



FEATURES/DESCRIPTION	APPLICATION	FEATURES
- Sub-micrograin carbide grade for wear resistance and edge strength - Kooltwist coolant-through drill design allows 7XD drill at high penetration rates - Protective flat cutting edge design reduces edge chipping when drilling 140° self-centering double split point reduces chisel pressure and clears chips away from point center - Offered in TiN coating or TiAlN coating		CARBIDE 30° 2FL 140° THRU P364 TiN TiAlN
STEEL STAINLESS CAST IRON NON-FERROUS HRSA HARDENED STEEL P1 P2 P3 M1 M2 K1 K2 N1 N2 S1 S2 H1 H2 ○ ● ● ● ● ● ● ● ● ● ● ○ ○		

● Best ○ Good

Series 293 Kooltwist | 2FL | Jobber Length | Coolant-Through

Diameter(D ₁) Size Dec.	Flute Length(L ₁)	OAL(L)	Shank(D)	TiN	TiAlN
1/8	0.1250	1-1/8	3-11/32	1/8	29301250
3.2mm	0.1260	1-1/8	3-11/32	1/8	29301260
#30	0.1285	1-1/8	3-11/32	0.1285	29301285
3.3mm	0.1299	1-13/32	3-5/8	0.1299	29301299
3.4mm	0.1339	1-13/32	3-5/8	0.1339	29301339
#29	0.1360	1-13/32	3-5/8	0.1360	29301360
3.5mm	0.1378	1-13/32	3-5/8	0.1378	29301378
#28	0.1405	1-13/32	3-5/8	9/64	29301405
9/64	0.1406	1-13/32	3-5/8	9/64	29301406
3.6mm	0.1417	1-13/32	3-5/8	9/64	29301417
#27	0.1440	1-13/32	3-5/8	0.1440	29301440
#26	0.1470	1-13/32	3-5/8	0.1470	29301470
#25	0.1495	1-13/32	3-5/8	0.1495	29301495
#24	0.1520	1-13/32	3-5/8	0.1520	29301520
#23	0.1540	1-13/32	3-5/8	0.1540	29301540
5/32	0.1562	1-13/32	3-5/8	5/32	29301562
#22	0.1570	1-13/32	3-5/8	5/32	29301570
4mm	0.1575	36mm	92mm	4mm	29301575
#21	0.1590	1-13/32	3-5/8	0.1590	29301590
#20	0.1610	1-13/32	3-5/8	0.1610	29301610
4.1mm	0.1614	1-13/32	3-5/8	0.1614	29301614
4.125mm	0.1624	1-13/32	3-5/8	0.1624	29301624
4.2mm	0.1654	1-13/32	3-5/8	0.1654	29301654
#19	0.1660	1-13/32	3-5/8	0.1660	29301660
4.25mm	0.1673	1-13/32	3-5/8	0.1673	29301673
#18	0.1695	1-13/32	3-5/8	0.1695	29301695
11/64	0.1719	1-13/32	3-5/8	11/64	29301719
#17	0.1730	1-13/32	3-5/8	11/64	29301730
#16	0.1770	1-9/16	3-25/32	0.1770	29301770
4.5mm	0.1772	1-9/16	3-25/32	0.1772	29301772
#15	0.1800	1-9/16	3-25/32	0.1800	29301800
#14	0.1820	1-9/16	3-25/32	0.1820	29301820
#13	0.1850	1-9/16	3-25/32	0.1850	29301850
3/16	0.1875	1-9/16	3-25/32	3/16	29301875
#12	0.1890	1-9/16	3-25/32	3/16	29301890
#11	0.1910	1-9/16	3-25/32	0.1910	29301910
4.9mm	0.1929	1-23/32	3-15/16	0.1929	29301929
#10	0.1935	1-23/32	3-15/16	0.1935	29301935
#9	0.1960	1-23/32	3-15/16	0.1960	29301960
5mm	0.1969	44mm	100mm	5mm	29301969
#8	0.1990	1-23/32	3-15/16	0.1990	29301990
#7	0.2010	1-23/32	3-15/16	0.2010	29302010
13/64	0.2031	1-23/32	3-15/16	13/64	29302031
#6	0.2040	1-23/32	3-15/16	13/64	29302040
#5	0.2055	1-23/32	3-15/16	0.2055	29302055

*bold numbers are EDPs for ordering

ADVANCED PERFORMANCE

Solid Carbide Coolant-Through Jobber Length Drill



Series 293 Kooltwist | 2FL | Jobber Length | Coolant-Through

Diameter(D ₁)		Flute Length(L ₁)	OAL(L)	Shank(D)	TiN	TiAlN
Size	Dec.					
#4	0.2090	1-23/32	3-15/16	0.2090	29302090	29302090A
#3	0.2130	1-29/32	4-1/8	0.2130	29302130	29302130A
5.5mm	0.2165	1-29/32	4-1/8	0.2165	29302165	29302165A
7/32	0.2188	1-29/32	4-1/8	7/32	29302188	29302188A
5.6mm	0.2205	1-29/32	4-1/8	0.2205	29302205	29302205A
2	0.2210	1-29/32	4-1/8	0.2210	29302210	29302210A
1	0.2280	2-1/8	4-5/16	0.2280	29302280	29302280A
A	0.2340	2-1/8	4-5/16	15/64	29302340	29302340A
15/64	0.2344	2-1/8	4-5/16	15/64	29302344	29302344A
6mm	0.2362	54mm	110mm	6mm	29302362	29302362A
B	0.2380	2-1/8	4-5/16	0.2380	29302380	29302380A
6.1mm	0.2402	2-1/8	4-5/16	0.2402	29302402	29302402A
C	0.2420	2-1/8	4-5/16	0.2420	29302420	29302420A
D	0.2460	2-1/8	4-5/16	0.2460	29302460	29302460A
6.3mm	0.2480	2-1/8	4-5/16	0.2480	29302480	29302480A
1/4	0.2500	2-1/8	4-5/16	1/4	29302500	29302500A
6.4mm	0.2520	2-1/8	4-5/16	0.2520	29302520	29302520A
6.5mm	0.2559	2-1/8	4-5/16	0.2559	29302559	29302559A
F	0.2570	2-1/4	4-1/2	0.2570	29302570	29302570A
6.6mm	0.2598	2-1/4	4-1/2	0.2598	29302598	29302598A
G	0.2610	2-1/4	4-1/2	0.2610	29302610	29302610A
6.68mm	0.2630	2-1/4	4-1/2	0.2630	29302630	29302630A
17/64	0.2656	2-1/4	4-1/2	17/64	29302656	29302656A
H	0.2660	2-1/4	4-1/2	17/64	29302660	29302660A
6.85mm	0.2697	2-1/4	4-1/2	0.2697	29302697	29302697A
I	0.2720	2-1/4	4-1/2	0.2720	29302720	29302720A
7mm	0.2756	57mm	114mm	7mm	29302756	29302756A
J	0.2770	2-1/4	4-1/2	0.2770	29302770	29302770A
7.1mm	0.2795	2-1/4	4-1/2	0.2795	29302795	29302795A
K	0.2810	2-1/4	4-1/2	9/32	29302810	29302810A
9/32	0.2812	2-1/4	4-1/2	9/32	29302812	29302812A
7.2mm	0.2835	2-1/4	4-1/2	0.2835	29302835	29302835A
L	0.2900	2-17/32	4-3/4	0.2900	29302900	29302900A
M	0.2950	2-17/32	4-3/4	0.2950	29302950	29302950A
7.5mm	0.2953	2-17/32	4-3/4	0.2953	29302953	29302953A
19/64	0.2969	2-17/32	4-3/4	19/64	29302969	29302969A
7.6mm	0.2992	2-17/32	4-3/4	0.2992	29302992	29302992A
N	0.3020	2-17/32	4-3/4	0.3020	29303020	29303020A
7.8mm	0.3071	2-17/32	4-3/4	0.3071	29303071	29303071A
5/16	0.3125	2-17/32	4-3/4	5/16	29303125	29303125A
8mm	0.3150	64mm	121mm	8mm	29303150	29303150A
O	0.3160	2-17/32	4-3/4	0.3160	29303160	29303160A
8.1mm	0.3189	2-17/32	4-3/4	0.3189	29303189	29303189A
P	0.3230	2-27/32	5	0.3230	29303230	29303230A
21/64	0.3281	2-27/32	5	21/64	29303281	29303281A
Q	0.3320	2-27/32	5	0.3320	29303320	29303320A
8.5mm	0.3346	2-27/32	5	0.3346	29303346	29303346A
8.56mm	0.3370	2-27/32	5	0.3370	29303370	29303370A
R	0.3390	2-27/32	5	0.3390	29303390	29303390A
11/32	0.3438	2-27/32	5	11/32	29303438	29303438A
S	0.3480	3-5/32	5-3/8	0.3480	29303480	29303480A
9mm	0.3543	80mm	136mm	9mm	29303543	29303543A
T	0.3580	3-5/32	5-3/8	23/64	29303580	29303580A
23/64	0.3594	3-5/32	5-3/8	23/64	29303594	29303594A
U	0.3680	3-5/32	5-3/8	0.3680	29303680	29303680A
9.5mm	0.3740	3-5/32	5-3/8	3/8	29303740	29303740A
3/8	0.3750	3-5/32	5-3/8	3/8	29303750	29303750A
V	0.3770	3-5/32	5-3/8	0.3770	29303770	29303770A
9.7mm	0.3819	3-5/16	5-7/8	0.3819	29303819	29303819A
W	0.3860	3-5/16	5-7/8	0.3860	29303860	29303860A
25/64	0.3906	3-5/16	5-7/8	25/64	29303906	29303906A
10mm	0.3937	84mm	149mm	10mm	29303937	29303937A
X	0.3970	3-5/16	5-7/8	0.3970	29303970	29303970A
Y	0.4040	3-5/16	5-7/8	0.4040	29304040	29304040A
13/32	0.4062	3-5/16	5-7/8	13/32	29304062	29304062A
10.4mm	0.4094	3-5/16	5-7/8	0.4094	29304094	29304094A
Z	0.4130	3-5/16	5-7/8	0.4130	29304130	29304130A
10.5mm	0.4134	3-5/16	5-7/8	0.4134	29304134	29304134A
10.6mm	0.4173	3-5/16	5-7/8	0.4173	29304173	29304173A
27/64	0.4219	3-5/8	6-7/32	27/64	29304219	29304219A
10.8mm	0.4252	3-5/8	6-7/32	0.4252	29304252	29304252A
10.95mm	0.4311	3-5/8	6-7/32	0.4311	29304311	29304311A

*bold numbers are EDPs for ordering

INTRO

MILLING

SPECIALTY

HOLEMAKING

THREADING

INSERTS

ADVANCED PERFORMANCE

Solid Carbide Coolant-Through Jobber Length Drill



Series 293 Kooltwist | 2FL | Jobber Length | Coolant-Through

Diameter(D ₁) Size	Dec.	Flute Length(L ₁)	OAL(L)	Shank(D)	TiN	TiAlN
11mm	0.4331	92mm	158mm	11mm	29304331	29304331A
7/16	0.4375	3-5/8	6-7/32	7/16	29304375	29304375A
11.4mm	0.4488	3-5/8	6-7/32	0.4488	29304488	29304488A
11.5mm	0.4528	3-5/8	6-7/32	29/64	29304528	29304528A
29/64	0.4531	3-25/32	6-7/32	29/64	29304531	29304531A
11.6mm	0.4567	3-25/32	6-7/32	0.4567	29304567	29304567A
15/32	0.4688	3-25/32	6-7/32	15/32	29304688	29304688A
12mm	0.4724	96mm	158mm	12mm	29304724	29304724A
12.1mm	0.4764	3-25/32	6-7/32	0.4764	29304764	29304764A
31/64	0.4844	4-3/32	6-9/32	31/64	29304844	29304844A
12.4mm	0.4882	4-3/32	6-9/32	0.4882	29304882	29304882A
12.5mm	0.4921	4-3/32	6-9/32	0.4921	29304921	29304921A
12.6mm	0.4961	4-3/32	6-9/32	0.4961	29304961	29304961A
1/2	0.5000	4-3/32	6-9/32	1/2	29305000	29305000A
12.9mm	0.5079	4-7/32	6-9/32	0.5079	29305079	29305079A
13mm	0.5118	107mm	160mm	13mm	29305118	29305118A
33/64	0.5156	4-7/32	6-9/32	33/64	29305156	29305156A
17/32	0.5312	4-7/32	6-9/32	17/32	29305312	29305312A
13.5mm	0.5315	4-7/32	6-9/32	17/32	29305315	29305315A
13.6mm	0.5354	4-7/32	6-9/32	0.5354	29305354	29305354A
13.8mm	0.5433	4-7/32	6-9/32	0.5433	29305433	29305433A
35/64	0.5469	4-7/32	6-9/32	35/64	29305469	29305469A
14mm	0.5512	107mm	160mm	14mm	29305512	29305512A
9/16	0.5625	4-7/32	6-9/32	9/16	29305625	29305625A
14.5mm	0.5709	4-7/32	6-9/32	0.5709	29305709	29305709A
14.6mm	0.5748	4-7/32	6-9/32	0.5748	29305748	29305748A
37/64	0.5781	4-7/32	6-9/32	37/64	29305781	29305781A
15mm	0.5906	107mm	160mm	15mm	29305906	29305906A
19/32	0.5938	4-7/32	6-9/32	19/32	29305938	29305938A

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Popular Custom Holmaking Options

- Material-specific point geometry
- Longer flute lengths
- Internal coolant supply
- Proprietary GWS tool coatings

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