



ZHONGJIA CARBIDE

Suzhou Zhongjia Cemented Carbide Co.,Ltd.



SOLID CARBIDE TOOL SOLUTIONS

Higher efficiency \ higher stability \ faster delivery time



ABOUT US



Suzhou Zhongjia Cemented Carbide Co.,Ltd. is a specialist in producing solid carbide end mills, drills, inserts, standard and non-standard tungsten carbide tools, etc. With two factories and more than 100 machines, our factory has an abundant production capacity and stock.

Our products have been exported to many countries, which could be widely used in cutting, milling, carving, machining, etc. Customized printing and package requirement are acceptable.

Focusing on what we do, we do it professionally.---- Suzhou Zhongjia Cemented Carbide Co.,Ltd. will always provide the best products, excellent service and innovative solutions to you.



**Focusing on what we do,
we do it professionally**

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GM550

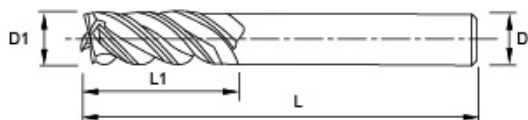
It is recommended to process carbon steel, alloy steel, cast iron, ductile iron and copper and other materials below HRC25, which is suitable for rough machining of ordinary steel parts.

2-Flute End Mill



(Order No)	D1	L1	D	L
210001	1.00	2.50	4.00	50.00
210002	2.00	5.00	4.00	50.00
210003	3.00	8.00	4.00	50.00
210004	4.00	10.00	4.00	50.00
210005	5.00	13.00	6.00	50.00
210006	6.00	15.00	6.00	50.00
210008	8.00	20.00	8.00	60.00
210010	10.00	25.00	10.00	75.00
210012	12.00	30.00	12.00	75.00
210014	14.00	35.00	14.00	80.00
210016	16.00	40.00	16.00	90.00
210018	18.00	45.00	18.00	100.00
210020	20.00	45.00	20.00	100.00

4-Flute End Mill

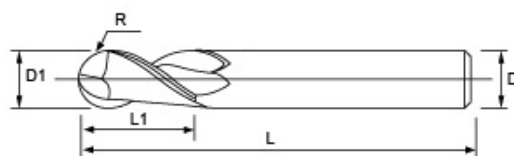


(Order No)	D1	L1	D	L
220001	1.00	2.50	4.00	50.00
220002	2.00	5.00	4.00	50.00
220003	3.00	8.00	4.00	50.00
220004	4.00	10.00	4.00	50.00
220005	5.00	13.00	6.00	50.00
220006	6.00	15.00	6.00	50.00
220008	8.00	20.00	8.00	60.00
220010	10.00	25.00	10.00	75.00
220012	12.00	30.00	12.00	75.00
220014	14.00	35.00	14.00	80.00
220016	16.00	40.00	16.00	90.00
220018	18.00	45.00	18.00	100.00
220020	20.00	45.00	20.00	100.00

GM550

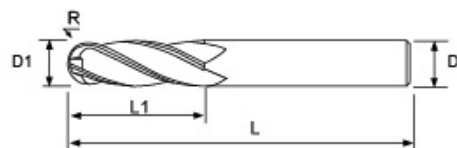
It is recommended to process carbon steel, alloy steel, cast iron, ductile iron and copper and other materials below HRC25, which is suitable for rough machining of ordinary steel parts.

2-Ball End Mill



(Order No)	D1	R	L1	D	L
230001	1.00	R0.50	2.00	4.00	50.00
230002	2.00	R1.00	4.00	4.00	50.00
230003	3.00	R1.50	6.00	4.00	50.00
230004	4.00	R2.00	8.00	4.00	50.00
230005	5.00	R2.50	10.00	6.00	50.00
230006	6.00	R3.00	12.00	6.00	50.00
230008	8.00	R4.00	16.00	8.00	60.00
230010	10.00	R5.00	20.00	10.00	75.00
230012	12.00	R6.00	24.00	12.00	75.00
230014	14.00	R7.00	28.00	14.00	80.00
230016	16.00	R8.00	32.00	16.00	90.00
230018	18.00	R9.00	36.00	18.00	100.00
230020	20.00	R10.00	40.00	20.00	100.00

4-Ball End Mill

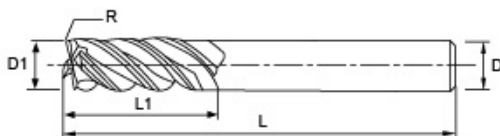


(Order No)	D1	R	L1	D	L
240001	1.00	R0.50	2.00	4.00	50.00
240002	2.00	R1.00	4.00	4.00	50.00
240003	3.00	R1.50	6.00	4.00	50.00
240004	4.00	R2.00	8.00	4.00	50.00
240005	5.00	R2.50	10.00	6.00	50.00
240006	6.00	R3.00	12.00	6.00	50.00
240008	8.00	R4.00	16.00	8.00	60.00
240010	10.00	R5.00	20.00	10.00	75.00
240012	12.00	R6.00	24.00	12.00	75.00
240014	14.00	R7.00	28.00	14.00	80.00
240016	16.00	R8.00	32.00	16.00	90.00
240018	18.00	R9.00	36.00	18.00	100.00
240020	20.00	R10.00	40.00	20.00	100.00

GM550

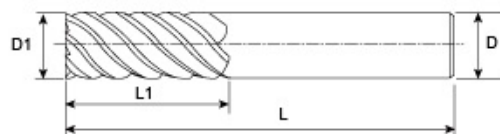
It is recommended to process carbon steel, alloy steel, cast iron, ductile iron and copper and other materials below HRC25, which is suitable for rough machining of ordinary steel parts.

4-Flute Corner Radius End Mill



(Order No)	D1	R	L1	D	L
250002	2.00	R0.20	5.00	4.00	50.00
250003	3.00	R0.20	8.00	4.00	50.00
250004	4.00	R0.20	10.00	4.00	50.00
250005	5.00	R0.20	13.00	6.00	50.00
250006	6.00	R0.30	15.00	6.00	50.00
250008	8.00	R0.30	20.00	8.00	60.00
250010	10.00	R0.50	25.00	10.00	75.00
250012	12.00	R0.50	30.00	12.00	75.00
250014	14.00	R1.00	35.00	14.00	80.00
250016	16.00	R1.00	40.00	16.00	90.00
250018	18.00	R2.00	45.00	18.00	100.00
250020	20.00	R2.00	45.00	20.00	100.00

6-Flute End Mill

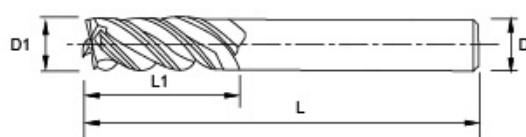


(Order No)	D1	L1	D	L
470006	6.00	16.00	6.00	50.00
470008	8.00	20.00	8.00	60.00
470010	10.00	25.00	10.00	75.00
470012	12.00	30.00	12.00	75.00
470014	14.00	35.00	14.00	80.00
470016	16.00	40.00	16.00	90.00
470018	18.00	45.00	18.00	100.00
470020	20.00	45.00	20.00	100.00
470006L	6.00	30.00	6.00	75.00
470008L	8.00	40.00	8.00	100.00
470010L	10.00	40.00	10.00	100.00
470012L	12.00	45.00	12.00	100.00

GM650

It is recommended to process materials below HRC45, pre-hardened steel, carbon steel, alloy steel, cast iron, stainless steel, which is suitable for roughing and finishing of small feed parts.

4-Flute End Mill



SUPER
MG

45°

4 Flutes

AlCrN

P

K

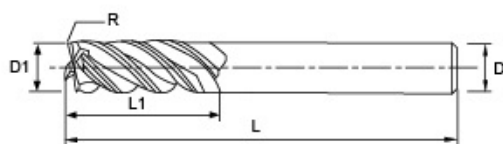
H

M



(Order No)	D1	L1	D	L
370003	3.00	8.00	4.00	50.00
370004	4.00	10.00	4.00	50.00
370005	5.00	13.00	6.00	50.00
370006	6.00	15.00	6.00	50.00
370008	8.00	20.00	8.00	60.00
370010	10.00	25.00	10.00	75.00
370012	12.00	30.00	12.00	75.00
370014	14.00	35.00	14.00	80.00
370016	16.00	40.00	16.00	90.00
370018	18.00	45.00	18.00	100.00
370020	20.00	45.00	20.00	100.00

4-Flute Corner Radius End Mill



SUPER
MG

45°

4 Flutes

AlCrN

R

P

K

H

M

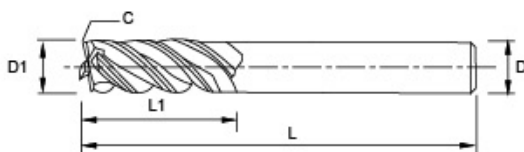


(Order No)	D1	R	L1	D	L
380003	3.00	R0.20	8.00	4.00	50.00
380004	4.00	R0.20	10.00	4.00	50.00
380005	5.00	R0.20	13.00	6.00	50.00
380006	6.00	R0.30	15.00	6.00	50.00
380008	8.00	R0.30	20.00	8.00	60.00
380010	10.00	R0.50	25.00	10.00	75.00
380012	12.00	R0.50	30.00	12.00	75.00
380014	14.00	R1.00	35.00	14.00	80.00
380016	16.00	R1.00	40.00	16.00	90.00
380018	18.00	R2.00	45.00	18.00	100.00
380020	20.00	R2.00	45.00	20.00	100.00

HM Series

It is recommended to process materials below HRC50, which is suitable for mold steel, plastic mold, cast iron, copper, stainless steel, titanium alloy and other difficult-to-machine materials, efficient processing of ordinary steel parts, large depth of cut, and large removal amount of milling processing.

4-Flute End Mill



SUPER
MG

35°/38°

4 Flutes

TiSiN

P

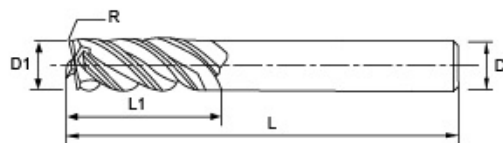
K

M



(Order No)	C (Max)	D1	L1	D	L
350003	0.10	3.00	8.00	4.00	50.00
350004	0.10	4.00	10.00	4.00	50.00
350005	0.15	5.00	13.00	6.00	50.00
350006	0.15	6.00	15.00	6.00	50.00
350008	0.20	8.00	20.00	8.00	60.00
350010	0.30	10.00	25.00	10.00	75.00
350012	0.35	12.00	30.00	12.00	75.00
350014	0.35	14.00	35.00	14.00	80.00
350016	0.35	16.00	40.00	16.00	90.00
350018	0.35	18.00	45.00	18.00	100.00
350020	0.35	20.00	45.00	20.00	100.00

4-Flute Corner Radius End Mill



SUPER
MG

35°/38°

4 Flutes

TiSiN

R

P

K

M

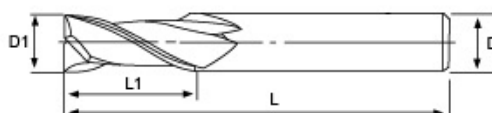


(Order No)	D1	R	L1	D	L
360003	3.00	R0.20	8.00	4.00	50.00
360004	4.00	R0.20	10.00	4.00	50.00
360005	5.00	R0.20	13.00	6.00	50.00
360006	6.00	R0.30	15.00	6.00	50.00
360008	8.00	R0.30	20.00	8.00	60.00
360010	10.00	R0.50	25.00	10.00	75.00
360012	12.00	R0.50	30.00	12.00	75.00
360014	14.00	R1.00	35.00	14.00	80.00
360016	16.00	R1.00	40.00	16.00	90.00
360018	18.00	R2.00	45.00	18.00	100.00
360020	20.00	R2.00	45.00	20.00	100.00

AL Series

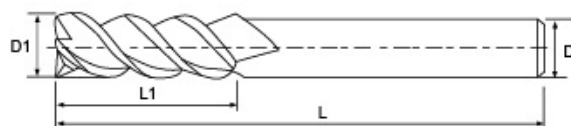
High-efficient aluminum milling cutter, long life, high feed, side milling high-gloss, under-milling high-gloss.
Processing materials: aluminum, acrylic, POM, meet efficient roughing and finishing.

2-Flute Aluminum End Mill



(Order No)	D1	L1	D	L
270002	2.00	5.00	4.00	50.00
270003	3.00	8.00	4.00	50.00
270004	4.00	10.00	4.00	50.00
270005	5.00	13.00	6.00	50.00
270006	6.00	15.00	6.00	50.00
270008	8.00	20.00	8.00	60.00
270010	10.00	25.00	10.00	75.00
270012	12.00	30.00	12.00	75.00
270014	14.00	35.00	14.00	80.00
270016	16.00	40.00	16.00	90.00
270018	18.00	45.00	18.00	100.00
270020	20.00	45.00	20.00	100.00

3-Flute Aluminum End Mill

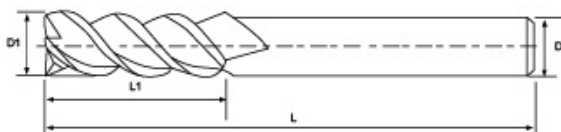


(Order No)	D1	L1	D	L
280002	2.00	5.00	4.00	50.00
280003	3.00	8.00	4.00	50.00
280004	4.00	10.00	4.00	50.00
280005	5.00	13.00	6.00	50.00
280006	6.00	15.00	6.00	50.00
280008	8.00	20.00	8.00	60.00
280010	10.00	25.00	10.00	75.00
280012	12.00	30.00	12.00	75.00
280014	14.00	35.00	14.00	80.00
280016	16.00	40.00	16.00	90.00
280018	18.00	45.00	18.00	100.00
280020	20.00	45.00	20.00	100.00

AL Series

High-efficient aluminum milling cutter, long life, high feed, side milling high-gloss, under-milling high-gloss.
Processing materials: aluminum, acrylic, POM, meet efficient roughing and finishing.

3-Flute Aluminum End Mill



SUPER
MG

45°

3 Flutes

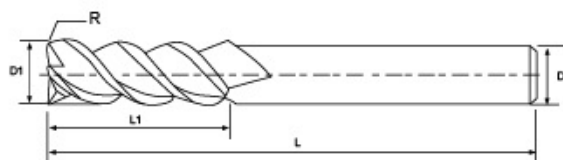
DLC

N



(Order No)	D1	L1	D	L
330003	3.00	8.00	4.00	50.00
330004	4.00	10.00	4.00	50.00
330005	5.00	13.00	6.00	50.00
330006	6.00	15.00	6.00	50.00
330008	8.00	20.00	8.00	60.00
330010	10.00	25.00	10.00	75.00
330012	12.00	30.00	12.00	75.00
330014	14.00	35.00	14.00	80.00
330016	16.00	40.00	16.00	90.00
330018	18.00	45.00	18.00	100.00
330020	20.00	45.00	20.00	100.00

3-Flute Aluminum Corner Radius End Mill



SUPER
MG

45°

3 Flutes

DLC

R

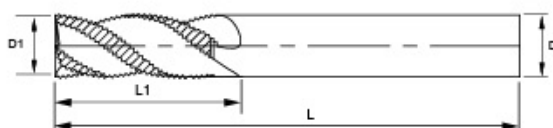
N



(Order No)	D1	R	L1	D	L
340003	3.00	R0.20	8.00	4.00	50.00
340004	4.00	R0.20	10.00	4.00	50.00
340005	5.00	R0.20	13.00	6.00	50.00
340006	6.00	R0.30	15.00	6.00	50.00
340008	8.00	R0.30	20.00	8.00	60.00
340010	10.00	R0.50	25.00	10.00	75.00
340012	12.00	R0.50	30.00	12.00	75.00
340014	14.00	R1.00	35.00	14.00	80.00
340016	16.00	R1.00	40.00	16.00	90.00
340018	18.00	R2.00	45.00	18.00	100.00
340020	20.00	R2.00	45.00	20.00	100.00

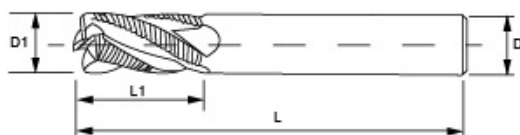
Roughing End Mill

3-Flute Roughing End Mill



(Order No)	D1	L1	D	L
290005	5.00	13.00	6.00	50.00
290006	6.00	15.00	6.00	50.00
290008	8.00	20.00	8.00	60.00
290010	10.00	25.00	10.00	75.00
290012	12.00	30.00	12.00	75.00
290014	14.00	35.00	14.00	80.00
290016	16.00	40.00	16.00	90.00
290018	18.00	45.00	18.00	100.00
290020	20.00	45.00	20.00	100.00
290006L	6.00	30.00	6.00	75.00
290008L	8.00	40.00	8.00	100.00
290010L	10.00	40.00	10.00	100.00
290012L	12.00	45.00	12.00	100.00

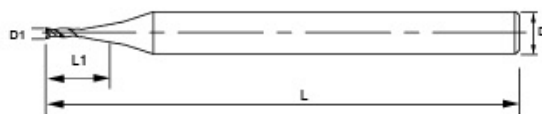
4-Flute Roughing End Mill



(Order No)	D1	L1	D	L
300005	5.00	13.00	6.00	50.00
300006	6.00	15.00	6.00	50.00
300008	8.00	20.00	8.00	60.00
300010	10.00	25.00	10.00	75.00
300012	12.00	30.00	12.00	75.00
300014	14.00	35.00	14.00	80.00
300016	16.00	40.00	16.00	90.00
300018	18.00	45.00	18.00	100.00
300020	20.00	45.00	20.00	100.00
300006L	6.00	30.00	6.00	75.00
300008L	8.00	40.00	8.00	100.00
300010L	10.00	40.00	10.00	100.00
300012L	12.00	45.00	12.00	100.00

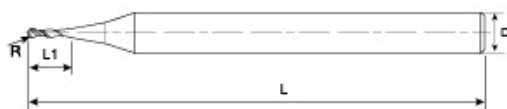
Micro End Mill

2-Flute Micro End Mill



(Order No)	D1	L1	D	L
2E-D0.1	0.10	0.20	4.00	50.00
2E-D0.15	0.15	0.30	4.00	50.00
2E-D0.2	0.20	0.40	4.00	50.00
2E-D0.25	0.25	0.50	4.00	50.00
2E-D0.3	0.30	0.60	4.00	50.00
2E-D0.4	0.40	0.80	4.00	50.00
2E-D0.5	0.50	1.00	4.00	50.00
2E-D0.6	0.60	1.20	4.00	50.00
2E-D0.7	0.70	1.40	4.00	50.00
2E-D0.8	0.80	1.60	4.00	50.00
2E-D0.9	0.90	1.80	4.00	50.00

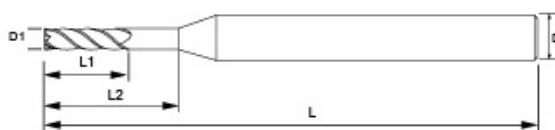
2-Flute Micro Ball Nose End Mill



(Order No)	D1	R	L1	D	L
2B-R0.05	0.10	R0.05	0.20	4.00	50.00
2B-R0.1	0.20	R0.10	0.40	4.00	50.00
2B-R0.15	0.30	R0.15	0.60	4.00	50.00
2B-R0.2	0.40	R0.20	0.80	4.00	50.00
2B-R0.25	0.50	R0.25	1.00	4.00	50.00
2B-R0.3	0.60	R0.30	1.20	4.00	50.00
2B-R0.35	0.70	R0.35	1.40	4.00	50.00
2B-R0.4	0.80	R0.40	1.60	4.00	50.00
2B-R0.45	0.90	R0.45	1.80	4.00	50.00

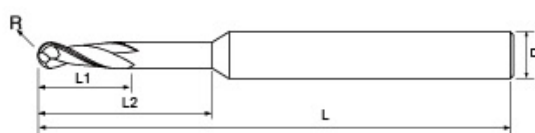
Long Neck End Mill

4-Flute Long Neck End Mill



(Order No)	D1	L1	L2	D	L
2E-D1.0	1.00	1.20	6/8/10/12/16/20	4.00	50.00
2E-D1.5	1.50	1.70	6/8/10/12/16/20	4.00	50.00
2E-D2.0	2.00	2.20	6/8/10/12/16/20	4.00	50.00
2E-D2.5	2.50	2.70	6/8/10/12/16/20	4.00	50.00
2E-D3.0	3.00	3.20	6/8/10/12/16/20	4.00	50.00

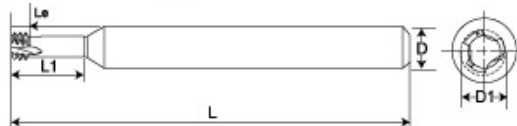
2-Flute Long Neck Ball Nose End Mill



(Order No)	D1	L1	L2	D	L
M-2B-R0.50	R0.50	1.20	6/8/10/12/16/20	4.00	50.00
M-2B-R0.75	R0.75	1.70	6/8/10/12/16/20	4.00	50.00
M-2B-R1.00	R1.00	2.20	6/8/10/12/16/20	4.00	50.00
M-2B-R1.25	R1.25	2.70	6/8/10/12/16/20	4.00	50.00
M-2B-R1.50	R1.50	3.20	6/8/10/12/16/20	4.00	50.00

Thread End Mill

Thread milling endmills



SUPER
MG

30°

4 Flutes

TiSiN



(Order No)	M	D	D1	L1	F	L
480001	M1.0*0.25	4.00	0.73	2.30	3.00	50.00
480002	M1.2*0.25	4.00	0.92	2.80	3.00	50.00
480003	M1.4*0.3	4.00	1.05	3.20	3.00	50.00
480004	M1.6*0.35	4.00	1.20	3.40	3.00	50.00
480005	M1.8*0.35	4.00	1.40	4.00	3.00	50.00
480006	M2.0*0.4	4.00	1.55	4.20	3.00	50.00
480007	M2.5*0.45	4.00	1.95	5.20	3.00	50.00
480008	M3.0*0.5	4.00	2.40	6.20	3.00	50.00
480009	M3.5*0.6	4.00	2.75	7.30	3.00	50.00
480010	M4.0*0.7	4.00	3.15	8.30	3.00	50.00
480011	M5.0*0.8	6.00	4.05	10.40	3.00	50.00
480012	M6.0*1.0	6.00	4.80	12.50	3.00	50.00
480013	M8.0*1.25	8.00	6.50	16.60	4.00	60.00
480014	M10*1.5	10.00	8.20	20.80	4.00	75.00
480015	M12*1.75	10.00	9.90	25.00	4.00	75.00
480016	M14*2.0	12.00	11.60	30.00	4.00	75.00
480017	M16*2.0	12.00	11.90	33.00	4.00	80.00
480018	M20*2.5	16.00	15.90	41.30	5.00	100.00

Thread milling endmills



SUPER
MG

35°

4 Flutes

TiSiN

P

K

M

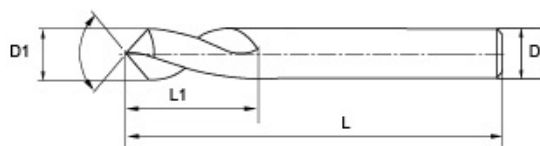
S



(Order No)	M	D	D1	L1	F	L	Z
490003	M3.0*0.5	4.00	2.40	6.00	3.00	50.00	12.00
490004	M4.0*0.7	4.00	3.15	8.00	3.00	50.00	12.00
490005	M5.0*0.8	4.00	3.90	10.00	3.00	50.00	13.00
490006	M6.0*1.0	6.00	4.80	12.00	3.00	50.00	12.00
490008	M8.0*1.25	8.00	6.50	16.25	4.00	60.00	13.00
490010	M10*1.5	10.00	8.20	21.00	4.00	75.00	14.00
490012	M12*1.75	10.00	9.90	24.50	4.00	75.00	14.00
490014	M14*2.0	12.00	11.60	28.00	4.00	75.00	14.00
490016	M16*2.0	14.00	13.60	32.00	4.00	80.00	16.00
490018	M18*2.5	16.00	14.80	36.00	4.00	100.00	14.00
490020	M20*2.5	18.00	17.10	40.00	4.00	100.00	16.00
490024	M24*3.0	20.00	19.90	50.00	4.00	100.00	16.00
490031	★ M8.0*1.0	6.00	5.90	16.00	3.00	60.00	16.00
490032	★ M10*1.0	8.00	7.90	20.00	3.00	60.00	20.00
490033	★ M12*1.0	10.00	9.90	24.00	4.00	75.00	24.00
490034	★ M10*1.25	8.00	7.70	20.00	3.00	60.00	16.00
490035	★ M12*1.5	10.00	9.40	24.00	4.00	75.00	16.00
490036	★ M14*1.5	12.00	11.20	28.50	4.00	83.00	19.00
490037	★ M16*1.5	12.00	11.90	33.00	4.00	83.00	22.00
490038	★ M20*2.0	12.00	11.90	32.00	4.00	83.00	16.00

Core Drill

Carbide core drill 60°, 90°, 120°



SUPER
MG

▲ RH

90°/120°

4 Flutes

TiAIN

P

K

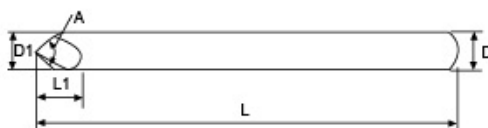
M



(Order No)	D1	L1	D	L
650003	3.00	12.00	3.00	50.00
650004	4.00	13.00	4.00	50.00
650005	5.00	16.00	5.00	50.00
650006	6.00	22.00	6.00	50.00
650008	8.00	24.00	8.00	60.00
650010	10.00	24.00	10.00	72.00
650012	12.00	28.00	12.00	75.00
650014	14.00	30.00	14.00	80.00
650016	16.00	32.00	16.00	90.00
650018	18.00	35.00	18.00	100.00
650020	20.00	38.00	20.00	100.00

Chamfer End Mill

Carbide Chamfering Cutter 60°, 90°, 120°



SUPER
MG

90°

4 Flutes

TiAIN

P

K

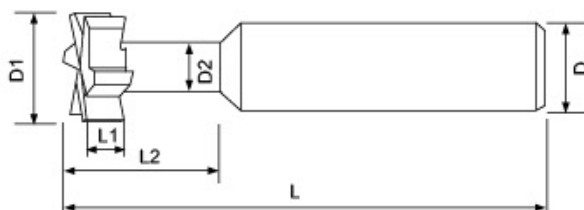
M



(Order No)	D1	L1	L2	D	L
670001	1.00	3.00	90.00	50.00	4.00
670002	2.00	3.00	90.00	50.00	4.00
670003	3.00	3.00	90.00	50.00	4.00
670004	4.00	4.00	90.00	50.00	4.00
670006	6.00	6.00	90.00	50.00	6.00
670008	8.00	8.00	90.00	60.00	8.00
670010	10.00	10.00	90.00	72.00	10.00
670012	12.00	12.00	90.00	75.00	12.00
670014	14.00	14.00	90.00	80.00	14.00
670016	16.00	16.00	90.00	90.00	16.00

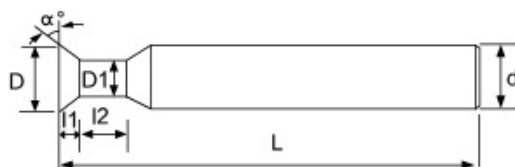
T-Shape Cutter

T-Shape Cutter



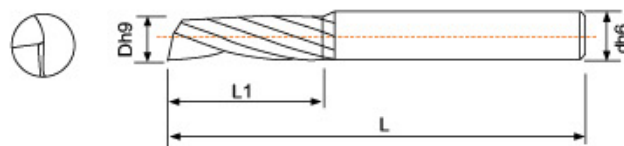
(Order No)	D1	L1	D2	L2	D	L	Z
4E-06D003	3	0.5	1.5	6	4	50	4
4E-06D003	3	1	1.5	6	4	50	4
4E-06D003	3	1.5	1.5	6	4	50	4
4E-06D003	3	2	1.5	6	4	50	4
4E-06D004	4	0.5	2	8	4	50	4
4E-06D004	4	1	2	8	4	50	4
4E-06D004	4	1.5	2	8	4	50	4
4E-06D004	4	2	2	8	4	50	4
4E-06D006	6	0.5	3	10	6	50	4
4E-06D006	6	1	3	10	6	50	4
4E-06D006	6	1.5	3	10	6	50	4
4E-06D006	6	2	3	10	6	50	4
4E-06D006	6	2.5	3	10	6	50	4
4E-06D006	6	3	3	10	6	50	4
4E-06D008	8	0.5	4	12	8	50	4
4E-06D008	8	1	4	12	8	50	4
4E-06D008	8	1.5	4	12	8	50	4
4E-06D008	8	2	4	12	8	50	4
4E-06D008	8	2.5	4	12	8	50	4
4E-06D008	8	3	4	12	8	50	4
4E-06D0010	10	1	5	15	10	60	4
4E-06D0010	10	1.5	5	15	10	60	4
4E-06D0010	10	2	5	15	10	60	4
4E-06D0010	10	2.5	5	15	10	60	4
4E-06D0010	10	3	5	15	10	60	4
4E-06D0010	10	4	5	15	10	60	4
4E-06D0010	10	5	5	15	10	60	4
4E-06D0012	12	1	6	15	12	60	4
4E-06D0012	12	1.5	6	15	12	60	4
4E-06D0012	12	2	6	15	12	60	4
4E-06D0012	12	2.5	6	15	12	60	4
4E-06D0012	12	3	6	15	12	60	4
4E-06D0012	12	4	6	15	12	60	4
4E-06D0012	12	5	6	15	12	60	4

Dovetail Cutter

[illegible]

Single Flute End Mill

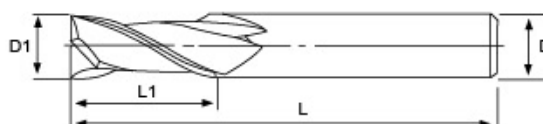
Single Flute End Mill



(Order No)	D	L1	d	L
S-D0010L03	1	3	3.175	38.5
S-D0010L06	1	6	3.175	38.5
S-D0012L06	1.2	6	3.175	38.5
S-D0012L10	1.2	10	3.175	38.5
S-D0015L08	1.5	8	3.175	38.5
S-D0015L12	1.5	12	3.175	38.5
S-D0020L08	2	8	3.175	38.5
S-D0020L12	2	12	3.175	38.5
S-D0020L15	2	15	3.175	38.5
S-D0020L17	2	17	3.175	45
S-D0020L22	2	22	3.175	45
S-D0025L12	2.5	12	3.175	38.5
S-D0025L15	2.5	15	3.175	38.5
S-D0025L22	2.5	22	3.175	45
S-D3175L06	3.175	6	3.175	38.5
S-D3175L08	3.175	8	3.175	38.5
S-D3175L12	3.175	12	3.175	38.5
S-D3175L15	3.175	15	3.175	38.5
S-D3175L17	3.175	17	3.175	38.5
S-D3175L22	3.175	22	3.175	45
S-D3175L25	3.175	25	3.175	50
S-D3175L28	3.175	28	3.175	50
S-D3175L32	3.175	32	3.175	60
S-D3175L42	3.175	42	3.175	70
S-D0030L12	3	12	4	50
S-D0030L15	3	15	4	50
S-D0030L17	3	17	4	50
S-D0030L22	3	22	4	50
S-D0040L12	4	12	4	40
S-D0040L15	4	15	4	40
S-D0040L17	4	17	4	40
S-D0040L22	4	22	4	45
S-D0040L25	4	25	4	50
S-D0040L28	4	28	4	50
S-D0040L32	4	32	4	60
S-D0040L42	4	42	4	70
S-D0040L52	4	52	4	80
S-D0050L17	5	17	5	50
S-D0050L22	5	22	5	50
S-D0050L32	5	32	5	60
S-D0030L12	3	12	6	50
S-D0030L17	3	17	6	50
S-D0040L17	4	17	6	50
S-D0040L22	4	22	6	50
S-D0050L22	5	22	6	50
S-D0050L25	5	25	6	55
S-D0060L17	6	17	6	50
S-D0060L22	6	22	6	50
S-D0060L25	6	25	6	50
S-D0060L32	6	32	6	60
S-D0060L42	6	42	6	70
S-D0060L52	6	52	6	80
S-D0080L32	8	32	8	80
S-D00100L32	10	32	10	80
S-D00120L32	12	32	12	80
S-D00140L32	14	32	14	100
S-D00140L42	14	42	14	100

Compound End Mill

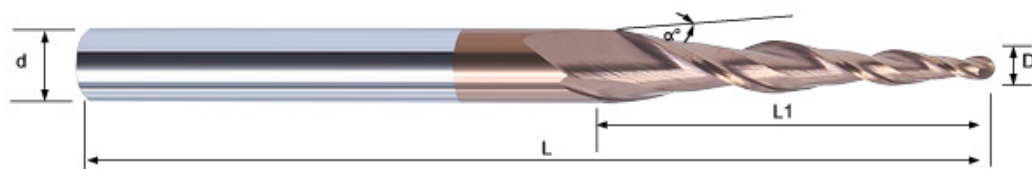
Compound End Mill



(Order No)	D1	L1	D	L
M-2E-U3175L06	3.175	6	3.175	38.5
M-2E-U3175L08	3.175	8	3.175	38.5
M-2E-U3175L12	3.175	12	3.175	38.5
M-2E-U3175L15	3.175	15	3.175	38.5
M-2E-U3175L17	3.175	17	3.175	38.5
M-2E-U3175L22	3.175	22	3.175	45
M-2E-U3175L25	3.175	25	3.175	50
M-2E-U3175L28	3.175	28	3.175	50
M-2E-U3175L32	3.175	32	3.175	60
M-2E-U3175L42	3.175	42	3.175	70
M-2E-U0004L12	4	12	4	40
M-2E-U0004L15	4	15	4	40
M-2E-U0004L17	4	17	4	40
M-2E-U0004L22	4	22	4	45
M-2E-U0004L25	4	25	4	50
M-2E-U0004L28	4	28	4	50
M-2E-U0004L32	4	32	4	60
M-2E-U0004L42	4	42	4	70
M-2E-U0004L52	4	52	4	80
M-2E-U0004L17	5	17	5	50
M-2E-U0004L22	5	22	5	50
M-2E-U0004L32	5	32	5	60
M-2E-U0004L17	6	17	6	50
M-2E-U0004L22	6	22	6	50
M-2E-U0004L25	6	25	6	50
M-2E-U0004L32	6	32	6	60
M-2E-U0004L42	6	42	6	70
M-2E-U0004L52	6	52	6	80
M-2E-U0004L32	8	32	8	80
M-2E-U0004L32	10	32	10	80
M-2E-U0004L32	12	32	12	80
M-2E-U0004L32	14	32	14	100

Taper Ball Nose End Mill

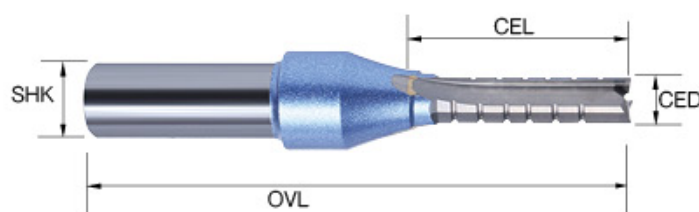
Taper Ball Nose End Mill



(Order No)	D	L1	L	d	α°
4D010170050	R0.1	17	50	3.175	5.02
4D020015050	R0.2	15	50	4	6.93
4D025015050	R0.25	15	50	4	6.75
4D050015050	R0.5	15	50	4	5.89
4D100015050	R1.0	15	50	4	4.07
4D015015050	R1.5	15	50	4	2.12
6D025020050	R0.25	20	50	6	7.92
6D050020050	R0.50	20	50	6	6.97
6D075020050	R0.75	20	50	6	6.65
6D100020050	R1.0	20	50	6	5.99
6D150020050	R1.5	20	50	6	4.62
6D025031075	R0.25	30.5	75	6	5.19
6D050031075	R0.50	30.5	75	6	4.76
6D075031075	R0.75	30.5	75	6	4.33
6D100031075	R1.0	30.5	75	6	3.88
6D150031075	R1.5	30.5	75	6	2.96
6D200031075	R2.0	30.5	75	6	2.01
6D050045085	R0.5	45	85	6	3.22
6D075045085	R0.75	45	85	6	2.91
6D100045085	R1.0	45	85	6	2.6
6D150045085	R1.5	45	85	6	1.97
6D200045085	R2.0	45	85	6	1.33
8D050060100	R0.5	60	100	8	3.37
8D075060100	R0.75	60	100	8	3.14
8D100060100	R1.0	60	100	8	2.91
8D150060100	R1.5	60	100	8	2.45
8D200060100	R2.0	60	100	8	1.97
8D300060100	R3.0	60	100	8	1.01
8D100060120	R1.0	60	120	8	2.91
8D150060120	R1.5	60	120	8	2.45
8D200060120	R2.0	60	120	8	1.97
8D300060120	R3.0	60	120	8	1.01
10D050100150	R0.5	100	150	10	2.59
10D100100150	R1.0	100	150	10	2.31
10D150100150	R1.5	100	150	10	2.04
10D200100150	R2.0	100	150	10	1.75
10D300100150	R3.0	100	150	10	1.18

TCT End Mill

TCT Three Straight Flutes Rough Milling Cutter



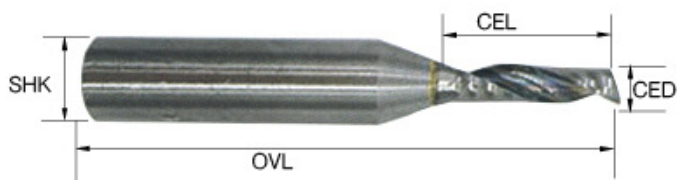
(Order No)	CED	CEL	SHK	OVL
TCT-S-3.5	3.5	23	12.7	CEL+50
TCT-S-4.0	4.0	20	12.7	CEL+50
TCT-S-5.0	5.0	20	12.7	CEL+50
TCT-S-6.0	6.0	20	12.7	CEL+50
TCT-S-6.0	6.0	22	12.7	CEL+50
TCT-S-6.0	6.0	25	12.7	CEL+50
TCT-S-6.0	6.0	26	12.7	CEL+50
TCT-S-6.0	6.0	28	12.7	CEL+50
TCT-S-6.0	6.0	30	12.7	CEL+50
TCT-S-6.5	6.5	22	12.7	CEL+50
TCT-S-6.5	6.5	25	12.7	CEL+50
TCT-S-7.0	7.0	20	12.7	CEL+50
TCT-S-7.0	7.0	22	12.7	CEL+50
TCT-S-7.0	7.0	25	12.7	CEL+50
TCT-S-7.0	7.0	30	12.7	CEL+50
TCT-S-8.0	8.0	20	12.7	CEL+50
TCT-S-8.0	8.0	22	12.7	CEL+50
TCT-S-8.0	8.0	24	12.7	CEL+50
TCT-S-8.0	8.0	25	12.7	CEL+50
TCT-S-8.0	8.0	26	12.7	CEL+50
TCT-S-8.0	8.0	28	12.7	CEL+50
TCT-S-8.0	8.0	30	12.7	CEL+50
TCT-S-8.0	8.0	32	12.7	CEL+50
TCT-S-8.0	8.0	35	12.7	CEL+50
TCT-S-8.0	8.0	38	12.7	CEL+50
TCT-S-8.0	8.0	40	12.7	CEL+50
TCT-S-9.0	9.0	20	12.7	CEL+50

TCT Three Straight Flutes Rough Milling Cutter

(Order No)	CED	CEL	SHK	OVL
TCT-S-9.0	9.0	25	12.7	CEL+50
TCT-S-9.0	9.0	30	12.7	CEL+50
TCT-S-9.0	9.0	32	12.7	CEL+50
TCT-S-9.0	9.0	35	12.7	CEL+50
TCT-S-10.0	10.0	25	12.7	CEL+50
TCT-S-10.0	10.0	28	12.7	CEL+50
TCT-S-10.0	10.0	30	12.7	CEL+50
TCT-S-10.0	10.0	33	12.7	CEL+50
TCT-S-10.0	10.0	35	12.7	CEL+50
TCT-S-10.0	10.0	37	12.7	CEL+50
TCT-S-10.0	10.0	40	12.7	CEL+50

Good for: Multilayer board, plywood, polyurethane board, particle board, density board, etc.

TCT Single-edged Helical End Mills

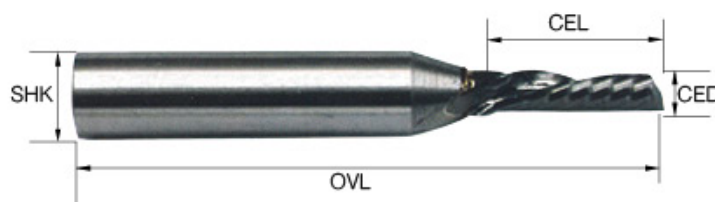


(Order No)	CED	CEL	SHK	OVL
TCT-S-3.175	3.175	22	12.7	CEL+50
TCT-S-3.5	3.5	22	12.7	CEL+50
TCT-S-4.0	4.0	22	12.7	CEL+50
TCT-S-5.0	5.0	22	12.7	CEL+50
TCT-S-5.0	5.0	25	12.7	CEL+50
TCT-S-6.0	6.0	22	12.7	CEL+50
TCT-S-6.0	6.0	25	12.7	CEL+50
TCT-S-6.0	6.0	28	12.7	CEL+50
TCT-S-6.0	6.0	32	12.7	CEL+50

Good for: Multilayer board, plywood, MDF, acrylic, plastic board, PVC, etc.

TCT End Mill

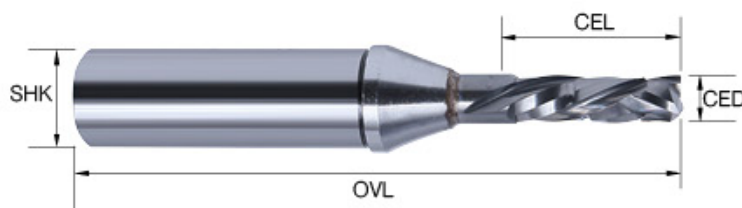
TCT single-edged helical downcut end mills



(Order No)	CED	CEL	SHK	OVL
TCT-S-3.175	3.175	22	12.7	CEL+50
TCT-S-3.5	3.5	22	12.7	CEL+50
TCT-S-4.0	4.0	22	12.7	CEL+50
TCT-S-5.0	5.0	22	12.7	CEL+50
TCT-S-6.0	6.0	22	12.7	CEL+50
TCT-S-6.0	6.0	25	12.7	CEL+50

Good for: Multilayer board, plywood, MDF, acrylic, plastic board, PVC, etc.

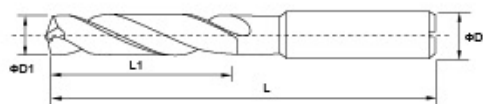
TCT special milling cutter for double-sided plaque



(Order No)	CED	CEL	SHK	OVL
TCT-S-6.0	6.0	22	12.7	CEL+50
TCT-S-5.0	5.0	25	12.7	CEL+50
TCT-S-6.0	6.0	28	12.7	CEL+50
TCT-S-8.0	8.0	22	12.7	CEL+50
TCT-S-8.0	8.0	25	12.7	CEL+50
TCT-S-8.0	8.0	28	12.7	CEL+50
TCT-S-8.0	8.0	30	12.7	CEL+50

Good for: Especially suitable for high-speed cutting for double-sided polyurethane board, particle board, etc.
High rigidity and superb durability.

Carbide Drill 3XD



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3XD



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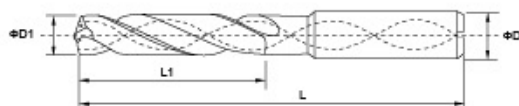
M



(Order No)	D1	L	L1	D
30000300	3.00	62.00	20.00	6.00
30000310	3.10	62.00	20.00	6.00
30000320	3.20	62.00	20.00	6.00
30000330	3.30	62.00	20.00	6.00
30000340	3.40	62.00	20.00	6.00
30000350	3.50	62.00	20.00	6.00
30000360	3.60	62.00	20.00	6.00
30000370	3.70	62.00	20.00	6.00
30000380	3.80	66.00	24.00	6.00
30000390	3.90	66.00	24.00	6.00
30000400	4.00	66.00	24.00	6.00
30000410	4.10	66.00	24.00	6.00
30000420	4.20	66.00	24.00	6.00
30000430	4.30	66.00	24.00	6.00
30000440	4.40	66.00	24.00	6.00
30000450	4.50	66.00	24.00	6.00
30000460	4.60	66.00	24.00	6.00
30000470	4.70	66.00	24.00	6.00
30000480	4.80	66.00	28.00	6.00
30000490	4.90	66.00	28.00	6.00
30000500	5.00	66.00	28.00	6.00
30000510	5.10	66.00	28.00	6.00
30000520	5.20	66.00	28.00	6.00
30000530	5.30	66.00	28.00	6.00
30000540	5.40	66.00	28.00	6.00
30000550	5.50	66.00	28.00	6.00
30000560	5.60	66.00	28.00	6.00
30000570	5.70	66.00	28.00	6.00
30000580	5.80	66.00	28.00	6.00
30000590	5.90	66.00	28.00	6.00
30000600	6.00	66.00	28.00	6.00
30000610	6.10	79.00	34.00	8.00
30000620	6.20	79.00	34.00	8.00
30000630	6.30	79.00	34.00	8.00
30000640	6.40	79.00	34.00	8.00
30000650	6.50	79.00	34.00	8.00
30000660	6.60	79.00	34.00	8.00
30000670	6.70	79.00	34.00	8.00
30000680	6.80	79.00	34.00	8.00
30000690	6.90	79.00	34.00	8.00
30000700	7.00	79.00	34.00	8.00
30000710	7.10	79.00	41.00	8.00
30000720	7.20	79.00	41.00	8.00
30000730	7.30	79.00	41.00	8.00
30000740	7.40	79.00	41.00	8.00
30000750	7.50	79.00	41.00	8.00
30000760	7.60	79.00	41.00	8.00
30000770	7.70	79.00	41.00	8.00
30000780	7.80	79.00	41.00	8.00
30000790	7.90	79.00	41.00	8.00
30000800	8.00	79.00	41.00	8.00
30000810	8.10	89.00	47.00	10.00
30000820	8.20	89.00	47.00	10.00
30000830	8.30	89.00	47.00	10.00
30000840	8.40	89.00	47.00	10.00
30000850	8.50	89.00	47.00	10.00
30000860	8.60	89.00	47.00	10.00
30000870	8.70	89.00	47.00	10.00
30000880	8.80	89.00	47.00	10.00
30000890	8.90	89.00	47.00	10.00
30000900	9.00	89.00	47.00	10.00
30000910	9.10	89.00	47.00	10.00
30000920	9.20	89.00	47.00	10.00
30000930	9.30	89.00	47.00	10.00
30000940	9.40	89.00	47.00	10.00
30000950	9.50	89.00	47.00	10.00
30000960	9.60	89.00	47.00	10.00
30000970	9.70	89.00	47.00	10.00
30000980	9.80	89.00	47.00	10.00
30000990	9.90	89.00	47.00	10.00

(Order No)	D1	L	L1	D
30001000	10.00	89.00	47.00	10.00
30001010	10.10	102.00	55.00	12.00
30001020	10.20	102.00	55.00	12.00
30001030	10.30	102.00	55.00	12.00
30001040	10.40	102.00	55.00	12.00
30001050	10.50	102.00	55.00	12.00
30001060	10.60	102.00	55.00	12.00
30001070	10.70	102.00	55.00	12.00
30001080	10.80	102.00	55.00	12.00
30001090	10.90	102.00	55.00	12.00
30001100	11.00	102.00	55.00	12.00
30001110	11.10	102.00	55.00	12.00
30001120	11.20	102.00	55.00	12.00
30001130	11.30	102.00	55.00	12.00
30001140	11.40	102.00	55.00	12.00
30001150	11.50	102.00	55.00	12.00
30001160	11.60	102.00	55.00	12.00
30001170	11.70	102.00	55.00	12.00
30001180	11.80	102.00	55.00	12.00
30001190	11.90	102.00	55.00	12.00
30001200	12.00	102.00	55.00	12.00
30001210	12.10	107.00	60.00	14.00
30001220	12.20	107.00	60.00	14.00
30001230	12.30	107.00	60.00	14.00
30001240	12.40	107.00	60.00	14.00
30001250	12.50	107.00	60.00	14.00
30001260	12.60	107.00	60.00	14.00
30001270	12.70	107.00	60.00	14.00
30001280	12.80	107.00	60.00	14.00
30001290	12.90	107.00	60.00	14.00
30001300	13.00	107.00	60.00	14.00
30001310	13.10	107.00	60.00	14.00
30001320	13.20	107.00	60.00	14.00
30001330	13.30	107.00	60.00	14.00
30001340	13.40	107.00	60.00	14.00
30001350	13.50	107.00	60.00	14.00
30001360	13.60	107.00	60.00	14.00
30001370	13.70	107.00	60.00	14.00
30001380	13.80	107.00	60.00	14.00
30001390	13.90	107.00	60.00	14.00
30001400	14.00	107.00	60.00	14.00
30001410	14.10	115.00	65.00	16.00
30001420	14.20	115.00	65.00	16.00
30001430	14.30	115.00	65.00	16.00
30001440	14.40	115.00	65.00	16.00
30001450	14.50	115.00	65.00	16.00
30001460	14.60	115.00	65.00	16.00
30001470	14.70	115.00	65.00	16.00
30001480	14.80	115.00	65.00	16.00
30001490	14.90	115.00	65.00	16.00
30001500	15.00	115.00	65.00	16.00
30001510	15.10	115.00	65.00	16.00
30001520	15.20	115.00	65.00	16.00
30001530	15.30	115.00	65.00	16.00
30001540	15.40	115.00	65.00	16.00
30001550	15.50	115.00	65.00	16.00
30001560	15.60	115.00	65.00	16.00
30001570	15.70	115.00	65.00	16.00
30001580	15.80	115.00	65.00	16.00
30001590	15.90	115.00	65.00	16.00
30001600	16.00	115.00	65.00	16.00
30001650	16.50	123.00	73.00	18.00
30001700	17.00	123.00	73.00	18.00
30001750	17.50	123.00	73.00	18.00
30001800	18.00	123.00	73.00	18.00
30001850	18.50	131.00	79.00	20.00
30001880	18.80	131.00	79.00	20.00
30001900	19.00	131.00	79.00	20.00
30001950	19.50	131.00	79.00	20.00
30002000	20.00	131.00	79.00	20.00

Carbide Drill 3XD



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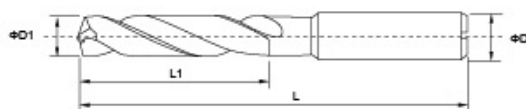
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(Order No)	D1	L	L1	D
30100300	3.00	62.00	20.00	6.00
30100310	3.10	62.00	20.00	6.00
30100320	3.20	62.00	20.00	6.00
30100330	3.30	62.00	20.00	6.00
30100340	3.40	62.00	20.00	6.00
30100350	3.50	62.00	20.00	6.00
30100360	3.60	62.00	20.00	6.00
30100370	3.70	62.00	20.00	6.00
30100380	3.80	66.00	24.00	6.00
30100390	3.90	66.00	24.00	6.00
30100400	4.00	66.00	24.00	6.00
30100410	4.10	66.00	24.00	6.00
30100420	4.20	66.00	24.00	6.00
30100430	4.30	66.00	24.00	6.00
30100440	4.40	66.00	24.00	6.00
30100450	4.50	66.00	24.00	6.00
30100460	4.60	66.00	24.00	6.00
30100470	4.70	66.00	24.00	6.00
30100480	4.80	66.00	28.00	6.00
30100490	4.90	66.00	28.00	6.00
30100500	5.00	66.00	28.00	6.00
30100510	5.10	66.00	28.00	6.00
30100520	5.20	66.00	28.00	6.00
30100530	5.30	66.00	28.00	6.00
30100540	5.40	66.00	28.00	6.00
30100550	5.50	66.00	28.00	6.00
30100560	5.60	66.00	28.00	6.00
30100570	5.70	66.00	28.00	6.00
30100580	5.80	66.00	28.00	6.00
30100590	5.90	66.00	28.00	6.00
30100600	6.00	66.00	28.00	6.00
30100610	6.10	79.00	34.00	8.00
30100620	6.20	79.00	34.00	8.00
30100630	6.30	79.00	34.00	8.00
30100640	6.40	79.00	34.00	8.00
30100650	6.50	79.00	34.00	8.00
30100660	6.60	79.00	34.00	8.00
30100670	6.70	79.00	34.00	8.00
30100680	6.80	79.00	34.00	8.00
30100690	6.90	79.00	34.00	8.00
30100700	7.00	79.00	34.00	8.00
30100710	7.10	79.00	41.00	8.00
30100720	7.20	79.00	41.00	8.00
30100730	7.30	79.00	41.00	8.00
30100740	7.40	79.00	41.00	8.00
30100750	7.50	79.00	41.00	8.00
30100760	7.60	79.00	41.00	8.00
30100770	7.70	79.00	41.00	8.00
30100780	7.80	79.00	41.00	8.00
30100790	7.90	79.00	41.00	8.00
30100800	8.00	79.00	41.00	8.00
30100810	8.10	89.00	47.00	10.00
30100820	8.20	89.00	47.00	10.00
30100830	8.30	89.00	47.00	10.00
30100840	8.40	89.00	47.00	10.00
30100850	8.50	89.00	47.00	10.00
30100860	8.60	89.00	47.00	10.00
30100870	8.70	89.00	47.00	10.00
30100880	8.80	89.00	47.00	10.00
30100890	8.90	89.00	47.00	10.00
30100900	9.00	89.00	47.00	10.00
30100910	9.10	89.00	47.00	10.00
30100920	9.20	89.00	47.00	10.00
30100930	9.30	89.00	47.00	10.00
30100940	9.40	89.00	47.00	10.00
30100950	9.50	89.00	47.00	10.00
30100960	9.60	89.00	47.00	10.00
30100970	9.70	89.00	47.00	10.00
30100980	9.80	89.00	47.00	10.00
30100990	9.90	89.00	47.00	10.00

(Order No)	D1	L	L1	D
30101000	10.00	89.00	47.00	10.00
30101010	10.10	102.00	55.00	12.00
30101020	10.20	102.00	55.00	12.00
30101030	10.30	102.00	55.00	12.00
30101040	10.40	102.00	55.00	12.00
30101050	10.50	102.00	55.00	12.00
30101060	10.60	102.00	55.00	12.00
30101070	10.70	102.00	55.00	12.00
30101080	10.80	102.00	55.00	12.00
30101090	10.90	102.00	55.00	12.00
30101100	11.00	102.00	55.00	12.00
30101110	11.10	102.00	55.00	12.00
30101120	11.20	102.00	55.00	12.00
30101130	11.30	102.00	55.00	12.00
30101140	11.40	102.00	55.00	12.00
30101150	11.50	102.00	55.00	12.00
30101160	11.60	102.00	55.00	12.00
30101170	11.70	102.00	55.00	12.00
30101180	11.80	102.00	55.00	12.00
30101190	11.90	102.00	55.00	12.00
30101200	12.00	102.00	55.00	12.00
30101210	12.10	107.00	60.00	14.00
30101220	12.20	107.00	60.00	14.00
30101230	12.30	107.00	60.00	14.00
30101240	12.40	107.00	60.00	14.00
30101250	12.50	107.00	60.00	14.00
30101260	12.60	107.00	60.00	14.00
30101270	12.70	107.00	60.00	14.00
30101280	12.80	107.00	60.00	14.00
30101290	12.90	107.00	60.00	14.00
30101300	13.00	107.00	60.00	14.00
30101310	13.10	107.00	60.00	14.00
30101320	13.20	107.00	60.00	14.00
30101330	13.30	107.00	60.00	14.00
30101340	13.40	107.00	60.00	14.00
30101350	13.50	107.00	60.00	14.00
30101360	13.60	107.00	60.00	14.00
30101370	13.70	107.00	60.00	14.00
30101380	13.80	107.00	60.00	14.00
30101390	13.90	107.00	60.00	14.00
30101400	14.00	107.00	60.00	14.00
30101410	14.10	115.00	65.00	16.00
30101420	14.20	115.00	65.00	16.00
30101430	14.30	115.00	65.00	16.00
30101440	14.40	115.00	65.00	16.00
30101450	14.50	115.00	65.00	16.00
30101460	14.60	115.00	65.00	16.00
30101470	14.70	115.00	65.00	16.00
30101480	14.80	115.00	65.00	16.00
30101490	14.90	115.00	65.00	16.00
30101500	15.00	115.00	65.00	16.00
30101510	15.10	115.00	65.00	16.00
30101520	15.20	115.00	65.00	16.00
30101530	15.30	115.00	65.00	16.00
30101540	15.40	115.00	65.00	16.00
30101550	15.50	115.00	65.00	16.00
30101560	15.60	115.00	65.00	16.00
30101570	15.70	115.00	65.00	16.00
30101580	15.80	115.00	65.00	16.00
30101590	15.90	115.00	65.00	16.00
30101600	16.00	115.00	65.00	16.00
30101650	16.50	123.00	73.00	18.00
30101700	17.00	123.00	73.00	18.00
30101750	17.50	123.00	73.00	18.00
30101800	18.00	123.00	73.00	18.00
30101850	18.50	131.00	79.00	20.00
30101880	18.80	131.00	79.00	20.00
30101900	19.00	131.00	79.00	20.00
30101950	19.50	131.00	79.00	20.00
30102000	20.00	131.00	79.00	20.00

Carbide Drill 5XD



DIN
6537

5XD

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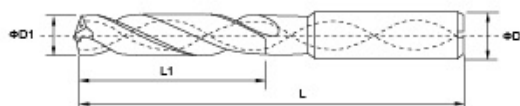
M



(Order No)	D1	L	L1	D
50000200	2.00	38.00	12.00	3.00
50000205	2.05	38.00	12.00	3.00
50000210	2.10	38.00	12.00	3.00
50000215	2.15	40.00	13.00	3.00
50000220	2.20	40.00	13.00	3.00
50000225	2.25	40.00	13.00	3.00
50000230	2.30	40.00	13.00	3.00
50000235	2.35	43.00	14.00	3.00
50000240	2.40	40.00	14.00	3.00
50000245	2.45	40.00	14.00	3.00
50000250	2.50	40.00	14.00	3.00
50000255	2.55	40.00	14.00	3.00
50000260	2.60	40.00	14.00	3.00
50000265	2.65	46.00	16.00	3.00
50000270	2.70	46.00	16.00	3.00
50000275	2.75	46.00	16.00	3.00
50000280	2.80	46.00	16.00	3.00
50000285	2.85	46.00	16.00	3.00
50000290	2.90	46.00	16.00	3.00
50000295	2.95	46.00	16.00	3.00
50000300	3.00	66.00	28.00	6.00
50000310	3.10	66.00	28.00	6.00
50000320	3.20	66.00	28.00	6.00
50000330	3.30	66.00	28.00	6.00
50000340	3.40	66.00	28.00	6.00
50000350	3.50	66.00	28.00	6.00
50000360	3.60	66.00	28.00	6.00
50000370	3.70	66.00	28.00	6.00
50000380	3.80	74.00	36.00	6.00
50000390	3.90	74.00	36.00	6.00
50000400	4.00	74.00	36.00	6.00
50000410	4.10	74.00	36.00	6.00
50000420	4.20	74.00	36.00	6.00
50000430	4.30	74.00	36.00	6.00
50000440	4.40	74.00	36.00	6.00
50000450	4.50	74.00	36.00	6.00
50000460	4.60	74.00	36.00	6.00
50000470	4.70	74.00	36.00	6.00
50000480	4.80	82.00	44.00	6.00
50000490	4.90	82.00	44.00	6.00
50000500	5.00	82.00	44.00	6.00
50000510	5.10	82.00	44.00	6.00
50000520	5.20	82.00	44.00	6.00
50000530	5.30	82.00	44.00	6.00
50000540	5.40	82.00	44.00	6.00
50000550	5.50	82.00	44.00	6.00
50000560	5.60	82.00	44.00	6.00
50000570	5.70	82.00	44.00	6.00
50000580	5.80	82.00	44.00	6.00
50000590	5.90	82.00	44.00	6.00
50000600	6.00	82.00	44.00	6.00
50000610	6.10	91.00	53.00	8.00
50000620	6.20	91.00	53.00	8.00
50000630	6.30	91.00	53.00	8.00
50000640	6.40	91.00	53.00	8.00
50000650	6.50	91.00	53.00	8.00
50000660	6.60	91.00	53.00	8.00
50000670	6.70	91.00	53.00	8.00
50000680	6.80	91.00	53.00	8.00
50000690	6.90	91.00	53.00	8.00
50000700	7.00	91.00	53.00	8.00
50000710	7.10	91.00	53.00	8.00
50000720	7.20	91.00	53.00	8.00
50000730	7.30	91.00	53.00	8.00
50000740	7.40	91.00	53.00	8.00
50000750	7.50	91.00	53.00	8.00
50000760	7.60	91.00	53.00	8.00
50000770	7.70	91.00	53.00	8.00
50000780	7.80	91.00	53.00	8.00
50000790	7.90	91.00	53.00	8.00
50000800	8.00	91.00	53.00	8.00
50000810	8.10	103.00	61.00	10.00
50000820	8.20	103.00	61.00	10.00
50000830	8.30	103.00	61.00	10.00
50000840	8.40	103.00	61.00	10.00
50000850	8.50	103.00	61.00	10.00
50000860	8.60	103.00	61.00	10.00
50000870	8.70	103.00	61.00	10.00
50000880	8.80	103.00	61.00	10.00
50000890	8.90	103.00	61.00	10.00

(Order No)	D1	L	L1	D
50000900	9.00	103.00	61.00	10.00
50000910	9.10	103.00	61.00	10.00
50000920	9.20	103.00	61.00	10.00
50000930	9.30	103.00	61.00	10.00
50000940	9.40	103.00	61.00	10.00
50000950	9.50	103.00	61.00	10.00
50000960	9.60	103.00	61.00	10.00
50000970	9.70	103.00	61.00	10.00
50000980	9.80	103.00	61.00	10.00
50000990	9.90	103.00	61.00	10.00
50001000	10.00	103.00	61.00	10.00
50001010	10.10	118.00	71.00	12.00
50001020	10.20	118.00	71.00	12.00
50001030	10.30	118.00	71.00	12.00
50001040	10.40	118.00	71.00	12.00
50001050	10.50	118.00	71.00	12.00
50001060	10.60	118.00	71.00	12.00
50001070	10.70	118.00	71.00	12.00
50001080	10.80	118.00	71.00	12.00
50001090	10.90	118.00	71.00	12.00
50001100	11.00	118.00	71.00	12.00
50001110	11.10	118.00	71.00	12.00
50001120	11.20	118.00	71.00	12.00
50001130	11.30	118.00	71.00	12.00
50001140	11.40	118.00	71.00	12.00
50001150	11.50	118.00	71.00	12.00
50001160	11.60	118.00	71.00	12.00
50001170	11.70	118.00	71.00	12.00
50001180	11.80	118.00	71.00	12.00
50001190	11.90	118.00	71.00	12.00
50001200	12.00	118.00	71.00	12.00
50001210	12.10	124.00	77.00	14.00
50001220	12.20	124.00	77.00	14.00
50001230	12.30	124.00	77.00	14.00
50001240	12.40	124.00	77.00	14.00
50001250	12.50	124.00	77.00	14.00
50001260	12.60	124.00	77.00	14.00
50001270	12.70	124.00	77.00	14.00
50001280	12.80	124.00	77.00	14.00
50001290	12.90	124.00	77.00	14.00
50001300	13.00	124.00	77.00	14.00
50001310	13.10	124.00	77.00	14.00
50001320	13.20	124.00	77.00	14.00
50001330	13.30	124.00	77.00	14.00
50001340	13.40	124.00	77.00	14.00
50001350	13.50	124.00	77.00	14.00
50001360	13.60	124.00	77.00	14.00
50001370	13.70	124.00	77.00	14.00
50001380	13.80	124.00	77.00	14.00
50001390	13.90	124.00	77.00	14.00
50001400	14.00	124.00	77.00	14.00
50001410	14.10	133.00	83.00	16.00
50001420	14.20	133.00	83.00	16.00
50001430	14.30	133.00	83.00	16.00
50001440	14.40	133.00	83.00	16.00
50001450	14.50	133.00	83.00	16.00
50001460	14.60	133.00	83.00	16.00
50001470	14.70	133.00	83.00	16.00
50001480	14.80	133.00	83.00	16.00
50001490	14.90	133.00	83.00	16.00
50001500	15.00	133.00	83.00	16.00
50001510	15.10	133.00	83.00	16.00
50001520	15.20	133.00	83.00	16.00
50001530	15.30	133.00	83.00	16.00
50001540	15.40	133.00	83.00	16.00
50001550	15.50	133.00	83.00	16.00
50001560	15.60	133.00	83.00	16.00
50001570	15.70	133.00	83.00	16.00
50001580	15.80	133.00	83.00	16.00
50001590	15.90	133.00	83.00	16.00
50001600	16.00	133.00	83.00	16.00
50001650	16.50	143.00	93.00	18.00
50001700	17.00	143.00	93.00	18.00
50001750	17.50	143.00	93.00	18.00
50001800	18.00	143.00	93.00	18.00
50001850	18.50	153.00	101.00	20.00
50001880	18.80	153.00	101.00	20.00
50001900	19.00	153.00	101.00	20.00
50001950	19.50	153.00	101.00	20.00
50002000	20.00	153.00	101.00	20.00

Carbide Drill 5XD



DIN
6537L

5XD

↑RH

140°

TIAIN

P K M

P

K

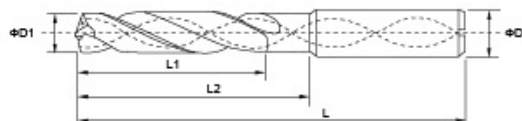
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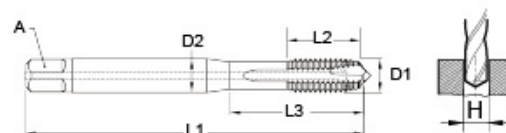
(Order No)	D1	L	L1	D
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50100310	3.10	66.00	28.00	6.00
50100320	3.20	66.00	28.00	6.00
50100330	3.30	66.00	28.00	6.00
50100340	3.40	66.00	28.00	6.00
50100350	3.50	66.00	28.00	6.00
50100360	3.60	66.00	28.00	6.00
50100370	3.70	66.00	28.00	6.00
50100380	3.80	74.00	36.00	6.00
50100390	3.90	74.00	36.00	6.00
50100400	4.00	74.00	36.00	6.00
50100410	4.10	74.00	36.00	6.00
50100420	4.20	74.00	36.00	6.00
50100430	4.30	74.00	36.00	6.00
50100440	4.40	74.00	36.00	6.00
50100450	4.50	74.00	36.00	6.00
50100460	4.60	74.00	36.00	6.00
50100470	4.70	74.00	36.00	6.00
50100480	4.80	82.00	44.00	6.00
50100490	4.90	82.00	44.00	6.00
50100500	5.00	82.00	44.00	6.00
50100510	5.10	82.00	44.00	6.00
50100520	5.20	82.00	44.00	6.00
50100530	5.30	82.00	44.00	6.00
50100540	5.40	82.00	44.00	6.00
50100550	5.50	82.00	44.00	6.00
50100560	5.60	82.00	44.00	6.00
50100570	5.70	82.00	44.00	6.00
50100580	5.80	82.00	44.00	6.00
50100590	5.90	82.00	44.00	6.00
50100600	6.00	82.00	44.00	6.00
50100610	6.10	91.00	53.00	8.00
50100620	6.20	91.00	53.00	8.00
50100630	6.30	91.00	53.00	8.00
50100640	6.40	91.00	53.00	8.00
50100650	6.50	91.00	53.00	8.00
50100660	6.60	91.00	53.00	8.00
50100670	6.70	91.00	53.00	8.00
50100680	6.80	91.00	53.00	8.00
50100690	6.90	91.00	53.00	8.00
50100700	7.00	91.00	53.00	8.00
50100710	7.10	91.00	53.00	8.00
50100720	7.20	91.00	53.00	8.00
50100730	7.30	91.00	53.00	8.00
50100740	7.40	91.00	53.00	8.00
50100750	7.50	91.00	53.00	8.00
50100760	7.60	91.00	53.00	8.00
50100770	7.70	91.00	53.00	8.00
50100780	7.80	91.00	53.00	8.00
50100790	7.90	91.00	53.00	8.00
50100800	8.00	91.00	53.00	8.00
50100810	8.10	103.00	61.00	10.00
50100820	8.20	103.00	61.00	10.00
50100830	8.30	103.00	61.00	10.00
50100840	8.40	103.00	61.00	10.00
50100850	8.50	103.00	61.00	10.00
50100860	8.60	103.00	61.00	10.00
50100870	8.70	103.00	61.00	10.00
50100880	8.80	103.00	61.00	10.00
50100890	8.90	103.00	61.00	10.00
50100900	9.00	103.00	61.00	10.00
50100910	9.10	103.00	61.00	10.00
50100920	9.20	103.00	61.00	10.00
50100930	9.30	103.00	61.00	10.00
50100940	9.40	103.00	61.00	10.00
50100950	9.50	103.00	61.00	10.00
50100960	9.60	103.00	61.00	10.00
50100970	9.70	103.00	61.00	10.00
50100980	9.80	103.00	61.00	10.00
50100990	9.90	103.00	61.00	10.00

(Order No)	D1	L	L1	D
50101000	10.00	103.00	61.00	10.00
50101010	10.10	118.00	71.00	12.00
50101020	10.20	118.00	71.00	12.00
50101030	10.30	118.00	71.00	12.00
50101040	10.40	118.00	71.00	12.00
50101050	10.50	118.00	71.00	12.00
50101060	10.60	118.00	71.00	12.00
50101070	10.70	118.00	71.00	12.00
50101080	10.80	118.00	71.00	12.00
50101090	10.90	118.00	71.00	12.00
50101100	11.00	118.00	71.00	12.00
50101110	11.10	118.00	71.00	12.00
50101120	11.20	118.00	71.00	12.00
50101130	11.30	118.00	71.00	12.00
50101140	11.40	118.00	71.00	12.00
50101150	11.50	118.00	71.00	12.00
50101160	11.60	118.00	71.00	12.00
50101170	11.70	118.00	71.00	12.00
50101180	11.80	118.00	71.00	12.00
50101190	11.90	118.00	71.00	12.00
50101200	12.00	118.00	71.00	12.00
50101210	12.10	124.00	77.00	14.00
50101220	12.20	124.00	77.00	14.00
50101230	12.30	124.00	77.00	14.00
50101240	12.40	124.00	77.00	14.00
50101250	12.50	124.00	77.00	14.00
50101260	12.60	124.00	77.00	14.00
50101270	12.70	124.00	77.00	14.00
50101280	12.80	124.00	77.00	14.00
50101290	12.90	124.00	77.00	14.00
50101300	13.00	124.00	77.00	14.00
50101310	13.10	124.00	77.00	14.00
50101320	13.20	124.00	77.00	14.00
50101330	13.30	124.00	77.00	14.00
50101340	13.40	124.00	77.00	14.00
50101350	13.50	124.00	77.00	14.00
50101360	13.60	124.00	77.00	14.00
50101370	13.70	124.00	77.00	14.00
50101380	13.80	124.00	77.00	14.00
50101390	13.90	124.00	77.00	14.00
50101400	14.00	124.00	77.00	14.00
50101410	14.10	133.00	83.00	16.00
50101420	14.20	133.00	83.00	16.00
50101430	14.30	133.00	83.00	16.00
50101440	14.40	133.00	83.00	16.00
50101450	14.50	133.00	83.00	16.00
50101460	14.60	133.00	83.00	16.00
50101470	14.70	133.00	83.00	16.00
50101480	14.80	133.00	83.00	16.00
50101490	14.90	133.00	83.00	16.00
50101500	15.00	133.00	83.00	16.00
50101510	15.10	133.00	83.00	16.00
50101520	15.20	133.00	83.00	16.00
50101530	15.30	133.00	83.00	16.00
50101540	15.40	133.00	83.00	16.00
50101550	15.50	133.00	83.00	16.00
50101560	15.60	133.00	83.00	16.00
50101570	15.70	133.00	83.00	16.00
50101580	15.80	133.00	83.00	16.00
50101590	15.90	133.00	83.00	16.00
50101600	16.00	133.00	83.00	16.00
50101650	16.50	143.00	93.00	18.00
50101700	17.00	143.00	93.00	18.00
50101750	17.50	143.00	93.00	18.00
50101800	18.00	143.00	93.00	18.00
50101850	18.50	153.00	101.00	20.00
50101880	18.80	153.00	101.00	20.00
50101900	19.00	153.00	101.00	20.00
50101950	19.50	153.00	101.00	20.00
50102000	20.00	153.00	101.00	20.00

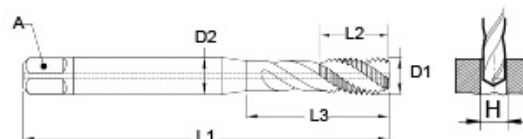
Deep Hole Carbide Drill



(Order No)	D1	L1	L2	L	D
72000310	3.10	69.00	74.00	105.00	4.00
72500310	3.10	79.00	83.00	120.00	4.00
73000310	3.10	94.00	99.00	135.00	4.00
72000350	3.50	72.00	77.00	110.00	4.00
72500350	3.50	89.00	94.00	130.00	4.00
73000350	3.50	106.00	111.00	145.00	4.00
72000380	3.80	75.00	82.00	115.00	4.00
72500380	3.80	96.00	102.00	135.00	4.00
73000380	3.80	115.00	121.00	155.00	4.00
72000400	4.00	82.00	88.00	125.00	4.00
72500400	4.00	101.00	107.00	140.00	4.00
73000400	4.00	121.00	127.00	160.00	4.00
72000420	4.20	87.00	92.00	135.00	5.00
72500420	4.20	106.00	112.00	150.00	5.00
73000420	4.20	127.00	133.00	170.00	5.00
72000450	4.50	92.00	99.00	135.00	5.00
72500450	4.50	114.00	120.00	155.00	5.00
73000450	4.50	136.00	143.00	180.00	5.00
72000500	5.00	102.00	110.00	145.00	5.00
72500500	5.00	126.00	134.00	170.00	5.00
73000500	5.00	151.00	159.00	195.00	5.00
72000510	5.10	107.00	115.00	155.00	5.00
72500510	5.10	129.00	136.00	175.00	6.00
73000510	5.10	154.00	162.00	200.00	6.00
72000550	5.50	112.00	120.00	160.00	6.00
72500550	5.50	139.00	147.00	185.00	6.00
73000550	5.50	166.00	174.00	215.00	6.00
72000600	6.00	122.00	131.00	170.00	6.00
72500600	6.00	151.00	160.00	200.00	6.00
73000600	6.00	181.00	190.00	230.00	6.00
72000650	6.50	132.00	142.00	180.00	8.00
72500650	6.50	164.00	173.00	210.00	8.00
73000650	6.50	176.00	187.00	230.00	8.00
72000700	7.00	142.00	153.00	195.00	8.00
72500700	7.00	164.00	173.00	210.00	8.00
73000700	7.00	211.00	222.00	265.00	8.00
72000750	7.50	152.00	163.00	205.00	8.00
72500750	7.50	189.00	200.00	240.00	8.00
73000750	7.50	226.00	237.00	280.00	8.00
72000800	8.00	162.00	174.00	215.00	8.00
72500800	8.00	201.00	213.00	255.00	8.00
73000800	8.00	241.00	253.00	295.00	8.00
72000850	8.50	172.00	185.00	230.00	10.00
72500850	8.50	214.00	226.00	270.00	10.00
73000850	8.50	258.00	272.00	315.00	10.00
72000900	9.00	137.00	151.00	195.00	10.00
72500900	9.00	182.00	196.00	240.00	10.00
73000900	9.00	215.00	225.00	275.00	10.00
72000950	9.50	192.00	206.00	250.00	10.00
72001000	10.00	210.00	217.00	260.00	10.00
72501000	10.00	260.00	272.00	315.00	10.00
73001000	10.00	270.00	285.00	330.00	10.00
72001050	10.50	215.00	225.00	275.00	10.00
72501050	10.50	260.00	272.00	315.00	10.00
73001050	10.50	270.00	285.00	330.00	10.00
72001100	11.00	215.00	225.00	275.00	12.00
72501100	11.00	260.00	272.00	315.00	12.00
73001100	11.00	270.00	285.00	330.00	12.00
72001150	11.50	225.00	235.00	285.00	12.00
72501150	11.50	260.00	272.00	315.00	12.00
73001150	11.50	270.00	285.00	330.00	12.00
72001200	12.00	225.00	235.00	285.00	12.00
72501200	12.00	260.00	272.00	315.00	12.00
73001200	12.00	270.00	285.00	330.00	12.00



Order No	D1	P	D2	A	[mm]	L1	L2
16500300	M3	0.50	3.50	2.70	2.50	56.00	10.00
16500400	M4	0.70	4.50	3.40	3.30	63.00	12.00
16500500	M5	0.80	6.00	4.90	4.20	70.00	14.00
16500600	M6	1.00	6.00	4.90	5.00	80.00	16.00
16500800	M8	1.25	8.00	6.20	6.80	90.00	18.00
16501000	M10	1.50	10.00	8.00	8.50	100.00	20.00
16601200	M12	1.75	9.00	7.00	10.20	110.00	24.00
16601400	M14	2.00	11.00	9.00	12.00	110.00	26.00
16601600	M16	2.00	12.00	9.00	14.00	110.00	26.00
16601800	M18	2.50	14.00	11.00	15.50	125.00	30.00
16602000	M20	2.50	16.00	12.00	17.50	140.00	32.00
16602400	M24	3.00	18.00	14.50	21.00	160.00	36.00
16603000	M30	3.50	22.00	18.00	26.50	180.00	40.00



Order No	D1	P	D2	A	[mm]	L1	L2
16700300	M3	0.50	3.50	2.70	2.50	56.00	6.00
16700400	M4	0.70	4.50	3.40	3.30	63.00	7.50
16700500	M5	0.80	6.00	4.90	4.20	70.00	8.50
16700600	M6	1.00	6.00	4.90	5.00	80.00	11.00
16700800	M8	1.25	8.00	6.20	6.80	90.00	14.00
16701000	M10	1.50	10.00	8.00	8.50	100.00	16.00
16801200	M12	1.75	9.00	7.00	10.20	110.00	18.50
16801400	M14	2.00	11.00	9.00	12.00	110.00	20.00
16801600	M16	2.00	12.00	9.00	14.00	110.00	20.00
16801800	M18	2.50	14.00	11.00	15.50	125.00	25.00
16802000	M20	2.50	16.00	12.00	17.50	140.00	25.00
16802400	M24	3.00	18.00	14.50	21.00	160.00	30.00
16803000	M30	3.50	22.00	18.00	26.50	180.00	35.00

HSSE
PM

DIN
371/376

ISO 2
6H

60°

RH

TiAlN

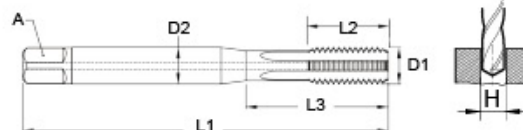
P

K

N

M

H



Order No	D1	P	D2	A	mm	L1	L2
17500300	M3	0.50	3.50	2.70	2.80	56.00	10.00
17500400	M4	0.70	4.50	3.40	3.70	63.00	12.00
17500500	M5	0.80	6.00	4.90	4.65	70.00	14.00
17500600	M6	1.00	6.00	4.90	5.55	80.00	16.00
17500800	M8	1.25	8.00	6.20	7.40	90.00	18.00
17501000	M10	1.50	10.00	8.00	9.30	100.00	20.00
17601200	M12	1.75	9.00	7.00	11.20	110.00	24.00
17601400	M14	2.00	11.00	9.00	13.10	110.00	25.00
17601600	M16	2.00	12.00	9.00	15.10	110.00	28.00
17601800	M18	2.50	14.00	11.00	16.90	125.00	28.00
17602000	M20	2.50	16.00	12.00	18.90	140.00	30.00

Carbide

DIN
371/376

ISO 2
6H

60°

RH

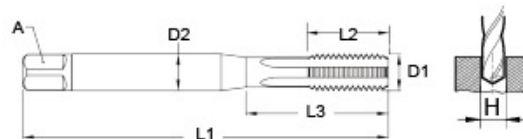
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P

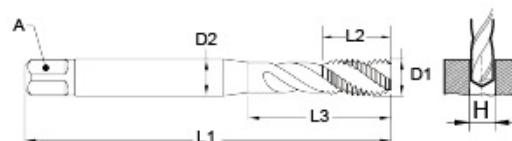
K

N

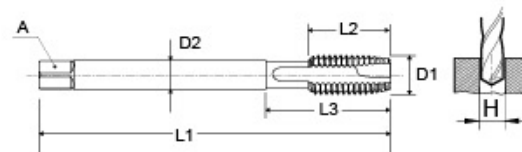
M



Order No	D1	P	D2	A	mm	L1	L2
17700200	M2	0.40	2.80	2.10	1.85	45.00	7.00
17700250	M2.5	0.45	2.80	2.10	2.30	50.00	9.00
17700300	M3	0.50	3.50	2.70	2.80	56.00	10.00
17700400	M4	0.70	4.50	3.40	3.70	63.00	12.00
17700500	M5	0.80	6.00	4.90	4.65	70.00	14.00
17700600	M6	1.00	6.00	4.90	5.55	80.00	16.00
17700800	M8	1.25	8.00	6.20	7.40	90.00	18.00
17701000	M10	1.50	10.00	8.00	9.30	100.00	20.00
17801200	M12	1.75	9.00	7.00	11.20	110.00	24.00
17801400	M14	2.00	11.00	9.00	13.10	110.00	25.00
17801600	M16	2.00	12.00	9.00	15.10	110.00	28.00
17801800	M18	2.50	14.00	11.00	16.90	125.00	28.00
17802000	M20	2.50	16.00	12.00	18.90	140.00	30.00



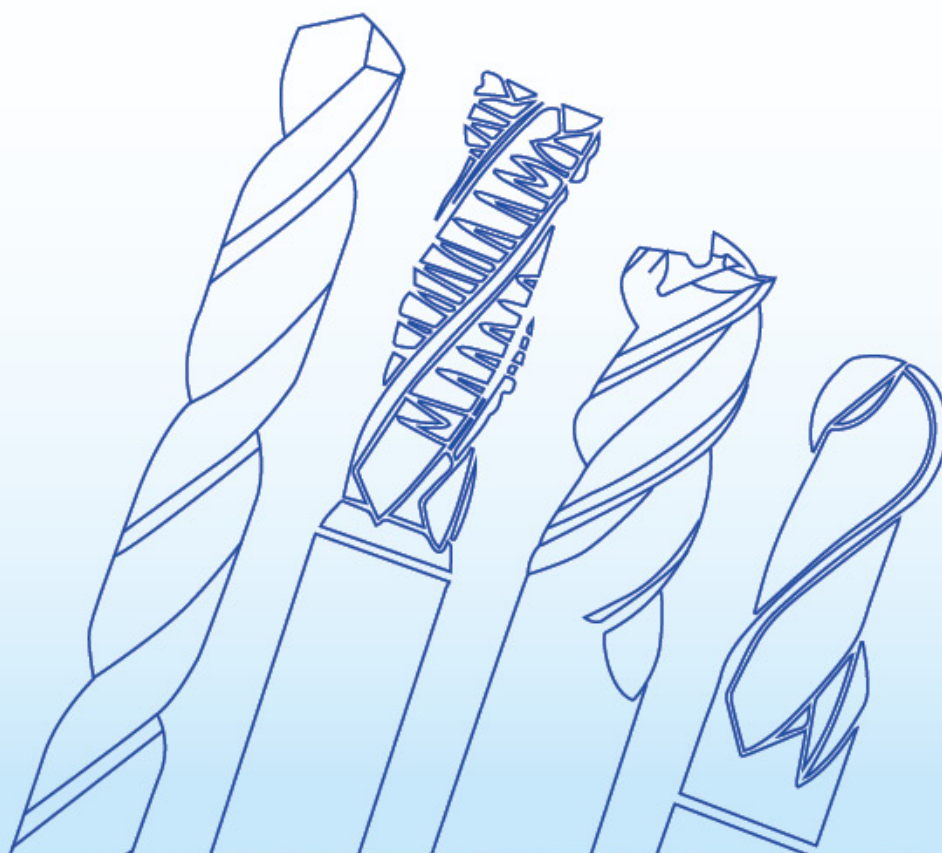
Order No	G	P	D1	L1	L2	D2	A	Z	(mm)
18200300	1/8"	28	9.728	90.00	17.00	7.00	5.50	3.00	8.80
18200400	1/4"	19	13.157	100.00	23.00	11.00	9.00	4.00	11.80
18200500	3/8"	19	16.662	100.00	23.00	12.00	9.00	4.00	15.25
18200600	1/2"	14	20.955	125.00	29.00	16.00	12.00	5.00	19.00
18200700	5/8"	14	22.911	125.00	29.00	18.00	14.50	5.00	21.00
18200800	3/4"	14	26.441	140.00	29.00	20.00	16.00	5.00	24.50
18200900	7/8"	14	30.201	150.00	32.00	22.00	18.00	5.00	28.25
18201000	1"	11	33.249	160.00	34.50	25.00	20.00	5.00	30.75
18201100	1 1/8"	11	37.897	170.00	34.50	28.00	22.00	5.00	35.50
18201200	1 1/4"	11	41.91	170.00	34.50	32.00	24.00	5.00	39.50
18201300	1 1/2"	11	47.803	190.00	37.50	36.00	29.00	6.00	45.25



Order No	UNC	P	D1	L1	L2	D2	A	Z	(mm)
18300200	Nr.2	56	2.184	45.00	8.00	2.80	2.10	2.00	1.85
18300300	Nr.3	48	2.515	50.00	9.00	2.80	2.10	3.00	2.10
18300400	Nr.4	40	2.845	56.00	10.00	3.50	2.70	3.00	2.35
18300500	Nr.5	40	3.175	56.00	10.00	3.50	2.70	3.00	2.65
18300600	Nr.6	32	3.505	56.00	11.00	4.00	3.00	3.00	2.85
18300800	Nr.8	32	4.166	63.00	13.00	4.50	3.40	3.00	3.50
18301000	Nr.10	24	4.826	70.00	16.00	6.00	4.90	3.00	3.90
18301200	Nr.12	24	5.486	80.00	16.00	6.00	4.90	3.00	4.50
18301500	1/4"	20	6.35	80.00	17.00	7.00	5.50	3.00	5.10
18301600	5/16"	18	7.938	90.00	18.00	6.00	4.90	3.00	6.60
18301700	3/8"	16	9.525	100.00	22.00	7.00	5.50	3.00	8.00
18301800	7/16"	14	11.113	100.00	24.00	8.00	6.20	3.00	9.40
18301900	1/2"	13	12.70	110.00	26.00	9.00	7.00	3.00	10.80
18302000	9/16"	12	14.288	110.00	28.00	11.00	9.00	3.00	12.20
18302100	5/8"	11	15.875	110.00	28.00	12.00	9.00	3.00	13.50
18302200	3/4"	10	19.05	125.00	32.00	14.00	11.00	4.00	16.50
18302300	7/8"	9	22.225	140.00	32.00	18.00	14.50	4.00	19.50
18302400	1"	8	25.40	160.00	36.00	18.00	14.50	4.00	22.25
18302500	1 1/8"	7	28.575	180.00	40.00	22.00	18.00	4.00	25.00
18302600	1 1/4"	7	31.75	180.00	40.00	22.00	18.00	4.00	28.00
18302700	1 3/8"	6	34.925	200.00	50.00	28.00	22.00	4.00	30.75
18302800	1 1/2"	6	38.10	200.00	50.00	28.00	22.00	4.00	34.00



FOCUSING ON WHAT WE DO, WE DO IT PROFESSIONALLY



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