

GENERAL PURPOSE

Solid Carbide Straight Flute Drill



INTRO

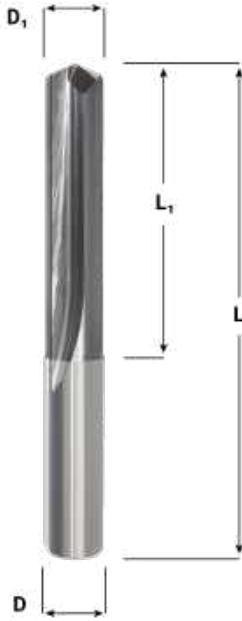
MILLING

SPECIALTY

HOLEMAKING

THREADING

INSERTS



FEATURES/DESCRIPTION	APPLICATION	FEATURES								
<p>Straight Flute Drills</p> <ul style="list-style-type: none"> Sub-micrograin carbide substrate for wear resistance Capable of producing reamer type finishes in work hardened and abrasive materials Designed for: chrome alloys, heat alloys, nickel alloys, titanium alloys, steel and stainless steel weldments 140° split point 		<table border="1"> <tr> <td>CARBIDE</td> <td>2FL</td> </tr> <tr> <td>0°</td> <td>140°</td> </tr> <tr> <td>P374</td> <td>Bright</td> </tr> <tr> <td>AlTiN</td> <td></td> </tr> </table>	CARBIDE	2FL	0°	140°	P374	Bright	AlTiN	
CARBIDE	2FL									
0°	140°									
P374	Bright									
AlTiN										

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 470 **2FL | Straight Flute**

Diameter(D ₁) Size Dec.	Flute Length(L ₁)	OAL(L)	Shank(D)	Bright	AlTiN	
1/32	0.0313	1/2	1-1/2	1/32	470-100312	470-100312B
#65	0.0350	1/2	1-1/2	0.0350	470-300350	470-300350B
#64	0.0360	1/2	1-1/2	0.0360	470-300360	470-300360B
#63	0.0370	1/2	1-1/2	0.0370	470-300370	470-300370B
#62	0.0380	1/2	1-1/2	0.0380	470-300380	470-300380B
#61	0.0390	1/2	1-1/2	0.0390	470-300390	470-300390B
1mm	0.0394	13mm	38mm	1mm	470-400394	470-400394B
#60	0.0400	1/2	1-1/2	0.0400	470-300400	470-300400B
#59	0.0410	1/2	1-1/2	0.0410	470-300410	470-300410B
#58	0.0420	1/2	1-1/2	0.0420	470-300420	470-300420B
#57	0.0430	1/2	1-1/2	0.0430	470-300430	470-300430B
#56	0.0465	1/2	1-1/2	0.0465	470-300465	470-300465B
3/64	0.0469	1/2	1-1/2	3/64	470-100469	470-100469B
#55	0.0520	1/2	1-1/2	0.0520	470-300520	470-300520B
#54	0.0550	1/2	1-1/2	0.0550	470-300550	470-300550B
1.5mm	0.0591	13mm	38mm	1.5mm	470-400591	470-400591B
#53	0.0595	1/2	1-1/2	0.0595	470-300595	470-300595B
1/16	0.0625	5/8	1-5/8	1/16	470-100625	470-100625B
#52	0.0635	11/16	1-11/16	0.0635	470-300635	470-300635B
#51	0.0670	11/16	1-11/16	0.0670	470-300670	470-300670B
#50	0.0700	11/16	1-11/16	0.0700	470-300700	470-300700B
#49	0.0730	11/16	1-11/16	0.0730	470-300730	470-300730B
#48	0.0760	11/16	1-11/16	0.0760	470-300760	470-300760B
5/64	0.0781	11/16	1-11/16	5/64	470-100781	470-100781B
#47	0.0785	3/4	1-3/4	0.0785	470-300785	470-300785B
2mm	0.0787	19mm	45mm	2mm	470-400787	470-400787B
#46	0.0810	3/4	1-3/4	0.0810	470-300810	470-300810B
#45	0.0820	3/4	1-3/4	0.0820	470-300820	470-300820B
#44	0.0860	3/4	1-3/4	0.0860	470-300860	470-300860B
#43	0.0890	3/4	1-3/4	0.0890	470-300890	470-300890B
#42	0.0935	3/4	1-3/4	0.0935	470-300935	470-300935B
3/32	0.0938	3/4	1-3/4	3/32	470-100938	470-100938B
#41	0.0960	13/16	1-13/16	0.0960	470-300960	470-300960B
#40	0.0980	13/16	1-13/16	0.0980	470-300980	470-300980B
2.5mm	0.0984	21mm	46mm	2.5mm	470-400984	470-400984B
#39	0.0995	13/16	1-13/16	0.0995	470-300995	470-300995B
#38	0.1015	13/16	1-13/16	0.1015	470-301015	470-301015B
#37	0.1040	13/16	1-13/16	0.1040	470-301040	470-301040B
#36	0.1065	13/16	1-13/16	0.1065	470-301065	470-301065B
7/64	0.1094	13/16	1-13/16	7/64	470-101094	470-101094B
#35	0.1100	7/8	1-7/8	0.1100	470-301100	470-301100B
#34	0.1110	7/8	1-7/8	0.1110	470-301110	470-301110B
#33	0.1130	7/8	1-7/8	0.1130	470-301130	470-301130B
#32	0.1160	7/8	1-7/8	0.1160	470-301160	470-301160B
3mm	0.1181	22mm	48mm	3mm	470-401181	470-401181B

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Series 470		2FL Straight Flute				
Diameter(D ₁) Size Dec.	Flute Length(L ₁)	OAL(L)	Shank(D)	Bright	AITiN	
#31	0.1200	7/8	1-7/8	0.1200	470-301200	470-301200B
1/8	0.1250	7/8	1-7/8	1/8	470-101250	470-101250B
#30	0.1285	15/16	1-15/16	0.1285	470-301285	470-301285B
#29	0.1360	15/16	1-15/16	0.1360	470-301360	470-301360B
3.5mm	0.1378	24mm	49mm	3.5mm	470-401378	470-401378B
#28	0.1405	15/16	1-15/16	0.1405	470-301405	470-301405B
9/64	0.1406	15/16	1-15/16	9/64	470-101406	470-101406B
#27	0.1440	1	2-1/16	0.1440	470-301440	470-301440B
#26	0.1470	1	2-1/16	0.1470	470-301470	470-301470B
#25	0.1495	1	2-1/16	0.1495	470-301495	470-301495B
#24	0.1520	1	2-1/16	0.1520	470-301520	470-301520B
#23	0.1540	1	2-1/16	0.1540	470-301540	470-301540B
5/32	0.1563	1	2-1/16	5/32	470-101562	470-101562B
#22	0.1570	1-1/16	2-1/8	0.1570	470-301570	470-301570B
4mm	0.1575	27mm	54mm	4mm	470-401575	470-401575B
#21	0.1590	1-1/16	2-1/8	0.1590	470-301590	470-301590B
#20	0.1610	1-1/16	2-1/8	0.1610	470-301610	470-301610B
#19	0.1660	1-1/16	2-1/8	0.1660	470-301660	470-301660B
#18	0.1695	1-1/16	2-1/8	0.1695	470-301695	470-301695B
11/64	0.1719	1-1/16	2-1/8	11/64	470-101719	470-101719B
#17	0.1730	1-1/8	2-3/16	0.1730	470-301730	470-301730B
#16	0.1770	1-1/8	2-3/16	0.1770	470-301770	470-301770B
4.5mm	0.1772	29mm	56mm	4.5mm	470-401772	470-401772B
#15	0.1800	1-1/8	2-3/16	0.1800	470-301800	470-301800B
#14	0.1820	1-1/8	2-3/16	0.1820	470-301820	470-301820B
#13	0.1850	1-1/8	2-3/16	0.1850	470-301850	470-301850B
3/16	0.1875	1-1/8	2-3/16	3/16	470-101875	470-101875B
#12	0.1890	1-3/16	2-1/4	0.1890	470-301890	470-301890B
#11	0.1910	1-3/16	2-1/4	0.1910	470-301910	470-301910B
#10	0.1935	1-3/16	2-1/4	0.1935	470-301935	470-301935B
#9	0.1960	1-3/16	2-1/4	0.1960	470-301960	470-301960B
5mm	0.1969	30mm	57mm	5mm	470-401969	470-401969B
#8	0.1990	1-3/16	2-1/4	0.1990	470-301990	470-301990B
#7	0.2010	1-3/16	2-1/4	0.2010	470-302010	470-302010B
13/64	0.2031	1-3/16	2-1/4	13/64	470-102031	470-102031B
#6	0.2040	1-1/4	2-3/8	0.2040	470-302040	470-302040B
#5	0.2055	1-1/4	2-3/8	0.2055	470-302055	470-302055B
#4	0.2090	1-1/4	2-3/8	0.2090	470-302090	470-302090B
#3	0.2130	1-1/4	2-3/8	0.2130	470-302130	470-302130B
5.5mm	0.2165	32mm	60mm	5.5mm	470-402165	470-402165B
7/32	0.2188	1-1/4	2-3/8	7/32	470-102188	470-102188B
#2	0.2210	1-5/16	2-7/16	0.2210	470-302210	470-302210B
#1	0.2280	1-5/16	2-7/16	0.2280	470-302280	470-302280B
A	0.2340	1-5/16	2-7/16	0.2340	470-202340	470-202340B
15/64	0.2344	1-5/16	2-7/16	15/64	470-102344	470-102344B
6mm	0.2362	33mm	62mm	6mm	470-402362	470-402362B
B	0.2380	1-3/8	2-1/2	0.2380	470-202380	470-202380B
C	0.2420	1-3/8	2-1/2	0.2420	470-202420	470-202420B
D	0.2460	1-3/8	2-1/2	0.2460	470-202460	470-202460B
1/4	0.2500	1-3/8	2-1/2	1/4	470-102500	470-102500B
E	0.2500	1-3/8	2-1/2	0.2500	470-202500	470-202500B
6.5mm	0.2559	35mm	64mm	6.5mm	470-402559	470-402559B
F	0.2570	1-7/16	2-5/8	0.2570	470-202570	470-202570B
G	0.2610	1-7/16	2-5/8	0.2610	470-202610	470-202610B
17/64	0.2656	1-7/16	2-5/8	17/64	470-102656	470-102656B
H	0.2660	1-1/2	2-11/16	0.2660	470-202660	470-202660B
I	0.2720	1-1/2	2-11/16	0.2720	470-202720	470-202720B
7mm	0.2756	38mm	68mm	7mm	470-402756	470-402756B
J	0.2770	1-1/2	2-11/16	0.2770	470-202770	470-202770B
K	0.2810	1-1/2	2-11/16	0.2810	470-202810	470-202810B
9/32	0.2813	1-1/2	2-11/16	9/32	470-102812	470-102812B
L	0.2900	1-9/16	2-3/4	0.2900	470-202900	470-202900B
M	0.2950	1-9/16	2-3/4	0.2950	470-202950	470-202950B
7.5mm	0.2953	38mm	70mm	7.5mm	470-402953	470-402953B
19/64	0.2969	1-9/16	2-3/4	19/64	470-102969	470-102969B
N	0.3020	1-5/8	2-13/16	0.3020	470-203020	470-203020B
5/16	0.3125	1-5/8	2-13/16	5/16	470-103125	470-103125B
8mm	0.3150	41mm	71mm	8mm	470-403150	470-403150B
O	0.3160	1-11/16	2-15/16	0.3160	470-203160	470-203160B
P	0.3230	1-11/16	2-15/16	0.3230	470-203230	470-203230B
21/64	0.3281	1-11/16	2-15/16	21/64	470-103281	470-103281B
Q	0.3320	1-11/16	3	0.3320	470-203320	470-203320B
8.5mm	0.3346	43mm	76mm	8.5mm	470-403346	470-403346B
R	0.3390	1-11/16	3	0.3390	470-203390	470-203390B
11/32	0.3438	1-11/16	3	11/32	470-103438	470-103438B
S	0.3480	1-3/4	3-1/16	0.3480	470-203480	470-203480B

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Series 470 2FL | Straight Flute

Diameter(D ₁)		Flute Length(L ₁)	OAL(L)	Shank(D)	Bright	AlTiN
Size	Dec.					
9mm	0.3543	45mm	78mm	9mm	470-403543	470-403543B
T	0.3580	1-3/4	3-1/16	0.3580	470-203580	470-203580B
23/64	0.3594	1-3/4	3-1/16	23/64	470-103594	470-103594B
U	0.3680	1-13/16	3-1/8	0.3680	470-203680	470-203680B
9.5mm	0.3740	46mm	79mm	9.5mm	470-403740	470-403740B
3/8	0.3750	1-13/16	3-1/8	3/8	470-103750	470-103750B
V	0.3770	1-7/8	3-1/4	0.3770	470-203770	470-203770B
W	0.3860	1-7/8	3-1/4	0.3860	470-203860	470-203860B
25/64	0.3906	1-7/8	3-1/4	25/64	470-103906	470-103906B
1mm	0.3937	48mm	83mm	1mm	470-403937	470-403937B
X	0.3970	1-15/16	3-5/16	0.3970	470-203970	470-203970B
Y	0.4040	1-15/16	3-5/16	0.4040	470-204040	470-204040B
13/32	0.4063	1-15/16	3-5/16	13/32	470-104062	470-104062B
Z	0.4130	2	3-3/8	0.4130	470-204130	470-204130B
10.5mm	0.4134	51mm	86mm	10.5mm	470-404134	470-404134B
27/64	0.4219	2	3-3/8	27/64	470-104219	470-104219B
11mm	0.4331	51mm	86mm	11mm	470-404331	470-404331B
7/16	0.4375	2-1/16	3-7/16	7/16	470-104375	470-104375B
11.5mm	0.4528	52mm	87mm	11.5mm	470-404528	470-404528B
29/64	0.4531	2-1/8	3-9/16	29/64	470-104531	470-104531B
15/32	0.4688	2-1/8	3-5/8	15/32	470-104688	470-104688B
12mm	0.4724	54mm	92mm	12mm	470-404724	470-404724B
31/64	0.4844	2-3/16	3-11/16	31/64	470-104844	470-104844B
12.5mm	0.4921	56mm	94mm	12.5mm	470-404921	470-404921B
1/2	0.5000	2-1/4	3-3/4	1/2	470-105000	470-105000B
33/64	0.5156	1-1/8	3-1/2	33/64	470-105156	470-105156B
17/32	0.5313	1-1/8	3-1/2	17/32	470-105312	470-105312B
35/64	0.5469	1-1/8	3-1/2	35/64	470-105469	470-105469B
9/16	0.5625	1-1/8	4	9/16	470-105625	470-105625B
5/8	0.6250	1-1/4	4	5/8	470-106250	470-106250B
11/16	0.6875	1-1/2	4	11/16	470-106875	470-106875B
3/4	0.7500	1-1/2	4	3/4	470-107500	470-107500B

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