

CARBIDE TIPPED

JOBBERS LENGTH DRILLS

SERIES 505:



Dia.	Flute Lgth	Overall Lgth	Order No.	Price	Dia.	Flute Lgth	Overall Lgth	Order No.	Price
1/8	1-5/8	2-3/4	2675008		5/16	3-3/16	4-1/2	2675020	
9/64	2	3-1/8	2675009		21/64	3-7/16	4-3/4	2675021	
5/32	2	3-1/8	2675010		11/32	3-7/16	4-3/4	2675022	
11/64	2-5/16	3-1/2	2675011		23/64	3-5/8	5	2675023	
3/16	2-5/16	3-1/2	2675012		3/8	3-5/8	5	2675024	
13/64	2-1/2	3-3/4	2675013		25/64	3-7/8	5-1/4	2675025	
7/32	2-1/2	3-3/4	2675014		13/32	3-7/8	5-1/4	2675026	
15/64	2-3/4	4	2675015		27/64	4-1/16	5-1/2	2675027	
1/4	2-3/4	4	2675016		7/16	4-1/16	5-1/2	2675028	
17/64	2-15/16	4-1/4	2675017		29/64	4-5/16	5-3/4	2675029	
9/32	2-15/16	4-1/4	2675018		15/32	4-5/16	5-3/4	2675030	
19/64	3-3/16	4-1/2	2675019		31/64	4-1/2	6	2675031	
					1/2	4-1/2	6	2675032	



CARBIDE TIPPED

DRILLS - JOBBERS, SCREW MACHINE, & TAPER LENGTHS

**118° Point
SERIES 980:**



Premium C-2/K20 carbide provides excellent wear resistance when cutting cast aluminum, bronze, cast and ductile irons, fiberglass, hard plastics and other abrasive materials. Not recommended for soft steels.

Dia.	Jobbers Length				Screw Machine Length				Taper Length*			
	Flute Lgth	Overall Lgth	Order No.	Price	Flute Lgth	Overall Lgth	Order No.	Price	Flute Lgth	Overall Lgth	Order No.	Price
1/8	1-5/8	2-3/4	1200108		7/8	1-7/8	1100108		2-3/4	5-1/8	1300108	
9/64	2	3-1/8	1200109		1	2-1/16	1100109		3	5-3/8	1300109	
5/32	2	3-1/8	1200110		1	2-1/16	1100110		3	5-3/8	1300110	
11/64	2-5/16	3-1/2	1200111		1-1/8	2-3/16	1100111		3-3/8	5-3/4	1300111	
3/16	2-5/16	3-1/2	1200112		1-1/8	2-3/16	1100112		3-3/8	5-3/4	1300112	
13/64	2-1/2	3-3/4	1200113		1-1/4	2-3/8	1100113		3-5/8	6	1300113	
7/32	2-1/2	3-3/4	1200114		1-1/4	2-3/8	1100114		3-5/8	6	1300114	
15/64	2-3/4	4	1200115		1-3/8	2-1/2	1100115		3-3/4	6-1/8	1300115	
1/4	2-3/4	4	1200116		1-3/8	2-1/2	1100116		3-3/4	6-1/8	1300116	
17/64	2-15/16	4-1/4	1200117		1-1/2	2-11/16	1100117		3-7/8	6-1/4	1300117	
9/32	2-15/16	4-1/4	1200118		1-1/2	2-11/16	1100118		3-7/8	6-1/4	1300118	
19/64	3-3/16	4-1/2	1200119		1-5/8	2-13/16	1100119		4	6-3/8	1300119	
5/16	3-3/16	4-1/2	1200120		1-5/8	2-13/16	1100120		4	6-3/8	1300120	
21/64	3-7/16	4-3/4	1200121		1-11/16	3	1100121		4-1/8	6-1/2	1300121	
11/32	3-7/16	4-3/4	1200122		1-11/16	3	1100122		4-1/8	6-1/2	1300122	
23/64	3-5/8	5	1200123		1-13/16	3-1/8	1100123		4-1/4	6-3/4	1300123	
3/8	3-5/8	5	1200124		1-13/16	3-1/8	1100124		4-1/4	6-3/4	1300124	
25/64	3-7/8	5-1/4	1200125		1-15/16	3-5/16	1100125		4-3/8	7	1300125	
13/32	3-7/8	5-1/4	1200126		1-15/16	3-5/16	1100126		4-3/8	7	1300126	
27/64	4-1/16	5-1/2	1200127		2-1/16	3-7/16	1100127		4-5/8	7-1/4	1300127	
7/16	4-1/16	5-1/2	1200128		2-1/16	3-7/16	1100128		4-5/8	7-1/4	1300128	
29/64	4-5/16	5-3/4	1200129		2-1/8	3-5/8	1100129		4-3/4	7-1/2	1300129	
15/32	4-5/16	5-3/4	1200130		2-1/8	3-5/8	1100130		4-3/4	7-1/2	1300130	
31/64	4-1/2	6	1200131		2-1/4	3-3/4	1100131		4-3/4	7-3/4	1300131	
1/2	4-1/2	6	1200132		2-1/4	3-3/4	1100132		4-3/4	7-3/4	1300132	
33/64	4-13/16	6-5/8	1200133		-	-	-		4-3/4	8	1300133	
17/32	4-13/16	6-5/8	1200134		2-3/8	3-7/8	1100134		4-3/4	8	1300134	
35/64	4-13/16	6-5/8	1200135		-	-	-		4-7/8	8-1/4	1300135	
9/16	4-13/16	6-5/8	1201136		2-1/2	4	1100136		4-7/8	8-1/4	1300136	
37/64	4-13/16	6-5/8	1200137		-	-	-		4-7/8	8-3/4	1300137	
19/32	5-3/16	7-1/8	1200138		2-5/8	4-1/8	1100138		4-7/8	8-3/4	1300138	
39/64	5-3/16	7-1/8	1200139		-	-	-		4-7/8	8-3/4	1300139	
5/8	5-3/16	7-1/8	1201140		2-3/4	4-1/4	1100140		4-7/8	8-3/4	1300140	
41/64	5-3/16	7-1/8	1200141		-	-	-		5-1/8	9	1301141	
21/32	5-3/16	7-1/8	1200142		2-7/8	4-1/2	1100142		5-1/8	9	1300142	
43/64	5-5/8	7-5/8	1200143		-	-	-		5-3/8	9-1/4	1300143	
11/16	5-5/8	7-5/8	1201144		2-7/8	4-5/8	1100144		5-3/8	9-1/4	1300144	
23/32	-	-	-		3	4-3/4	1100146		5-5/8	9-1/2	1300146	
3/4	-	-	-		3-1/8	5	1100148		5-7/8	9-3/4	1300148	

*Tang Style

Dia. up to 1-1/4" available; please inquire.

Dia. up to 1" available; please inquire.

CUTTING TOOLS - DRILLS

CARBIDE TIPPED

DRILLS - JOBBERS, SCREW MACHINE, & TAPER LENGTHS -

METRIC SIZES

118° Point
SERIES 980:



CUTTING TOOLS - DRILLS

Dia. mm	Jobbers Length				Screw Machine Length				Taper Length*			
	Flute Lgth	Overall Lgth	Order No.	Price	Flute Lgth	Overall Lgth	Order No.	Price	Flute Lgth	Overall Lgth	Order No.	Price
3.0	51	79	1203030		-	-	-		-	-	-	
3.5	51	79	1203035		25	52	1103035		-	-	-	
4.0	59	89	1203040		25	52	1103040		-	-	-	
4.5	64	95	1203045		29	56	1103045		-	-	-	
5.0	64	95	1203050		32	60	1103050		92	152	1300050	
5.5	70	102	1203055		32	60	1103055		92	152	1300055	
6.0	75	108	1203060		35	64	1103060		95	156	1300060	
6.5	75	108	1203065		38	68	1103065		98	159	1300065	
7.0	81	114	1203070		38	68	1103070		98	159	1300070	
7.5	81	114	1203075		41	71	1103075		102	162	1300075	
8.0	87	121	1203080		41	71	1103080		102	162	1300080	
8.5	92	127	1203085		43	76	1103085		105	165	1300085	
9.0	92	127	1203890		46	79	1103090		108	171	1300090	
9.5	98	133	1203095		46	79	1103095		108	171	1300095	
10.0	103	140	1203100		49	84	1103100		111	178	1301100	
10.5	103	140	1203105		52	87	1103105		117	184	1301105	
11.0	110	146	1203110		52	87	1103110		117	184	1301110	
11.5	110	146	1203115		54	92	1103115		121	191	1301115	
12.0	114	152	1203120		54	92	1103120		121	191	1301120	
12.5	122	168	1203125		57	95	1103125		121	197	1301125	
13.0	122	168	1203130		60	98	1103130		121	203	1301130	
13.5	-	-	-		60	98	1103135		121	203	1301135	
14.0	-	-	-		64	102	1103140		124	210	1301140	
14.5	-	-	-		-	-	-		124	222	1300145	
15.0	-	-	-		-	-	-		124	222	1300150	
15.5	-	-	-		-	-	-		124	222	1300155	
16.0	-	-	-		-	-	-		130	229	1300160	
16.5	-	-	-		-	-	-		130	229	1300165	
17.0	-	-	-		-	-	-		137	235	1300170	
17.5	-	-	-		-	-	-		137	235	1300175	
18.0	-	-	-		-	-	-		143	241	1300180	
18.5	-	-	-		-	-	-		149	248	1300185	
19.0	-	-	-		-	-	-		149	248	1300190	

Diameters in .1mm increments available; please inquire.

*Tang Style

CARBIDE TIPPED

MASONRY DRILLS

SLOW SPIRAL / PLATED FINISH *
SERIES 504:



Dia.	Shank Dia.	3" Overall Lgth		4" Overall Lgth		6" Overall Lgth		13" Overall Lgth		18" Overall Lgth*	
		Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	2670804		-		-		-		-	
3/16	3/16	-		2671204		-		-		-	
1/4	1/4	-		2671604		2671606		2671613		2671618	
5/16	1/4	-		2672004		2672006		2672013		2672018	
3/8	1/4	-		2672404		2672406		2672413		2672418	
1/2	3/8	-		-		2673206		2673213		2673218	
5/8	3/8	-		-		2674006		2674013		2674018	
3/4	1/2	-		-		2674806		2674813		2674818	
7/8	1/2	-		-		2675606		2675613		2675618	
1	1/2	-		-		2676406		2676413		2676418	

* 18" OAL supplied with black finish only.

CARBIDE TIPPED JOBBERS
LENGTH DRILLS - 118° POINT
SERIES 505: MEDA - SUPERIOR IMPORT
SERIES 980: CJT USA



CARBIDE TIPPED
DIE DRILLS FOR HARDENED STEEL
STRAIGHT SHANK / STRAIGHT FLUTE
SERIES 531:



Extra thick C-2/K20 carbide tip very high temperature, braze, and the heavy land construction withstand the heavy feed pressure necessary to penetrate hardened and case hardened steels over 45Rc/421H6. Produces reamer like hole finish, accurate hole size and can be used for coring out pre-existing holes.



Size	Dec. Equiv.	Flute Lgth.	Overall Lgth.	MEDA		CJT	
				Order No.	Price	Order No.	Price
1	.2280	2-3/4	4	5050001		1200001	
2	.2210	2-1/2	3-3/4	5050002		1200002	
3	.2130	2-1/2	3-3/4	5050003		1200003	
4	.2090	2-1/2	3-3/4	5050004		1200004	
5	.2055	2-1/2	3-3/4	5050005		1200005	
6	.2040	2-1/2	3-3/4	5050006		1200006	
7	.2010	2-1/2	3-3/4	5050007		1200007	
8	.1990	2-1/2	3-3/4	5050008		1200008	
9	.1960	2-1/2	3-3/4	5050009		1200009	
10	.1935	2-1/2	3-3/4	5050010		1200010	
11	.1910	2-5/16	3-1/2	5050011		1200011	
12	.1890	2-5/16	3-1/2	5050012		1200012	
13	.1850	2-5/16	3-1/2	5050013		1200013	
14	.1820	2-5/16	3-1/2	5050014		1200014	
15	.1800	2-5/16	3-1/2	5050015		1200015	
16	.1770	2-5/16	3-1/2	5050016		1200016	
17	.1730	2-5/16	3-1/2	5050017		1200017	
18	.1695	2-5/16	3-1/2	5050018		1200018	
19	.1660	2-5/16	3-1/2	5050019		1200019	
20	.1610	2-5/16	3-1/2	5050020		1201120	
21	.1590	2	3-1/8	5050021		1200021	
22	.1570	2	3-1/8	5050022		1200022	
23	.1540	2	3-1/8	5050023		1200023	
24	.1520	2	3-1/8	5050024		1200024	
25	.1495	2	3-1/8	5050025		1200025	
26	.1470	2	3-1/8	5050026		1201126	
27	.1440	2	3-1/8	5050027		1200027	
28	.1405	2	3-1/8	5050028		1201128	
29	.1360	2	3-1/8	5050029		1200029	
30	.1285	1-5/8	2-3/4	5050030		1201130	
31	.1200	1-5/8	2-3/4	5050031		1200031	
32	.1160	1-5/8	2-3/4	5050032		1201132	
33	.1130	1-5/8	2-3/4	-		1200033	
34	.1110	1-5/8	2-3/4	-		9200034	
35	.1100	1-5/8	2-3/4	-		1200035	
36	.1065	1-5/8	2-3/4	-		9200036	
37	.1040	1-5/8	2-3/4	-		1200037	
38	.1015	1-5/8	2-3/4	-		1200038	
39	.0995	1-5/8	2-3/4	-		1200039	
40	.0980	1-5/8	2-3/4	-		9200040	
A	.2340	2-3/4	4	5050201		1200201	
B	.2380	2-3/4	4	5050202		1200202	
C	.2420	2-3/4	4	5050203		1200203	
D	.2460	2-3/4	4	5050204		1200204	
E, 1/4	.2500	2-3/4	4	5050205		1200116	
F	.2570	2-15/16	4-1/4	5050206		1200206	
G	.2610	2-15/16	4-1/4	5050207		1200207	
H	.2660	2-15/16	4-1/4	5050208		1200208	
I	.2720	2-15/16	4-1/4	5050209		1200209	
J	.2770	2-15/16	4-1/4	5050210		1200210	
K	.2810	2-15/16	4-1/4	5050211		1200211	
L	.2900	3-3/16	4-1/2	5050212		1200212	
M	.2950	3-3/16	4-1/2	5050213		1200213	
N	.3020	3-3/16	4-1/2	5050214		1200214	
O	.3160	3-3/16	4-1/2	5050215		1200215	
P	.3230	3-7/16	4-3/4	5050216		1200216	
Q	.3320	3-7/16	4-3/4	5050217		1200217	
R	.3390	3-7/16	4-3/4	5050218		1200218	
S	.3480	3-5/8	5	5050219		1200219	
T	.3580	3-5/8	5	5050220		1200220	
U	.3680	3-5/8	5	5050221		1200221	
V	.3770	3-5/8	5	5050222		1200222	
W	.3860	3-7/8	5-1/4	5050223		1200223	
X	.3970	3-7/8	5-1/4	5050224		1200224	
Y	.4040	3-7/8	5-1/4	5050225		1200225	
Z	.4130	4-1/16	5-1/2	5050226		1200226	

Size	Flute Length	Overall Length	Order No.	Price
3/16	1-1/2	3-1/2	5310012	
13/64	1-3/4	3-3/4	5310013	
7/32	1-3/4	3-3/4	5310014	
15/64	2	4	5310015	
1/4	2	4	5310016	
17/64	2-1/4	4-1/4	5310017	
9/32	2-1/4	4-1/4	5310018	
19/64	2-1/2	4-1/2	5310019	
5/16	2-1/2	4-1/2	5310020	
21/64	2-3/4	4-3/4	5310021	
11/32	2-3/4	4-3/4	5310022	
23/64	3	5	5310023	
3/8	3	5	5310024	
25/64	3	5-1/4	5310025	
13/32	3	5-1/4	5310026	
27/64	3	5-1/2	5310027	
7/16	3	5-1/2	5310028	
29/64	3-1/4	5-3/4	5310029	
15/32	3-1/4	5-3/4	5310030	
31/64	3-1/2	6	5310031	
1/2	3-1/2	6	5310032	
17/32	3-1/2	6	5310034	
9/16	3-1/2	6	5310036	
19/32	4	7	5310038	
5/8	4	7	5310040	
21/32	4-1/2	7-1/2	5310042	
11/16	4-1/2	7-1/2	5310044	
23/32	4-3/4	8	5310046	
3/4	4-3/4	8	5310048	
13/16	4-3/4	8	5310052	
7/8	4-3/4	8	5310056	
15/16	4-3/4	8	5310060	
1	4-3/4	8	5310064	

METRIC SIZES

Size	Flute Lgth	Overall Lgth	Order No.	Price
5.0	44	95	5311005	
5.5	44	95	5311055	
6.0	51	102	5311060	
6.5	57	108	5311065	
7.0	57	108	5311070	
7.5	64	114	5311075	
8.0	64	114	5311080	
8.5	70	121	5311085	
9.0	76	127	5311090	
9.5	76	127	5311095	
10.0	76	133	5311100	
10.5	76	140	5311105	
11.0	76	140	5311110	
11.5	83	146	5311115	
12.0	83	146	5311120	
12.5	89	152	5311125	
13.0	89	152	5311130	
13.5	89	152	5311135	
14.0	89	152	5311140	

**SOLID CARBIDE
JOBBERS LENGTH DRILLS**
SERIES 491: WIRE GAUGE SIZES
SERIES 492: FRACTIONAL SIZES
SERIES 493: LETTER SIZES



FOR: Non-Ferrous Alloys, Cast Iron, Plastic, Aluminum, Highly Abrasive Material.



CUTTING TOOLS - DRILLS

Wire Gauge Sizes					
Size	Decimal Equivalent	Flute Lgth	Overall Lgth	Order No.	Price
1	.2280	1-3/4	3	2605001	
2	.2210	1-3/4	3	2605002	
3	.2130	1-3/4	3	2605003	
4	.2090	1-3/4	3	2605004	
5	.2055	1-3/4	3	2605005	
6	.2040	1-3/4	3	2605006	
7	.2010	1-3/4	3	2605007	
8	.1990	1-3/4	3	2605008	
9	.1960	1-3/4	3	2605009	
10	.1935	1-5/8	2-3/4	2605010	
11	.1910	1-5/8	2-3/4	2605011	
12	.1890	1-5/8	2-3/4	2605012	
13	.1850	1-5/8	2-3/4	2605013	
14	.1820	1-5/8	2-3/4	2605014	
15	.1800	1-5/8	2-3/4	2605015	
16	.1770	1-5/8	2-3/4	2605016	
17	.1730	1-5/8	2-3/4	2605017	
18	.1695	1-5/8	2-3/4	2605018	
19	.1660	1-5/8	2-3/4	2605019	
20	.1610	1-3/8	2-1/2	2605020	
21	.1590	1-3/8	2-1/2	2605021	
22	.1570	1-3/8	2-1/2	2605022	
23	.1540	1-3/8	2-1/2	2605023	
24	.1520	1-3/8	2-1/2	2605024	
25	.1495	1-3/8	2-1/2	2605025	
26	.1470	1-3/8	2-1/2	2605026	
27	.1440	1-3/8	2-1/2	2605027	
28	.1405	1-3/8	2-1/2	2605028	
29	.1360	1-3/8	2-1/2	2605029	
30	.1285	1-1/4	2-1/4	2605030	
31	.1200	1-1/4	2-1/4	2605031	
32	.1160	1-1/4	2-1/4	2605032	
33	.1130	1-1/4	2-1/4	2605033	
34	.1110	1-1/4	2-1/4	2605034	
35	.1100	1-1/4	2-1/4	2605035	
36	.1065	1-1/4	2-1/4	2605036	
37	.1040	1-1/4	2-1/4	2605037	
38	.1015	1-1/4	2-1/4	2605038	
39	.0995	1-1/4	2-1/4	2605039	
40	.0980	1	2	2605040	
41	.0960	1	2	2605041	
42	.0935	1	2	2605042	
43	.0890	1	2	2605043	
44	.0860	1	2	2605044	
45	.0820	7/8	1-3/4	2605045	
46	.0810	7/8	1-3/4	2605046	
47	.0785	7/8	1-3/4	2605047	
48	.0760	7/8	1-3/4	2605048	
49	.0730	7/8	1-3/4	2605049	
50	.0700	7/8	1-3/4	2605050	
51	.0670	3/4	1-1/2	2605051	
52	.0635	3/4	1-1/2	2605052	
53	.0595	3/4	1-1/2	2605053	
54	.0550	3/4	1-1/2	2605054	
55	.0520	3/4	1-1/2	2605055	
56	.0465	3/4	1-1/2	2605056	
57	.0430	3/4	1-1/2	2605057	
58	.0420	3/4	1-1/2	2605058	
59	.0410	3/4	1-1/2	2605059	
60	.0400	3/4	1-1/2	2605060	
61	.0390	1/2	1-1/4	2605061	
62	.0385	1/2	1-1/4	2605062	
63	.0375	1/2	1-1/4	2605063	
64	.0360	1/2	1-1/4	2605064	
65	.0350	3/8	1-1/8	2605065	
66	.0335	3/8	1-1/8	2605066	
67	.0320	3/8	1-1/8	2605067	
68	.0310	3/8	1-1/8	2605068	
69	.0292	5/16	1	2605069	
70	.0280	5/16	1	2605070	
71	.0260	5/16	1	2605071	
72	.0255	5/16	1	2605072	
73	.0245	1/4	1	2605073	
74	.0225	1/4	1	2605074	
75	.0210	1/4	1	2605075	
76	.0200	1/4	1	2605076	
77	.0180	1/4	1	2605077	
78	.0160	1/4	1	2605078	
79	.0145	1/4	1	2605079	
80	.0135	1/4	1	2605080	

Fractional Sizes					
Dia.	Decimal Equivalent	Flute Lgth	Overall Lgth	Order No.	Price
1/64	.0156	1/4	1	2610001	
1/32	.0312	3/8	1-1/8	2610002	
3/64	.0469	3/4	1-1/2	2610003	
1/16	.0625	3/4	1-1/2	2610004	
5/64	.0781	7/8	1-3/4	2610005	
3/32	.0937	1	2	2610006	
7/64	.1094	1-1/4	2-1/4	2610007	
1/8	.1250	1-1/4	2-1/4	2610008	
9/64	.1406	1-3/8	2-1/2	2610009	
5/32	.1562	1-3/8	2-1/2	2610010	
11/64	.1719	1-5/8	2-3/4	2610011	
3/16	.1875	1-5/8	2-3/4	2610012	
13/64	.2031	1-3/4	3	2610013	
7/32	.2187	1-3/4	3	2610014	
15/64	.2344	2	3-1/4	2610015	
1/4	.2500	2	3-1/4	2610016	
17/64	.2656	2-1/8	3-1/2	2610017	
9/32	.2812	2-1/8	3-1/2	2610018	
19/64	.2969	2-3/8	3-3/4	2610019	
5/16	.3125	2-3/8	3-3/4	2610020	
21/64	.3281	2-1/2	4	2610021	
11/32	.3438	2-1/2	4	2610022	
23/64	.3594	2-1/2	4	2610023	
3/8	.3750	2-3/4	4-1/4	2610024	
25/64	.3906	2-7/8	4-1/2	2610025	
13/32	.4062	2-7/8	4-1/2	2610026	
27/64	.4219	2-7/8	4-1/2	2610027	
7/16	.4375	2-7/8	4-1/2	2610028	
29/64	.4531	3	4-3/4	2610029	
15/32	.4687	3	4-3/4	2610030	
31/64	.4844	3	4-3/4	2610031	
1/2	.5000	3	4-3/4	2610032	

Letter Sizes					
Size	Decimal Equivalent	Flute Lgth	Overall Lgth	Order No.	Price
A	.234	2	3-1/4	2615001	
B	.238	2	3-1/4	2615002	
C	.242	2	3-1/4	2615003	
D	.246	2	3-1/4	2615004	
E	.250	2	3-1/4	2615005	
F	.257	2	3-1/4	2615006	
G	.261	2-1/8	3-1/2	2615007	
H	.266	2-1/8	3-1/2	2615008	
I	.272	2-1/8	3-1/2	2615009	
J	.277	2-1/8	3-1/2	2615010	
K	.281	2-1/8	3-1/2	2615011	
L	.290	2-1/8	3-1/2	2615012	
M	.295	2-3/8	3-3/4	2615013	
N	.302	2-3/8	3-3/4	2615014	
O	.316	2-3/8	3-3/4	2615015	
P	.323	2-3/8	3-3/4	2615016	
Q	.332	2-1/2	4	2615017	
R	.339	2-1/2	4	2615018	
S	.348	2-1/2	4	2615019	
T	.358	2-1/2	4	2615020	
U	.368	2-3/4	4-1/4	2615021	
V	.377	2-3/4	4-1/4	2615022	
W	.386	2-7/8	4-1/2	2615023	
X	.397	2-7/8	4-1/2	2615024	
Y	.404	2-7/8	4-1/2	2615025	
Z	.413	2-7/8	4-1/2	2615026	

**SOLID CARBIDE
JOBBER'S LENGTH DRILLS
SERIES 491: METRIC SIZES**



FOR: Non-Ferrous Alloys, Cast Iron, Plastic, Aluminum,
Highly Abrasive Material.

Size mm	Decimal Equivalent	Flute Length	Overall Length	Order No.	Price
1.50	.0591	19	38	4910150	
2.00	.0787	22	44	4910200	
2.50	.0984	25	51	4910250	
3.00	.1181	32	57	4910300	
3.50	.1378	35	64	4910350	
4.00	.1575	35	64	4910400	
4.50	.1772	41	70	4910450	
5.00	.1969	44	76	4910500	
5.50	.2165	44	76	4910550	
6.00	.2362	51	83	4910600	
6.50	.2559	51	83	4910650	
7.00	.2756	54	89	4910700	
7.50	.2953	60	92	4910750	
8.00	.3150	60	92	4910800	
8.50	.3346	64	102	4910850	
9.00	.3543	64	102	4910900	
9.50	.3740	70	108	4910950	
10.00	.3937	73	114	4910100	
10.50	.4134	73	114	4910105	
11.00	.4331	73	114	4910110	
11.50	.4528	76	121	4910115	
12.00	.4724	76	121	4910120	

**SOLID CARBIDE
SPADE DRILLS
SERIES 494:**



FOR: Thin Sheet Applications/Shallow Hole Drilling/
Spot Drilling.

Size	Flute Length	Overall Length	Order No.	Price
1/32	3/16	1-1/2	2620002	
3/64	7/32	1-1/2	2620003	
1/16	5/16	1-1/2	2620004	
3/32	7/16	1-1/2	2620006	
7/64	7/16	1-1/2	2620007	
1/8	1/2	1-1/2	2620008	
9/64	1/2	2	2620009	
5/32	9/16	2	2620010	
11/64	9/16	2	2620011	
3/16	11/16	2	2620012	
7/32	11/16	2	2620014	
1/4	11/16	2	2620016	
9/32	7/8	2-1/2	2620018	
5/16	7/8	2-1/2	2620020	
11/32	15/16	2-1/2	2620022	
3/8	1-1/8	2-1/2	2620024	
13/32	1-1/8	2-3/4	2620026	
7/16	1-3/16	2-3/4	2620028	
15/32	1-3/16	3	2620030	
1/2	1-3/16	3	2620032	

**SOLID CARBIDE
STRAIGHT FLUTE DRILLS -
METRIC SIZES
SERIES 295:**



FOR: Hardened, Treated, and Abrasive Material e.g.,
Stainless Steel, Nickel Chrome Steel, and Cryogenic Alloys.

Size	Decimal Equivalent	Flute Length	Overall Length	Order No.	Price
1.5	.0591	13	38	9811015	
2	.0787	19	44	9811020	
2.5	.0984	21	46	9811025	
3	.1181	22	48	9811030	
3.5	.1378	24	49	9811035	
4	.1575	27	54	9811040	
4.5	.1772	29	56	9811045	
5	.1968	30	57	9811050	
5.5	.2165	32	60	9811055	
6	.2362	33	62	9811060	
6.5	.2559	35	64	9811065	
7	.2756	38	68	9811070	
7.5	.2953	40	70	9811075	
8	.3150	41	71	9811080	
8.5	.3346	43	76	9811085	
9	.3543	44	78	9811090	
9.5	.3740	46	79	9811095	
10	.3937	48	83	9811000	
10.5	.4134	51	86	9811105	
11	.4331	52	87	9911100	
11.5	.4528	54	90	9911150	
12	.4724	54	92	9911200	

**SOLID CARBIDE
STRAIGHT FLUTE DRILLS -
LETTER SIZES
SERIES 295:**



Size	Decimal Equivalent	Flute Length	Overall Length	Order No.	Price
A	.234	1-5/16	2-7/16	4004001	
B	.238	1-3/8	2-1/2	4004002	
C	.242	1-3/8	2-1/2	4004003	
D	.246	1-3/8	2-1/2	4004004	
E	.250	1-3/8	2-1/2	4004005	
F	.257	1-7/16	2-5/8	4004006	
G	.261	1-7/16	2-5/8	4004007	
H	.266	1-1/2	2-11/16	4004008	
I	.272	1-1/2	2-11/16	4004009	
J	.277	1-1/2	2-11/16	4004010	
K	.281	1-1/2	2-11/16	4004011	
L	.290	1-9/16	2-3/4	4004012	
M	.295	1-9/16	2-3/4	4004013	
N	.302	1-5/8	2-13/16	4004014	
O	.316	1-11/16	2-15/16	4004015	
P	.323	1-11/16	2-15/16	4004016	
Q	.332	1-11/16	3	4004017	
R	.339	1-11/16	3	4004018	
S	.348	1-3/4	3-1/16	4004019	
T	.358	1-3/4	3-1/16	4004020	
U	.368	1-13/16	3-1/8	4004021	
V	.377	1-7/8	3-1/4	4004022	
W	.386	1-7/8	3-1/4	4004023	
X	.397	1-15/16	3-5/16	4004024	
Y	.404	1-15/16	3-5/16	4004025	
Z	.413	2	3-3/8	4004026	

**SOLID CARBIDE
STRAIGHT FLUTE DRILLS
WIRE SIZES
SERIES 295:**



FOR: Hardened, Treated, and Abrasive Material e.g.,
Stainless Steel, Nickel Chrome Steel, and Cryogenic Alloys.

Size	Decimal Equivalent	Flute Lgth	Overall Lgth	Order No.	Price
1	.2280	1-5/16	2-7/16	4003001	
2	.2210	1-5/16	2-7/16	4003002	
3	.2130	1-1/4	2-3/8	4003003	
4	.2090	1-1/4	2-3/8	4003004	
5	.2055	1-1/4	2-3/8	4003005	
6	.2040	1-1/4	2-3/8	4003006	
7	.2010	1-3/16	2-1/4	4003007	
8	.1990	1-3/16	2-1/4	4003008	
9	.1960	1-3/16	2-1/4	4003009	
10	.1935	1-3/16	2-1/4	4003010	
11	.1910	1-3/16	2-1/4	4003011	
12	.1890	1-3/16	2-1/4	4003012	
13	.1850	1-1/8	2-3/16	4003013	
14	.1820	1-1/8	2-3/16	4003014	
15	.1800	1-1/8	2-3/16	4003015	
16	.1770	1-1/8	2-3/16	4003016	
17	.1730	1-1/8	2-3/16	4003017	
18	.1695	1-1/16	2-1/8	4003018	
19	.1660	1-1/16	2-1/8	4003019	
20	.1610	1-1/16	2-1/8	4003020	
21	.1590	1-1/16	2-1/8	4003021	
22	.1570	1-1/16	2-1/8	4003022	
23	.1540	1	2-1/16	4003023	
24	.1520	1	2-1/16	4003024	
25	.1495	1	2-1/16	4003025	
26	.1470	1	2-1/16	4003026	
27	.1440	1	2-1/16	4003027	
28	.1405	15/16	1-15/16	4003028	
29	.1360	15/16	1-15/16	4003029	
30	.1285	15/16	1-15/16	4003030	
31	.1200	7/8	1-7/8	4003031	
32	.1160	7/8	1-7/8	4003032	
33	.1130	7/8	1-7/8	4003033	
34	.1110	7/8	1-7/8	4003034	
35	.1100	7/8	1-7/8	4003035	
36	.1065	13/16	1-13/16	4003036	
37	.1040	13/16	1-13/16	4003037	
38	.1015	13/16	1-13/16	4003038	
39	.0995	13/16	1-13/16	4003039	
40	.0980	13/16	1-13/16	4003040	
41	.0960	13/16	1-13/16	4003041	
42	.0935	3/4	1-3/4	4003042	
43	.0890	3/4	1-3/4	4003043	
44	.0860	3/4	1-3/4	4003144	
45	.0820	3/4	1-3/4	4003045	
46	.0810	3/4	1-3/4	4003046	
47	.0785	3/4	1-3/4	4003047	
48	.0760	11/16	1-11/16	4003048	
49	.0730	11/16	1-11/16	4003049	
50	.0700	11/16	1-11/16	4003050	
51	.0670	11/16	1-11/16	4003051	
52	.0635	11/16	1-11/16	4003052	
53	.0595	1/2	1-1/2	4003053	
54	.0550	1/2	1-1/2	4003054	
55	.0520	1/2	1-1/2	4003055	
56	.0465	1/2	1-1/2	4003056	

**SOLID CARBIDE
STRAIGHT FLUTE DRILLS -
FRACTIONAL SIZES
SERIES 295:**



FOR: Hardened, Treated, and Abrasive Material e.g.,
Stainless Steel, Nickel Chrome Steel, and Cryogenic Alloys.

Size	Decimal Equivalent	Flute Lgth	Overall Lgth	Order No.	Price
3/64	.0469	1/2	1-1/2	4002259	
1/16	.0625	5/8	1-5/8	4002260	
5/64	.0781	11/16	1-11/16	4002261	
3/32	.0938	3/4	1-3/4	4002262	
7/64	.1094	13/16	1-13/16	4002263	
1/8	.1250	7/8	1-7/8	4002264	
9/64	.1406	15/16	1-15/16	4002265	
5/32	.1562	1	2-1/16	4002266	
11/64	.1719	1-1/16	2-1/8	4002267	
3/16	.1875	1-1/8	2-3/16	4002268	
13/64	.2031	1-3/16	2-1/4	4002269	
7/32	.2188	1-1/4	2-3/8	4002270	
15/64	.2344	1-5/16	2-7/16	4002271	
1/4	.2500	1-3/8	2-1/2	4002272	
17/64	.2656	1-7/16	2-5/8	4002273	
9/32	.2812	1-1/2	2-11/16	4002274	
19/64	.2969	1-9/16	2-3/4	4002275	
5/16	.3125	1-5/8	2-13/16	4002276	
21/64	.3281	1-11/16	2-15/16	4002277	
11/32	.3438	1-11/16	3	4002278	
23/64	.3594	1-3/4	3-1/16	4002279	
3/8	.3750	1-13/16	3-1/8	4002280	
25/64	.3906	1-7/8	3-1/4	4002281	
13/32	.4062	1-15/16	3-5/16	4002282	
27/64	.4219	2	3-3/8	4002283	
7/16	.4375	2-1/16	3-7/16	4002284	
29/64	.4531	2-1/8	3-9/16	4002285	
15/32	.4688	2-1/8	3-5/8	4002286	
31/64	.4844	2-3/16	3-11/16	4002287	
1/2	.5000	2-1/4	3-3/4	4002288	

**SOLID CARBIDE
STUB DRILLS - METRIC SIZES
SERIES 297:**



135° Point

Size	Decimal Equivalent	Flute Lgth	Overall Lgth	Order No.	Price
1.5	.0591	12.7	38.10	9811115	
2.0	.0787	19.05	44.45	9800020	
2.5	.0984	21	46	9811125	
3	.1181	22	48	9810030	
3.5	.1378	24	49	9810035	
4	.1575	27	54	9810040	
4.5	.1772	29	56	9810045	
5	.1968	30	57	9810050	
5.5	.2165	32	60	9810055	
6	.2362	33	62	9810060	
6.5	.2559	35	64	9810065	
7	.2756	38	68	9810070	
7.5	.2953	40	70	9810075	
8	.3150	41	71	9810080	
8.5	.3346	43	76	9810085	
9	.3543	44	78	9810090	
9.5	.3740	46	79	9810095	
10	.3937	48	83	9910100	
10.5	.4134	51	86	9810105	
11	.4331	52	87	9810110	
11.5	.4528	54	90	9810115	
12	.4724	54	92	9910120	

CUTTING TOOLS - DRILLS

**SOLID CARBIDE
STUB DRILLS - FRACTIONAL SIZES
SERIES 297:**



135° Point



Size	Decimal Equivalent	Flute Lgth	Overall Lgth	Order No.	Price
1/16	.0625	5/8	1-5/8	4003062	
5/64	.0781	11/16	1-11/16	4003063	
3/32	.0938	3/4	1-3/4	4003164	
7/64	.1094	13/16	1-13/16	4003263	
1/8	.1250	7/8	1-7/8	4003065	
9/64	.1406	15/16	1-15/16	4003112	
5/32	.1562	1	2-1/16	4003067	
11/64	.1719	1-1/16	2-1/8	4003113	
3/16	.1875	1-1/8	2-3/16	4003068	
13/64	.2031	1-3/16	2-1/4	4003114	
7/32	.2188	1-1/4	2-3/8	4003066	
15/64	.2344	1-5/16	2-7/16	4004071	
1/4	.2500	1-3/8	2-1/2	4003069	
17/64	.2656	1-7/16	2-5/8	4003116	
9/32	.2812	1-1/2	2-11/16	4003117	
19/64	.2969	1-9/16	2-3/4	4003118	
5/16	.3125	1-5/8	2-13/16	4003070	
21/64	.3281	1-11/16	2-15/16	4003119	
11/32	.3438	1-11/16	3	4003120	
23/64	.3594	1-3/4	3-1/16	4003121	
3/8	.3750	1-13/16	3-1/8	4003071	
25/64	.3906	1-7/8	3-1/4	4003122	
13/32	.4062	1-15/16	3-5/16	4003072	
27/64	.4219	2	3-3/8	4003124	
7/16	.4375	2-1/16	3-7/16	4003125	
29/64	.4531	2-1/8	3-9/16	4003126	
15/32	.4688	2-1/8	3-5/8	4003127	
31/64	.4844	2-3/16	3-11/16	4003128	
1/2	.5000	2-1/4	3-3/4	4003129	

**SOLID CARBIDE
STUB DRILLS - WIRE SIZES
SERIES 297:**



135° Point



Size	Decimal Equivalent	Flute Lgth	Overall Length	Order No.	Price
1	.2280	1-5/16	2-7/16	4003201	
2	.2210	1-5/16	2-7/16	4003202	
3	.2130	1-1/4	2-3/8	4003203	
4	.2090	1-1/4	2-3/8	4003204	
5	.2055	1-1/4	2-3/8	4003205	
6	.2040	1-1/4	2-3/8	4003206	
7	.2010	1-3/16	2-1/4	4003207	
8	.1990	1-3/16	2-1/4	4003208	
9	.1960	1-3/16	2-1/4	4003209	
10	.1935	1-3/16	2-1/4	4003210	
11	.1910	1-3/16	2-1/4	4003211	
12	.1890	1-3/16	2-1/4	4003212	
13	.1850	1-1/8	2-3/16	4003213	
14	.1820	1-1/8	2-3/16	4003214	
15	.1800	1-1/8	3-3/16	4003215	
16	.1770	1-1/8	2-3/16	4003216	
17	.1730	1-1/8	2-3/16	4003217	
18	.1695	1-1/16	2-1/8	4003218	
19	.1660	1-1/16	2-1/8	4003219	
20	.1610	1-1/16	2-1/8	4003220	
21	.1590	1-1/16	2-1/8	4003221	
22	.1570	1-1/16	2-1/8	4003222	
23	.1540	1	2-1/16	4003223	
24	.1520	1	2-1/16	4003224	
25	.1495	1	2-1/16	4003225	
26	.1470	1	2-1/16	4003226	
27	.1440	1	2-1/16	4003227	
28	.1405	15/16	1-15/16	4003228	
29	.1360	15/16	1-15/16	4003229	
30	.1285	15/16	1-15/16	4003230	
31	.1200	7/8	1-7/8	4003231	
32	.1160	7/8	1-7/8	4003232	
33	.1130	7/8	1-7/8	4003233	
34	.1110	7/8	1-7/8	4003234	
35	.1100	7/8	1-7/8	4003235	
36	.1065	13/16	1-13/16	4003236	
37	.1040	13/16	1-13/16	4003237	
38	.1015	13/16	1-13/16	4003238	
39	.0995	13/16	1-13/16	4003239	
40	.0980	13/16	1-13/16	4003240	
41	.0960	13/16	1-13/16	4003241	
42	.0935	3/4	1-3/4	4003242	
43	.0890	3/4	1-3/4	4003243	
44	.0860	3/4	1-3/4	4003244	
45	.0820	3/4	1-3/4	4003245	
46	.0810	3/4	1-3/4	4003246	
47	.0785	3/4	1-3/4	4003247	
48	.0760	11/16	1-11/16	4003248	
49	.0730	11/16	1-11/16	4003249	
50	.0700	11/16	1-11/16	4003250	
51	.0670	11/16	1-11/16	4003251	
52	.0635	11/16	1-11/16	4003252	
53	.0595	1/2	1-1/2	4003253	
54	.0550	1/2	1-1/2	4003254	
55	.0520	1/2	1-1/2	4003255	
56	.0465	1/2	1-1/2	4003256	

**SOLID CARBIDE
STUB DRILLS - LETTER SIZES**



SERIES 297:



135° Point

Size	Decimal Equivalent	Flute Lgth	Overall Lgth	Order No.	Price
A	.234	1-5/16	2-7/16	4004301	
B	.238	1-3/8	2-1/2	4004302	
C	.242	1-3/8	2-1/2	4004303	
D	.246	1-3/8	2-1/2	4004304	
E	.250	1-3/8	2-1/2	4004305	
F	.257	1-7/16	2-5/8	4004306	
G	.261	1-7/16	2-5/8	4004307	
H	.266	1-1/2	2-11/16	4004308	
I	.272	1-1/2	2-11/16	4004309	
J	.277	1-1/2	2-11/16	4004310	
K	.281	1-1/2	2-11/16	4004311	
L	.290	1-9/16	2-3/4	4004312	
M	.295	1-9/16	2-3/4	4004313	
N	.302	1-5/8	2-13/16	4004314	
O	.316	1-11/16	2-15/16	4004315	
P	.323	1-11/16	2-15/16	4004316	
Q	.332	1-11/16	3	4004317	
R	.339	1-11/16	3	4004318	
S	.348	1-3/4	3-1/16	4004319	
T	.358	1-3/4	3-1/16	9004320	
U	.368	1-13/16	3-1/8	9004321	
V	.377	1-7/8	3-1/4	9004322	
W	.386	1-7/8	3-1/4	4004323	
X	.397	1-15/16	3-5/16	4004324	
Y	.404	1-15/16	3-5/16	4004325	
Z	.413	2	3-3/8	4004326	

ALL DRILLS ON THIS PAGE FOR:
Work hardened and gummy material,
high temperature alloy steel,
e.g. Titanium, Cast Iron.

CUTTING TOOLS - DRILLS