GENERAL PURPOSE

Solid Carbide Screw Machine Drills

FEATURES/DESCRIPTION

Screw Machine Drills

- Sub-micrograin carbide substrate for wear resistance
- General purpose drilling operations
- 4-facet split point
- 15° helix for increased rigidity in demanding jobs

APPLICATION

FEATURES

CARBIDE, 2FL, 15°, 135°, P374, Bright, TiN, AlTiN

STEEL			STAINLESS		CAST IRON		NON-FERROUS		HRSA		HARDENED STEEL	
P1	P2	P3	M1	M2	K1	K2	N1	N2	S1	S2	H1	H2
●	●	O			●	●	O	O			O	

● Best O Good

Series 460 | 2FL | Screw Machine

Diameter (D_1) Size	Dec.	Flute Length (L_1)	OAL (L)	Shank (D)	Bright	TiN	AlTiN
1/32	0.0313	1/2	1-1/2	1/32	460-100312	-	460-100312B
1mm	0.0394	13mm	38mm	1mm	460-400394	-	460-400394B
#60	0.0400	1/2	1-1/2	0.0400	460-300400	-	460-300400B
#59	0.0410	1/2	1-1/2	0.0410	460-300410	-	460-300410B
#58	0.0420	1/2	1-1/2	0.0420	460-300420	-	460-300420B
#57	0.0430	1/2	1-1/2	0.0430	460-300430	-	460-300430B
#56	0.0465	1/2	1-1/2	3/64	460-300465	-	460-300465B
3/64	0.0469	1/2	1-1/2	3/64	460-100469	-	460-100469B
#55	0.0520	1/2	1-1/2	0.0520	460-300520	-	460-300520B
#54	0.0550	1/2	1-1/2	0.0550	460-300550	-	460-300550B
1.5mm	0.0591	13mm	38mm	1.5mm	460-400591	-	460-400591B
#53	0.0595	1/2	1-1/2	0.0595	460-300595	-	460-300595B
1/16	0.0625	5/8	1-5/8	1/16	460-100625	460-100625A	460-100625B
#52	0.0635	11/16	1-11/16	1/16	460-300635	-	460-300635B
#51	0.0670	11/16	1-11/16	0.0670	460-300670	-	460-300670B
#50	0.0700	11/16	1-11/16	0.0700	460-300700	-	460-300700B
#49	0.0730	11/16	1-11/16	0.0730	460-300730	-	460-300730B
#48	0.0760	11/16	1-11/16	0.0760	460-300760	-	460-300760B
5/64	0.0781	11/16	1-11/16	5/64	460-100781	460-100781A	460-100781B
#47	0.0785	3/4	1-3/4	5/64	460-300785	-	460-300785B
2mm	0.0787	19mm	45mm	2mm	460-400787	-	460-400787B
#46	0.0810	3/4	1-3/4	0.0810	460-300810	-	460-300810B
#45	0.0820	3/4	1-3/4	0.0820	460-300820	-	460-300820B
#44	0.0860	3/4	1-3/4	0.0860	460-300860	-	460-300860B
#43	0.0890	3/4	1-3/4	0.0890	460-300890	-	460-300890B
#42	0.0935	3/4	1-3/4	3/32	460-300935	-	460-300935B
3/32	0.0938	3/4	1-3/4	3/32	460-100938	460-100938A	460-100938B
#41	0.0960	13/16	1-13/16	0.0960	460-300960	-	460-300960B
#40	0.0980	13/16	1-13/16	0.0980	460-300980	-	460-300980B
2.5mm	0.0984	21mm	46mm	2.5mm	460-400984	-	460-400984B
#39	0.0995	13/16	1-13/16	0.0995	460-300995	-	460-300995B
#38	0.1015	13/16	1-13/16	0.1015	460-301015	-	460-301015B
#37	0.1040	13/16	1-13/16	0.1040	460-301040	-	460-301040B
#36	0.1065	13/16	1-13/16	0.1065	460-301065	-	460-301065B
7/64	0.1094	13/16	1-13/16	7/64	460-101094	460-101094A	460-101094B
#35	0.1100	7/8	1-7/8	7/64	460-301100	-	460-301100B
#34	0.1110	7/8	1-7/8	0.1110	460-301110	-	460-301110B
#33	0.1130	7/8	1-7/8	0.1130	460-301130	-	460-301130B
#32	0.1160	7/8	1-7/8	0.1160	460-301160	-	460-301160B
3mm	0.1181	22mm	48mm	3mm	460-401181	-	460-401181B
#31	0.1200	7/8	1-7/8	0.1200	460-301200	-	460-301200B
1/8	0.1250	7/8	1-7/8	1/8	460-101250	460-101250A	460-101250B
#30	0.1285	15/16	1-15/16	0.1285	460-301285	-	460-301285B
#29	0.1360	15/16	1-15/16	0.1360	460-301360	-	460-301360B
3.5mm	0.1378	24mm	49mm	3.5mm	460-401378	-	460-401378B

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GENERAL PURPOSE

Solid Carbide Screw Machine Drills

GWS TOOL GROUP

Series 460 | 2FL | Screw Machine

Diameter(D_1) Size	Dec.	Flute Length(L_1)	OAL(L)	Shank(D)	Bright	TiN	AlTiN
#28	0.1405	15/16	1-15/16	9/64	460-301405	-	460-301405B
9/64	0.1406	15/16	1-15/16	9/64	460-101406	460-101406A	460-101406B
#27	0.1440	1	2-1/16	0.1440	460-301440	-	460-301440B
#26	0.1470	1	2-1/16	0.1470	460-301470	-	460-301470B
#25	0.1495	1	2-1/16	0.1495	460-301495	-	460-301495B
#24	0.1520	1	2-1/16	0.1520	460-301520	-	460-301520B
#23	0.1540	1	2-1/16	0.1540	460-301540	-	460-301540B
5/32	0.1563	1	2-1/16	5/32	460-101562	460-101562A	460-101562B
#22	0.1570	1-1/16	2-1/8	5/32	460-301570	-	460-301570B
4mm	0.1575	27mm	54mm	4mm	460-401575	-	460-401575B
#21	0.1590	1-1/16	2-1/8	0.1590	460-301590	-	460-301590B
#20	0.1610	1-1/16	2-1/8	0.1610	460-301610	-	460-301610B
#19	0.1660	1-1/16	2-1/8	0.1660	460-301660	-	460-301660B
#18	0.1695	1-1/16	2-1/8	0.1695	460-301695	-	460-301695B
11/64	0.1719	1-1/16	2-1/8	11/64	460-101719	460-101719A	460-101719B
#17	0.1730	1-1/8	2-3/16	11/64	460-301730	-	460-301730B
#16	0.1770	1-1/8	2-3/16	0.1770	460-301770	-	460-301770B
4.5mm	0.1772	29mm	56mm	4.5mm	460-401772	-	460-401772B
#15	0.1800	1-1/8	2-3/16	0.1800	460-301800	-	460-301800B
#14	0.1820	1-1/8	2-3/16	0.1820	460-301820	-	460-301820B
#13	0.1850	1-1/8	2-3/16	0.1850	460-301850	-	460-301850B
3/16	0.1875	1-1/8	2-3/16	3/16	460-101875	460-101875A	460-101875B
#12	0.1890	1-3/16	2-1/4	3/16	460-301890	-	460-301890B
#11	0.1910	1-3/16	2-1/4	0.1910	460-301910	-	460-301910B
#10	0.1935	1-3/16	2-1/4	0.1935	460-301935	-	460-301935B
#9	0.1960	1-3/16	2-1/4	0.1960	460-301960	-	460-301960B
5mm	0.1969	30mm	57mm	5mm	460-401969	-	460-401969B
#8	0.1990	1-3/16	2-1/4	0.1990	460-301990	-	460-301990B
#7	0.2010	1-3/16	2-1/4	0.2010	460-302010	-	460-302010B
13/64	0.2031	1-3/16	2-1/4	13/64	460-102031	460-102031A	460-102031B
#6	0.2040	1-1/4	2-3/8	13/64	460-302040	-	460-302040B
#5	0.2055	1-1/4	2-3/8	0.2055	460-302055	-	460-302055B
#4	0.2090	1-1/4	2-3/8	0.2090	460-302090	-	460-302090B
#3	0.2130	1-1/4	2-3/8	0.2130	460-302130	-	460-302130B
5.5mm	0.2165	32mm	60mm	5.5mm	460-402165	-	460-402165B
7/32	0.2188	1-1/4	2-3/8	7/32	460-102188	460-102188A	460-102188B
#2	0.2210	1-5/16	2-7/16	0.2210	460-302210	-	460-302210B
#1	0.2280	1-5/16	2-7/16	0.2280	460-302280	-	460-302280B
A	0.2340	1-5/16	2-7/16	15/64	460-202340	-	460-202340B
15/64	0.2344	1-5/16	2-7/16	15/64	460-102344	460-102344A	460-102344B
6mm	0.2362	33mm	62mm	6mm	460-402362	-	460-402362B
B	0.2380	1-3/8	2-1/2	0.2380	460-202380	-	460-202380B
C	0.2420	1-3/8	2-1/2	0.2420	460-202420	-	460-202420B
D	0.2460	1-3/8	2-1/2	0.2460	460-202460	-	460-202460B
1/4	0.2500	1-3/8	2-1/2	1/4	460-102500	460-102500A	460-102500B
E	0.2500	1-3/8	2-1/2	1/4	460-202500	-	460-202500B
6.5mm	0.2559	35mm	64mm	6.5mm	460-402559	-	460-402559B
F	0.2570	1-7/16	2-5/8	0.2570	460-202570	-	460-202570B
G	0.2610	1-7/16	2-5/8	0.2610	460-202610	-	460-202610B
17/64	0.2656	1-7/16	2-5/8	17/64	460-102656	460-102656A	460-102656B
H	0.2660	1-1/2	2-11/16	17/64	460-202660	-	460-202660B
I	0.2720	1-1/2	2-11/16	0.2720	460-202720	-	460-202720B
7mm	0.2756	38mm	68mm	7mm	460-402756	-	460-402756B
J	0.2770	1-1/2	2-11/16	0.2770	460-202770	-	460-202770B
K	0.2810	1-1/2	2-11/16	9/32	460-202810	-	460-202810B
9/32	0.2813	1-1/2	2-11/16	9/32	460-102812	460-102812A	460-102812B
L	0.2900	1-9/16	2-3/4	0.2900	460-202900	-	460-202900B
M	0.2950	1-9/16	2-3/4	0.2950	460-202950	-	460-202950B
7.5mm	0.2953	40mm	70mm	7.5mm	460-402953	-	460-402953B
19/64	0.2969	1-9/16	2-3/4	19/64	460-102969	460-102969A	460-102969B
N	0.3020	1-5/8	2-13/16	0.3020	460-203020	-	460-203020B
5/16	0.3125	1-5/8	2-13/16	5/16	460-103125	460-103125A	460-103125B
8mm	0.3150	41mm	72mm	8mm	460-403150	-	460-403150B
O	0.3160	1-11/16	2-15/16	0.3160	460-203160	-	460-203160B
P	0.3230	1-11/16	2-15/16	0.3230	460-203230	-	460-203230B
21/64	0.3281	1-11/16	2-15/16	21/64	460-103281	460-103281A	460-103281B
Q	0.3320	1-11/16	3	0.3320	460-203320	-	460-203320B
8.5mm	0.3346	43mm	76mm	8.5mm	460-403346	-	460-403346B
R	0.3390	1-11/16	3	0.3390	460-203390	-	460-203390B
11/32	0.3438	1-11/16	3	11/32	460-103438	460-103438A	460-103438B
S	0.3480	1-3/4	3-1/16	0.3480	460-203480	-	460-203480B
9mm	0.3543	45mm	78mm	9mm	460-403543	-	460-403543B
T	0.3580	1-3/4	3-1/16	23/64	460-203580	-	460-203580B
23/64	0.3594	1-3/4	3-1/16	23/64	460-103594	460-103594A	460-103594B
U	0.3680	1-13/16	3-1/8	0.3680	460-203680	-	460-203680B
9.5mm	0.3740	46mm	79mm	9.5mm	460-403740	-	460-403740B

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GWS TOOL GROUP

Series 460 | 2FL | Screw Machine

Diameter (D_1) Size	Dec.	Flute Length (L_1)	OAL (L)	Shank (D)	Bright	TiN	AlTiN
3/8	0.3750	1-13/16	3-1/8	3/8	**460-103750**	**460-103750A**	**460-103750B**
V	0.3770	1-7/8	3-1/4	0.3770	**460-203770**	-	**460-203770B**
W	0.3860	1-7/8	3-1/4	0.3860	**460-203860**	-	**460-203860B**
25/64	0.3906	1-7/8	3-1/4	25/64	**460-103906**	**460-103906A**	**460-103906B**
1mm	0.3937	48mm	83mm	10mm	**460-403937**	-	**460-403937B**
X	0.3970	1-15/16	3-5/16	0.3970	**460-203970**	-	**460-203970B**
Y	0.4040	1-15/16	3-5/16	0.4040	**460-204040**	-	**460-204040B**
13/32	0.4063	1-15/16	3-5/16	13/32	**460-104062**	**460-104062A**	**460-104062B**
Z	0.4130	2	3-3/8	0.4130	**460-204130**	-	**460-204130B**
10.5mm	0.4134	51mm	86mm	10.5mm	**460-404134**	-	**460-404134B**
27/64	0.4219	2	3-3/8	27/64	**460-104219**	**460-104219A**	**460-104219B**
11mm	0.4331	51mm	86mm	11mm	**460-404331**	-	**460-404331B**
7/16	0.4375	2-1/16	3-7/16	7/16	**460-104375**	**460-104375A**	**460-104375B**
11.5mm	0.4528	52mm	88mm	11.5mm	**460-404528**	-	**460-404528B**
29/64	0.4531	2-1/8	3-9/16	29/64	**460-104531**	**460-104531A**	**460-104531B**
15/32	0.4688	2-1/8	3-5/8	15/32	**460-104688**	**460-104688A**	**460-104688B**
12mm	0.4724	54mm	92mm	12mm	**460-404724**	-	**460-404724B**
31/64	0.4844	2-3/16	3-11/16	31/64	**460-104844**	**460-104844A**	**460-104844B**
12.5mm	0.4921	56mm	94mm	12.5mm	**460-404921**	-	**460-404921B**
1/2	0.5000	2-1/4	3-3/4	1/2	**460-105000**	**460-105000A**	**460-105000B**
13mm	0.5118	2-3/8	3-7/8	13mm	**460-405118**	-	**460-405118B**
33/64	0.5156	2-3/8	3-7/8	33/64	**460-105156**	-	**460-105156B**
17/32	0.5313	2-3/8	3-7/8	17/32	**460-105312**	-	**460-105312B**
35/64	0.5469	2-1/2	4	35/64	**460-105469**	-	**460-105469B**
9/16	0.5625	2-1/2	4	9/16	**460-105625**	-	**460-105625B**
5/8	0.6250	2-3/4	4-1/4	5/8	**460-106250**	-	**460-106250B**
11/16	0.6875	3	4-5/8	11/16	**460-106875**	-	**460-106875B**
3/4	0.7500	3-1/8	5	3/4	**460-107500**	-	**460-107500B**

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Popular Custom Holemaking Options

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