800L
10.00	10.00	72	6	TM SV100-1000L
12.00	12.00	83	6	TM SV100-1200L



scheda tecnica
 technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
 cutting data
 paramètres d'usinage
 Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
 Out of range | other sizes | DIN 6535 HB
 Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
 Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
 On request
 Sur demande
 Auf Anfrage

Applicazioni
 Application groups
 Groupe d'emploi
 Anwendungsgruppen





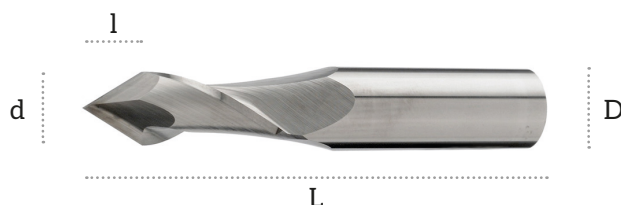
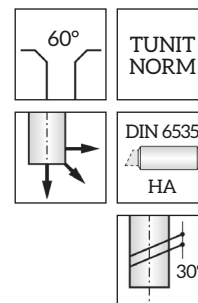
uncoated

TM SV2 60°

Svasatore 60° 2 taglienti

Deburr 60° 2 flutes

Outil pour ébavurer 60° 2 lèvres

Entgrater 60° 2 Schneiden

d	D h6	L	l	uncoated
0.50	3.00	39	1	TM SV260-0050
1.00	3.00	39	2	TM SV260-0100
1.50	3.00	39	3	TM SV260-0150
2.00	3.00	39	4	TM SV260-0200
2.50	3.00	39	5	TM SV260-0250
3.00	4.00	50	6	TM SV260-0300
4.00	5.00	50	8	TM SV260-0400
5.00	6.00	50	10	TM SV260-0500
6.00	8.00	70	12	TM SV260-0600
8.00	10.00	70	16	TM SV260-0800
10.00	12.00	90	18	TM SV260-1000
12.00	12.00	90	20	TM SV260-1200
16.00	16.00	92	26	TM SV260-1600
20.00	20.00	100	32	TM SV260-2000



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usage
Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
Out of range | other sizes | **DIN 6535 HB**
Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
Sonderausführungen | Zwischenabmessungen | **DIN 6535 HB**

Su richiesta
On request
Sur demande
Auf Anfrage

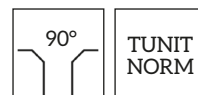
Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen



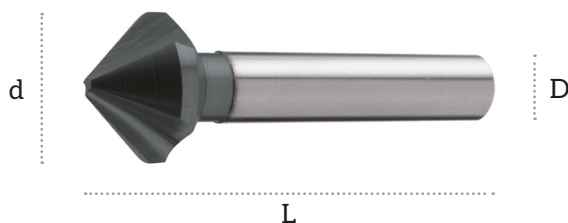


AlTiSiN

TM SV3 90°



Svasatore 90° 3 taglienti
 Deburr 90° 3 flutes
 Outil pour ébavurer 90° 3 lèvres
 Entgrater 90° 3 Schneiden



d	D h6	L	AlTiSiN
4.30	4.00	40	TM SV390-0430
5.30	4.00	40	TM SV390-0530
6.30	5.00	45	TM SV390-0630
8.30	6.00	50	TM SV390-0830
10.40	6.00	50	TM SV390-1040
12.40	8.00	56	TM SV390-1240
16.50	10.00	60	TM SV390-1650
20.50	10.00	63	TM SV390-2050
25.00	10.00	67	TM SV390-2500



scheda tecnica
 technical data sheet
 données techniques
 Technisches Datenblatt



parametri di lavoro
 cutting data
 paramètres d'usinage
 Schnittdaten

Esecuzione speciale | diametri intermedi | DIN 6535 HB
 Out of range | other sizes | DIN 6535 HB
 Exécution spéciale | diamètres intermédiaires | DIN 6535 HB
 Sonderausführungen | Zwischenabmessungen | DIN 6535 HB

Su richiesta
 On request
 Sur demande
 Auf Anfrage

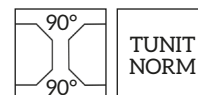
Applicazioni
 Application groups
 Groupe d'emploi
 Anwendungsgruppen





AITiSiN

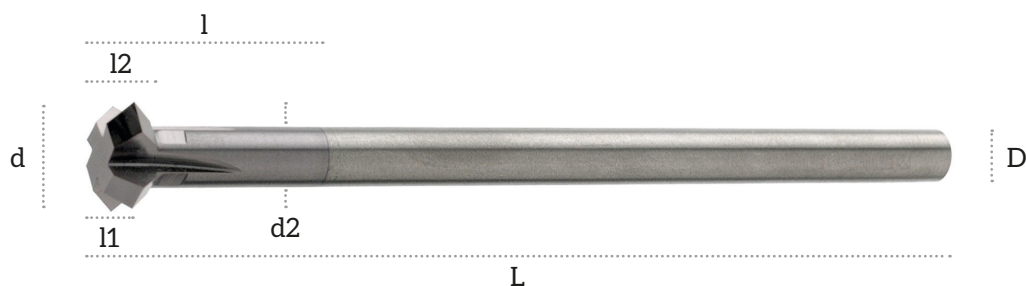
TM SV4 90°



Svasatore per interni 90°

Deburr 90° for internal application

Outil pour ébavurer 90° pour utilisation interne

Entgrater 90° für Innenbearbeitungen

d	D h6	d2	L	l	l1	l2	Z	AITiSiN
1.80	6.00	1,2	100	9	0,9	1,2	3	TM SV490-0180
2.80	6.00	2,0	100	10	1,4	1,8	3	TM SV490-0280
4.00	6.00	2,0	100	13	2,0	3,0	4	TM SV490-0400
6.00	6.00	4,0	100	19	3,0	4,0	4	TM SV490-0600
8.00	6.00	-	100	-	2,1	3,0	4	TM SV490-0800
10.00	6.00	-	100	-	2,25	4,0	4	TM SV490-1000
12.00	6.00	-	100	-	3,0	6,0	4	TM SV490-1200
16.00	10.00	-	100	-	5,0	8,0	4	TM SV490-1600



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt



parametri di lavoro
cutting data
paramètres d'usinage
Schnittdaten

Esecuzione speciale | diametri intermedi
Out of range | other sizes
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

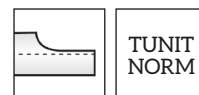
Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen



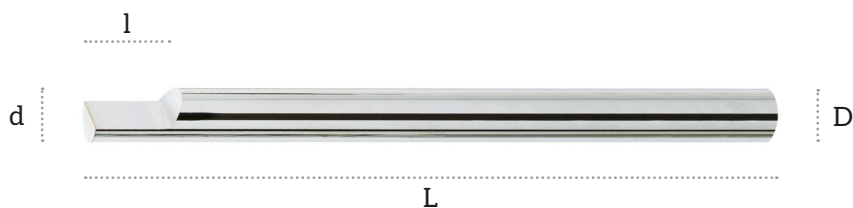


uncoated

TM 5.80 L



Bulino
Single lip cutter
 Burin rectifié
 Gravierstichel



d	L	l	uncoated
3.00	100	4	TM 5.80L-0300
4.00	100	5	TM 5.80L-0400
5.00	100	7	TM 5.80L-0500
6.00	100	8	TM 5.80L-0600
8.00	100	10	TM 5.80L-0800
10.00	100	13	TM 5.80L-1000
12.00	100	16	TM 5.80L-1200
14.00	100	18	TM 5.80L-1400



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
 Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen



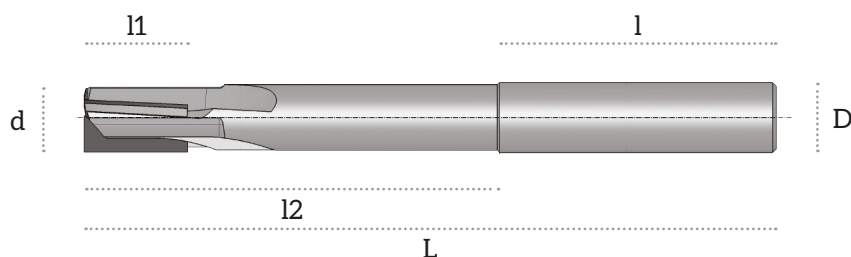


PCD

TP CD 3.2

TUNIT
PCD

Fresa 2 taglienti, corpo in metallo duro
End mill 2 flutes, solid carbide body
 Fraise 2 lèvres, corps en métal dur
 Schaftfräser 2 Schneiden, Hartmetallkörper



d	D	L	l	l1	l2	PCD
6.00	8.00	60	30	15	30	TPCD 3.2-0600
8.00	8.00	60	30	15	30	TPCD 3.2-0800
10.00	10.00	75	35	15	40	TPCD 3.2-1000
12.00	12.00	75	25	15	50	TPCD 3.2-1200

Angolo dell'elica: 0° - 5° | *Helix angle: 0° - 5°* | Angle d'hélice: 0° - 5° | *Spiralwinkel: 0° - 5°*
 Equilibratura: G 2,5 < 1 gr/mm | *Balance: G 2,5 < 1 gr/mm* | Équilibrage: G 2,5 < 1 gr/mm | *Auswuchten: G 2,5 < 1 gr/mm*



scheda tecnica
technical data sheet
 données techniques
 Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
 Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





PCD

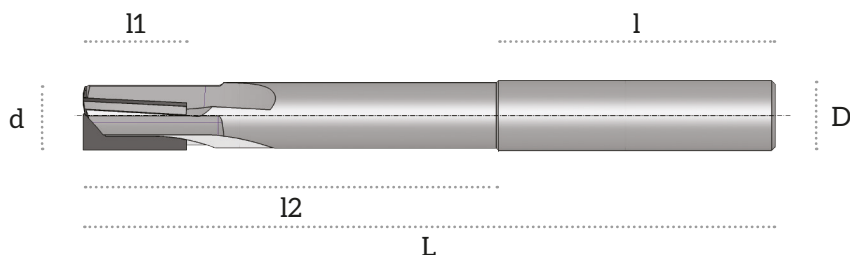
TP CD 3.2 L

TUNIT
PCD

Fresa 2 taglienti, corpo in metallo duro

End mill 2 flutes, solid carbide body

Fraise 2 lèvres, corps en métal dur

Schaftfräser 2 Schneiden, Hartmetallkörper

d	D	L	l	l1	l2	PCD
6.00	8.00	100	30	20	70	TPCD 3.2L-0600
8.00	8.00	100	30	20	70	TPCD 3.2L-0800
10.00	10.00	100	40	20	60	TPCD 3.2L-1000
12.00	12.00	100	50	20	50	TPCD 3.2L-1200

Angolo dell'elica: 0° - 5° | *Helix angle: 0° - 5°* | Angle d'hélice: 0° - 5° | *Spiralwinkel: 0° - 5°*
 Equilibratura: G 2,5 < 1 gr/mm | *Balance: G 2,5 < 1 gr/mm* | Équilibrage: G 2,5 < 1 gr/mm | *Auswuchten: G 2,5 < 1 gr/mm*



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
 Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

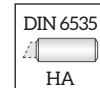
Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





PCD

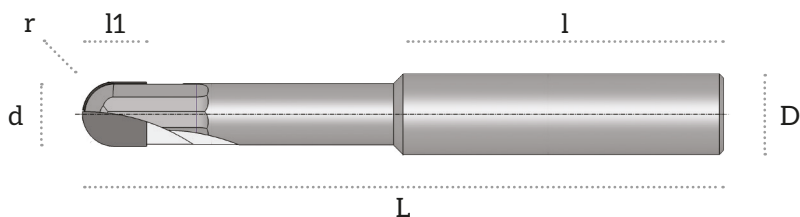
TP CD 3.2 R

TUNIT
PCD

Fresa sferica 2 taglienti, corpo in metallo duro

Ball nose end mill 2 flutes, solid carbide body

Fraise à bout hémisphérique 2 lèvres, corps en métal dur

Radiusfräser 2 Schneiden, Hartmetallkörper

d	D	r	L	l	l1	PCD
6.00	8.00	3	100	40	6	TPCD 3.2R-0600
8.00	8.00	4	100	40	7	TPCD 3.2R-0800
10.00	10.00	5	100	45	8	TPCD 3.2R-1000
12.00	12.00	6	100	50	9	TPCD 3.2R-1200
16.00	16.00	8	100	50	10	TPCD 3.2R-1600
20.00	20.00	10	100	55	12	TPCD 3.2R-2000

Angolo dell'elica: 0° - 5° | *Helix angle: 0° - 5°* | Angle d'hélice: 0° - 5° | *Spiralwinkel: 0° - 5°*Equilibratura: G 2,5 < 1 gr/mm | *Balance: G 2,5 < 1 gr/mm* | Équilibrage: G 2,5 < 1 gr/mm | *Auswuchten: G 2,5 < 1 gr/mm*

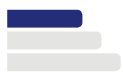
scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

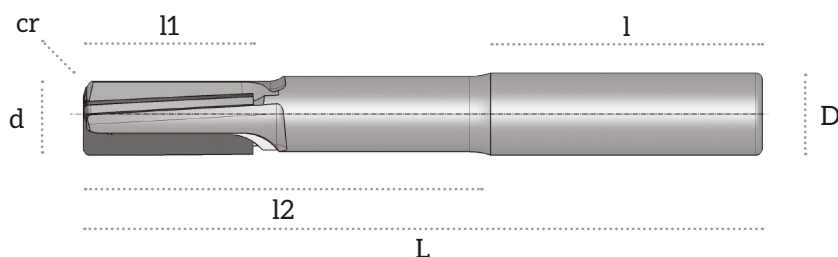




PCD

TP CDT 3.2

Fresa torica 2 taglienti, corpo in metallo duro
Torodial end mill 2 flutes, solid carbide body
 Fraise torique 2 lèvres, corps en métal dur
Torusfräser 2 Schneiden, Hartmetallkörper



d	D	cr	L	l	l1	l2	PCD
6.00	8.00	0,5	60	30	15	30	TPCDT 3.2-0600
8.00	8.00	0,5	60	30	15	30	TPCDT 3.2-0800
10.00	10.00	1	75	40	15	35	TPCDT 3.2-1000
12.00	12.00	1	75	50	15	25	TPCDT 3.2-1200

Angolo dell'elica: 0° - 5° | *Helix angle: 0° - 5°* | Angle d'hélice: 0° - 5° | *Spiralwinkel: 0° - 5°*
 Equilibratura: G 2,5 < 1 gr/mm | *Balance: G 2,5 < 1 gr/mm* | Équilibrage: G 2,5 < 1 gr/mm | *Auswuchten: G 2,5 < 1 gr/mm*



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
 Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





PCD

TP CDT 3.2 L

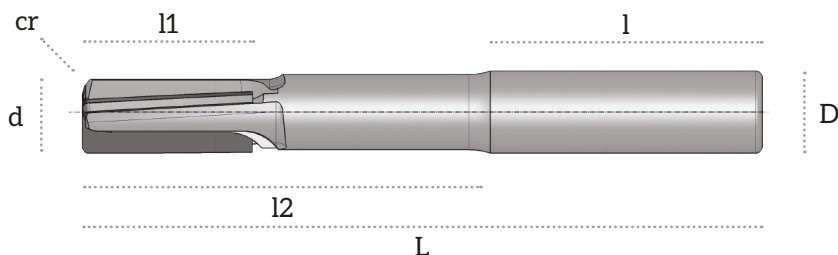


Fresa torica 2 taglienti, corpo in metallo duro

Torodial end mill 2 flutes, solid carbide body

Fraise torique 2 lèvres, corps en métal dur

Torusfräser 2 Schneiden, Hartmetallkörper



d	D	cr	L	l	l1	l2	PCD
6.00	8.00	0,5	100	30	20	70	TPCDT 3.2L-0600
8.00	8.00	0,5	100	30	20	70	TPCDT 3.2L-0800
10.00	10.00	1	100	40	20	60	TPCDT 3.2L-1000
12.00	12.00	1	100	50	20	50	TPCDT 3.2L-1200

Angolo dell'elica: 0° - 5° | *Helix angle: 0° - 5°* | Angle d'hélice: 0° - 5° | *Spiralwinkel: 0° - 5°*

Equilibratura: G 2,5 < 1 gr/mm | *Balance: G 2,5 < 1 gr/mm* | Équilibrage: G 2,5 < 1 gr/mm | *Auswuchten: G 2,5 < 1 gr/mm*



scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen





PCD

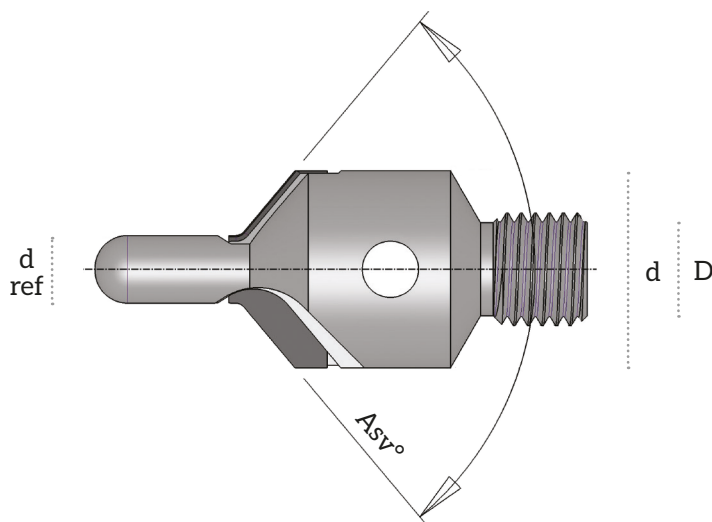
TP CD2 108

TUNIT
PCD

Svasatore 2 taglienti

Deburr 2 flutes

Outil pour ébavurer 2 lèvres

Entgrater 2 Schneiden

d	d ref	D	ASV°	PCD
10.00	3.00	M6X1,0	100°/130°	TPCD2 108-1000
12.00	3.00	M6X1,0	100°/130°	TPCD2 108-1200
14.00	3.00	M8X1,0	100°/130°	TPCD2 108-1400
16.00	4.00	M8X1,0	100°/130°	TPCD2 108-1600

Angolo dell'elica: 0° | *Helix angle: 0°* | Angle d'hélice: 0° | *Spiralwinkel: 0°*
 Equilibratura: G 2,5 < 1 gr/mm | *Balance: G 2,5 < 1 gr/mm* | Équilibrage: G 2,5 < 1 gr/mm | *Auswuchten: G 2,5 < 1 gr/mm*



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
 Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





PCD

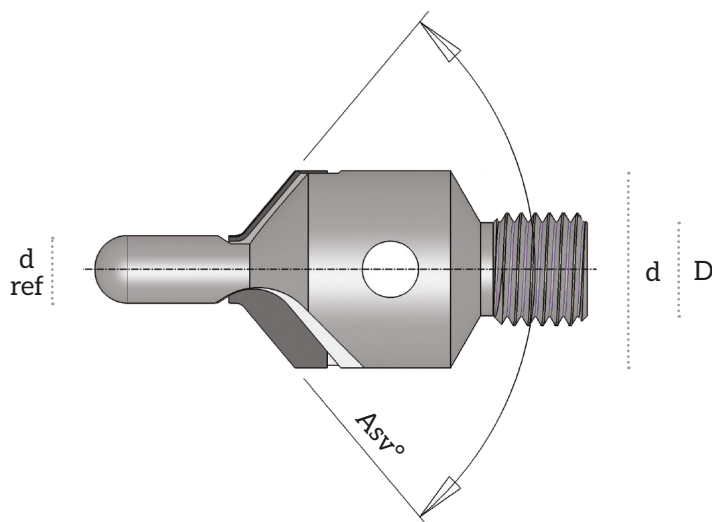
TP CD3 108

TUNIT
PCD

Svasatore 3 taglienti

Deburr 3 flutes

Outil pour ébavurer 3 lèvres

Entgrater 3 Schneiden

d	d ref	D	ASV°	PCD
10.00	3.00	M6X1,0	100°/130°	TPCD3 108-1000
12.00	3.00	M6X1,0	100°/130°	TPCD3 108-1200
14.00	3.00	M8X1,0	100°/130°	TPCD3 108-1400
16.00	4.00	M8X1,0	100°/130°	TPCD3 108-1600

Angolo dell'elica: 0° | *Helix angle: 0°* | Angle d'hélice: 0° | *Spiralwinkel: 0°*Equilibratura: G 2,5 < 1 gr/mm | *Balance: G 2,5 < 1 gr/mm* | Équilibrage: G 2,5 < 1 gr/mm | *Auswuchten: G 2,5 < 1 gr/mm*

scheda tecnica
technical data sheet
données techniques
Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
Sur demande
Auf Anfrage

Applicazioni
Application groups
Groupe d'emploi
Anwendungsgruppen

H

I



PCD

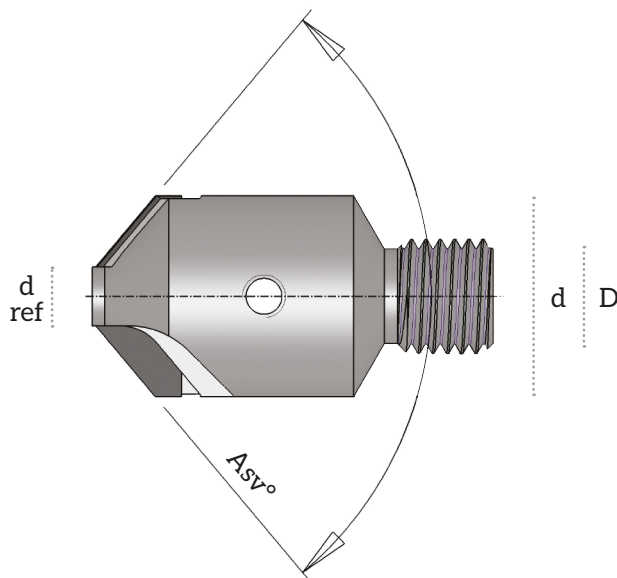
TP CD2 208

TUNIT
PCD

Svasatore 2 taglienti

Deburr 2 flutes

Outil pour ébavurer 2 lèvres

Entgrater 2 Schneiden

d	d ref	D	ASV°	PCD
10.00	2.50	M6X1,0	100°/130°	TPCD2 208-1000
12.00	3.00	M6X1,0	100°/130°	TPCD2 208-1200
14.00	3.00	M6X1,0	100°/130°	TPCD2 208-1400
16.00	4.00	M6X1,0	100°/130°	TPCD2 208-1600

Angolo dell'elica: 0° | *Helix angle: 0°* | Angle d'hélice: 0° | *Spiralwinkel: 0°*
 Equilibratura: G 2,5 < 1 gr/mm | *Balance: G 2,5 < 1 gr/mm* | Équilibrage: G 2,5 < 1 gr/mm | *Auswuchten: G 2,5 < 1 gr/mm*



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
Anwendungsgruppen





PCD

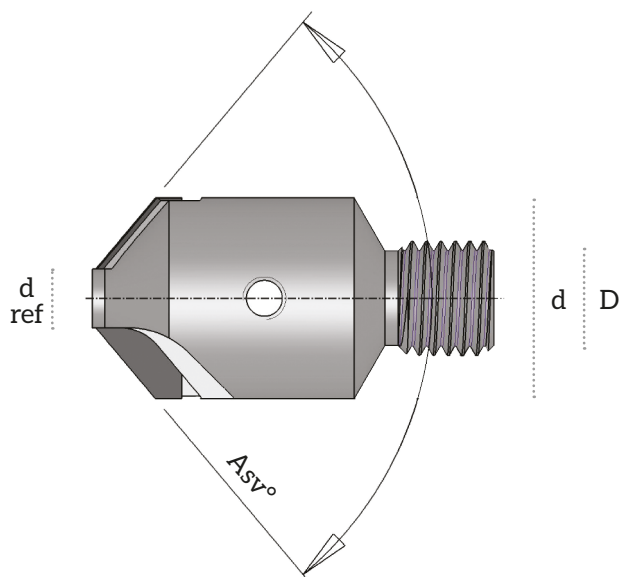
TP CD3 208

TUNIT
PCD

Svasatore 3 taglienti

Deburr 3 flutes

Outil pour ébavurer 3 lèvres

Entgrater 3 Schneiden

d	d ref	D	ASV°	PCD
10.00	3.00	M6X1,0	100°/130°	TPCD3 208-1000
12.00	3.00	M6X1,0	100°/130°	TPCD3 208-1200
14.00	3.00	M6X1,0	100°/130°	TPCD3 208-1400
16.00	3.00	M6X1,0	100°/130°	TPCD3 208-1600

Angolo dell'elica: 0° | *Helix angle: 0°* | Angle d'hélice: 0° | *Spiralwinkel: 0°*
 Equilibratura: G 2,5 < 1 gr/mm | *Balance: G 2,5 < 1 gr/mm* | Équilibrage: G 2,5 < 1 gr/mm | *Auswuchten: G 2,5 < 1 gr/mm*



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
Anwendungsgruppen

H

I



PCD

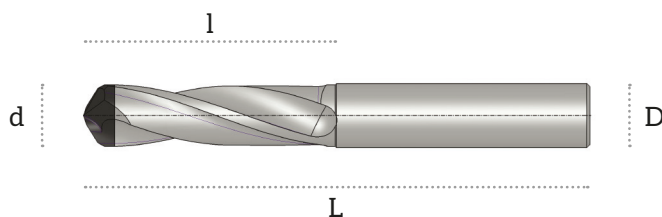
TD PK D2

Punta elicoidale 2 taglienti, corpo in metallo duro

Twist drill 2 flutes, solid carbide body

Foret hélicoïdale 2 lèbres, corps en métal dur

Hochleistungsbohrer 2 Schneiden, Hartmetallkörper



d	D h6	L	l	PCD
2.50	4.00	60	30	TD PKD2-0250
3.00	4.00	60	30	TD PKD2-0300
3.50	4.00	60	30	TD PKD2-0350
4.00	4.00	60	30	TD PKD2-0400
4.50	6.00	60	30	TD PKD2-0450
5.00	6.00	70	30	TD PKD2-0500
5.50	6.00	70	30	TD PKD2-0550
6.00	6.00	70	30	TD PKD2-0600
6.50	8.00	80	40	TD PKD2-0650
7.00	8.00	80	40	TD PKD2-0700
7.50	8.00	80	40	TD PKD2-0750
8.00	8.00	80	40	TD PKD2-0800
8.50	10.00	80	40	TD PKD2-0850
9.00	10.00	80	40	TD PKD2-0900
9.50	10.00	80	40	TD PKD2-0950
10.00	10.00	80	40	TD PKD2-1000
10.50	12.00	80	40	TD PKD2-1050
11.00	12.00	80	40	TD PKD2-1100
11.50	12.00	80	40	TD PKD2-1150
12.00	12.00	80	40	TD PKD2-1200

Equilibratura: G 2,5 < 1 gr/mm | **Balance: G 2,5 < 1 gr/mm** | Équilibrage: G 2,5 < 1 gr/mm | Auswuchten: G 2,5 < 1 gr/mm
 Tolleranza di taglio: ± 0,01 | **Cutting tolerance: ± 0,01** | Tolérance de coupe: ± 0,01 | Schneidentoleranz: ± 0,01



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
 Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen





PCD

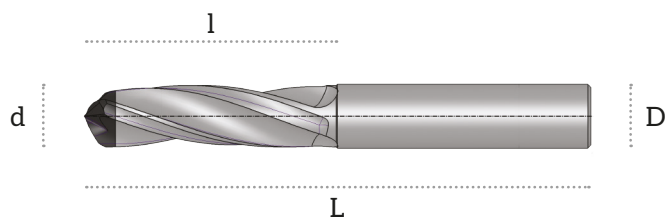
TD PK D3

Punta elicoidale 3 taglienti, corpo in metallo duro

Twist drill 3 flutes, solid carbide body

Foret hélicoïdale 3 lèbres, corps en métal dur

Hochleistungsbohrer 3 Schneiden, Hartmetallkörper



d	D h6	L	l	PCD
3.00	4.00	60	30	TD PKD3-0300
3.50	4.00	60	30	TD PKD3-0350
4.00	4.00	60	30	TD PKD3-0400
4.50	6.00	60	30	TD PKD3-0450
5.00	6.00	70	30	TD PKD3-0500
5.50	6.00	70	30	TD PKD3-0550
6.00	6.00	70	30	TD PKD3-0600
6.50	8.00	80	40	TD PKD3-0650
7.00	8.00	80	40	TD PKD3-0700
7.50	8.00	80	40	TD PKD3-0750
8.00	8.00	80	40	TD PKD3-0800

Equilibratura: G 2,5 < 1 gr/mm | Balance: G 2,5 < 1 gr/mm | Équilibrage: G 2,5 < 1 gr/mm | Auswuchten: G 2,5 < 1 gr/mm
 Tolleranza di taglio: ± 0,01 | Cutting tolerance: ± 0,01 | Tolérance de coupe: ± 0,01 | Schneidentoleranz: ± 0,01



scheda tecnica
technical data sheet
 données techniques
Technisches Datenblatt

Esecuzione speciale | diametri intermedi
Out of range | other sizes
 Exécution spéciale | diamètres intermédiaires
 Sonderausführungen | Zwischenabmessungen

Su richiesta
On request
 Sur demande
 Auf Anfrage

Applicazioni
Application groups
 Groupe d'emploi
 Anwendungsgruppen

I

Rivestimenti | Coatings | Revêtements | Beschichtungen

Rivestimenti <i>Coating</i> Revêtement <i>Beschichtung</i>	Micro hardness HV 0.05	Thickness (micron)	Friction coefficient	Max usage temp (C°)	Deposition temp	Colour
Omicron S-Tin	2.300	1 - 5	0.4	600°	480°	yellow gold
Omicron TiCN-G	3.000	1 - 4	0.2	400°	480°	grey
Omicron TiCN-B	3.000	1 - 5	0.2	400°	480°	bronze
Omicron AlTiSiN	3.600	1 - 5	0.7	850°	480°	dark grey
Omicron AluCroN	3.300	1 - 4	0.6	1000°	480°	grey violet
Omicron AluCroN-Pro	3.500	1 - 4	0.6	1100°	480°	grey violet
Omicron TXO	4.400	1 - 4	0.35	900°	480°	bronze
Omicron Diamond	8.000 10.000	0.009 0.01	0.02 0.10		900°	dark grey
Omicron T-DLC	1.800 2.600	2 - 4	0.1	350°	180°	black
Omicron ZrN	2.200	1 - 3	0.4	550°	480°	yellow
Omicron CrN high temperature 380°	2.200	1 - 5	0.5	700°	380°	light grey
Omicron CrN low temperature 150°	1.750	1 - 5	0.5	700°	150°	light grey
Omicron TBM Red Supreme	3.400 3.600	1 - 5	0.4	600°	450°	purple red

Note | *Notes* | Notes | *Notizen*

[illegible]

TUNIT®

UTENSILI IN METALLO DURO
SOLID CARBIDE TOOLS
OUTILS EN CARBURE
VHM-WERKZEUGE





TUNGSTENTOOLS ITALIA s.r.l.

Zona Industriale - Via Galileo Galilei 10
64013 CORROPOLI (Teramo) - Italy

Tel: (+39) **0861.839003** - **0861.83089**
fax: (+39) **0861.839004**

web: **www.tunit.it**

web: **www.tungstentools.com**

sales & customer care: **export@tunit.it**

ufficio vendite italia: **commerciale@tunit.it**

Registro imprese di Milano

C.F.: **10144690152**

P.I.: **IT10144690152**



UNI EN ISO 14001
UNI EN ISO 9001