TUNIT®

UTENSILI IN METALLO DURO • PCD
SOLID CARBIDE TOOLS • PCD
OUTILS EN CARWBURE • PCD
VHM-WERKZEUGE • PKD

Catalogo | *Catalog* | Catalogue | *Katalog* 2025

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 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, listinening 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 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.

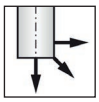
Tungstentools Italia avec sa marque TUNIT et avec 30 ans d'expérience, se présente aujourd'hui avec une gamme d'outils coupants en carbure standards et spéciaux.
Nous sommes à l'écoute des besoins de nos clients avec des gammes d'outils coupants économiques mais de grande précision et aussi avec une 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 élements de poinçonnage, cisaillage 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 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'ébavurage, 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 Inlandsmarktversorgung 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 erweitert.

TUNIT®

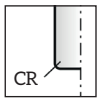
Legenda | *Symbols* | Légende | *Symbolverzeichnis*



Direzione di taglio
Cutting direction
Sens de coupe
Schnittrichtung

Lucidatura
Lapped
Polie
Geläppt

Norme interne
Company standard
Norme de l'entreprise
Firmenstandard



Raggio d'angolo
Corner radius
Rayon d'angle
Eckenradius

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

Rivestimenti | *Coatings* Revêtements | *Beschichtungen*

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

Materiale | *Material* | Matière | *Werkstoff*

A — **Acciai non legati**
Non-alloyed steels
Aciers non-alliés
Nichtlegierte Stähle

B — **Acciai alto legati**
Alloyed steels
Aciers alliés
Legierte Stähle

C — **Acciai resistenti alle temperature**
Heat resistant steels
Aciers resistant à la chaleur
Hitzbeständige Stähle

D — **Acciai inossidabili**
Stainless steels
Aciers inoxydables
Rostfreie Stähle

E — **Ghisa, Ghisa grigia, Ghisa malleabile**
Cast iron, Grey iron, Malleable iron
Fonte, Fonte malléable
Guss, Grauguss, Temperguss

F — **Leghe di Cr-Ni**
Cr-Ni alloys
Alliages Cr-Ni
Cr-Ni Legierungen

G — **Leghe di titanio**
Titan alloys
Alliages de titane
Titan Legierungen

H — **Alluminio, Leghe, Rame, Ottone, Bronzo**
Aluminium, Alloys, Copper, Brass, Bronze
Aluminium, Alliages, Cuivre, Laiton, Bronze
Aluminium, Legierungen, Kupfer, Messing, Bronze

I — **Materiali compositi, Fibra di carbonio, CFRP**
Composite materials, Carbon fibre, CFRP
Matériaux composites, Fibre de carbon, CFRP
Kompositmaterialien, Carbonfaser, CFRP

L — **Grafite**
Graphit
Graphite
Graphit

M — **Materie plastiche**
Plastic materials
Matière plastique
Kunststoffe

N — **Inconel 625-718**
Inconel 625-718
Inconel 625-718
Inconel 625-718

1 — **Cobalto-Cromo**
Cobalt-Chrome
Cobalt-Chrome
Kobalt-Chrom

2 — **Cobalto-Cromo Titanio**
Titanium Cobalt-Chrome
Cobalt-Chrome Titane
Kobalt-Chrom-Titan

3 — **PMMA**
PMMA
PMMA
PMMA

4 — **PEEK**
PEEK
PEEK
PEEK

5 — **Cera**
Wax
Cire
Wachs

6 — **Ossido di Zirconio**
Zirconium Oxido
Oxyde de Zirconium
Zirkonoxid

Indice | *Index* | Index | *Verzeichnis*

Punte | *Drills*
Forets | *Spiralbohrer*

		Materiale | *Material* Matiere | *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* Matiere | *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 | *Hochleistungs-Mikrobohrer*

		Materiale | *Material* Matiere | *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 drills***
Forets à haute performance à denture droite
Hochleistungsbohrer gerade genutet

	Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*	
THP 2.800 pag. 48	A B C	AT	
THP 2.820 pag. 49	A B C	AT	

Punte foro alesa | ***Drill reamer***
Forets aléseurs | *Bohrreibahlen*

	Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*	
THSR 2.920 H7 pag. 50	A B C F G H	AT	

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

	Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*	
TD L3 pag. 51	I M	U AC	
TD L4 pag. 52	H I M	U AC	

Frese | ***End mills***
Fraises | *Fräser*

	Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*	
TM 3.1 pag. 53	E H	U	
TM 3.1 M pag. 54	I M	U	
TM 3.2 pag. 55	A B D E H M	U AT TB	
TM 3.2 L pag. 56	A B D E H M	U AT TB	
TM 3.2 XL pag. 57	A B D E H M	U AT TB	
TM 3.2 R pag. 58	A B D E H M	U AT TB	
TM 3.2 RL pag. 59	A B D E H M	U AT TB	
TM 3.2 RXL pag. 60	A B D E H M	U AT TB	
TMM 3.2 pag. 61	A H M	U	
TMM 3.245 pag. 62	A H M	U	
TM 3.2 RW pag. 63	A B D E H M	U AT TB	
TM 3.2 W pag. 64	A B D E H M	U AT TB	
TM 3.3 W pag. 65	A B D E H M	U AT TB	
TM 3.3 pag. 66	A B D E H M	U AT TB	
TM 3.3 L pag. 67	A B D E H M	U AT TB	
TM 3.3 XL pag. 68	A B D E H M	U AT TB	
TM 3.345 pag. 69	A B H M	U AT TB	
TM 3.245 W pag. 70	A H M	U AT TB	
TM 3.360 pag. 71	A B	U AT TB	
TM 3.445 pag. 72	A H	U AT TB Zr	
TM 3.4 pag. 73	A B D E H M	U AT TB	
TM 3.4 L pag. 74	A B D E H M	U AT TB	
TM 3.4 XL pag. 75	A B D E H M	U AT TB	
TM 3.4 R pag. 76	A B D E H M	U AT TB	
TM 3.4 RL pag. 77	A B D E H M	U AT TB	
TM 3.51 pag. 78	A B C D E H	U AT TB	
TM 3.61 TF pag. 79	A B H	U AT TB	
TM 3.61 TL pag. 80	A B H	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

		Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*
	TM H.545 pag. 81	A B C E F	AC
	TM H.545 XL pag. 82	A B C E F	AC
	TM H.2 CR pag. 83	A B C G	AC
	TM H.2 CRL pag. 84	A B C G	AC
	TMM H.210 pag. 85	A B C D F G	AC
	TMM H.215 pag. 86	A B C D F G	AC
	TM H.4 TR pag. 87	A B C G	AC
	TM H.4 TLR pag. 88	A B C G	AC
	TM H.2 TR pag. 89	A B C G	AC
	TM H.2 R pag. 90	A B C F	AC
	TM H.2 RS pag. 91	A B C F	AC
	TM HAPCT pag. 92	C D H	AC
	TM HAPCK pag. 93	C D H	AC
	TM H.2 MR pag. 94	C D H	AC
	TM H.2 MMR pag. 95	C D H	AC

Frese HPC | ***End mills HPC***
Fraises HPC | *Fräser HPC*

		Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*
	TM 4T-HPC pag. 96	B C E F	AC
	TM 4T-SHPC pag. 97	B C E F	AC
	TM 4C-HPC pag. 98	B C E F	AC
	TM 4R-HPC pag. 99	B C E F	AC
	TM 4TK-HPC pag. 100	B C E F	AC
	TM 4CK-HPC pag. 101	B C E F	AC

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

		Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*
	TM TI 4 pag. 102	D F G	AC
	TM TI 4 CR pag. 103	D F G	AC
	TM TI 5 CR pag. 104	D F G	AC
	TM TI 6 pag. 105	F G N	AC
	TM TI 7 CR pag. 106	D F G	AC

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

		Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*
	TM HTPC-ST pag. 107	B F	AC
	TM HTPC-TI pag. 108	B F G	AC

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

		Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*
TM HGD	pag. 109	L	D
TM HGDL	pag. 110	L	D
TM HGDR	pag. 111	L	D
TM HGDRL	pag. 112	L	D

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

		Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*
TM 3T-HPC ALU	pag. 113	H M	Zr
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TM 3CK-HPC ALU	pag. 116	H M	Zr
TM H.24 ALU	pag. 117	H M	Zr
TM H.24 R ALU	pag. 118	H M	Zr
TM 3.24	pag. 119	H	U Zr

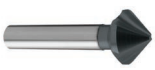
Frese per materiali compositi | *End mills for composite materials*
Fraises pour les matières composites
Fräser für Kompositmaterialien

		Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*
TMS 200	pag. 120	I M	U AC
TMS 200 M1	pag. 121	I M	U AC
TMS 200 M2	pag. 122	I M	U AC
TMS 200 M3	pag. 123	I M	U AC
TMS 206	pag. 124	I M	AC TB

Alesatori | *Reamers*
Alésoirs | *Reibahlen*

		Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*
TSR 4020	pag. 125	A B C D E F G H M	U
TSR 4020 C	pag. 127	A B C D E F G H M	U
TSR 4020 K	pag. 129	A B C D E F G H M	TG
TSR 4020 KR	pag. 130	A B C D E F G H M	TG

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



		Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*
TM SV 60°	pag. 131	A B C D E G H	AT
TM SV 90°	pag. 132	A B C D E G H	AT
TM SV 100°	pag. 133	A B C D E G H	AT
TM SV2 90°	pag. 134	A B E H M	U
TM SV3 90°	pag. 135	A B E H M	AT
TM SV4 90°	pag. 136	A B E H M	AT

Bulini | *Lip cutter*
Burins | *Gravierstichel*

		Materiale | *Material* Matière | *Werkstoff*	Rivestimenti | *Coating* Revêtement | *Beschichtung*
TM 5.80 L	pag. 137	A H M	U

Barrette | ***Grounded rods***
Barreaux | *Geschliffener Rundstab*

Materiale | *Material*
Matière | *Werkstoff*

Rivestimenti | *Coating*
Revêtement | *Beschichtung*

TM 5.90 pag. 138 — U

Programma dentale | ***Dental Programme***
Programme dentaire | *Dentalprogramm*

Materiale | *Material*
Matière | *Werkstoff*

Rivestimenti | *Coating*
Revêtement | *Beschichtung*

DTM H.2-CC pag. 140 — 1 — AT
DTM H.2C-CC pag. 141 — 1 — AT
DTM H.2R-CC pag. 142 — 1 — AT
DTM H.4C-CC pag. 143 — 1 — AT
DTM H.4R-CC pag. 144 — 1 — AT
DTM H.2-TCC pag. 145 — 2 — AT
DTM H.2R3-TCC pag. 146 — 2 — AC
DTM H.2R6-TCC pag. 147 — 2 — AC
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DTM H.2R-PPC pag. 149 — 3 4 5 — U
DTM H.2R3-Z pag. 150 — 6 — D
DTM H.2R6-Z pag. 151 — 6 — D

Programma PCD | ***PCD Programme***
PCD Programme | *PKD Programm*

Materiale | *Material*
Matière | *Werkstoff*

TP CD 3.2 pag. 153 — H I
TP CD 3.2 L pag. 154 — H I
TP CD 3.2 R pag. 155 — H I
TP CDT 3.2 pag. 156 — H I
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TP CD3 108 pag. 159 — H I
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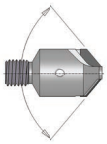
TP CD3 208 pag. 161 — H I

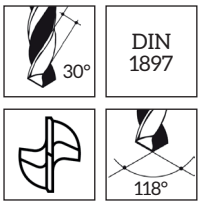


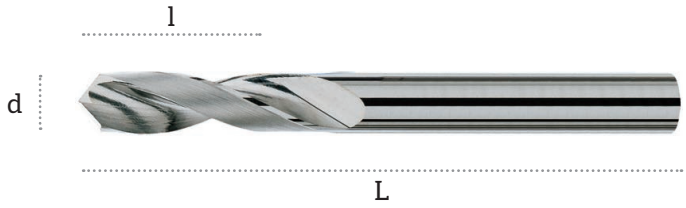
uncoated

S-TiN

TD 1.250

Punta elicoidale
Twist drill
Foret hélicoïdale
Spiralbohrer





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	
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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

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

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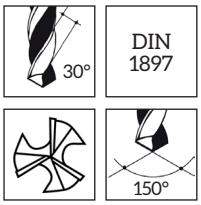
A B H M

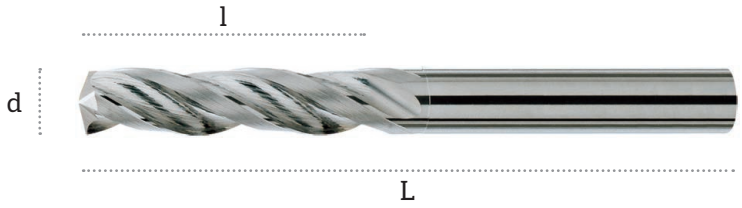
uncoated

S-TiN

TD 1.253

Punta elicoidale a 3 eliche
3-flutes twist drill
Foret hélicoïdale à 3 lèvres
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

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Beschichtung | *Sonderausführungen* | *Zwischenabmessungen*

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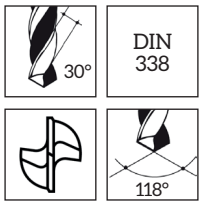
A B H M

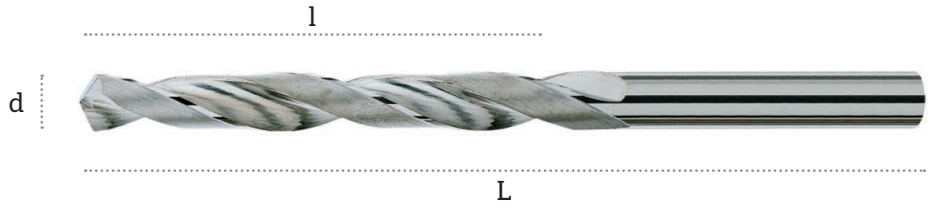
uncoated

S-TiN

TD 1.300



Punta elicoidale
Twist drill
Foret hélicoïdale
Spiralbohrer



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

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

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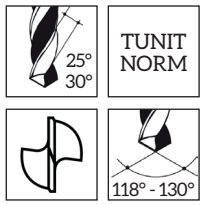
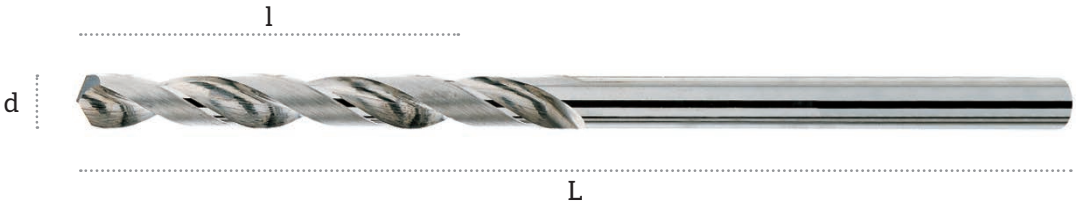
A B H M

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 hèlice 25° affûtage 118° | ≥ 2.00 mm hèlice 30° affûtage 130°
< 2.00 mm Drall 25° Spitzenwinkel 118° | ≥ 2.00 mm Drall 30° Spitzenwinkel 130°

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Revêtement | exécution spéciale | diamètres intermédiaires
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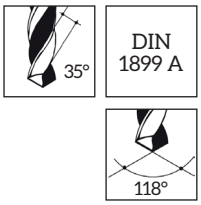
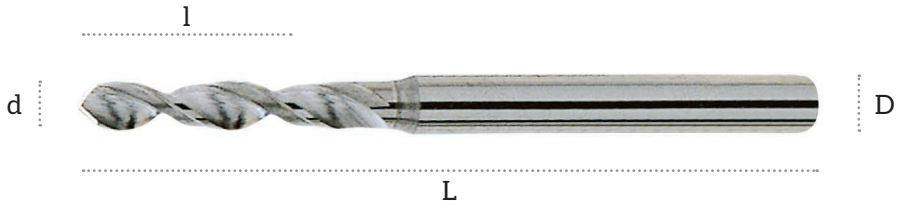
A B H M

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



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

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

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A B D H

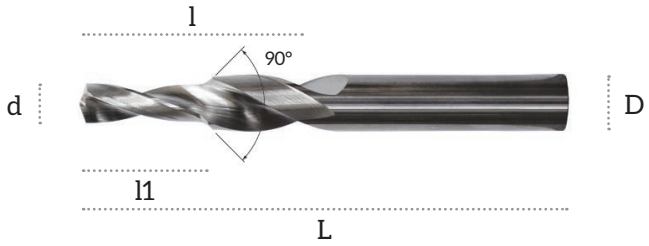
uncoated

AlTiSiN

TD GRAD

TUNIT NORM

Punta elicoidale a gradino
Step drill
Foret à étage
Stufenbohrer



	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

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Coating | ***out of range*** | ***other sizes***
Revêtement | exécution spéciale | diamètres intermédiaires
Beschichtung | *Sonderausführungen* | *Zwischenabmessungen*

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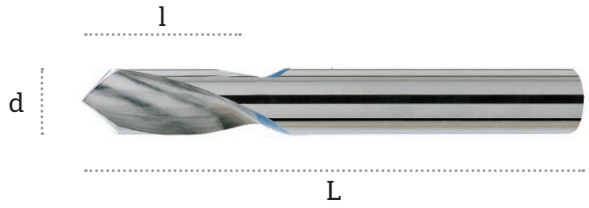
A B D H

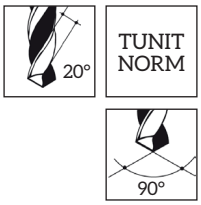
uncoated

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

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

Su richiesta
On request
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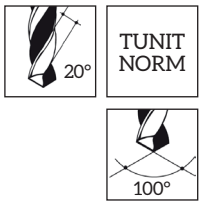
A B D E H

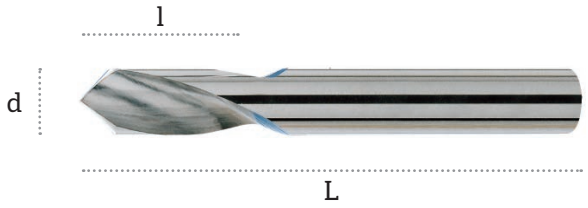
uncoated

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

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

Su richiesta
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Sur demande
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A B D E H

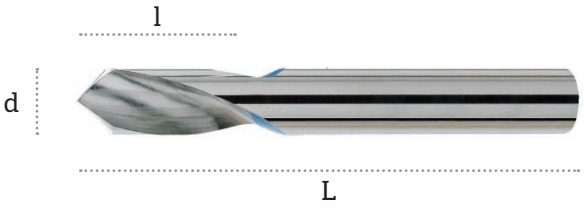
uncoated

AlTiSiN

TD 1.400

TUNIT NORM

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

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

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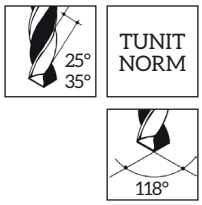
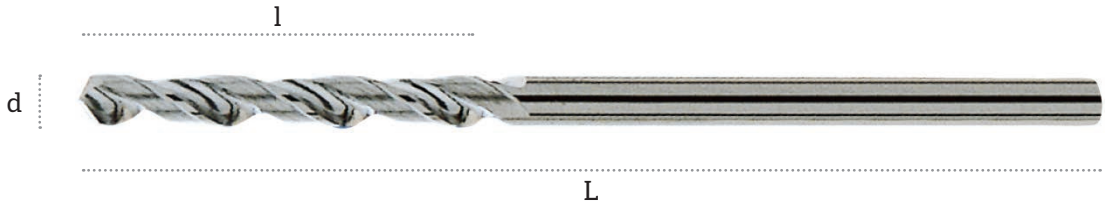
A B D E H

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-decimaux | < 2.00 mm 35° hélice
< 3.00 mm halbzehntel-Durchmesser | *< 2.00 mm 35° Spirale*

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

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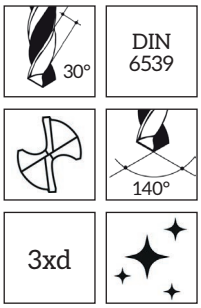
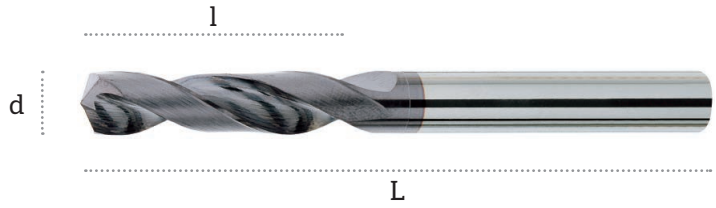
A B D H

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

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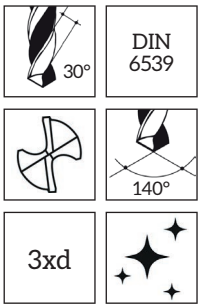
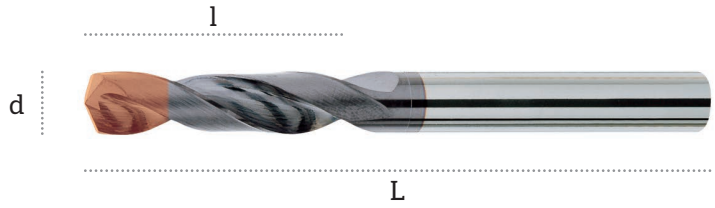
A B D E F H

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 multifunction
Hochleistungsbohrer mit Multifunktionsbeschichtung



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

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Out of range | ***other sizes***
Exécution spéciale | diamètres intermédiaires
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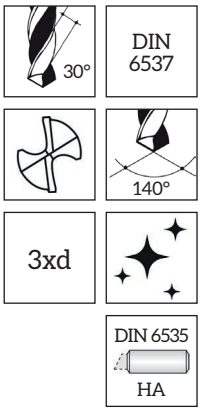
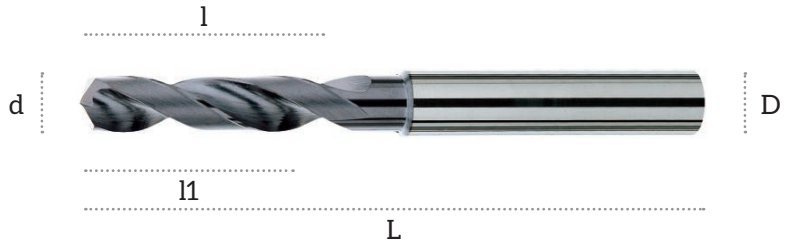
A B D E F H

AlTiSiN

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	AlTiSiN
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
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
6,10	8,00	79	34	24	THP2.910ST-0610
6,20	8,00	79	34	24	THP2.910ST-0620
6,30	8,00	79	34	24	THP2.910ST-0630
6,40	8,00	79	34	24	THP2.910ST-0640
6,50	8,00	79	34	24	THP2.910ST-0650

d m7	D h6	L	l	l1	AlTiSiN
6,60	8,00	79	34	24	THP2.910ST-0660
6,70	8,00	79	34	24	THP2.910ST-0670
6,80	8,00	79	34	24	THP2.910ST-0680
6,90	8,00	79	34	24	THP2.910ST-0690
7,00	8,00	79	34	24	THP2.910ST-0700
7,10	8,00	79	34	24	THP2.910ST-0710
7,20	8,00	79	34	24	THP2.910ST-0720
7,30	8,00	79	34	24	THP2.910ST-0730
7,40	8,00	79	34	24	THP2.910ST-0740
7,50	8,00	79	41	29	THP2.910ST-0750
7,60	8,00	79	41	29	THP2.910ST-0760
7,70	8,00	79	41	29	THP2.910ST-0770
7,80	8,00	79	41	29	THP2.910ST-0780
7,90	8,00	79	41	29	THP2.910ST-0790
8,00	8,00	79	41	29	THP2.910ST-0800
8,10	10,00	89	47	35	THP2.910ST-0810
8,20	10,00	89	47	35	THP2.910ST-0820
8,30	10,00	89	47	35	THP2.910ST-0830
8,40	10,00	89	47	35	THP2.910ST-0840
8,50	10,00	89	47	35	THP2.910ST-0850
8,60	10,00	89	47	35	THP2.910ST-0860
8,70	10,00	89	47	35	THP2.910ST-0870
8,80	10,00	89	47	35	THP2.910ST-0880
8,90	10,00	89	47	35	THP2.910ST-0890
9,00	10,00	89	47	35	THP2.910ST-0900
9,10	10,00	89	47	35	THP2.910ST-0910
9,20	10,00	89	47	35	THP2.910ST-0920
9,30	10,00	89	47	35	THP2.910ST-0930
9,40	10,00	89	47	35	THP2.910ST-0940
9,50	10,00	89	47	35	THP2.910ST-0950
9,60	10,00	89	47	35	THP2.910ST-0960
9,70	10,00	89	47	35	THP2.910ST-0970
9,80	10,00	89	47	35	THP2.910ST-0980
9,90	10,00	89	47	35	THP2.910ST-0990
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
11,20	12,00	102	55	40	THP2.910ST-1120
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
14,50	16,00	115	65	50	THP2.910ST-1450
15,00	16,00	115	65	50	THP2.910ST-1500
15,50	16,00	115	65	50	THP2.910ST-1550
16,00	16,00	115	65	50	THP2.910ST-1600

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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*

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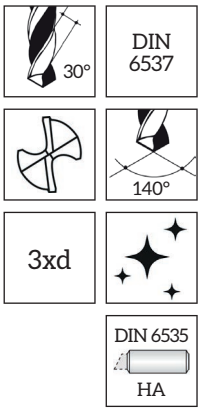
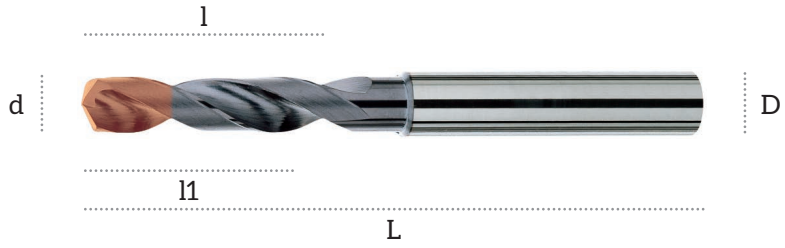
A B D E F H

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 multifunction
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
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
6,10	8,00	79	34	24	THP2.910ST-0610DC
6,20	8,00	79	34	24	THP2.910ST-0620DC
6,30	8,00	79	34	24	THP2.910ST-0630DC
6,40	8,00	79	34	24	THP2.910ST-0640DC
6,50	8,00	79	34	24	THP2.910ST-0650DC

d m7	D h6	L	l	l1	T2C Plus
6,60	8,00	79	34	24	THP2.910ST-0660DC
6,70	8,00	79	34	24	THP2.910ST-0670DC
6,80	8,00	79	34	24	THP2.910ST-0680DC
6,90	8,00	79	34	24	THP2.910ST-0690DC
7,00	8,00	79	34	24	THP2.910ST-0700DC
7,10	8,00	79	34	24	THP2.910ST-0710DC
7,20	8,00	79	34	24	THP2.910ST-0720DC
7,30	8,00	79	34	24	THP2.910ST-0730DC
7,40	8,00	79	34	24	THP2.910ST-0740DC
7,50	8,00	79	41	29	THP2.910ST-0750DC
7,60	8,00	79	41	29	THP2.910ST-0760DC
7,70	8,00	79	41	29	THP2.910ST-0770DC
7,80	8,00	79	41	29	THP2.910ST-0780DC
7,90	8,00	79	41	29	THP2.910ST-0790DC
8,00	8,00	79	41	29	THP2.910ST-0800DC
8,10	10,00	89	47	35	THP2.910ST-0810DC
8,20	10,00	89	47	35	THP2.910ST-0820DC
8,30	10,00	89	47	35	THP2.910ST-0830DC
8,40	10,00	89	47	35	THP2.910ST-0840DC
8,50	10,00	89	47	35	THP2.910ST-0850DC
8,60	10,00	89	47	35	THP2.910ST-0860DC
8,70	10,00	89	47	35	THP2.910ST-0870DC
8,80	10,00	89	47	35	THP2.910ST-0880DC
8,90	10,00	89	47	35	THP2.910ST-0890DC
9,00	10,00	89	47	35	THP2.910ST-0900DC
9,10	10,00	89	47	35	THP2.910ST-0910DC
9,20	10,00	89	47	35	THP2.910ST-0920DC
9,30	10,00	89	47	35	THP2.910ST-0930DC
9,40	10,00	89	47	35	THP2.910ST-0940DC
9,50	10,00	89	47	35	THP2.910ST-0950DC
9,60	10,00	89	47	35	THP2.910ST-0960DC
9,70	10,00	89	47	35	THP2.910ST-0970DC
9,80	10,00	89	47	35	THP2.910ST-0980DC
9,90	10,00	89	47	35	THP2.910ST-0990DC
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
11,20	12,00	102	55	40	THP2.910ST-1120DC
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
14,50	16,00	115	65	50	THP2.910ST-1450DC
15,00	16,00	115	65	50	THP2.910ST-1500DC
15,50	16,00	115	65	50	THP2.910ST-1550DC
16,00	16,00	115	65	50	THP2.910ST-1600DC

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Rivestimenti | esecuzione speciale | diametri intermedi | DIN 6535 HE
Coating | out of range | other sizes | DIN 6535 HE
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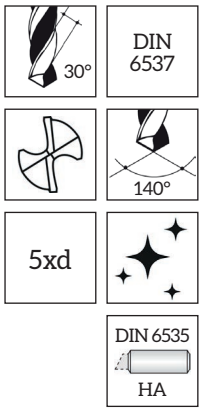
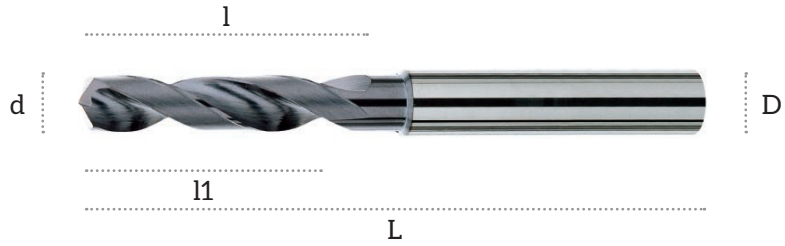
A B D E F H

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
3,00	6,00	66	28	23	THP2.950ST-0300
3,20	6,00	66	28	23	THP2.950ST-0320
3,30	6,00	66	28	23	THP2.950ST-0330
3,40	6,00	66	28	23	THP2.950ST-0340
3,50	6,00	66	28	23	THP2.950ST-0350
4,00	6,00	74	36	29	THP2.950ST-0400
4,20	6,00	74	36	29	THP2.950ST-0420
4,30	6,00	74	36	29	THP2.950ST-0430
4,50	6,00	74	36	29	THP2.950ST-0450
4,60	6,00	74	36	29	THP2.950ST-0460
4,70	6,00	74	36	29	THP2.950ST-0470
5,00	6,00	82	44	35	THP2.950ST-0500
5,10	6,00	82	44	35	THP2.950ST-0510
5,20	6,00	82	44	35	THP2.950ST-0520
5,30	6,00	82	44	35	THP2.950ST-0530
5,50	6,00	82	44	35	THP2.950ST-0550
5,70	6,00	82	44	35	THP2.950ST-0570
6,00	6,00	82	44	35	THP2.950ST-0600
6,20	8,00	91	53	43	THP2.950ST-0620
6,40	8,00	91	53	43	THP2.950ST-0640
6,50	8,00	91	53	43	THP2.950ST-0650
6,70	8,00	91	53	43	THP2.950ST-0670
6,80	8,00	91	53	43	THP2.950ST-0680
6,90	8,00	91	53	43	THP2.950ST-0690
7,00	8,00	91	53	43	THP2.950ST-0700
7,10	8,00	91	53	43	THP2.950ST-0710
7,20	8,00	91	53	43	THP2.950ST-0720
7,50	8,00	91	53	43	THP2.950ST-0750
7,70	8,00	91	53	43	THP2.950ST-0770
7,80	8,00	91	53	43	THP2.950ST-0780
7,90	8,00	91	53	43	THP2.950ST-0790

d m7	D h6	L	l	l1	AlTiSiN
8,00	8,00	91	53	43	THP2.950ST-0800
8,40	10,00	103	61	49	THP2.950ST-0840
8,50	10,00	103	61	49	THP2.950ST-0850
8,60	10,00	103	61	49	THP2.950ST-0860
8,70	10,00	103	61	49	THP2.950ST-0870
8,80	10,00	103	61	49	THP2.950ST-0880
8,90	10,00	103	61	49	THP2.950ST-0890
9,00	10,00	103	61	49	THP2.950ST-0900
9,50	10,00	103	61	49	THP2.950ST-0950
9,70	10,00	103	61	49	THP2.950ST-0970
9,80	10,00	103	61	49	THP2.950ST-0980
10,00	10,00	103	61	49	THP2.950ST-1000
10,20	12,00	118	71	56	THP2.950ST-1020
10,50	12,00	118	71	56	THP2.950ST-1050
11,00	12,00	118	71	56	THP2.950ST-1100
11,50	12,00	118	71	56	THP2.950ST-1150
12,00	12,00	118	71	56	THP2.950ST-1200
12,50	14,00	124	77	60	THP2.950ST-1250
13,00	14,00	124	77	60	THP2.950ST-1300
13,50	14,00	124	77	60	THP2.950ST-1350
14,00	14,00	124	77	60	THP2.950ST-1400
14,50	16,00	133	83	63	THP2.950ST-1450
15,00	16,00	133	83	63	THP2.950ST-1500
15,50	16,00	133	83	63	THP2.950ST-1550
16,00	16,00	133	83	63	THP2.950ST-1600
16,50	18,00	143	93	71	THP2.950ST-1650
17,00	18,00	143	93	71	THP2.950ST-1700
17,50	18,00	143	93	71	THP2.950ST-1750
18,00	18,00	143	93	71	THP2.950ST-1800
20,00	20,00	153	101	77	THP2.950ST-2000

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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*

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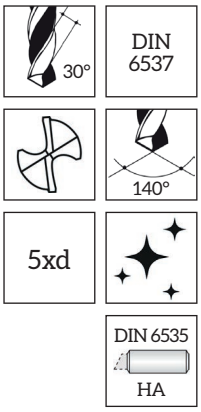
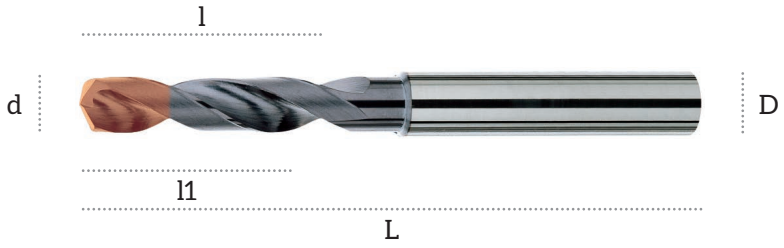
A B D E F H

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 multifunction
Hochleistungsbohrer mit Multifunktionsbeschichtung



d m7	D h6	L	l	l1	T2C Plus
3,00	6,00	66	28	23	THP2.950ST-0300DC
3,20	6,00	66	28	23	THP2.950ST-0320DC
3,30	6,00	66	28	23	THP2.950ST-0330DC
3,40	6,00	66	28	23	THP2.950ST-0340DC
3,50	6,00	66	28	23	THP2.950ST-0350DC
4,00	6,00	74	36	29	THP2.950ST-0400DC
4,20	6,00	74	36	29	THP2.950ST-0420DC
4,30	6,00	74	36	29	THP2.950ST-0430DC
4,50	6,00	74	36	29	THP2.950ST-0450DC
4,60	6,00	74	36	29	THP2.950ST-0460DC
4,70	6,00	74	36	29	THP2.950ST-0470DC
5,00	6,00	82	44	35	THP2.950ST-0500DC
5,10	6,00	82	44	35	THP2.950ST-0510DC
5,20	6,00	82	44	35	THP2.950ST-0520DC
5,30	6,00	82	44	35	THP2.950ST-0530DC
5,50	6,00	82	44	35	THP2.950ST-0550DC
5,70	6,00	82	44	35	THP2.950ST-0570DC
6,00	6,00	82	44	35	THP2.950ST-0600DC
6,20	8,00	91	53	43	THP2.950ST-0620DC
6,40	8,00	91	53	43	THP2.950ST-0640DC
6,50	8,00	91	53	43	THP2.950ST-0650DC
6,70	8,00	91	53	43	THP2.950ST-0670DC
6,80	8,00	91	53	43	THP2.950ST-0680DC
6,90	8,00	91	53	43	THP2.950ST-0690DC
7,00	8,00	91	53	43	THP2.950ST-0700DC
7,10	8,00	91	53	43	THP2.950ST-0710DC
7,20	8,00	91	53	43	THP2.950ST-0720DC
7,50	8,00	91	53	43	THP2.950ST-0750DC
7,70	8,00	91	53	43	THP2.950ST-0770DC
7,80	8,00	91	53	43	THP2.950ST-0780DC
7,90	8,00	91	53	43	THP2.950ST-0790DC

d m7	D h6	L	l	l1	T2C Plus
8,00	8,00	91	53	43	THP2.950ST-0800DC
8,40	10,00	103	61	49	THP2.950ST-0840DC
8,50	10,00	103	61	49	THP2.950ST-0850DC
8,60	10,00	103	61	49	THP2.950ST-0860DC
8,70	10,00	103	61	49	THP2.950ST-0870DC
8,80	10,00	103	61	49	THP2.950ST-0880DC
8,90	10,00	103	61	49	THP2.950ST-0890DC
9,00	10,00	103	61	49	THP2.950ST-0900DC
9,50	10,00	103	61	49	THP2.950ST-0950DC
9,70	10,00	103	61	49	THP2.950ST-0970DC
9,80	10,00	103	61	49	THP2.950ST-0980DC
10,00	10,00	103	61	49	THP2.950ST-1000DC
10,20	12,00	118	71	56	THP2.950ST-1020DC
10,50	12,00	118	71	56	THP2.950ST-1050DC
11,00	12,00	118	71	56	THP2.950ST-1100DC
11,50	12,00	118	71	56	THP2.950ST-1150DC
12,00	12,00	118	71	56	THP2.950ST-1200DC
12,50	14,00	124	77	60	THP2.950ST-1250DC
13,00	14,00	124	77	60	THP2.950ST-1300DC
13,50	14,00	124	77	60	THP2.950ST-1350DC
14,00	14,00	124	77	60	THP2.950ST-1400DC
14,50	16,00	133	83	63	THP2.950ST-1450DC
15,00	16,00	133	83	63	THP2.950ST-1500DC
15,50	16,00	133	83	63	THP2.950ST-1550DC
16,00	16,00	133	83	63	THP2.950ST-1600DC
16,50	18,00	143	93	71	THP2.950ST-1650DC
17,00	18,00	143	93	71	THP2.950ST-1700DC
17,50	18,00	143	93	71	THP2.950ST-1750DC
18,00	18,00	143	93	71	THP2.950ST-1800DC
20,00	20,00	153	101	77	THP2.950ST-2000DC

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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

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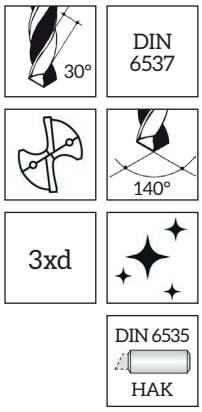
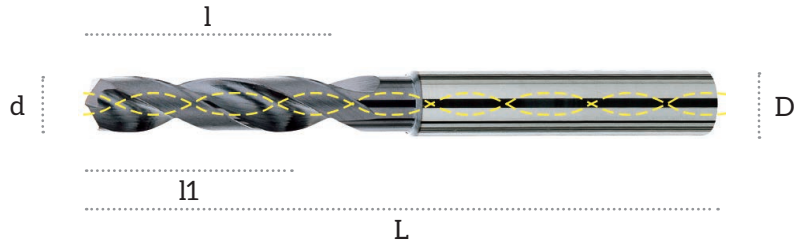
A B D E F H

AlTiSiN

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	AlTiSiN
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
3,40	6,00	62	20	14	THP2.923ST-0340
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
4,30	6,00	66	24	17	THP2.923ST-0430
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	AlTiSiN
9,20	10,00	89	47	35	THP2.923ST-0920
9,50	10,00	89	47	35	THP2.923ST-0950
9,70	10,00	89	47	35	THP2.923ST-0970
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
10,30	12,00	102	55	40	THP2.923ST-1030
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

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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*

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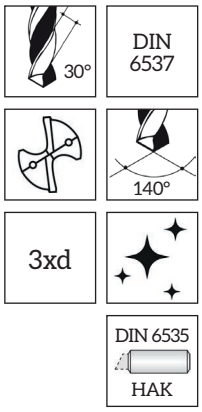
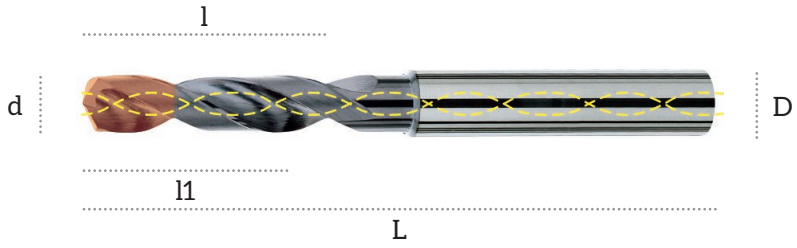
A B D E F H

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 multifunction
Hochleistungsbohrer mit Multifunktionsbeschichtung



d m7	D h6	L	l	l1	T2C Plus
3,00	6,00	62	20	14	THP2.923ST-0300DC
3,10	6,00	62	20	14	THP2.923ST-0310DC
3,30	6,00	62	20	14	THP2.923ST-0330DC
3,40	6,00	62	20	14	THP2.923ST-0340DC
3,50	6,00	62	20	14	THP2.923ST-0350DC
3,70	6,00	62	20	14	THP2.923ST-0370DC
3,80	6,00	66	24	17	THP2.923ST-0380DC
4,00	6,00	66	24	17	THP2.923ST-0400DC
4,20	6,00	66	24	17	THP2.923ST-0420DC
4,30	6,00	66	24	17	THP2.923ST-0430DC
4,50	6,00	66	24	17	THP2.923ST-0450DC
4,80	6,00	66	28	20	THP2.923ST-0480DC
5,00	6,00	66	28	20	THP2.923ST-0500DC
5,10	6,00	66	28	20	THP2.923ST-0510DC
5,20	6,00	66	28	20	THP2.923ST-0520DC
5,50	6,00	66	28	20	THP2.923ST-0550DC
5,80	6,00	66	28	20	THP2.923ST-0580DC
6,00	6,00	66	28	20	THP2.923ST-0600DC
6,30	8,00	79	34	24	THP2.923ST-0630DC
6,50	8,00	79	34	24	THP2.923ST-0650DC
6,80	8,00	79	34	24	THP2.923ST-0680DC
7,00	8,00	79	34	24	THP2.923ST-0700DC
7,50	8,00	79	41	29	THP2.923ST-0750DC
7,80	8,00	79	41	29	THP2.923ST-0780DC
8,00	8,00	79	41	29	THP2.923ST-0800DC
8,50	10,00	89	47	35	THP2.923ST-0850DC
8,80	10,00	89	47	35	THP2.923ST-0880DC
9,00	10,00	89	47	35	THP2.923ST-0900DC

d m7	D h6	L	l	l1	T2C Plus
9,20	10,00	89	47	35	THP2.923ST-0920DC
9,50	10,00	89	47	35	THP2.923ST-0950DC
9,70	10,00	89	47	35	THP2.923ST-0970DC
9,80	10,00	89	47	35	THP2.923ST-0980DC
10,00	10,00	89	47	35	THP2.923ST-1000DC
10,20	12,00	102	55	40	THP2.923ST-1020DC
10,30	12,00	102	55	40	THP2.923ST-1030DC
10,50	12,00	102	55	40	THP2.923ST-1050DC
10,80	12,00	102	55	40	THP2.923ST-1080DC
11,00	12,00	102	55	40	THP2.923ST-1100DC
11,50	12,00	102	55	40	THP2.923ST-1150DC
11,80	12,00	102	55	40	THP2.923ST-1180DC
12,00	12,00	102	55	40	THP2.923ST-1200DC
12,50	14,00	107	60	43	THP2.923ST-1250DC
12,80	14,00	107	60	43	THP2.923ST-1280DC
13,00	14,00	107	60	43	THP2.923ST-1300DC
13,50	14,00	107	60	43	THP2.923ST-1350DC
14,00	14,00	107	60	43	THP2.923ST-1400DC
14,50	16,00	115	65	45	THP2.923ST-1450DC
15,00	16,00	115	65	45	THP2.923ST-1500DC
15,50	16,00	115	65	45	THP2.923ST-1550DC
16,00	16,00	115	65	45	THP2.923ST-1600DC
16,50	18,00	123	73	51	THP2.923ST-1650DC
17,00	18,00	123	73	51	THP2.923ST-1700DC
17,50	18,00	123	73	51	THP2.923ST-1750DC
18,00	18,00	123	73	51	THP2.923ST-1800DC
20,00	20,00	131	79	55	THP2.923ST-2000DC

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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

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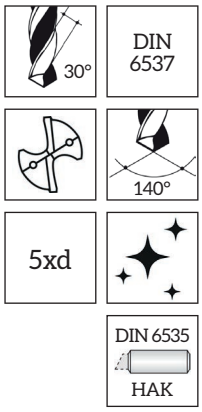
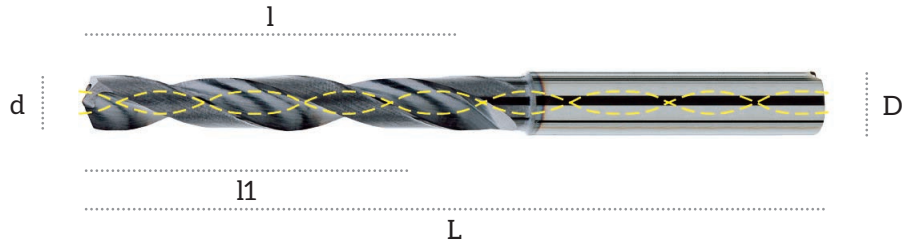
A B D E F H

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
3,20	6,00	66	28	23	THP2.920ST-0320
3,30	6,00	66	28	23	THP2.920ST-0330
3,40	6,00	66	28	23	THP2.920ST-0340
3,50	6,00	66	28	23	THP2.920ST-0350
3,60	6,00	66	28	23	THP2.920ST-0360
3,70	6,00	66	28	23	THP2.920ST-0370
3,80	6,00	74	36	29	THP2.920ST-0380
3,90	6,00	74	36	29	THP2.920ST-0390
4,00	6,00	74	36	29	THP2.920ST-0400
4,10	6,00	74	36	29	THP2.920ST-0410
4,20	6,00	74	36	29	THP2.920ST-0420
4,30	6,00	74	36	29	THP2.920ST-0430
4,40	6,00	74	36	29	THP2.920ST-0440
4,50	6,00	74	36	29	THP2.920ST-0450
4,60	6,00	74	36	29	THP2.920ST-0460
4,70	6,00	74	36	29	THP2.920ST-0470
4,80	6,00	82	44	35	THP2.920ST-0480
4,90	6,00	82	44	35	THP2.920ST-0490
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
5,30	6,00	82	44	35	THP2.920ST-0530
5,40	6,00	82	44	35	THP2.920ST-0540
5,50	6,00	82	44	35	THP2.920ST-0550
5,60	6,00	82	44	35	THP2.920ST-0560
5,70	6,00	82	44	35	THP2.920ST-0570
5,80	6,00	82	44	35	THP2.920ST-0580
5,90	6,00	82	44	35	THP2.920ST-0590
6,00	6,00	82	44	35	THP2.920ST-0600
6,10	8,00	91	53	43	THP2.920ST-0610
6,20	8,00	91	53	43	THP2.920ST-0620
6,30	8,00	91	53	43	THP2.920ST-0630
6,40	8,00	91	53	43	THP2.920ST-0640
6,50	8,00	91	53	43	THP2.920ST-0650

d m7	D h6	L	l	l1	AlTiSiN
6,60	8,00	91	53	43	THP2.920ST-0660
6,70	8,00	91	53	43	THP2.920ST-0670
6,80	8,00	91	53	43	THP2.920ST-0680
6,90	8,00	91	53	43	THP2.920ST-0690
7,00	8,00	91	53	43	THP2.920ST-0700
7,10	8,00	91	53	43	THP2.920ST-0710
7,20	8,00	91	53	43	THP2.920ST-0720
7,30	8,00	91	53	43	THP2.920ST-0730
7,40	8,00	91	53	43	THP2.920ST-0740
7,50	8,00	91	53	43	THP2.920ST-0750
7,60	8,00	91	53	43	THP2.920ST-0760
7,70	8,00	91	53	43	THP2.920ST-0770
7,80	8,00	91	53	43	THP2.920ST-0780
7,90	8,00	91	53	43	THP2.920ST-0790
8,00	8,00	91	53	43	THP2.920ST-0800
8,10	10,00	103	61	49	THP2.920ST-0810
8,20	10,00	103	61	49	THP2.920ST-0820
8,30	10,00	103	61	49	THP2.920ST-0830
8,40	10,00	103	61	49	THP2.920ST-0840
8,50	10,00	103	61	49	THP2.920ST-0850
8,60	10,00	103	61	49	THP2.920ST-0860
8,70	10,00	103	61	49	THP2.920ST-0870
8,80	10,00	103	61	49	THP2.920ST-0880
8,90	10,00	103	61	49	THP2.920ST-0890
9,00	10,00	103	61	49	THP2.920ST-0900
9,10	10,00	103	61	49	THP2.920ST-0910
9,20	10,00	103	61	49	THP2.920ST-0920
9,30	10,00	103	61	49	THP2.920ST-0920
9,40	10,00	103	61	49	THP2.920ST-0940
9,50	10,00	103	61	49	THP2.920ST-0950
9,60	10,00	103	61	49	THP2.920ST-0960
9,70	10,00	103	61	49	THP2.920ST-0970
9,80	10,00	103	61	49	THP2.920ST-0980
9,90	10,00	103	61	49	THP2.920ST-0990
10,00	10,00	103	61	49	THP2.920ST-1000
10,20	12,00	118	71	56	THP2.920ST-1020

d m7	D h6	L	l	l1	AlTiSiN
10,30	12,00	118	71	56	THP2.920ST-1030
10,40	12,00	118	71	56	THP2.920ST-1040
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
11,20	12,00	118	71	56	THP2.920ST-1120
11,30	12,00	118	71	56	THP2.920ST-1130
11,40	12,00	118	71	56	THP2.920ST-1140
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
12,20	14,00	124	77	60	THP2.920ST-1220
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
12,90	14,00	124	77	60	THP2.920ST-1290
13,00	14,00	124	77	60	THP2.920ST-1300
13,10	14,00	124	77	60	THP2.920ST-1310
13,30	14,00	124	77	60	THP2.920ST-1330
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
14,80	16,00	133	83	63	THP2.920ST-1480
15,00	16,00	133	83	63	THP2.920ST-1500
15,10	16,00	133	83	63	THP2.920ST-1510
15,30	16,00	133	83	63	THP2.920ST-1530
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
18,50	20,00	153	101	77	THP2.920ST-1850
19,00	20,00	153	101	77	THP2.920ST-1900
20,00	20,00	153	101	77	THP2.920ST-2000

scheda tecnica
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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*

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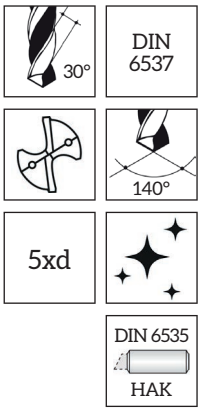
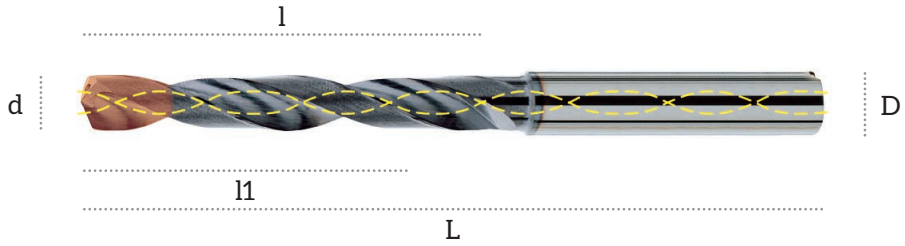
A B D E F H

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 multifunction
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
3,20	6,00	66	28	23	THP2.920ST-0320DC
3,30	6,00	66	28	23	THP2.920ST-0330DC
3,40	6,00	66	28	23	THP2.920ST-0340DC
3,50	6,00	66	28	23	THP2.920ST-0350DC
3,60	6,00	66	28	23	THP2.920ST-0360DC
3,70	6,00	66	28	23	THP2.920ST-0370DC
3,80	6,00	74	36	29	THP2.920ST-0380DC
3,90	6,00	74	36	29	THP2.920ST-0390DC
4,00	6,00	74	36	29	THP2.920ST-0400DC
4,10	6,00	74	36	29	THP2.920ST-0410DC
4,20	6,00	74	36	29	THP2.920ST-0420DC
4,30	6,00	74	36	29	THP2.920ST-0430DC
4,40	6,00	74	36	29	THP2.920ST-0440DC
4,50	6,00	74	36	29	THP2.920ST-0450DC
4,60	6,00	74	36	29	THP2.920ST-0460DC
4,70	6,00	74	36	29	THP2.920ST-0470DC
4,80	6,00	82	44	35	THP2.920ST-0480DC
4,90	6,00	82	44	35	THP2.920ST-0490DC
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
5,30	6,00	82	44	35	THP2.920ST-0530DC
5,40	6,00	82	44	35	THP2.920ST-0540DC
5,50	6,00	82	44	35	THP2.920ST-0550DC
5,60	6,00	82	44	35	THP2.920ST-0560DC
5,70	6,00	82	44	35	THP2.920ST-0570DC
5,80	6,00	82	44	35	THP2.920ST-0580DC
5,90	6,00	82	44	35	THP2.920ST-0590DC
6,00	6,00	82	44	35	THP2.920ST-0600DC
6,10	8,00	91	53	43	THP2.920ST-0610DC
6,20	8,00	91	53	43	THP2.920ST-0620DC
6,30	8,00	91	53	43	THP2.920ST-0630DC
6,40	8,00	91	53	43	THP2.920ST-0640DC
6,50	8,00	91	53	43	THP2.920ST-0650DC

d m7	D h6	L	l	l1	T2C Plus
6,60	8,00	91	53	43	THP2.920ST-0660DC
6,70	8,00	91	53	43	THP2.920ST-0670DC
6,80	8,00	91	53	43	THP2.920ST-0680DC
6,90	8,00	91	53	43	THP2.920ST-0690DC
7,00	8,00	91	53	43	THP2.920ST-0700DC
7,10	8,00	91	53	43	THP2.920ST-0710DC
7,20	8,00	91	53	43	THP2.920ST-0720DC
7,30	8,00	91	53	43	THP2.920ST-0730DC
7,40	8,00	91	53	43	THP2.920ST-0740DC
7,50	8,00	91	53	43	THP2.920ST-0750DC
7,60	8,00	91	53	43	THP2.920ST-0760DC
7,70	8,00	91	53	43	THP2.920ST-0770DC
7,80	8,00	91	53	43	THP2.920ST-0780DC
7,90	8,00	91	53	43	THP2.920ST-0790DC
8,00	8,00	91	53	43	THP2.920ST-0800DC
8,10	10,00	103	61	49	THP2.920ST-0810DC
8,20	10,00	103	61	49	THP2.920ST-0820DC
8,30	10,00	103	61	49	THP2.920ST-0830DC
8,40	10,00	103	61	49	THP2.920ST-08340DC
8,50	10,00	103	61	49	THP2.920ST-0850DC
8,60	10,00	103	61	49	THP2.920ST-0860DC
8,70	10,00	103	61	49	THP2.920ST-0870DC
8,80	10,00	103	61	49	THP2.920ST-0880DC
8,90	10,00	103	61	49	THP2.920ST-0890DC
9,00	10,00	103	61	49	THP2.920ST-0900DC
9,10	10,00	103	61	49	THP2.920ST-0910DC
9,20	10,00	103	61	49	THP2.920ST-0920DC
9,30	10,00	103	61	49	THP2.920ST-0920DC
9,40	10,00	103	61	49	THP2.920ST-0940DC
9,50	10,00	103	61	49	THP2.920ST-0950DC
9,60	10,00	103	61	49	THP2.920ST-0960DC
9,70	10,00	103	61	49	THP2.920ST-0970DC
9,80	10,00	103	61	49	THP2.920ST-0980DC
9,90	10,00	103	61	49	THP2.920ST-0990DC
10,00	10,00	103	61	49	THP2.920ST-1000DC
10,20	12,00	118	71	56	THP2.920ST-1020DC

d m7	D h6	L	l	l1	T2C Plus
10,30	12,00	118	71	56	THP2.920ST-1030DC
10,40	12,00	118	71	56	THP2.920ST-1040DC
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
11,20	12,00	118	71	56	THP2.920ST-1120DC
11,30	12,00	118	71	56	THP2.920ST-1130DC
11,40	12,00	118	71	56	THP2.920ST-1140DC
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
12,20	14,00	124	77	60	THP2.920ST-1220DC
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
12,90	14,00	124	77	60	THP2.920ST-1290DC
13,00	14,00	124	77	60	THP2.920ST-1300DC
13,10	14,00	124	77	60	THP2.920ST-1310DC
13,30	14,00	124	77	60	THP2.920ST-1330DC
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
14,80	16,00	133	83	63	THP2.920ST-1480DC
15,00	16,00	133	83	63	THP2.920ST-1500DC
15,10	16,00	133	83	63	THP2.920ST-1510DC
15,30	16,00	133	83	63	THP2.920ST-1530DC
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
18,50	20,00	153	101	77	THP2.920ST-1850DC
19,00	20,00	153	101	77	THP2.920ST-1900DC
20,00	20,00	153	101	77	THP2.920ST-2000DC

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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
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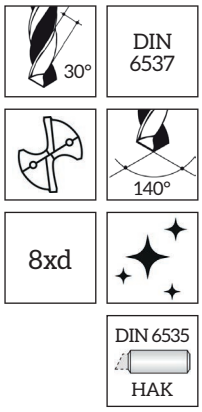
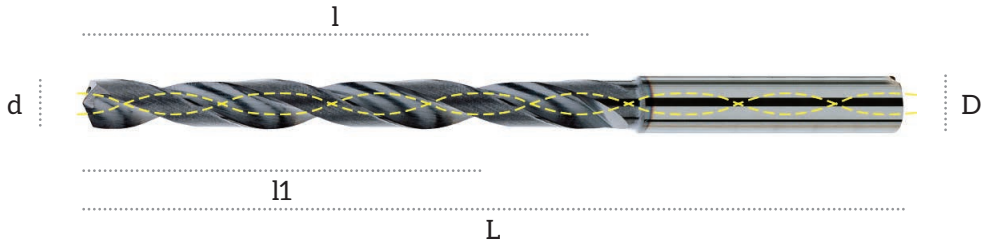
AlTiSiN

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	AlTiSiN
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	AlTiSiN
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

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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*

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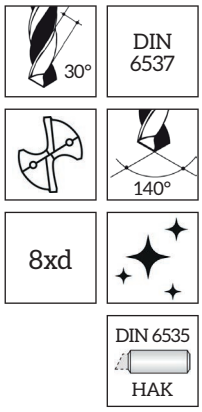
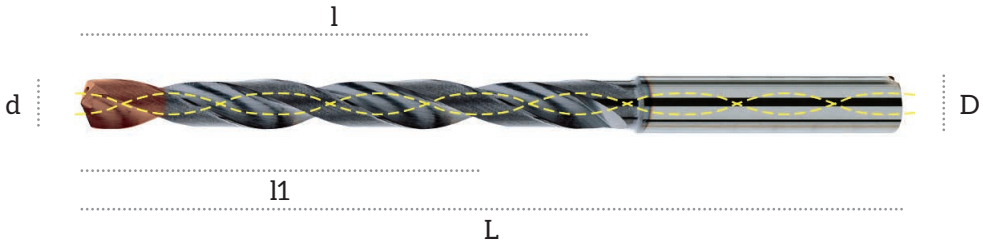
T2C Plus

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 multifunction
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

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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*

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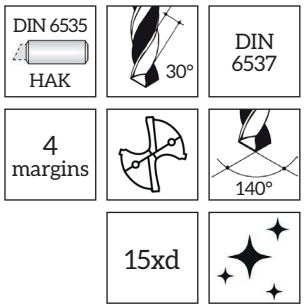
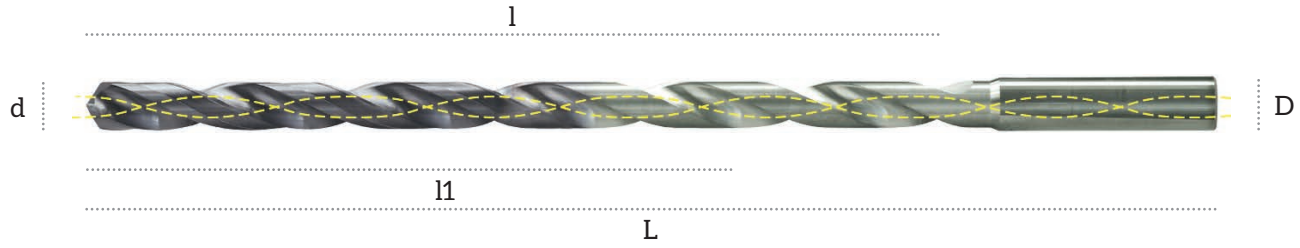
A B D E F H

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 h7	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

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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*

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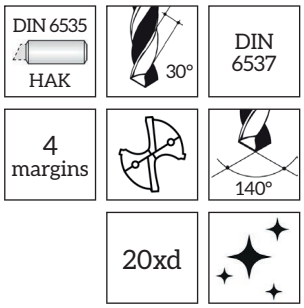
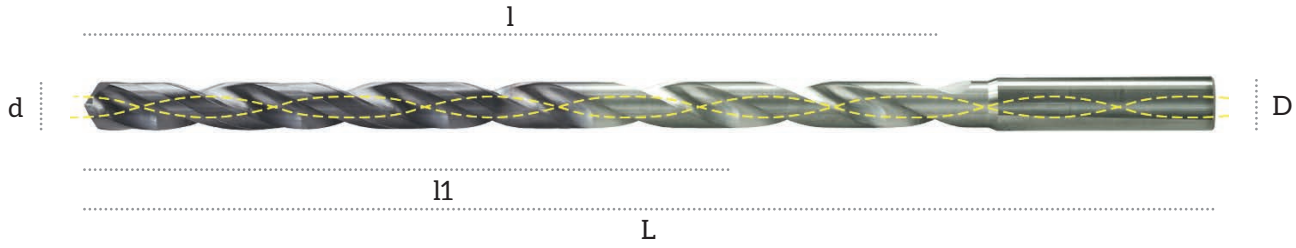
A B D E F H

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 h7	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

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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*

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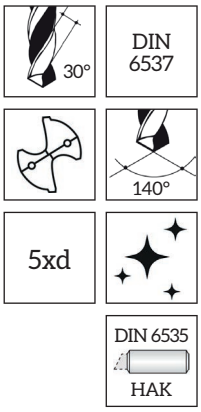
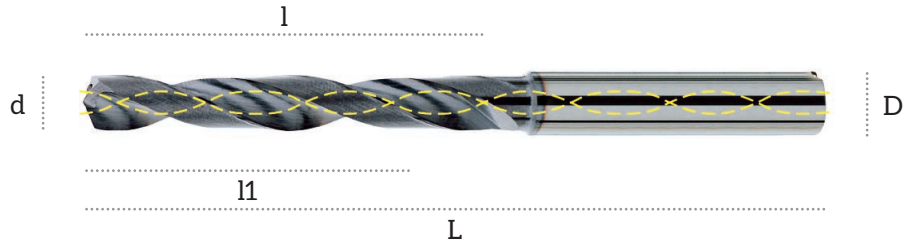
A B D E F H

AlTiSiN

THP 2.920 GG



Punte 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

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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*

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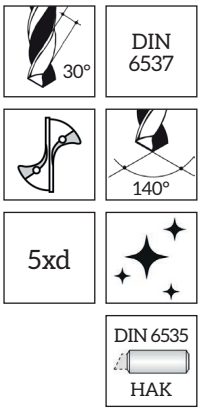
E

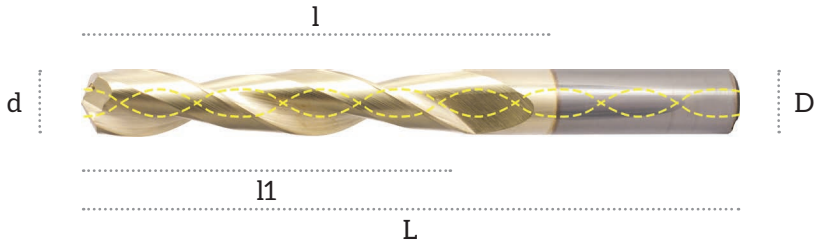
ZrN

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

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

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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*

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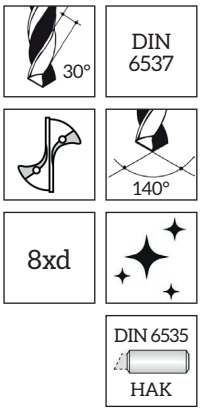
H M

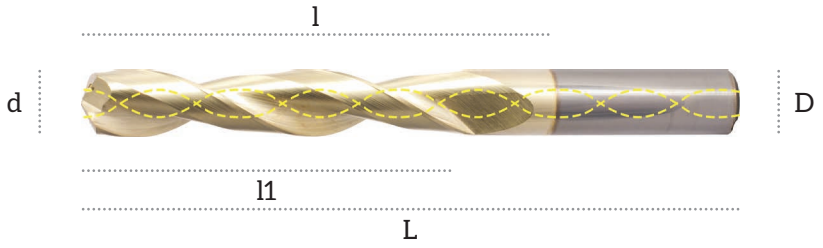
ZrN

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

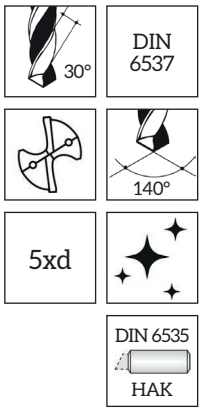


d m7	D h6	L	l	l1	ZrN	T-DLC
4.00	6.00	81	43	36	THP2.928AL-0400	THP2.928AL-0400DLC
4.20	6.00	81	43	36	THP2.928AL-0420	THP2.928AL-0420DLC
4.50	6.00	81	43	36	THP2.928AL-0450	THP2.928AL-0450DLC
4.80	6.00	95	57	48	THP2.928AL-0480	THP2.928AL-0480DLC
5.00	6.00	95	57	48	THP2.928AL-0500	THP2.928AL-0500DLC
5.10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

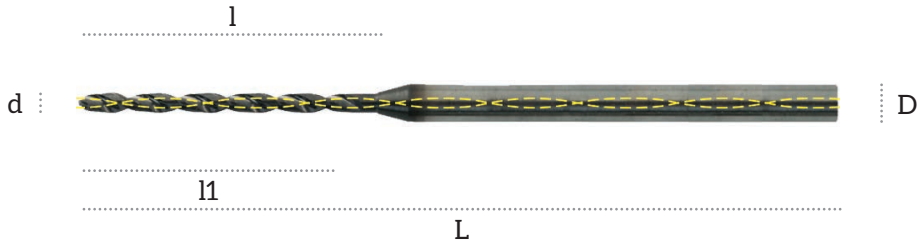
d m7	D h6	L	l	l1	ZrN	T-DLC
10.50	12.00	162	114	96	THP2.928AL-1050	THP2.928AL-1050DLC
10.80	12.00	162	114	96	THP2.928AL-1080	THP2.928AL-1080DLC
11.00	12.00	162	114	96	THP2.928AL-1100	THP2.928AL-1100DLC
11.50	12.00	162	114	96	THP2.928AL-1150	THP2.928AL-1150DLC
11.80	12.00	162	114	96	THP2.928AL-1180	THP2.928AL-1180DLC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

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

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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*

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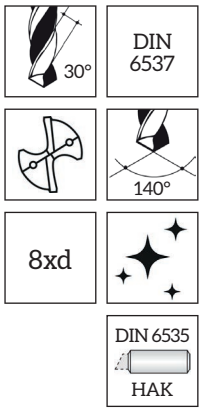
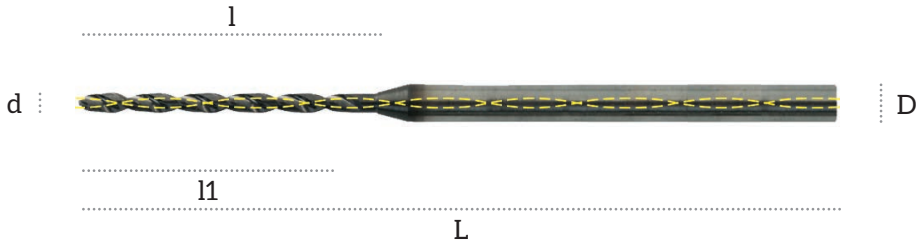
A B D E F H

AlTiSiN

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	AlTiSiN
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

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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*

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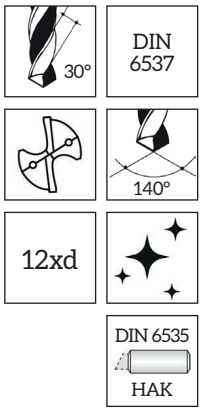
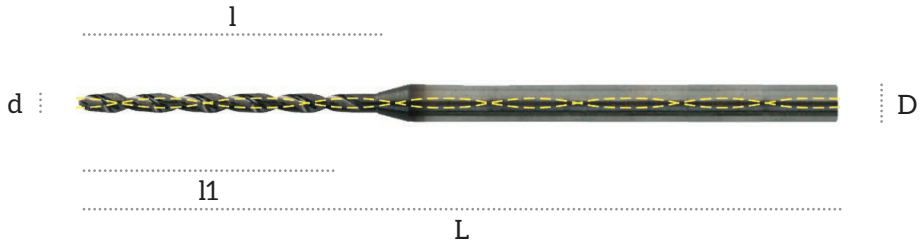
A B D E F H

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

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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*

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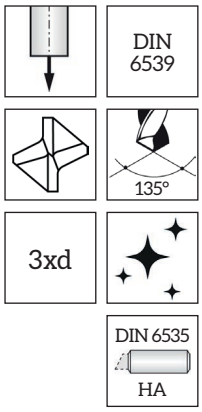
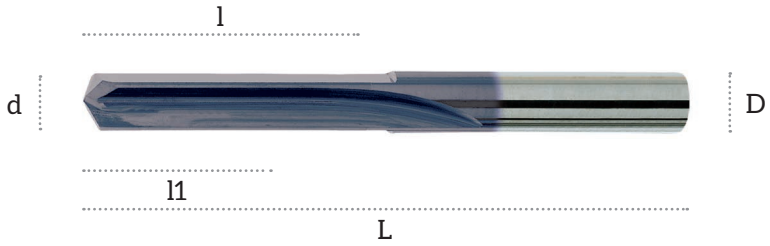
AlTiSiN

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	AlTiSiN
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

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

Su richiesta
On request
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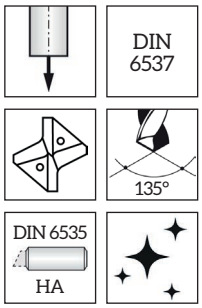
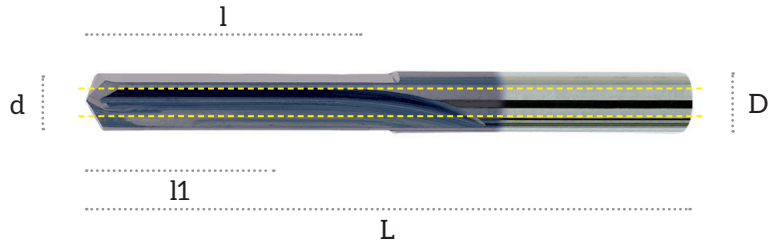
A B C

AlTiSiN

THP 2.820



Punte alte prestazioni denti dritti con fori di lubrificazione
High speed straight flute drill with interior cooling supplies
Forets à haute performance à denture droite avec trous d'huiles
Hochleistungsbohrer gerade genutet mit Innenkühlungen



3xd	5xd	8xd

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

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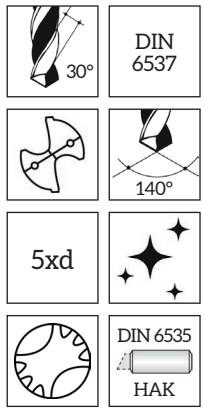
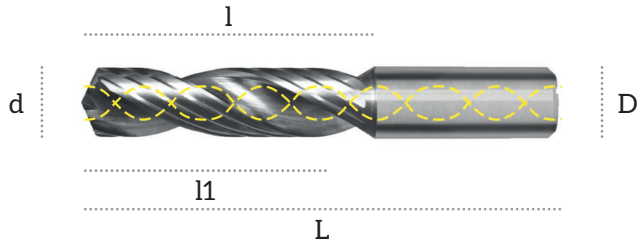
A B C

AlTiSiN

THSR 2.920 H7



Punta foro e alesa H7 elicoidale con fori di lubrificazione
Drill Reamer with internal cooling H7
Foret aléseur H7 arrosage interne
Bohrreibahlen H7 mit Innenkühlung



d H7	D h6	L	l	l1	AlTiSiN
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

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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
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A B C F G H

uncoated

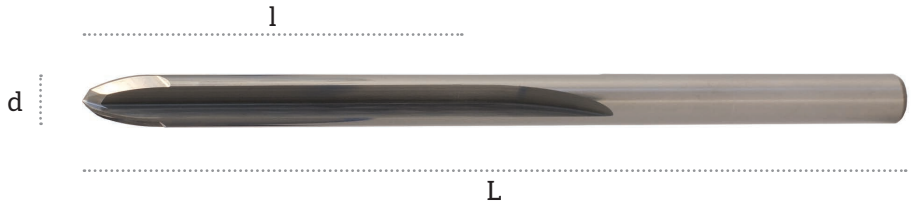
AluCroN

TD L3

Z=3

TUNIT NORM

Punta foro e alesa H7
Drill Reamer H7
Foret aléseur H7
Bohrreibahlen H7



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

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

Su richiesta
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I M

uncoated

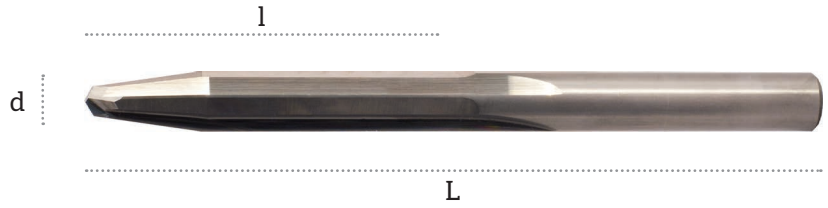
AluCroN

TD L4

Z=4

TUNIT NORM

Punta foro e alesa H7
Drill Reamer H7
Foret aléseur H7
Bohrreibahlen H7



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

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

Su richiesta
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H I M

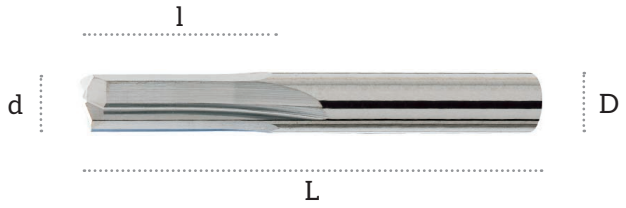
uncoated

TM 3.1

TUNIT NORM

DIN 6535 HA

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	l ap	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

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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
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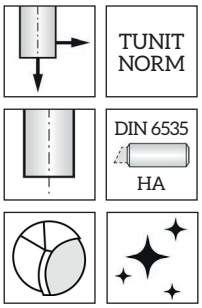
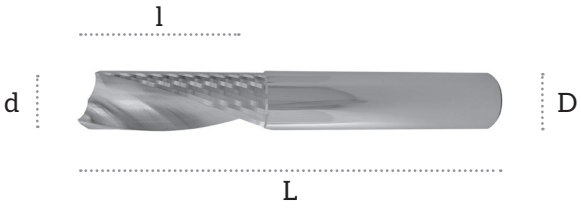
E H

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

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

Su richiesta
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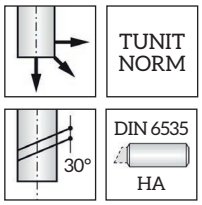
I M

uncoated

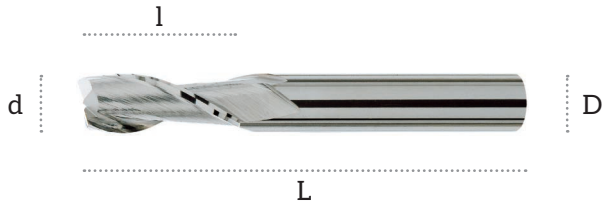
AlTiSiN

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

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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*

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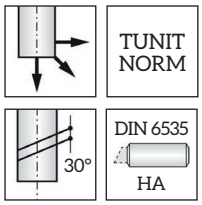
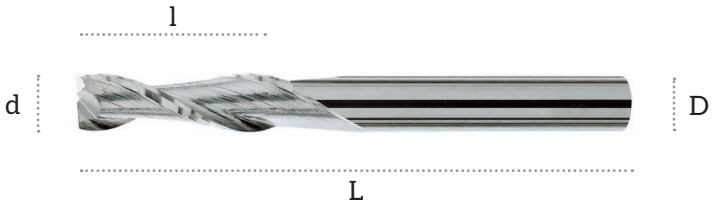
A B D E H M

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



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

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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*

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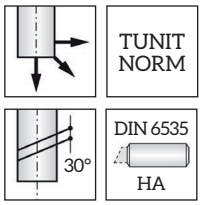
A B D E H M

uncoated

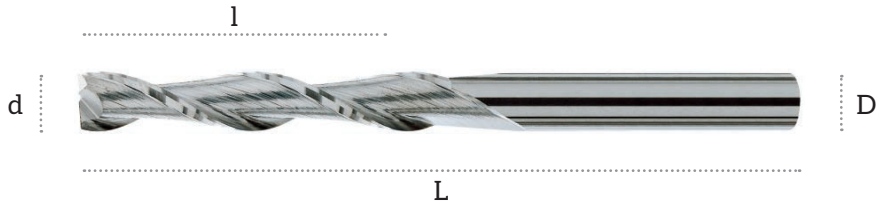
AlTiSiN

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	l ap	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

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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*

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A B D E H M

uncoated

AlTiSiN

TiCN-B

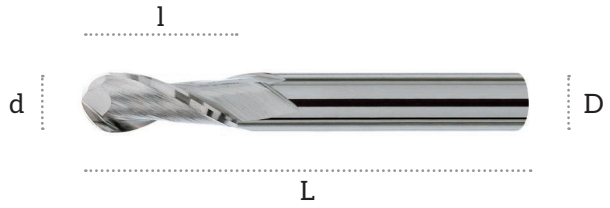
TM 3.2 R

TUNIT NORM

DIN 6535 HA

30°

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
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

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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*

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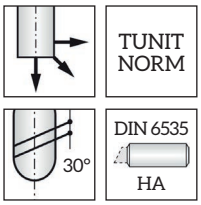
A B D E H M

uncoated

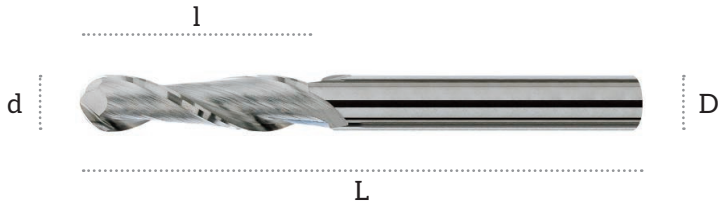
AlTiSiN

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

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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*

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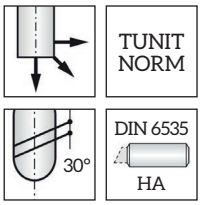
A **B** **D** **E** **H** **M**

uncoated

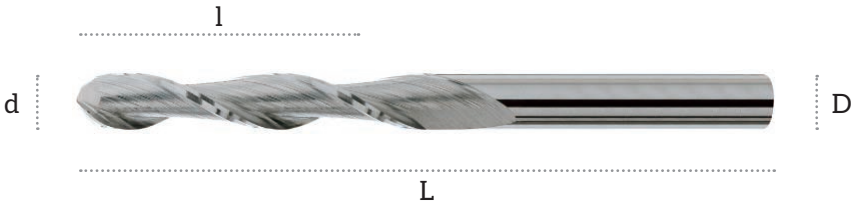
AlTiSiN

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



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

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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*

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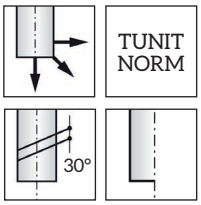
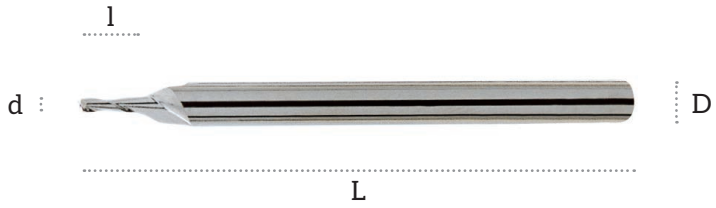
A B D E H M

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	l ap	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

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

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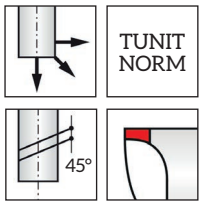
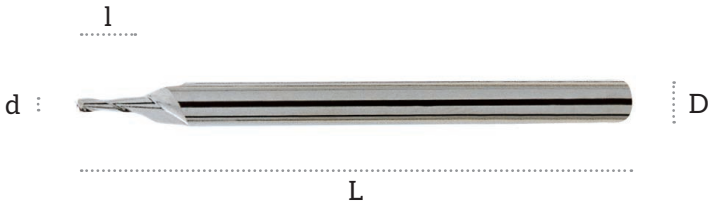
A H M

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

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

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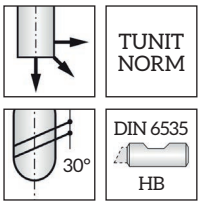
A H M

uncoated

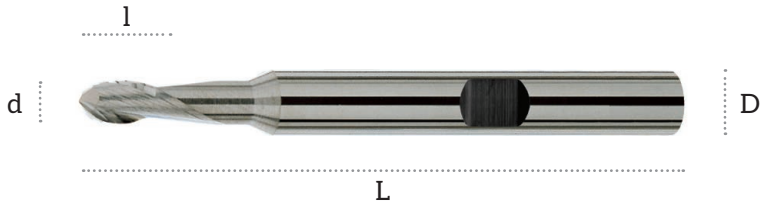
AlTiSiN

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



d h9	D h6	L	l ap	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

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

Su richiesta
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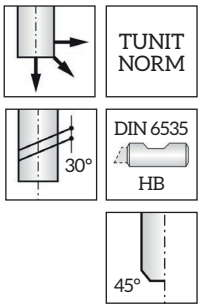
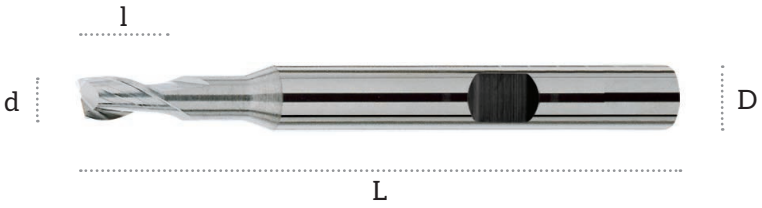
A B D E H M

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

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

Su richiesta
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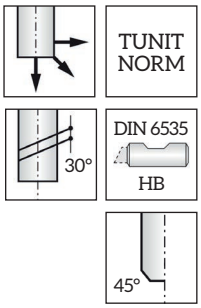
A B D E H M

uncoated

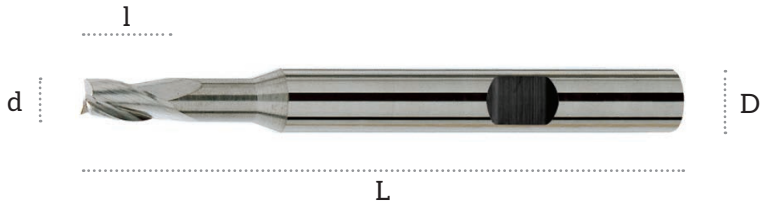
AlTiSiN

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	l ap	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

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Out of range | ***other sizes***
Exécution spéciale | diamètres intermédiaires
Sonderausführungen | *Zwischenabmessungen*

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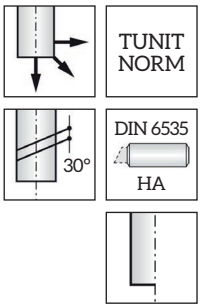
A B D E H M

uncoated

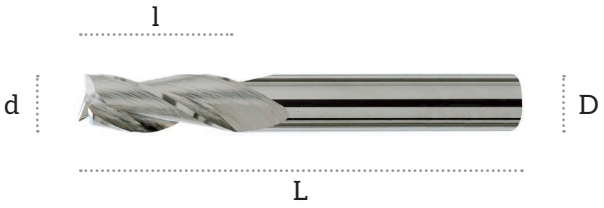
AlTiSiN

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



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

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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*

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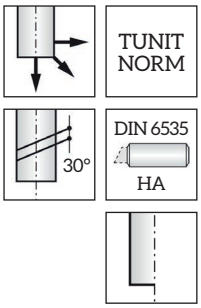
A B D E H M

uncoated

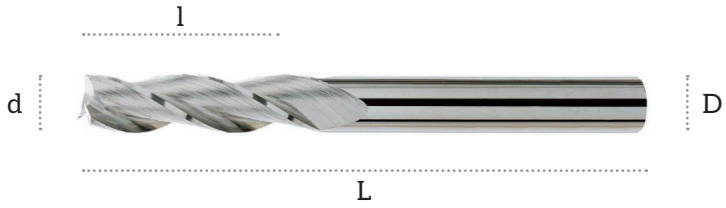
AlTiSiN

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

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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*

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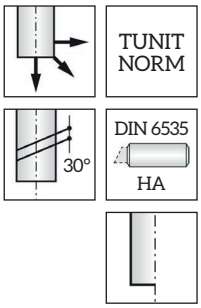
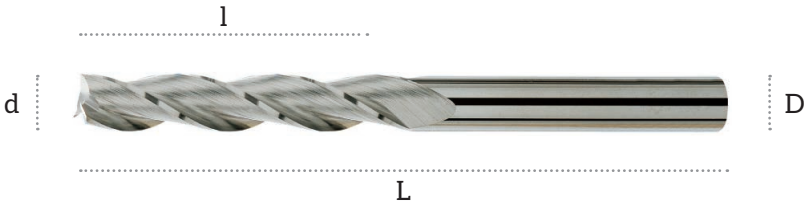
A B D E H M

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 Zentrumschnitt



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

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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*

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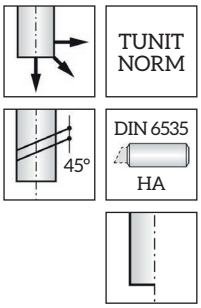
A B D E H M

uncoated

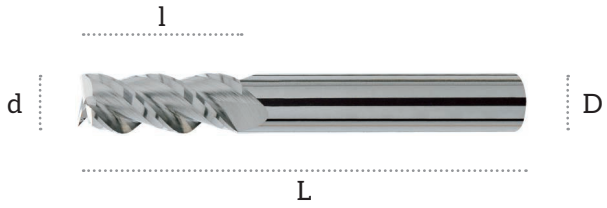
AlTiSiN

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

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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*

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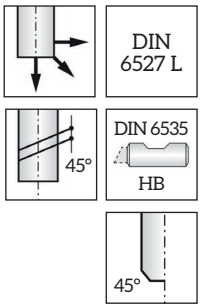
A **B** **H** **M**

uncoated

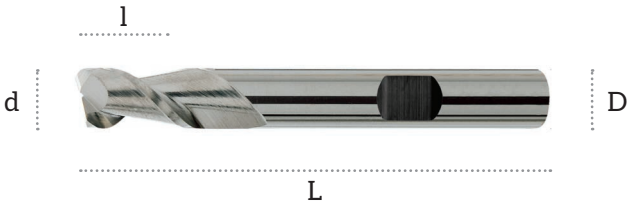
AlTiSiN

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



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

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

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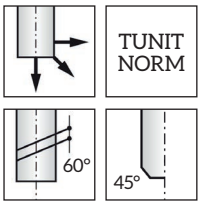
A H M

uncoated

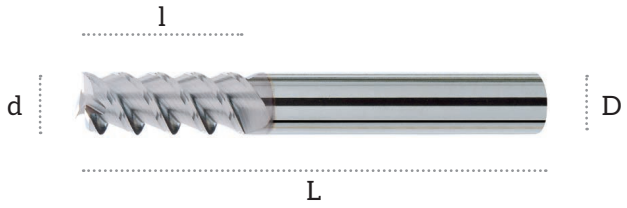
AlTiSiN

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

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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*

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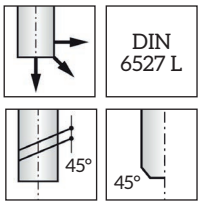
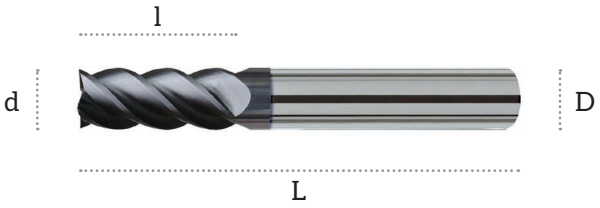
A B

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	l ap	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

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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*

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A H

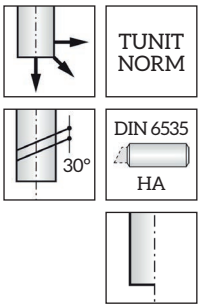
uncoated

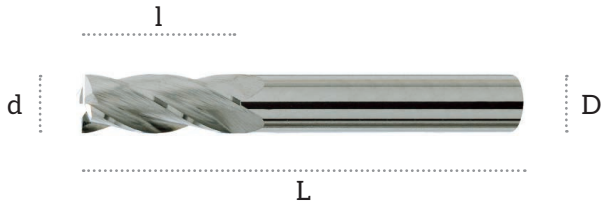
AlTiSiN

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

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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*

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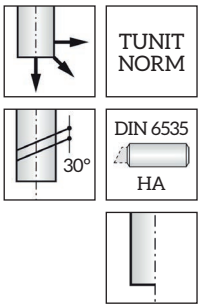
A B D E H M

uncoated

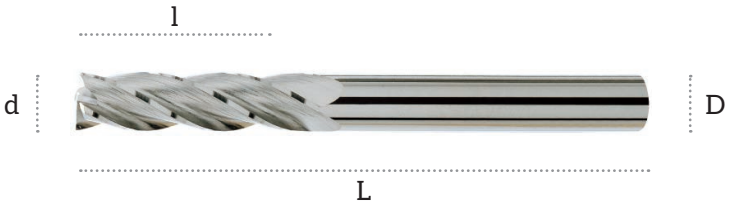
AlTiSiN

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 Zentrumschnitt



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

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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*

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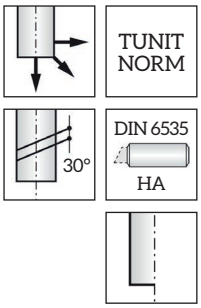
A B D E H M

uncoated

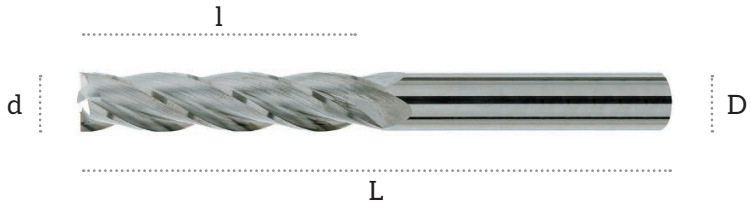
AlTiSiN

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

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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*

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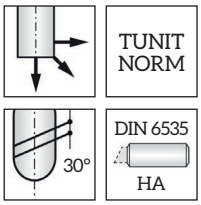
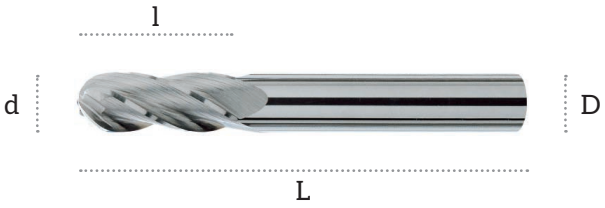
A B D E H M

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



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

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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*

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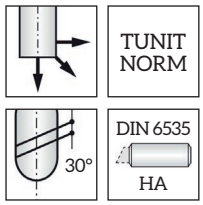
A B D E H M

uncoated

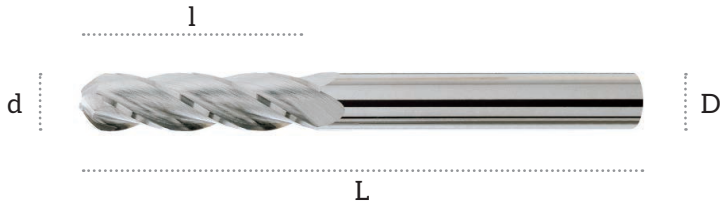
AlTiSiN

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

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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*

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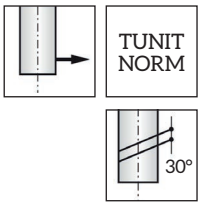
A B D E H M

uncoated

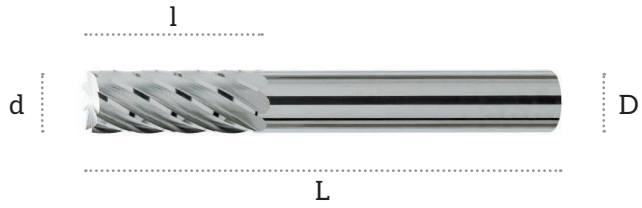
AlTiSiN

TiCN-B

TM 3.51



Fresa elicoidale multidenti
Twist end mill multi-cut
Fraise hélicoïdale multidents
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

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

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A B C D E H

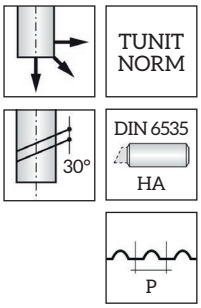
uncoated

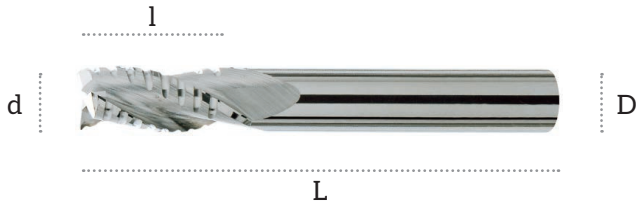
AlTiSiN

TiCN-B

TM 3.61 TF

Fresa con rompitruciolo dentatura piatta
Roughing end mill fine profile
Fraise ébauche à brise copeaux denture fine
Schruppfräser 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

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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
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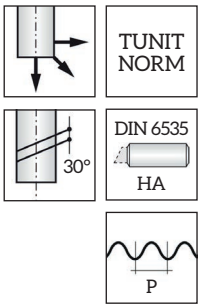
A B H

uncoated

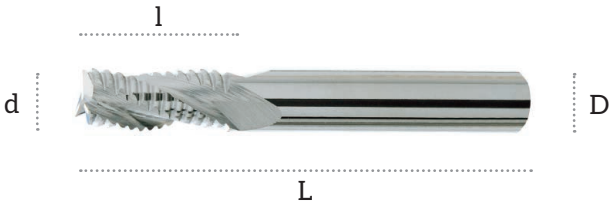
AlTiSiN

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-Verzahnung



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

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Out of range | ***other sizes*** | ***DIN 6535 HB***
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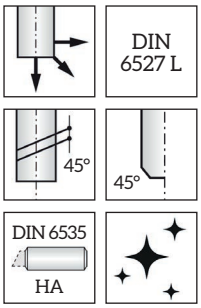
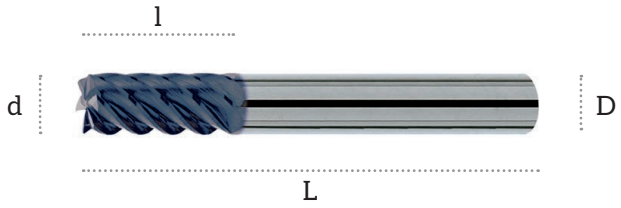
A B H

AluCroN

TM H.545



Fresa cilindrica multidenti per finiture ad alta velocità
High speed cutting end mill for finishing milling multi-cut, front rake angle
Fraise HSC fraisage à finir Multidents-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

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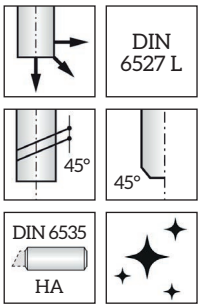
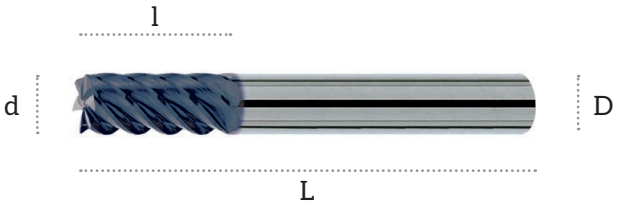
A B C E F

AluCroN

TM H.545 XL



Fresa cilindrica multidenti per finiture ad alta velocità
High speed cutting end mill for finishing milling multi-cut front rake angle
Fraise HSC fraisage à finir Multidents 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

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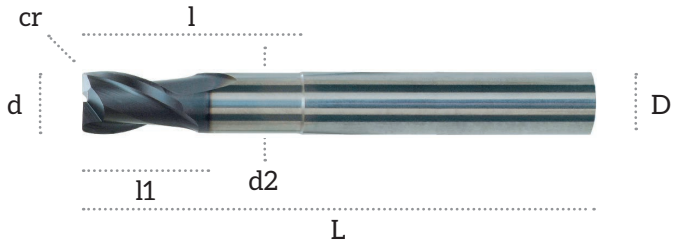
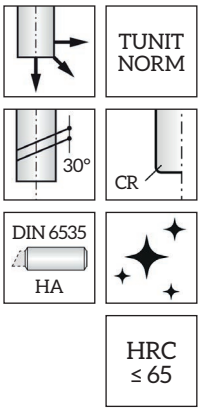
A B C E F

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

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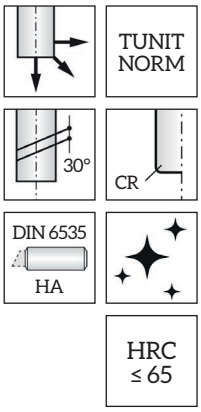
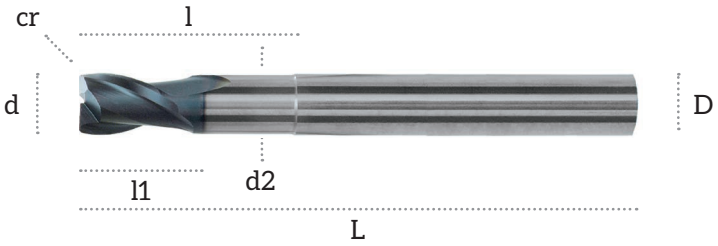
AluCroN

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

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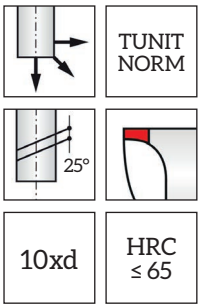
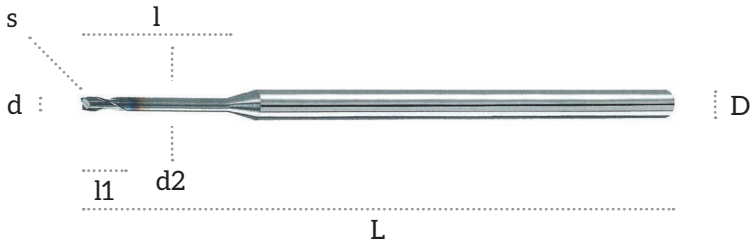
A B C G

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

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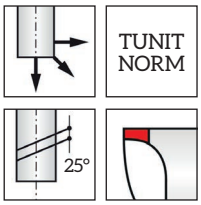
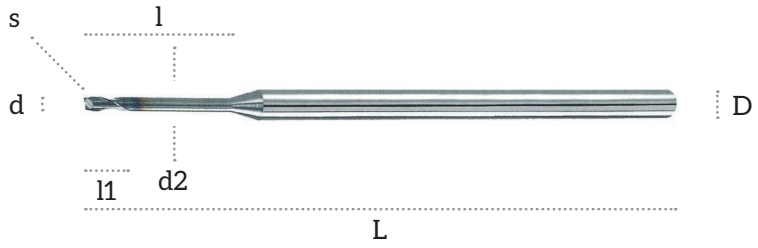
A B C D F G

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

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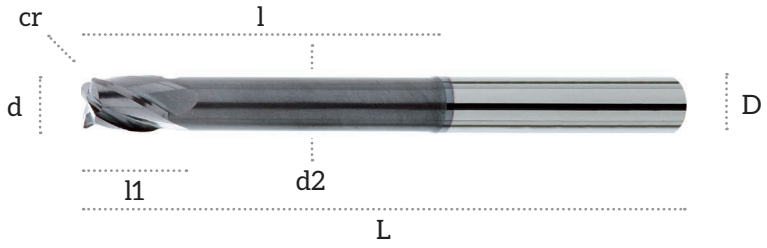
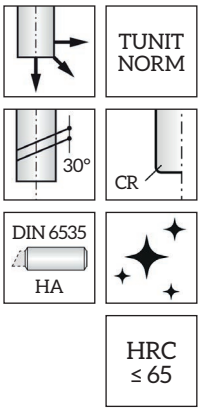
AluCroN

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

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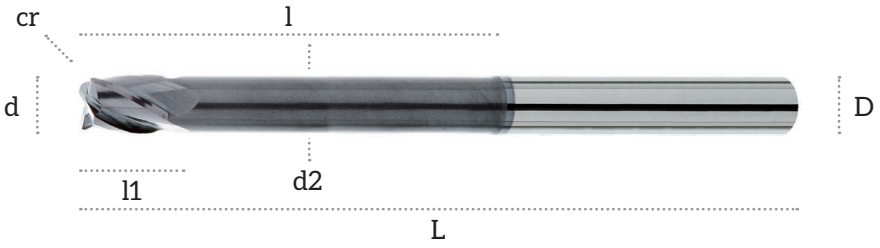
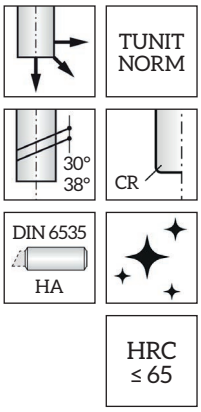
AluCroN

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

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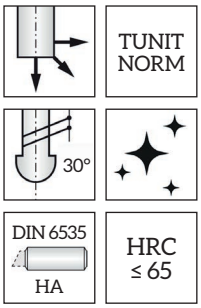
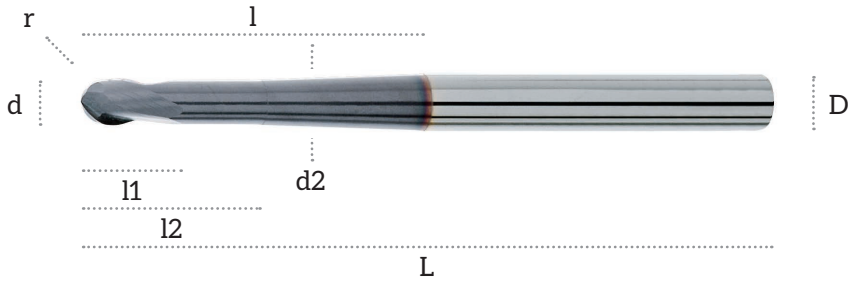
AluCroN

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

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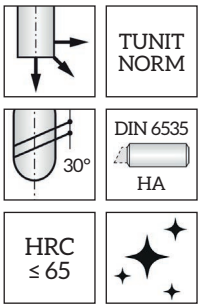
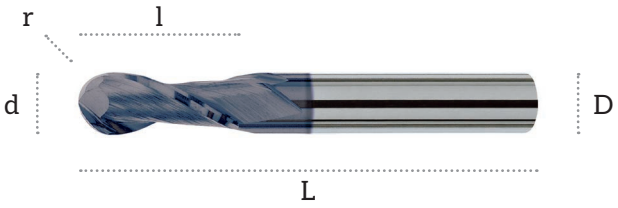
AluCroN

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



d h9	D h6	r	L	l ap	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

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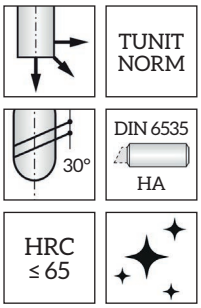
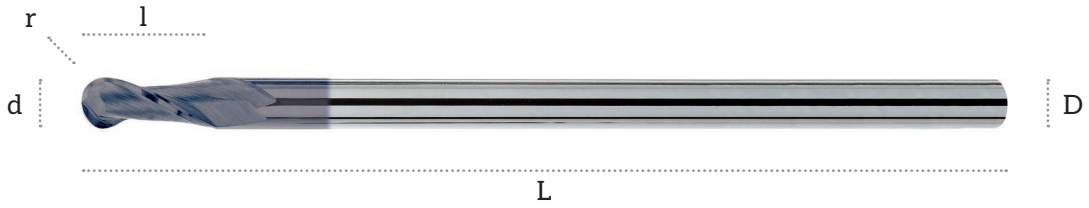
AluCroN

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

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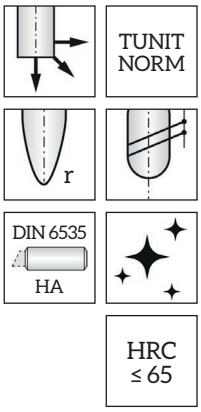
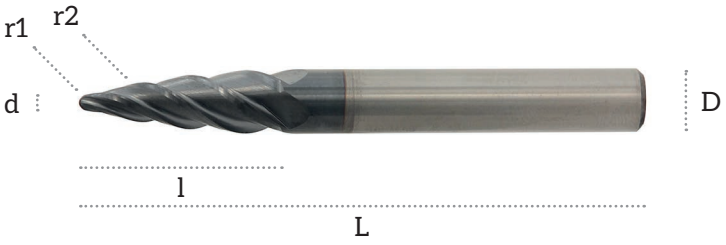
AluCroN

TM HAPCT

Fresa tangenziale a segmento curvo 4 taglienti
Barrel milling cutter tangential form 4 flutes
Fraises tonneau à forme tangentielle 4 lèvres
Bogensegmentfräser tangentiale 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

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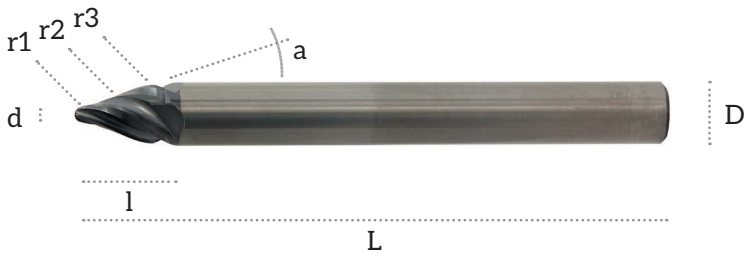
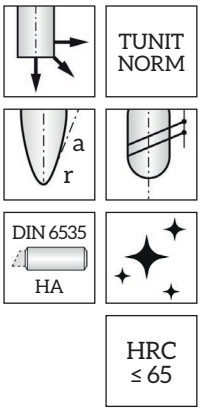
C D H

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

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C D H

AluCroN

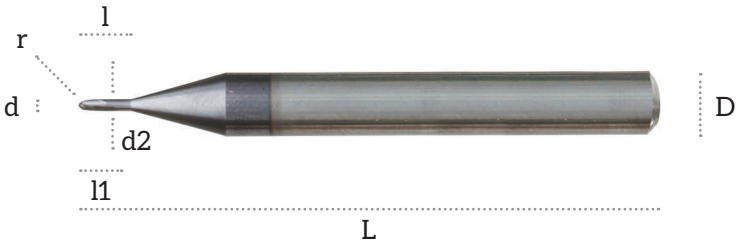
TM H.2 MR

TUNIT NORM

DIN 6535 HA

HRC ≤ 65

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



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

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C D H

AluCroN

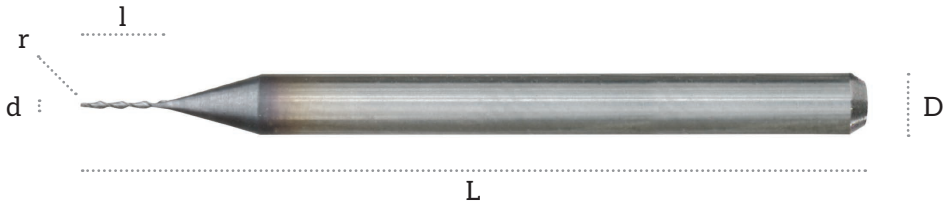
TM H.2 MMR

TUNIT NORM

30°

HRC ≤ 65

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



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

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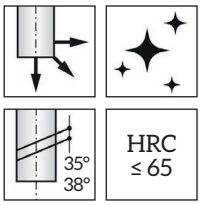
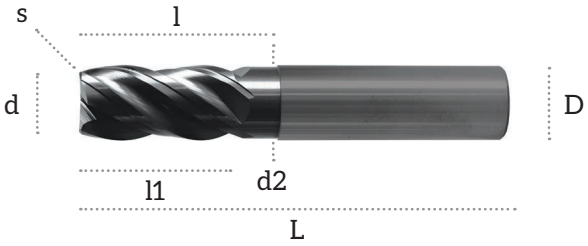
C D H

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

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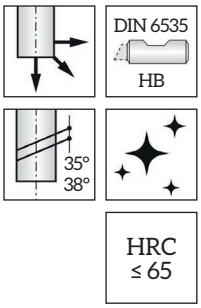
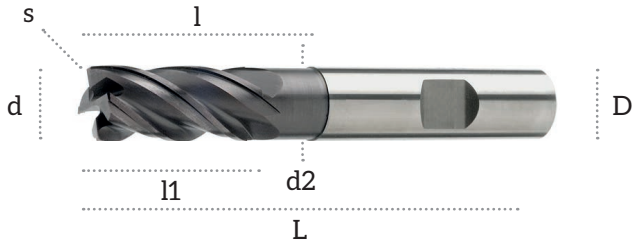
B C E F

AluCroN

TM 4T-SHPC



Fresa SHPC divisione irregolare 4 taglienti
Unequal division SHPC end mill 4 flutes
Fraise division irrégulière SHPC 4 lèvres
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

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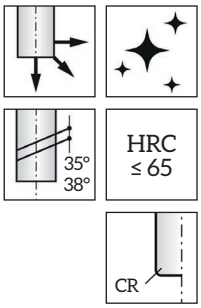
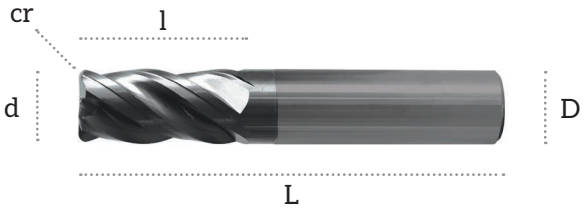


Fresa torica HPC divisione irregolare 4 taglienti
Unequal division HPC torodial end mill 4 flutes
Fraise torique HPC division irrégulière 4 lèvres
VHM-Torusfräser ungleiche Teilung 4 Schneiden



d h8	D h6	cr	L	l ap	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

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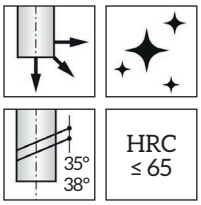
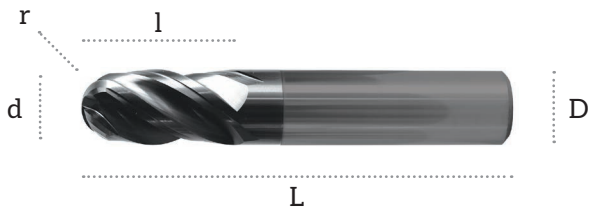
TM 4R-HPC



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

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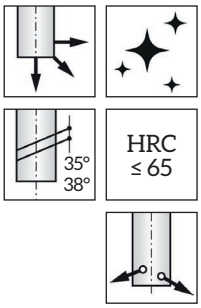
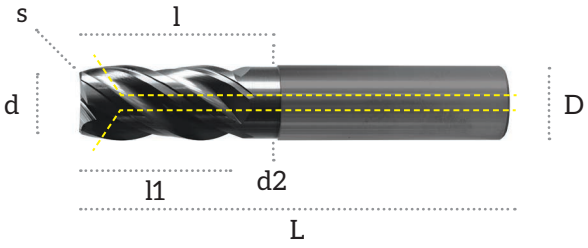
AluCroN

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

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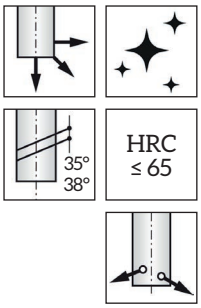
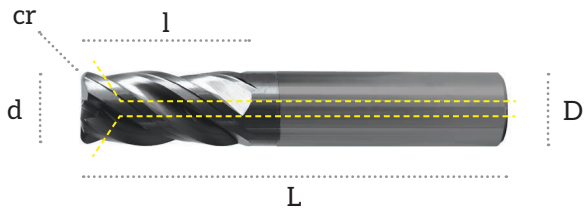
TM 4CK-HPC



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 lèvres
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

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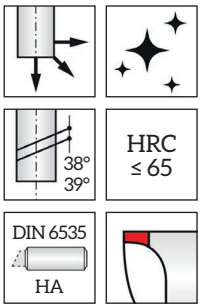
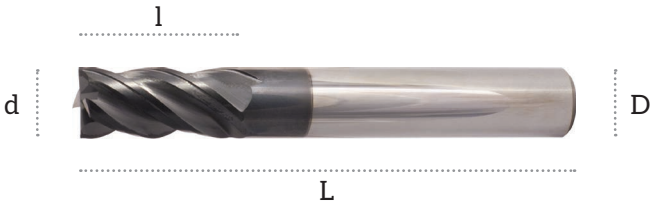
B C E F

AluCroN

TM TI 4



Fresa HPC divisione irregolare 4 taglienti
Unequal division end mill 4 flutes
Fraise division irrégulière 4 lèvres
VHM-Hochleistungsfräser ungleiche Teilung 4 Schneiden



d h10	D h6	L	l ap	AluCroN
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

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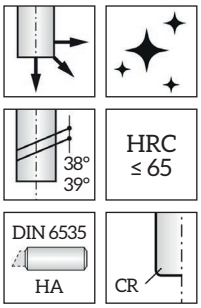
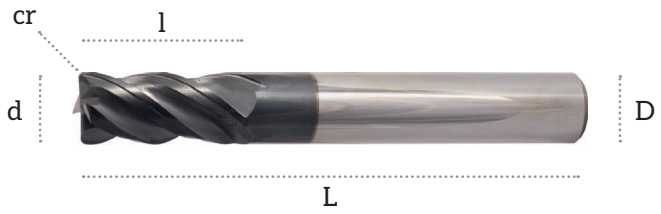
D F G

AluCroN

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
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
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

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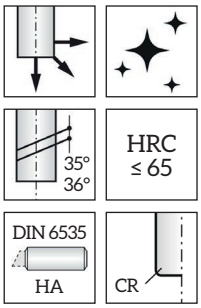
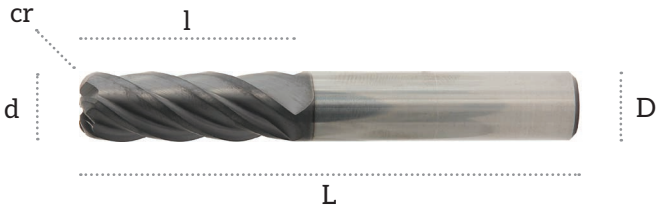
D F G

AluCroN

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	l ap	AluCroN
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

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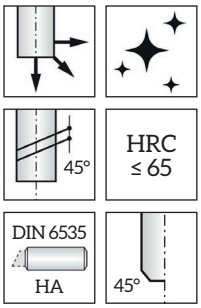
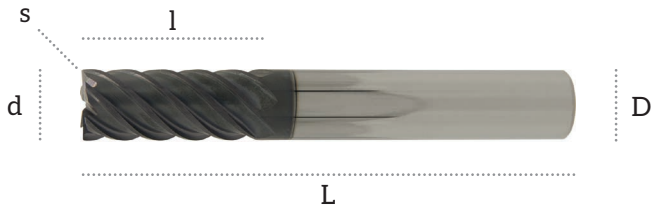
D F G

AluCroN

TM TI 6

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





d h10	D h6	s	L	l ap	Z	AluCroN
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

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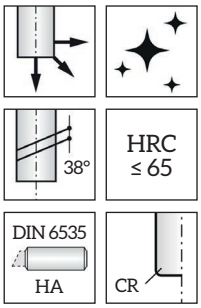
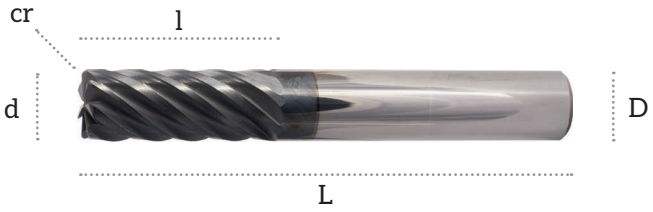
F G N

AluCroN

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	l ap	AluCroN
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

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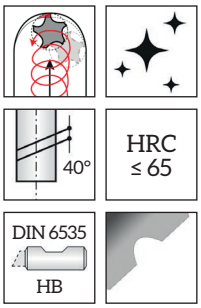
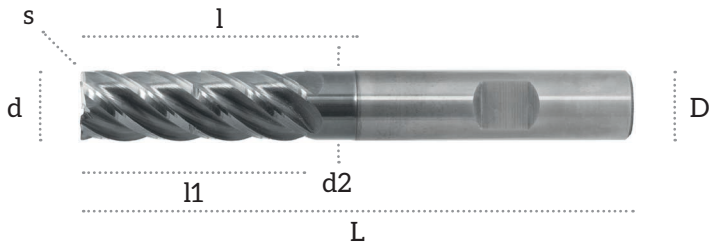
D F G

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

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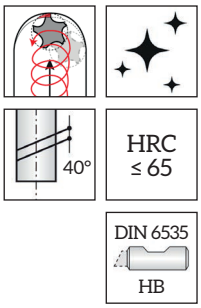
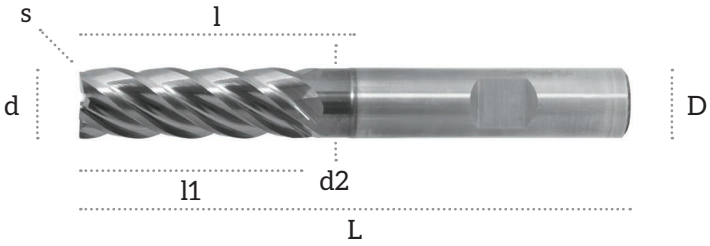
B F

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



d h9	D h6	d2	s	L	l ap	l1	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

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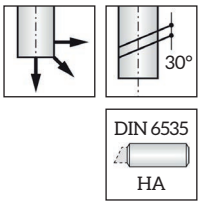
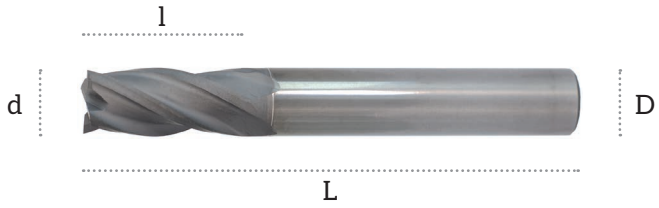
B F G

Diamond

TM HGD



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



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

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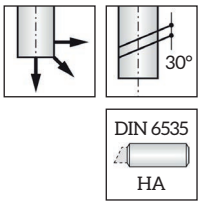
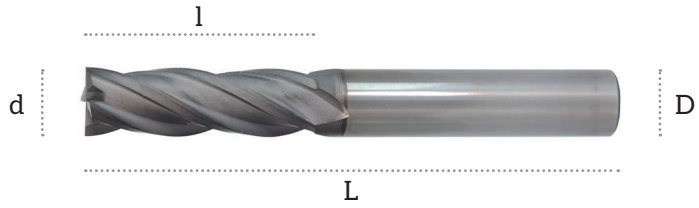
L

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

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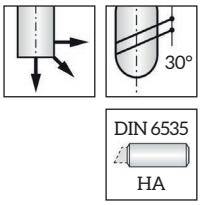
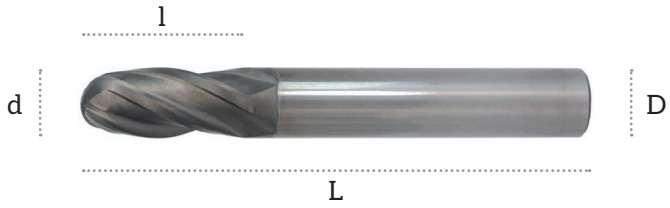
L

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

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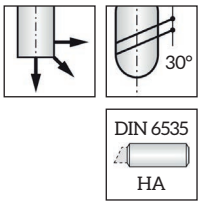
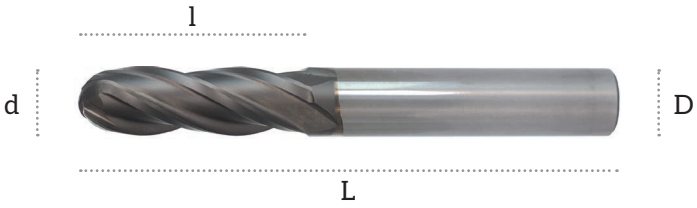
L

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

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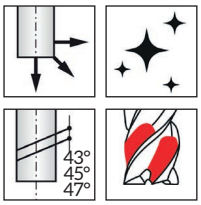
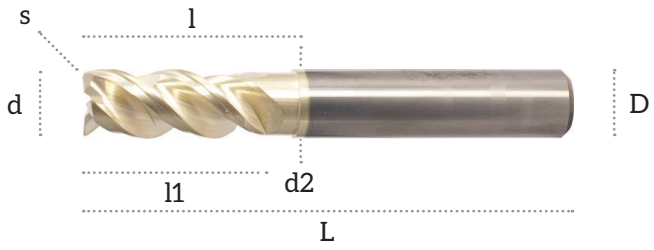
L

ZrN

TM 3T-HPC Alu



Fresa HPC divisione irregolare 3 taglienti
Unequal division HPC end mill 3 flutes
Fraise HPC division irrégulière 3 lèvres
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

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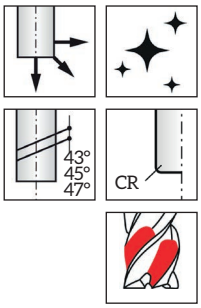
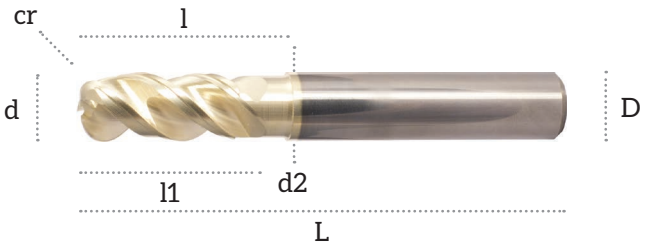
H M

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 lèvres
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

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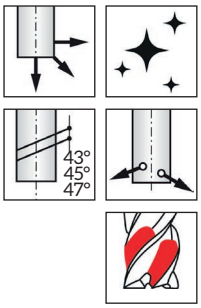
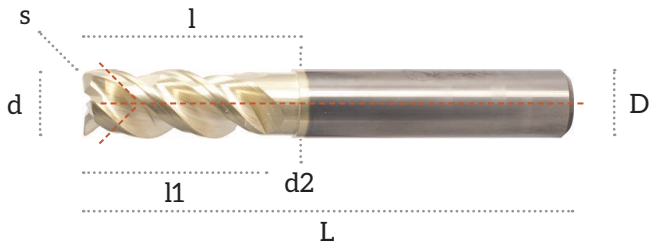
H M

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

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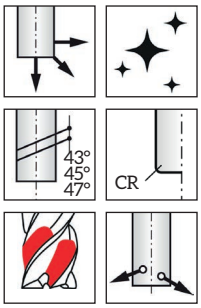
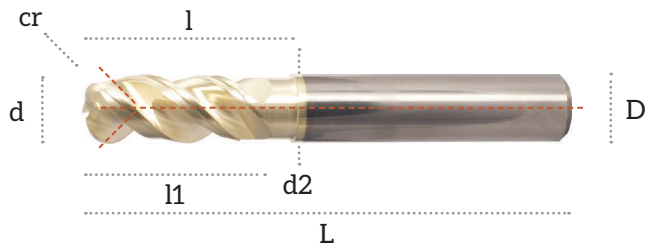
H M

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 lèvres
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

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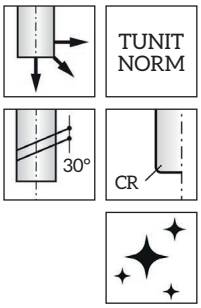
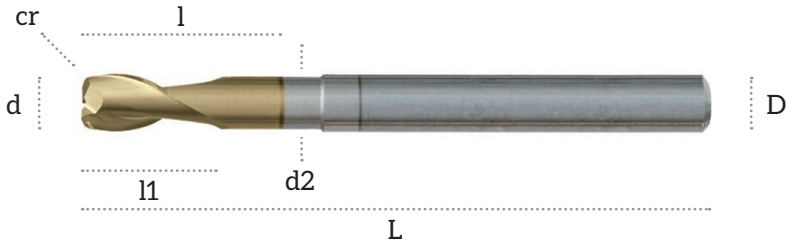
H M

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

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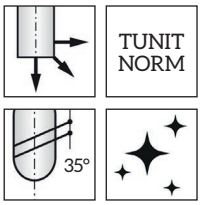
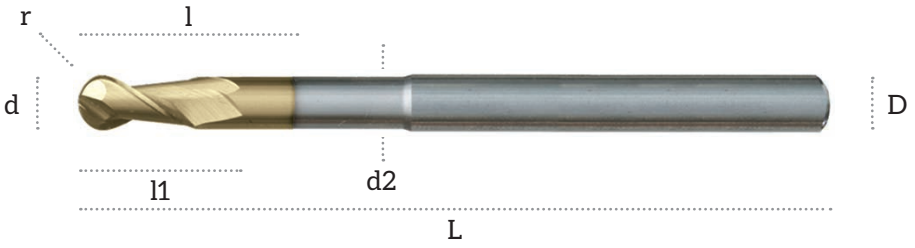
TM H.24 R Alu



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

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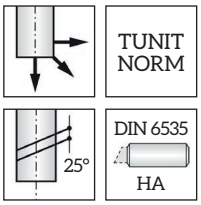
H M

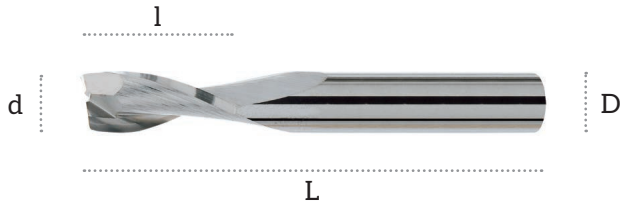
uncoated

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 Fräser von Aluminium



d h9	D h6	L	l ap	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

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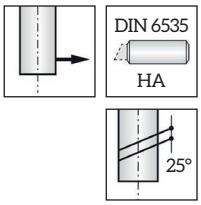
H

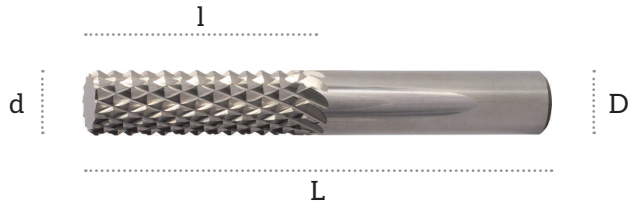
uncoated

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

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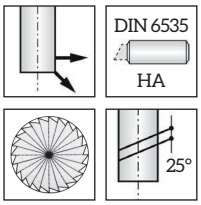
I M

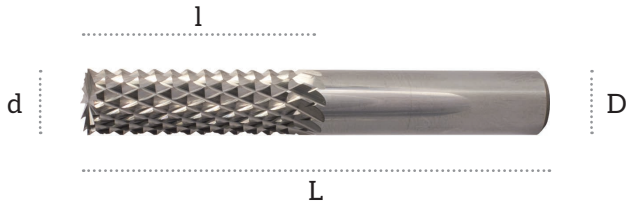
uncoated

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

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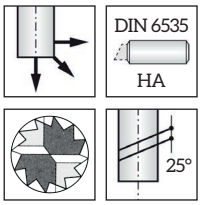
I M

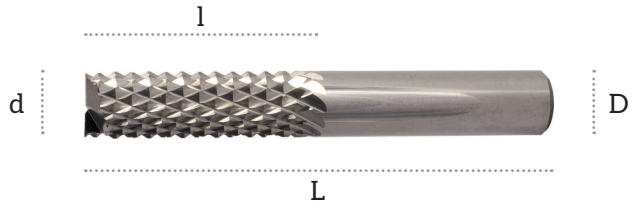
uncoated

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

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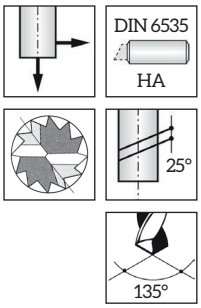
I M

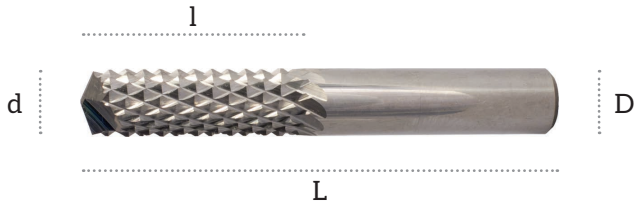
uncoated

AluCroN

TMS 200 M3



Fresa per contornatura con affilatura forante 135°
Countouring cutter with drilling point 135°
Fraise pour des opérations de contournage 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	50	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

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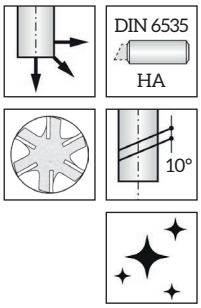
I M

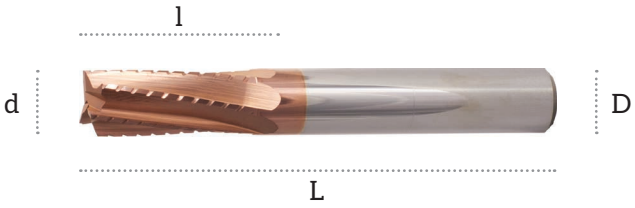
TiCN-B

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

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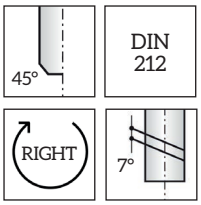
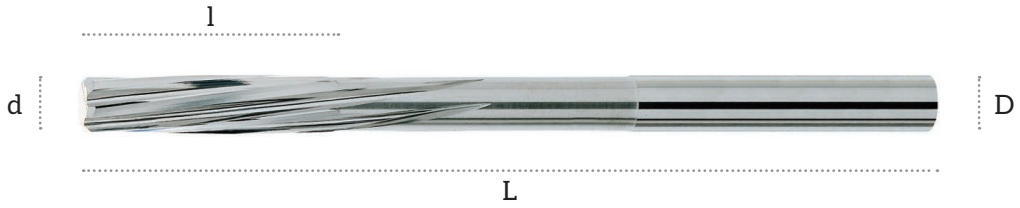
I M

uncoated

TSR 4020

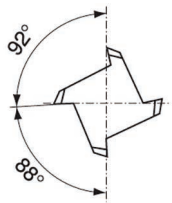


Alesatore elicoidale, spirale sinistra
Left hand twist reamer
Alésoir hélicoïdal, hélice à gauche
Reibahle-spiralgenutet, Linksdrall

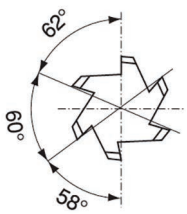


d H7	D h6	L	l	Z	uncoated
1.00	1.00	40	5	4	TSR 4020-0100
1.10	1.10	40	7	4	TSR 4020-0110
1.20	1.20	40	7	4	TSR 4020-0120
1.30	1.30	40	7	4	TSR 4020-0130
1.40	1.40	40	8	4	TSR 4020-0140
1.50	1.50	40	8	4	TSR 4020-0150
1.60	1.60	43	9	4	TSR 4020-0160
1.70	1.70	46	10	4	TSR 4020-0170
1.80	1.80	46	10	4	TSR 4020-0180
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

Z=4
92° / 88°
< Ø 4.75



Z=6
62° / 60° / 58°
> Ø 4.75



d H7	D h6	L	l	Z	uncoated
3.40	3.40	70	18	4	TSR 4020-0340
3.50	3.50	70	18	4	TSR 4020-0350
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

d H7	D h6	L	l	Z	uncoated
5.50	5.50	93	26	6	TSR 4020-0550
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
Linksdrall, Rechtsschneidend, Ungleiche Teilung

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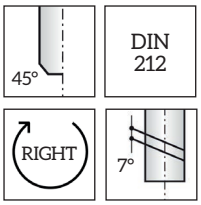
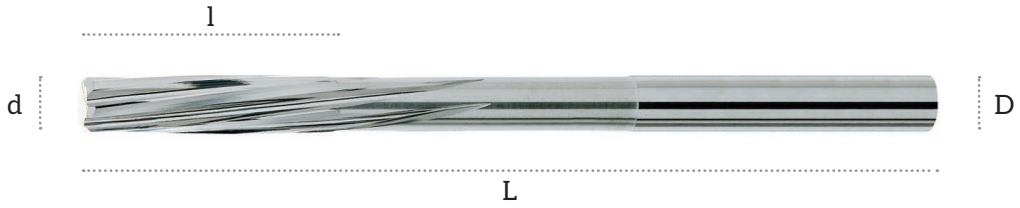
A B C D E F G H M

uncoated

TSR 4020 C

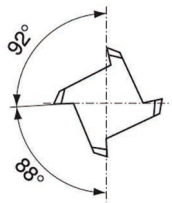


Alesatore elicoidale 1/100, spirale sinistra
Left hand twist reamer 1/100
Alésoir hélicoïdal 1/100, hélice à gauche
Reibahle-spiralgenutet Linksdrall 1/100

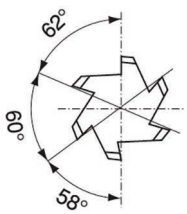


d +0,005	D h6	L	l	Z	uncoated
0.95	1.50	40	5	4	TSR 4020C-0095
0.96	1.50	40	5	4	TSR 4020C-0096
0.97	1.50	40	5	4	TSR 4020C-0097
0.98	1.50	40	5	4	TSR 4020C-0098
0.99	1.50	40	5	4	TSR 4020C-0099
1.01	1.50	40	5	4	TSR 4020C-0101
1.02	1.50	40	5	4	TSR 4020C-0102
1.03	1.50	40	5	4	TSR 4020C-0103
1.04	1.50	40	5	4	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

Z=4
92° / 88°
< Ø 4.75



Z=6
62° / 60° / 58°
> Ø 4.75



d +0,005	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 +0,005	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
Linksdrall, Rechtsschneidend, Ungleiche Teilung

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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

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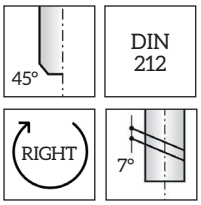
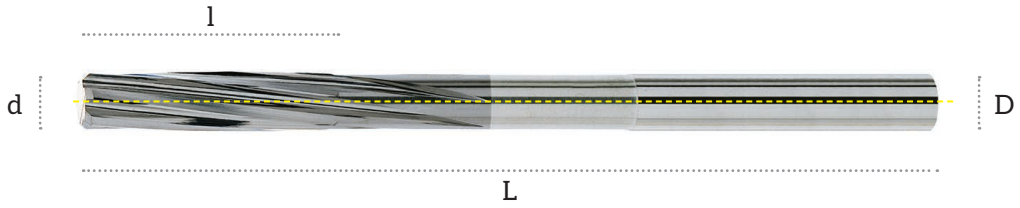
A B C D E F G H M

TiCN-G

TSR 4020 K

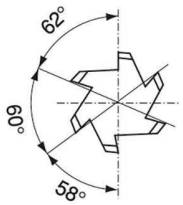


Alesatore elicoidale con foro centrale, spirale destra
Right hand twist reamer with internal cooling
Alésoir denture hélicoïdal avec arrosage central, hélice à droite
Reibahle-spiralgenutet mit zentralen Innenkühlung, Rechtsdrall



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

Z=6
62° / 60° / 58°
> Ø 4,75



Taglio destro, spirale destra, divisione irregolare, foro cieco
Right hand cutting, right hand helix, unequal division, blind hole
Hélice à droite, coupe à droite, division irrégulière, trou borgne
Rechtsdrall, Rechtsschneidend, Ungleiche Teilung, Sackloch

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Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

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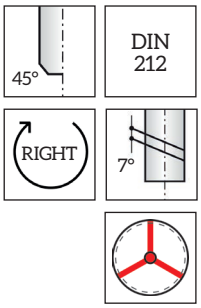
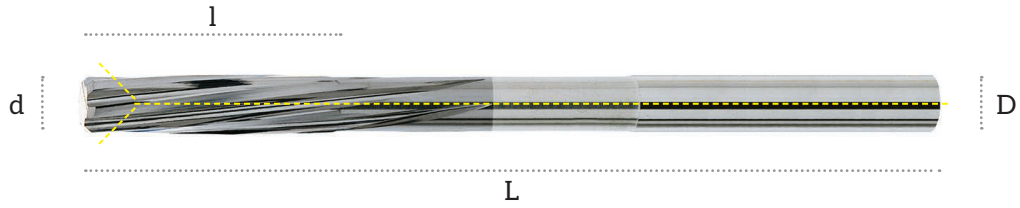
A B C D E F G H M

TiCN-G

TSR 4020 KR

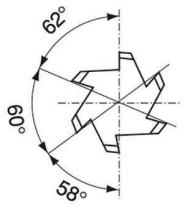


Alesatore elicoidale con fori radiali, spirale sinistra
Left hand twist reamer with internal cooling through flutes
Alésoir denture hélicoïdal avec arrosage latéral, hélice à gauche
Reibahle spiralgenutet mit Innenkühlung durch die Spannuten, Linksdrall



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

Z=6
62° / 60° / 58°
> Ø 4.75



Taglio destro, spirale sinistra, divisione irregolare, foro passante
Right hand cutting, left hand helix, unequal division, through hole
Hélice à gauche, coupe à droite, division irrégulière, trou débouchant
Linksdrall, Rechtsschneidend, Ungleiche Teilung, Durchgangsloch

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Diametri intermedi
Other sizes
Diamètres intermédiaires
Zwischenabmessungen

Su richiesta
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A B C D E F G H M

AlTiSiN

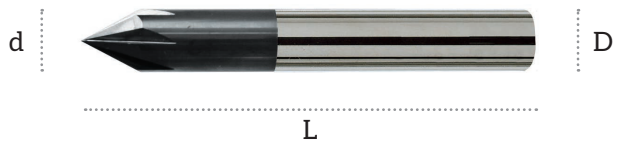
TM SV 60°

60°

TUNIT NORM

DIN 6535 HA

Svasatore 60°
Deburr 60°
Outil pour ébavurer 60°
Entgrater 60°



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

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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
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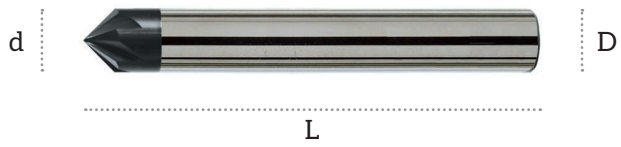
A **B** **C** **D** **E** **G** **H**

AlTiSiN

TM SV 90°

90° | TUNIT NORM | DIN 6535 HA

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



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

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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

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Anwendungsgruppen

A | B | C | D | E | G | H

AlTiSiN

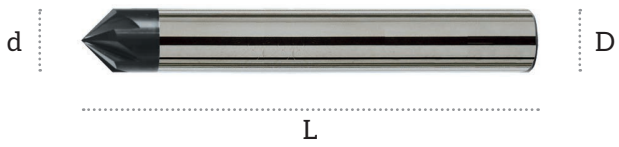
TM SV 100°

100°

TUNIT NORM

DIN 6535 HA

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



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

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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
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Schnittdaten

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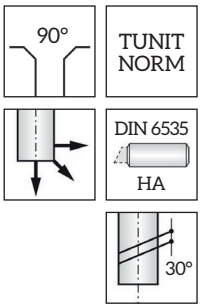
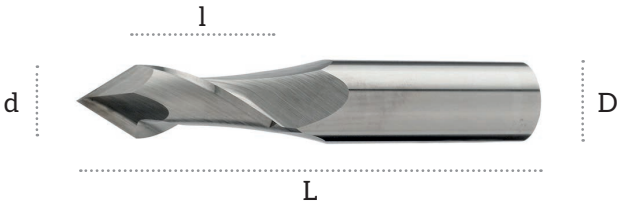
A B C D E G H

uncoated

TM SV2 90°



Svasatore 90° 2 taglienti
Deburr 90° 2 flutes
Outil pour ébavurer 90° 2 lèvres
Entgrater 90° 2 Schneiden



d	D h6	L	l	uncoated
3.00	4.00	50	6	TM SV290-0300
4.00	5.00	50	8	TM SV290-0400
5.00	6.00	50	10	TM SV290-0500
6.00	8.00	70	12	TM SV290-0600
8.00	10.00	70	16	TM SV290-0800
10.00	12.00	90	18	TM SV290-1000
12.00	12.00	90	20	TM SV290-1200

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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
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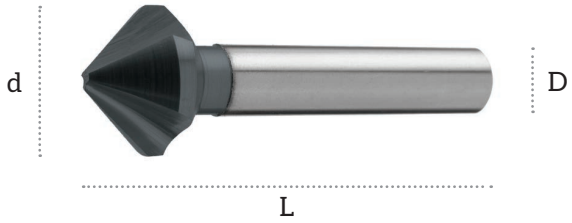
A B E H M

AlTiSiN

TM SV3 90°

90° TUNIT NORM

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

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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
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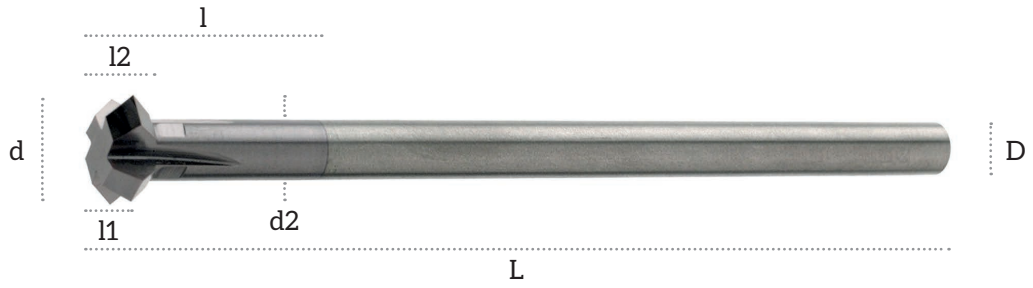
A B E H M

AlTiSiN

TM SV4 90°

90° 90° TUNIT NORM

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	AlTiSiN
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

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Schnittdaten

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

Su richiesta
On request
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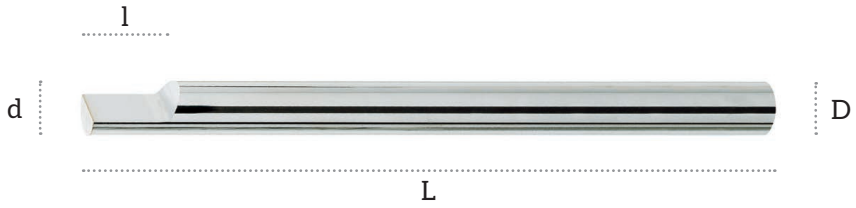
A B E H M

uncoated

TM 5.80 L

TUNIT NORM

Bulino
Single lip cutter
Burin rectifié
Graverstichel



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

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

Su richiesta
On request
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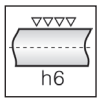
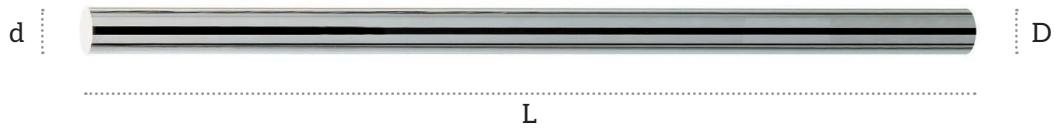
A H M

uncoated

TM 5.90



Barretta rettificata
Grounded rod
Barreau rectifié
Geschliffener Rundstab



d	D h6	L	uncoated
1.00	**1.00**	100	TM 5.90-0100
1.50	**1.50**	100	TM 5.90-0150
2.00	**2.00**	100	TM 5.90-0200
2.50	**2.50**	100	TM 5.90-0250
3.00	**3.00**	100	TM 5.90-0300
3.50	**3.50**	100	TM 5.90-0350
4.00	**4.00**	100	TM 5.90-0400
4.50	**4.50**	100	TM 5.90-0450
5.00	**5.00**	100	TM 5.90-0500
5.50	**5.50**	100	TM 5.90-0550
6.00	**6.00**	100	TM 5.90-0600
6.50	**6.50**	100	TM 5.90-0650
7.00	**7.00**	100	TM 5.90-0700
7.50	**7.50**	100	TM 5.90-0750
8.00	**8.00**	100	TM 5.90-0800
8.50	**8.50**	100	TM 5.90-0850

d	D h6	L	uncoated
9.00	**9.00**	100	TM 5.90-0900
9.50	**9.50**	100	TM 5.90-0950
10.00	**10.00**	100	TM 5.90-1000
10.50	**10.50**	100	TM 5.90-1050
11.00	**11.00**	100	TM 5.90-1100
11.50	**11.50**	100	TM 5.90-1150
12.00	**12.00**	100	TM 5.90-1200
13.00	**13.00**	100	TM 5.90-1300
14.00	**14.00**	100	TM 5.90-1400
15.00	**15.00**	100	TM 5.90-1500
16.00	**16.00**	100	TM 5.90-1600
17.00	**17.00**	100	TM 5.90-1700
18.00	**18.00**	100	TM 5.90-1800
19.00	**19.00**	100	TM 5.90-1900
20.00	**20.00**	100	TM 5.90-2000

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

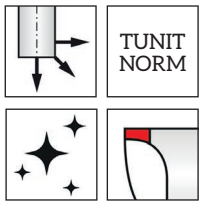
Su richiesta
On request
Sur demande
Auf Anfrage

TUNIT®

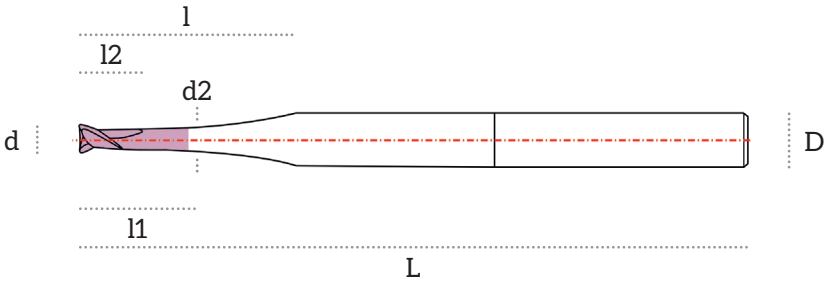
Programma Dentale | *Dental Programme*
Programme dentaire | *Dentalprogramm*

AlTiSiN

DTM H.2-CC



Fresa elicoidale in metallo duro per finitura 2 taglienti
Solid carbide 2 flutes twist end mill for finishing
Fraise hélicoïdale en carbure pour finition 2 dents
Hartmetall Schaftfräser zum Schlichten Zähnezahl 2 gedrallt



d		D h6	d2	L	l	l1	l2	AlTiSiN
0.50	-0.025	3	0,40	43	7.80	2.50	0.50	DTM H.2-CC-0050.03
0.50	-0.025	6	0,40	57	13.00	2.50	0.50	DTM H.2-CC-0050.06
1.00	-0.040	3	0,80	50	9.70	5.00	1.00	DTM H.2-CC-0100.03
1.00	-0.040	6	0,80	57	15.00	5.00	1.00	DTM H.2-CC-0100.06
1.50	-0.040	3	1,20	50	11.80	7.50	1.50	DTM H.2-CC-0150.03
1.50	-0.040	6	1,20	57	17.00	7.50	1.50	DTM H.2-CC-0150.06
2.00	-0.040	6	1,60	57	19.70	10.00	2.00	DTM H.2-CC-0200.06

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

Su richiesta
On request
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1

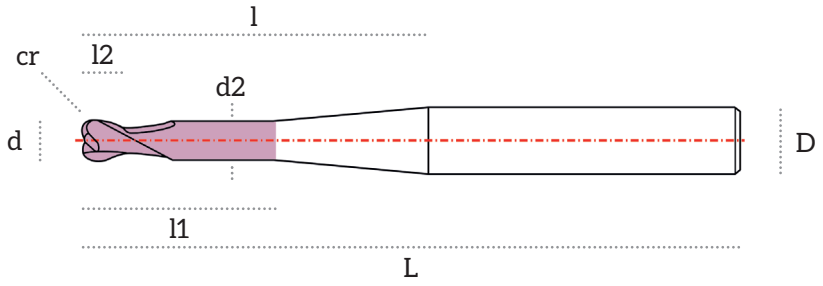
AlTiSiN

DTM H.2C-CC

TUNIT NORM

CR

Fresa torica in metallo duro per sgrossatura e pre-finitura 2 taglienti
Solid carbide 2 flutes torodial end mill for roughing, pre-finishing
Fraise torique en carbure pour ébauche et semi-finition 2 dent
Hartmetall Torusfräser zum Schruppen und Vorschlichten Zähnezahl 2



d	D h6	d2	cr	L	l	l1	l2	AlTiSiN
1.00	6	0,95	0,25	57	20.00	4.00	2.00	DTM H.2C-CC-0100.025.04
1.50	6	1,40	0,10	57	20.00	10.00	2.50	DTM H.2C-CC-0150.010.10
1.50	6	1,40	0,10	57	20.00	16.00	2.50	DTM H.2C-CC-0150.010.16
1.50	6	1,40	0,30	57	20.00	8.00	2.50	DTM H.2C-CC-0150.030.08
2.00	6	1,80	0,20	57	20.00	16.00	3.00	DTM H.2C-CC-0200.020.16
2.00	6	1,80	0,50	57	20.00	8.00	3.00	DTM H.2C-CC-0200.050.08
3.00	6	2,80	0,50	57	20.00	10.00	3.50	DTM H.2C-CC-0300.050.10
3.00	6	2,80	0,50	57	20.00	16.00	3.50	DTM H.2C-CC-0300.050.16
4.00	6	3,80	0,50	57	20.00	12.00	4.00	DTM H.2C-CC-0400.050.12

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

Su richiesta
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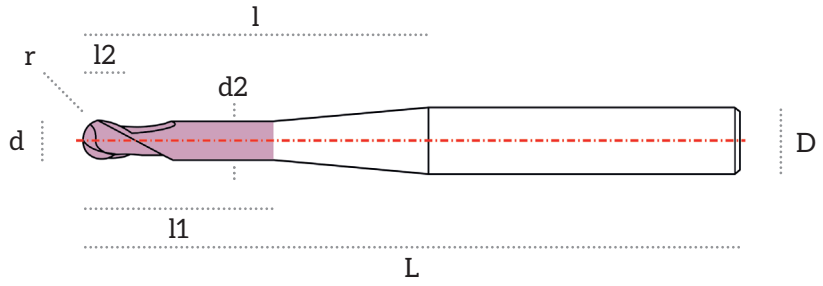
1

AlTiSiN

DTM H.2R-CC

TUNIT NORM

Fresa sferica in metallo duro per sgrossatura e pre-finitura 2 taglienti
Solid carbide 2 flutes ball nose end mill for roughing, pre-finishing
Fraise hémisphérique en carbure pour ébauche et semi-finition 2 dents
Hartmetall Kugelfräser zum Schruppen und Vorschlichten Zähnezahl 2



d	D h6	d2	r	L	l	l1	l2	AlTiSiN
0.60	6	0,55	0,30	57	20.00	3.00	1.00	DTM H.2R-CC-0060
1.00	6	0,95	0,50	57	20.00	4.00	2.00	DTM H.2R-CC-0100
1.50	6	1,40	0,75	57	20.00	7.50	2.50	DTM H.2R-CC-0150
2.00	6	1,80	1,00	57	20.00	8.00	3.00	DTM H.2R-CC-0200
2.50	6	2,30	1,25	57	20.00	10.00	3.25	DTM H.2R-CC-0250
3.00	6	2,80	1,50	57	20.00	10.00	3.50	DTM H.2R-CC-0300
4.00	6	3,80	2,00	57	20.00	12.00	4.00	DTM H.2R-CC-0400

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

Su richiesta
On request
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1

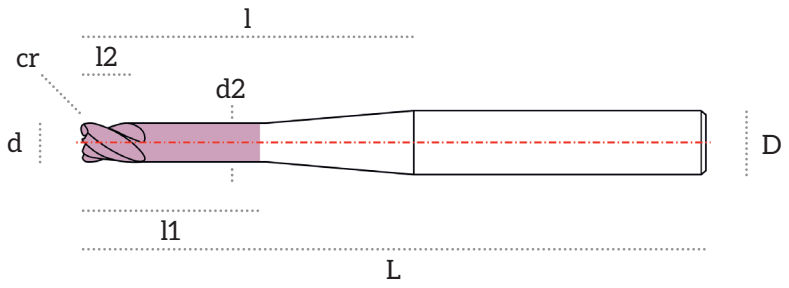
AlTiSiN

DTM H.4C-CC

TUNIT NORM

CR

Fresa torica in metallo duro per sgrossatura e pre-finitura 4 taglienti
Solid carbide 4 flutes torodial end mill for roughing, pre-finishing
Fraise torique en carbure pour ébauche et semi-finition 4 dents
Hartmetall Torusfräser zum Schruppen und Vorschlichten Zähnezahl 4



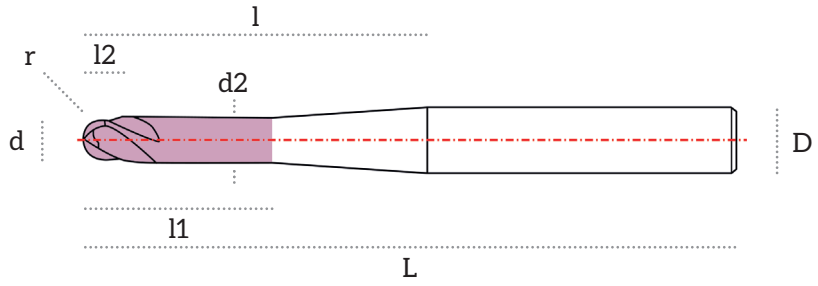
d	D h6	d2	cr	L	l	l1	l2	AlTiSiN
3.00	6	0,95	0,25	57	20.00	4.00	2.00	DTM H.4C-CC-0300.050
4.00	6	1,40	0,10	57	20.00	10.00	2.50	DTM H.4C-CC-0400.050

AlTiSiN

DTM H.4R-CC

TUNIT NORM

Fresa sferica in metallo duro per sgrossatura e pre-finitura 4 taglienti
Solid carbide 4 flutes ball nose end mill for roughing, pre-finishing
Fraise hémisphérique en carbure pour ébauche et semi-finition 4 dents
Hartmetall Kugelfräser zum Schruppen und Vorschlichten Zähnezahl 4



d	D h6	d2	r	L	l	l1	l2	AlTiSiN
1.50	6	1,40	0,75	57	20.00	8.00	2.50	DTM H.4R-CC-0150.08
2.00	6	1,80	1,00	57	20.00	8.00	3.00	DTM H.4R-CC-0200.08
2.50	6	2,30	1,25	57	20.00	10.00	3.25	DTM H.4R-CC-0250.10
3.00	6	2,80	1,50	57	20.00	10.00	3.50	DTM H.4R-CC-0300.10
3.00	6	2,80	1,50	57	20.00	14.00	3.50	DTM H.4R-CC-0300.14
3.00	6	2,80	1,50	57	20.00	18.00	3.50	DTM H.4R-CC-0300.18
4.00	6	3,80	2,00	57	20.00	12.00	4.00	DTM H.4R-CC-0400.12
4.00	6	3,80	2,00	57	20.00	16.00	4.00	DTM H.4R-CC-0400.16

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

Su richiesta
On request
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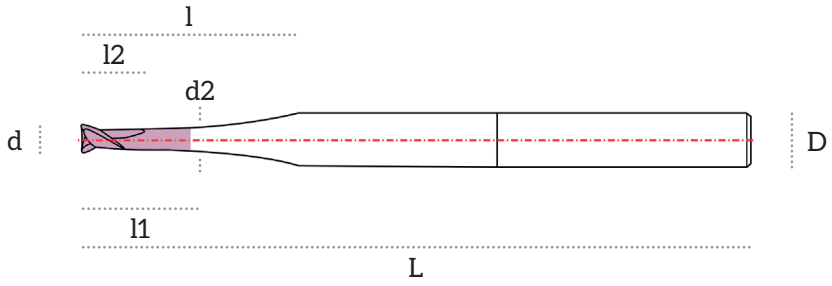
1

AlTiSiN

DTM H.2-TCC

TUNIT NORM

Fresa elicoidale in metallo duro per finitura 2 taglienti
Solid carbide 2 flutes twist end mill for finishing
Fraise hélicoïdale en carbure pour finition 2 dents
Hartmetall Schaftfräser zum Schlichten, Zähnezahl 2 gedrallt



d	D h6	d2	L	l	l1	l2	AlTiSiN
0.50	3	0,40	43	7.00	2.50	0.50	DTM H.2-TCC-0050.03.07
0.50	6	0,40	57	13.00	2.50	0.50	DTM H.2-TCC-0050.06.13
0.50	6	0,40	57	20.00	5.00	0.50	DTM H.2-TCC-0050.06.20
1.00	3	0,80	50	9.00	5.00	1.00	DTM H.2-TCC-0100.03.09
1.00	6	0,80	57	15.00	5.00	1.00	DTM H.2-TCC-0100.06.15
1.00	6	0,80	57	29.00	10.00	1.00	DTM H.2-TCC-0100.06.29
1.50	2	1,20	50	11.00	7.50	1.50	DTM H.2-TCC-0150.03.11
1.50	6	1,20	57	17.00	7.50	1.50	DTM H.2-TCC-0150.06.17
1.50	6	1,20	57	36.00	15.00	1.50	DTM H.2-TCC-0150.06.36
2.00	6	1,60	57	19.00	10.00	2.00	DTM H.2-TCC-0200.06.19
2.00	6	1,60	57	29.00	20.00	2.00	DTM H.2-TCC-0200.06.29

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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

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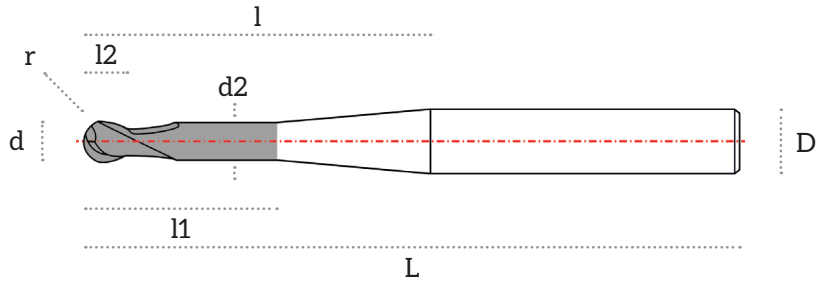
Anwendungsgruppen
2

AluCroN

DTM H.2R3-TCC

TUNIT NORM

Fresa sferica in metallo duro per sgrossatura e pre-finitura 2 taglienti
Solid carbide 2 flutes ball nose end mill for roughing, pre-finishing
Fraise hémisphérique en carbure pour ébauche et semi-finition 2 dents
Hartmetall Kugelfräser zum Schruppen und Vorschlichten Zähnezahl 2



d	D h6	d2	r	L	l	l1	l2	AluCroN
1.00	3	0,85	0,50	47	19.00	8.00	0.90	DTM H.2R3-TCC-0100.08
1.00	3	0,85	0,50	47	19.00	10.00	0.90	DTM H.2R3-TCC-0100.10
1.00	3	0,85	0,50	47	19.00	12.00	0.90	DTM H.2R3-TCC-0100.12
1.50	3	1,30	0,75	47	19.00	8.00	1.30	DTM H.2R3-TCC-0150.08
1.50	3	1,30	0,75	47	19.00	10.00	1.30	DTM H.2R3-TCC-0150.10
1.50	3	1,30	0,75	47	19.00	12.00	1.30	DTM H.2R3-TCC-0150.12
2.00	3	1,70	1,00	47	19.00	12.00	1.70	DTM H.2R3-TCC-0200.12

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

Su richiesta
On request
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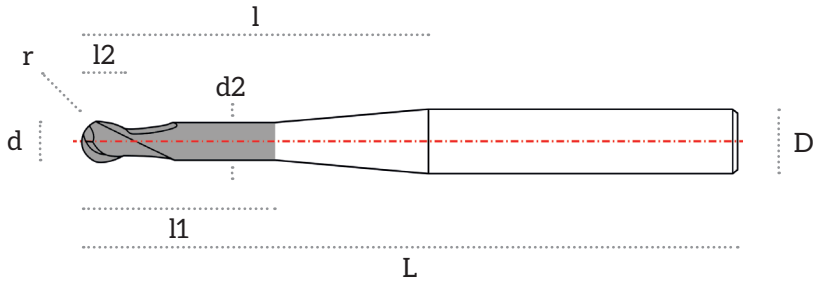
2

AluCroN

DTM H.2R6-TCC

TUNIT NORM

Fresa sferica in metallo duro per sgrossatura e pre-finitura 2 taglienti
Solid carbide 2 flutes ball nose end mill for roughing, pre-finishing
Fraise hémisphérique en carbure pour ébauche et semi-finition 2 dents
Hartmetall Kugelfräser zum Schruppen und Vorschlichten Zähnezahl 2



d	D h6	d2	r	L	l	l1	l2	AluCroN
1.00	6	0,85	0,50	57	21.00	8.00	0.90	DTM H.2R6-TCC-0100.08
1.00	6	0,85	0,50	57	21.00	10.00	0.90	DTM H.2R6-TCC-0100.10
1.00	6	0,85	0,50	57	21.00	12.00	0.90	DTM H.2R6-TCC-0100.12
1.50	6	1,30	0,75	57	21.00	8.00	1.30	DTM H.2R6-TCC-0150.08
1.50	6	1,30	0,75	57	21.00	10.00	1.30	DTM H.2R6-TCC-0150.10
1.50	6	1,30	0,75	57	21.00	12.00	1.30	DTM H.2R6-TCC-0150.12
2.00	6	1,70	1,00	57	21.00	12.00	1.70	DTM H.2R6-TCC-0200.12
2.00	6	1,70	1,00	57	21.00	16.00	1.70	DTM H.2R6-TCC-0200.16
2.50	6	2,20	1,25	57	21.00	12.00	2.10	DTM H.2R6-TCC-0250.12
2.50	6	2,20	1,25	57	21.00	18.00	2.10	DTM H.2R6-TCC-0250.18
3.00	6	2,60	1,50	57	21.00	14.00	2.60	DTM H.2R6-TCC-0300.14
3.00	6	2,60	1,50	57	24.00	20.00	2.60	DTM H.2R6-TCC-0300.20

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

Su richiesta
On request
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Anwendungsgruppen

2

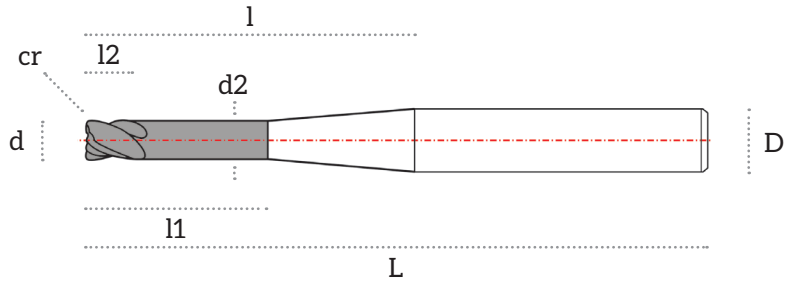
AluCroN

DTM H.4C-TCC

TUNIT NORM

CR

Fresa torica in metallo duro per sgrossatura 4 taglienti
Solid carbide 4 flutes torodial end mill for roughing
Fraise torique en carbure pour ébauche 4 dents
Hartmetall Torusfräser zum Schruppen Zähnezahl 4



d	D h6	d2	cr	L	l	l1	l2	AluCroN
3.00	6	2,80	0,50	57	20.00	10.00	3.50	DTM H.4C-TCC-0300.050
4.00	6	3,80	0,50	57	20.00	12.00	4.00	DTM H.4C-TCC-0400.050

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

Su richiesta
On request
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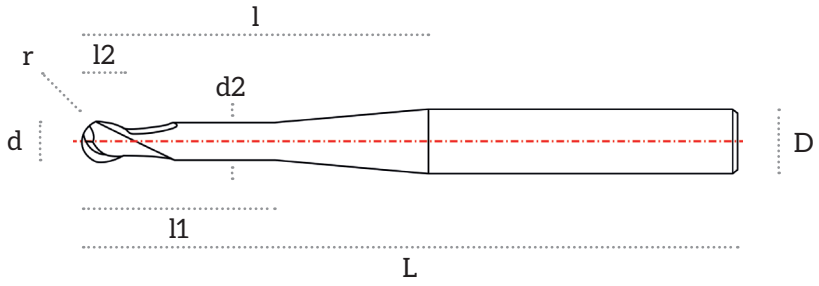
2

uncoated

DTM H.2R-PPC

TUNIT NORM

Fresa sferica in metallo duro per sgrossatura e pre-finitura 2 taglienti
Solid carbide 2 flutes ball nose end mill for roughing, pre-finishing
Fraise hémisphérique en carbure pour ébauche et semi-finition 2 dents
Hartmetall Kugelfräser zum Schruppen und Vorschlichten Zähnezahl 2



d	D h6	d2	r	L	l	l1	l2	uncoated
1.00	3	0,85	0,50	38	13.00	10.00	0.90	DTM H.2R-PPC-0100
2.00	3	1,70	1,00	38	16.00	12.00	1.70	DTM H.2R-PPC-0200
3.00	3	2,60	1,50	38	19.00	16.00	2.60	DTM H.2R-PPC-0300

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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
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Anwendungsgruppen

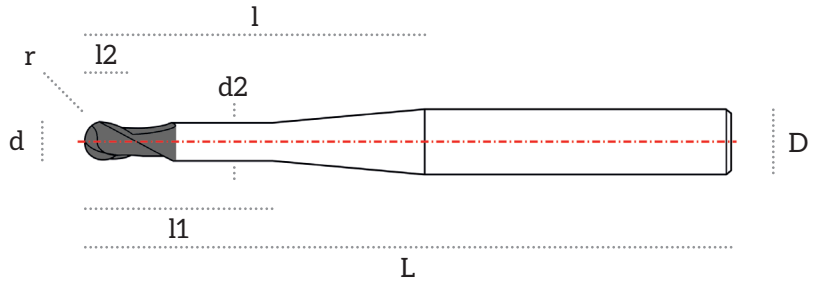
3 4 5

Diamond

DTM H.2R3-Z

TUNIT NORM

Fresa sferica in metallo duro per sgrossatura e finitura 2 taglienti
Solid carbide 2 flutes ball nose end mill for roughing and finishing
Fraise hémisphérique en carbure pour ébauche et semi-finition 2 dents
Hartmetall Kugelfräser zum Schruppen und Vorschlichten Zähnezahl 2



d	D h6	d2	r	L	l	l1	l2	Diamond
1.00	3	0,95	0,50	47	16.00	10.00	0.90	DTM H.2R3-Z-0100.16
1.00	3	0,95	0,50	47	20.00	22.00	0.90	DTM H.2R3-Z-0100.20
2.00	3	1,80	1,00	47	20.00	22.00	1.70	DTM H.2R3-Z-0200.20
2.00	3	1,80	1,00	47	26.00	28.00	1.70	DTM H.2R3-Z-0200.26
2.50	3	2,30	1,25	47	20.00	22.00	2.10	DTM H.2R3-Z-0250.20
2.50	3	2,30	1,25	47	26.00	28.00	2.10	DTM H.2R3-Z-0250.26

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

Su richiesta
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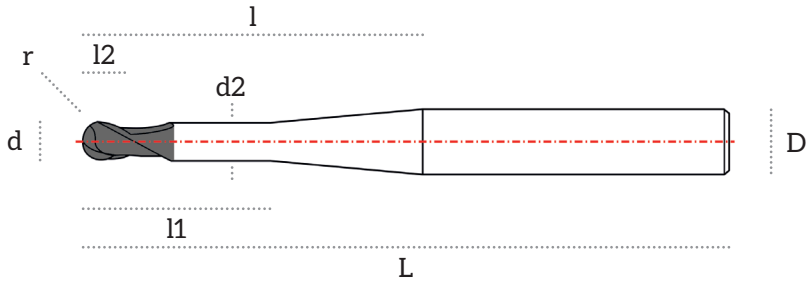
6

Diamond

DTM H.2R6-Z

TUNIT NORM

Fresa sferica in metallo duro per sgrossatura e finitura 2 taglienti
Solid carbide 2 flutes ball nose end mill for roughing and finishing
Fraise hémisphérique en carbure pour ébauche et semi-finition 2 dents
Hartmetall Kugelfräser zum Schruppen und Vorschlichten Zähnezahl 2



d	D h6	d2	r	L	l	l1	l2	Diamond
1.00	6	0,95	0,50	57	21.00	12.00	0.90	DTM H.2R6-Z-0100.12
1.00	6	0,95	0,50	57	21.00	16.00	0.90	DTM H.2R6-Z-0100.16
1.00	6	0,95	0,50	57	21.00	18.00	0.90	DTM H.2R6-Z-0100.18
2.00	6	1,80	1,00	57	21.00	16.00	1.70	DTM H.2R6-Z-0200.16
2.00	6	1,80	1,00	57	24.00	20.00	1.70	DTM H.2R6-Z-0200.20
2.00	6	1,80	1,00	57	27.00	24.00	1.70	DTM H.2R6-Z-0200.24
2.50	6	2,30	1,25	57	24.00	20.00	2.10	DTM H.2R6-Z-0250.20
2.50	6	2,30	1,25	57	27.00	24.00	2.10	DTM H.2R6-Z-0250.24
3.00	6	2,80	1,50	57	24.00	20.00	2.60	DTM H.2R6-Z-0300.20
3.00	6	2,80	1,50	57	27.00	24.00	2.60	DTM H.2R6-Z-0300.24

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

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6

TUNIT®

Programma PCD | *PCD Programme*
PCD Programme | *PKD Programm*

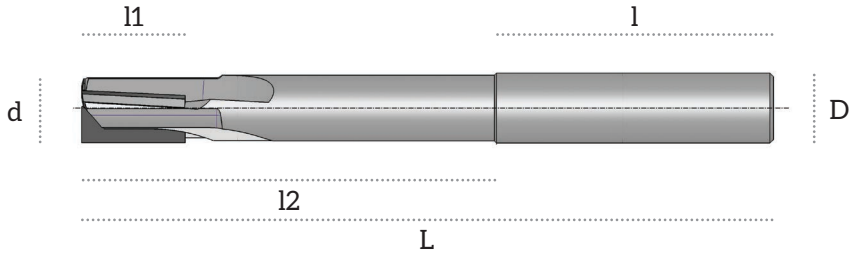
PCD

TP CD 3.2

DIN 6535 HA

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	6.00	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	40	15	35	TPCD 3.2-1000
12.00	12.00	75	40	15	35	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*

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

Su richiesta
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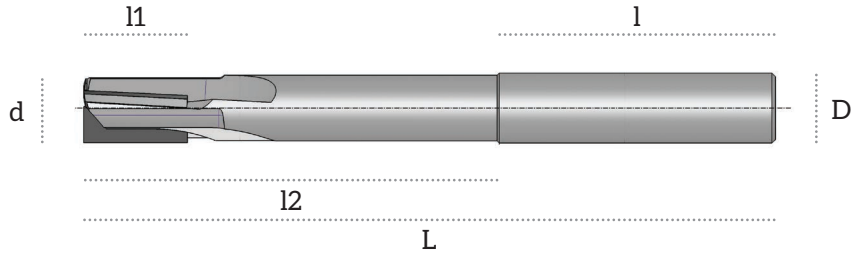
H I

PCD

TP CD 3.2 L

DIN 6535 HA | 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	6.00	100	40	20	60	TPCD 3.2L-0600
8.00	8.00	100	40	20	60	TPCD 3.2L-0800
10.00	10.00	100	40	20	60	TPCD 3.2L-1000
12.00	12.00	100	40	20	60	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*

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

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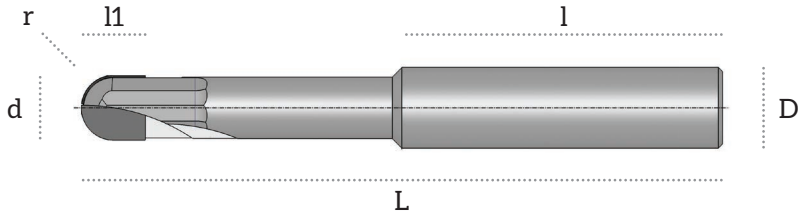
H I

PCD

TP CD 3.2 R

DIN 6535 HA | 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	6.00	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	40	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	50	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*

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

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H I

PCD

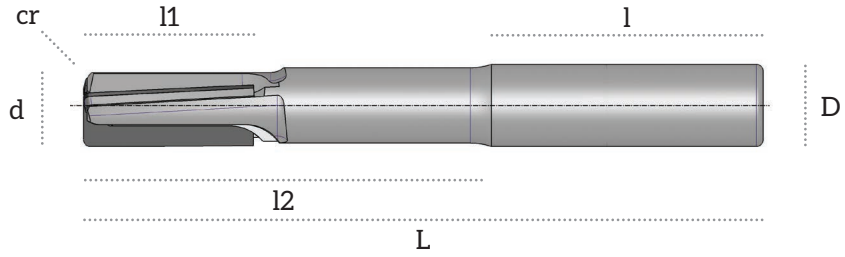
TP CDT 3.2

DIN 6535 HA

TUNIT PCD

CR

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	6.00	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	0,5	75	40	15	35	TPCDT 3.2-1000
12.00	12.00	0,75	75	40	15	35	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*

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

Su richiesta
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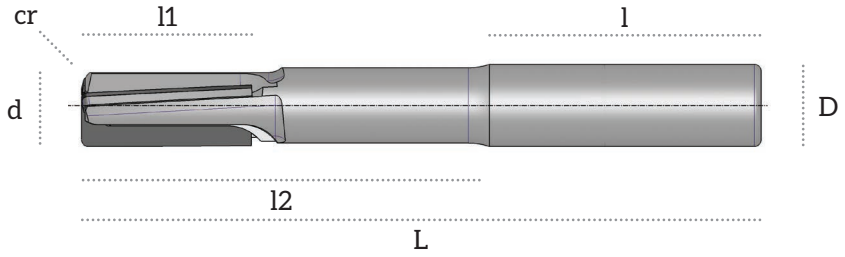
H I

PCD

TP CDT 3.2 L

DIN 6535 HA | TUNIT PCD | CR

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



d	D	cr	L	l	l1	l2	PCD
6.00	6.00	0,5	100	40	20	60	TPCDT 3.2L-0600
8.00	8.00	0,5	100	40	20	60	TPCDT 3.2L-0800
10.00	10.00	0,5	100	40	20	60	TPCDT 3.2L-1000
12.00	12.00	0,75	100	40	20	60	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*

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

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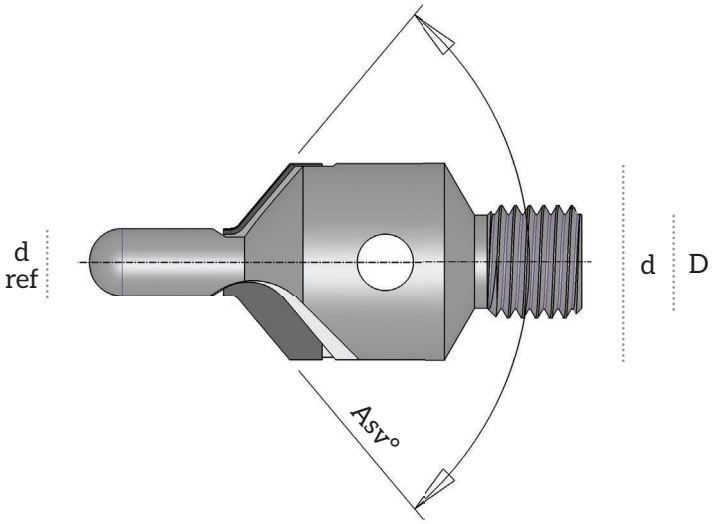
H I

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
17.00	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*

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

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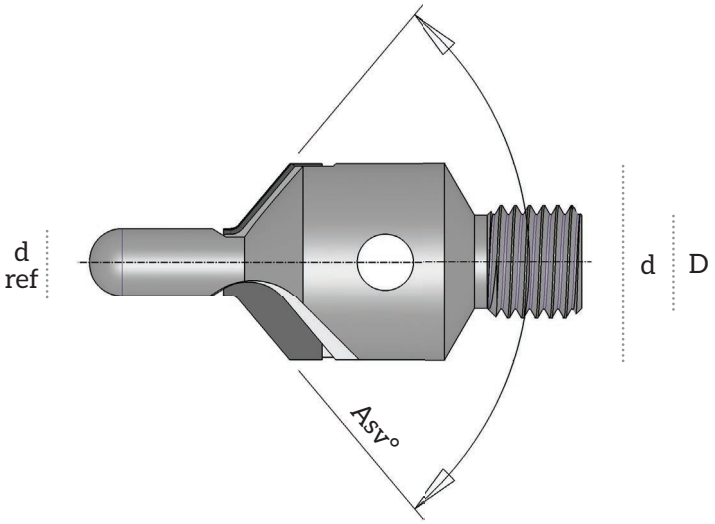
H I

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
17.00	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*

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

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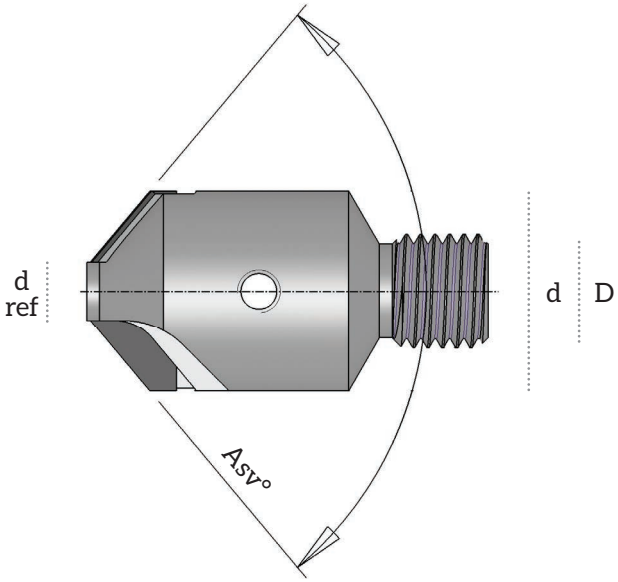
H I

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	M8X1,0	100°/130°	TPCD2 208-1400
17.00	3.00	M8X1,0	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*

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

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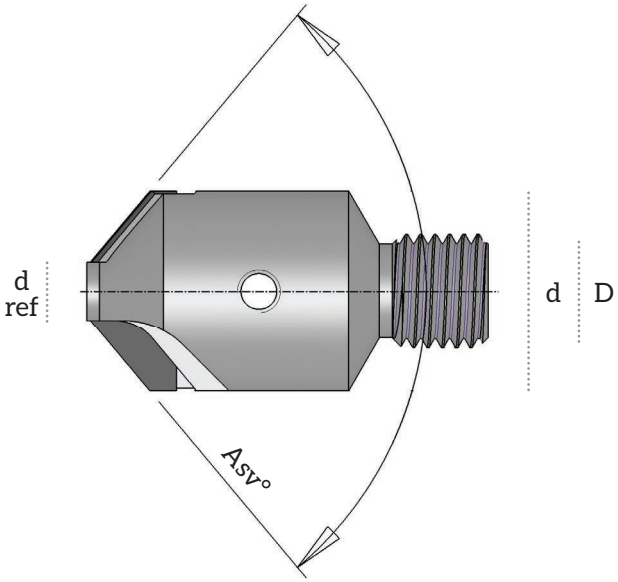
H I

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	2.50	M6X1,0	100°/130°	TPCD3 208-1000
12.00	3.00	M6X1,0	100°/130°	TPCD3 208-1200
14.00	3.00	M8X1,0	100°/130°	TPCD3 208-1400
17.00	3.00	M8X1,0	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*

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

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H I

Rivestimenti | *Coatings* | Revêtements | *Beschichtungen*

Rivestimenti | *Coating* Revêtement | *Beschichtung*	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 TXO	4.400	1 - 4	0.35	900°	480°	bronze
Omicron Diamond	8.000 10.000	0.009 0.01	0.02 0.10	650°	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°	pink bronze

TUNIT®

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

TUNGSTENTOOLS ITALIA s.r.l.

Via Galileo Galilei 10
64013 CORROPOLI (Teramo) - Italy

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

web: **www.tunit.it**
web: **www.tungstentools.com**
email: **sales@tunit.it**

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P.I.: **IT10144690152**

UNI EN ISO 14001
UNI EN ISO 9001