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CUTTING TOOLS



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DECIMAL EQUIVALENT CHART



Fractional, Number, Wire, and Metric Sizes
Recommended Tap Drill Sizes for approximately 75% Thread

Drill Size				Decim. Equiv.	Tap Size	Drill Size				Decim. Equiv.	Tap Size	Drill Size				Decim. Equiv.	Tap Size	Drill Size				Decim. Equiv.	Tap Size
Inch	Wire	mm	Inch			Wire	mm	Inch	Wire & Letter			mm	Inch	Letter	mm			Inch	Letter	mm	Inch		
1/64	97	.15	.0059	1/16	55	1.25	.0492	m1.6x0.35	5/32	25	.1495	#10-32	9/32	K	7.00	.2756	m8x1.0	5/16-32NS	9/16	13.50	.5315	m16x2.0 5/8-18NF m16x1.5 3/8-18NPT	
	96	.16	.0063			1.30	.0512			24	.1496				7.10	.2770	14.00			.5469			
	95	.17	.0067			1.35	.0531			23	.1520				7.20	.2795	14.50			.5512			
	94	.18	.0071			1.40	.0550	#1-64		22	.1535				7.25	.2810	15.00			.5625			
	93	.19	.0075			1.45	.0571	m1.8x0.35		21	.1540				7.30	.2812	15.50			.5709			
	92	.20	.0079			1.50	.0591			20	.1562				7.40	.2835	16.00			.5781			
	91	.21	.0083			1.55	.0591	#1-72		19	.1570				7.50	.2854	16.50			.5906			
	90	.22	.0087			1.60	.0595			18	.1575				7.60	.2874	17.00			.5938			
	89	.23	.0091			1.65	.0625	m2x0.4		17	.1590				7.70	.2900	17.50			.6094			
	88	.24	.0094			1.70	.0610			16	.1610				7.80	.2913	18.00			.6102			
	87	.25	.0098			1.75	.0625			15	.1614				7.90	.2950	18.50			.6250			
	86	.26	.0102			1.80	.0630	m2x0.4		14	.1654				8.00	.2953	19.00			.6299			
	85	.27	.0106			1.85	.0635			13	.1660				8.10	.2969	19.50			.6406			
	84	.28	.0110			1.90	.0650			12	.1673				8.25	.2992	20.00			.6496			
	83	.29	.0114			1.95	.0669	#2-56		11	.1693				8.30	.3020	20.50			.6562			
	82	.30	.0118			2.00	.0670	m2.2x0.45		10	.1695				8.40	.3031	21.00			.6693			
	81	.31	.0120			2.05	.0689	#2-64		9	.1719				8.50	.3051	21.50			.6719			
	80	.32	.0126			2.10	.0700			8	.1730				8.60	.3071	22.00			.6875			
	79	.33	.0134			2.15	.0709	m2.3x0.4		7	.1770				8.70	.3110	22.50			.6890			
	78	.34	.0135			2.20	.0728	#3-48		6	.1772				8.80	.3125	23.00			.7031			
	77	.35	.0138			2.25	.0730			5	.1785				8.90	.3150	23.50			.7087			
	76	.36	.0142			2.30	.0748	m2.5x0.45		4	.1800				9.00	.3160	24.00			.7188			
	75	.37	.0145			2.35	.0760	#3-56		3	.1811				9.10	.3189	24.50			.7283			
74	.38	.0150	2.40	.0768		2	.1820	9.20	.3189	25.00	.7344												
73	.39	.0156	2.45	.0781	m2.6x0.45	1	.1850	9.30	.3228	25.50	.7480												
72	.40	.0157	2.50	.0785	#4-40	1/2	.1875	9.40	.3230	26.00	.7500												
71	.41	.0160	2.55	.0787		1/4	.1875	9.50	.3248	26.50	.7656												
70	.42	.0165	2.60	.0807		1/4	.1890	9.60	.3268	27.00	.7677												
69	.43	.0177	2.65	.0810	#3-64	3/8	.1910	9.70	.3281	27.50	.7812												
68	.44	.0180	2.70	.0827		1/8	.1929	9.80	.3307	28.00	.7874												
67	.45	.0181	2.75	.0827	m2.8x0.45	3/16	.1935	9.90	.3320	28.50	.7969												
66	.46	.0189	2.80	.0846	#4-40	1/8	.1960	10.00	.3346	29.00	.8071												
65	.47	.0197	2.85	.0860		1/8	.1969	10.10	.3386	29.50	.8125												
64	.48	.0199	2.90	.0866		1/8	.1990	10.20	.3390	30.00	.8268												
63	.49	.0200	2.95	.0886		1/8	.1990	10.30	.3425	30.50	.8281												
62	.50	.0202	3.00	.0886	#4-48	1/8	.2008	10.40	.3438	31.00	.8438												
61	.51	.0217	3.05	.0890		1/8	.2010	10.50	.3445	31.50	.8465												
60	.52	.0225	3.10	.0906		1/8	.2031	10.60	.3465	32.00	.8594												
59	.53	.0225	3.15	.0925		1/8	.2040	10.70	.3480	32.50	.8661												
58	.54	.0236	3.20	.0935	#5-40	1/8	.2047	10.80	.3504	33.00	.8750												
57	.55	.0240	3.25	.0938	m3x0.5	1/8	.2055	10.90	.3543	33.50	.8858												
56	.56	.0250	3.30	.0945		1/8	.2067	11.00	.3583	34.00	.8906												
55	.57	.0256	3.35	.0960	#5-44	1/8	.2077	11.10	.3594	34.50	.9055												
54	.58	.0260	3.40	.0965		1/8	.2090	11.20	.3622	35.00	.9062												
53	.59	.0276	3.45	.0980	m3.5x0.6	1/8	.2126	11.30	.3642	35.50	.9219												
52	.60	.0280	3.50	.0984		1/8	.2130	11.40	.3661	36.00	.9252												
51	.61	.0280	3.55	.0995		1/8	.2165	11.50	.3680	36.50	.9375												
50	.62	.0295	3.60	.1015	#6-32	1/8	.2188	11.60	.3686	37.00	.9449												
49	.63	.0310	3.65	.1024		1/8	.2205	11.70	.3701	37.50	.9531												
48	.64	.0312	3.70	.1040		1/8	.2210	11.80	.3740	38.00	.9646												
47	.65	.0315	3.75	.1063	#6-40	1/8	.2244	11.90	.3750	38.50	.9688												
46	.66	.0320	3.80	.1065		1/8	.2264	12.00	.3770	39.00	.9843												
45	.67	.0326	3.85	.1083		1/8	.2280	12.10	.3780	39.50	.9844												
44	.68	.0329	3.90	.1083		1/8	.2283	12.20	.3819	40.00	.9844												
43	.69	.0330	3.95	.1094		1/8	.2323	12.30	.3839	40.50	.9844												
42	.70	.0331	4.00	.1100		1/8	.2340	12.40	.3858	41.00	.9844												
41	.71	.0335	4.05	.1110	#6-40	1/8	.2344	12.50	.3860	41.50	.9844												
40	.72	.0335	4.10	.1110		1/8	.2362	12.60	.3898	42.00	.9844												
39	.73	.0335	4.15	.1130		1/8	.2380	12.70	.3906	42.50	.9844												
38	.74	.0335	4.20	.1142	m3.5x0.6	1/8	.2402	12.80	.3937	43.00	.9844												
37	.75	.0350	4.25	.1160		1/8	.2420	12.90	.3970	43.50	.9844												
36	.76	.0354	4.30	.1181		1/8	.2441	13.00	.4040	44.00	.9844												
35	.77	.0360	4.35	.1200		1/8	.2460	13.10	.4062	44.50	.9844												
34	.78	.0370	4.40	.1220	5/32-32NS	1/8	.2461	13.20	.4130	45.00	.9844												
33	.79	.0374	4.45	.1250		1/8	.2480	13.30	.4134	45.50	.9844												
32	.80	.0380	4.50	.1260		1/8	.2500	13.40	.4219	46.00	.9844												
31	.81	.0390	4.55	.1280	5/32-36NS	1/8	.2520	13.50	.4331	46.50	.9844												
30	.82	.0394	4.60	.1280	m4x0.7	1/8	.2559	13.60	.4375	47.00	.9844												
29	.83	.0400	4.65	.1339		1/8	.2570	13.70	.4528	47.50	.9844												
28	.84	.0410	4.70	.1360	#8-32	1/8	.2598	13.80	.4531	48.00	.9844												
27	.85	.0413	4.75	.1378		1/8	.2610	13.90	.4688	48.50	.9844												
26	.86	.0420	4.80	.1405		1/8	.2638	14.00	.4724	49.00	.9844												
25	.87	.0430	4.85	.1406		1/8	.2656	14.10	.4844	49.50	.9844												
24	.88	.0433	4.90	.1417		1/8	.2657	14.20	.4921	50.00	.9844												
23	.89	.0453	4.95	.1440		1/8	.2677	14.30	.5000	50.50	.9844												
22	.90	.0465	5.00	.1457		1/8	.2717	14.40	.5118	51.00	.9844												
21	.91	.0469	5.05	.1470	#10-24	1/8	.2720	14.50	.5156	51.50	.9844												
20	.92	.0472	5.10	.1476	m4.5x0.75	1/8	.2720	14.60	.5312	52.00	.9844												

DRILLS



CutTek
CUTTING TOOLS



PowerTek
MASONRY BITS

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JOBBER LENGTH DRILLS

General Purpose, 118° Point



DRILLS

General Purpose Drills suitable for most applications.

All drills are ground from the solid.

Oxide Finish Provides high resistance to abrasion. Also, helps to reduce the tendency of soft materials to load on the drill.



Bright Finish Works well in a wide variety of materials. Polished flutes help with chip evacuation.



TiN Coated Offers outstanding wear resistance, reduces friction and prevents galling. Increased lubricity and chip flow provide better surface finish and reduced torque.



Series J100 - Fractional Sizes USA Series TAC40 - Fractional Sizes Import

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each			
					Oxide Finish	Bright Finish	TiN Coated	Import Oxide Finish
1/64	.0156	3/16	3/4	12	2.32	2.32	4.54	—
1/32	.0312	1/2	1-3/8	12	1.60	1.60	4.54	—
3/64	.0469	3/4	1-3/4	12	1.50	1.50	4.54	—
1/16	.0625	7/8	1-7/8	12	1.36	1.36	4.54	0.92
5/64	.0781	1	2	12	1.40	1.40	4.54	0.96
3/32	.0938	1-1/4	2-1/4	12	1.21	1.21	4.54	0.82
7/64	.1094	1-1/2	2-5/8	12	1.30	1.30	4.64	0.88
1/8	.1250	1-5/8	2-3/4	12	1.46	1.46	4.64	0.98
9/64	.1406	1-3/4	2-7/8	12	1.50	1.50	5.27	1.01
5/32	.1562	2	3-1/8	12	1.74	1.74	5.41	1.18
11/64	.1719	2-1/8	3-1/4	12	1.98	1.98	5.41	1.34
3/16	.1875	2-5/16	3-1/2	12	2.18	2.18	6.04	1.47
13/64	.2031	2-7/16	3-5/8	12	2.42	2.42	8.22	1.64
7/32	.2188	2-1/2	3-3/4	12	2.71	2.71	8.56	1.83
15/64	.2344	2-5/8	3-7/8	12	3.00	3.00	8.84	2.03
1/4	.2500	2-3/4	4	12	3.00	3.00	9.13	2.03
17/64	.2656	2-7/8	4-1/8	12	3.72	3.72	14.02	2.51
9/32	.2812	2-15/16	4-1/4	6	4.20	4.20	14.46	2.84
19/64	.2969	3-1/16	4-3/8	6	4.79	4.79	15.03	3.23
5/16	.3125	3-3/16	4-1/2	6	4.93	4.93	15.28	3.33
21/64	.3281	3-5/16	4-5/8	6	5.47	5.47	19.43	3.69
11/32	.3438	3-7/16	4-3/4	6	6.09	6.09	20.44	4.11
23/64	.3594	3-1/2	4-7/8	6	6.87	6.87	20.40	4.64
3/8	.3750	3-5/8	5	6	6.87	6.87	21.94	4.64
25/64	.3906	3-3/4	5-1/8	6	8.02	8.02	24.46	5.42
13/32	.4062	3-7/8	5-1/4	6	8.22	8.22	25.47	5.56
27/64	.4219	3-15/16	5-3/8	6	9.23	9.23	26.24	6.23
7/16	.4375	4-1/16	5-1/2	6	9.52	9.52	27.40	6.43
29/64	.4531	4-3/16	5-5/8	6	10.73	10.73	30.36	7.26

JOBBER LENGTH DRILLS

General Purpose, 118° Point



Series J100 - Fractional Sizes USA (Cont'd)

Series TAC40 - Fractional Sizes Import (Cont'd)

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each			
					Oxide Finish	Bright Finish	TiN Coated	Import Oxide Finish
15/32	.4688	4-5/16	5-3/4	6	11.31	11.31	31.71	7.64
31/64	.4844	4-3/8	5-7/8	6	12.71	12.71	32.58	8.59
1/2	.5000	4-1/2	6	6	12.76	12.76	33.44	8.61
33/64	.5156	4-13/16	6-5/8	1	24.10	24.10	52.94	—
17/32	.5312	4-13/16	6-5/8	1	24.81	24.81	54.56	—
35/64	.5469	4-13/16	6-5/8	1	27.36	27.36	60.22	—
9/16	.5625	4-13/16	6-5/8	1	28.09	28.09	61.80	—
37/64	.5781	4-13/16	6-5/8	1	28.73	28.73	63.22	—
19/32	.5938	5-3/16	7-1/8	1	29.50	29.50	65.00	—
39/64	.6094	5-3/16	7-1/8	1	31.60	31.60	69.52	—
5/8	.6250	5-3/16	7-1/8	1	31.02	31.02	68.22	—
41/64	.6406	5-3/16	7-1/8	1	33.86	33.86	70.00	—
21/32	.6562	5-3/16	7-1/8	1	35.49	35.49	76.67	—
43/64	.6719	5-5/8	7-5/8	1	38.37	38.37	80.00	—
11/16	.6875	5-5/8	7-5/8	1	38.37	38.37	80.00	—
23/32	.7188	5-5/8	7-5/8	1	47.56	47.56	87.78	—
3/4	.7500	5-5/8	7-5/8	1	50.41	50.41	94.44	—

Series J102 - Letter Sizes USA

Series TAC40 - Letter Sizes Import

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each			
					Oxide Finish	Bright Finish	TiN Coated	Import Oxide Finish
A	.2340	2-5/8	3-7/8	12	3.68	3.68	8.67	2.12
B	.2380	2-3/4	4	12	3.77	3.77	8.67	2.12
C	.2420	2-3/4	4	12	3.53	3.53	8.67	2.12
D	.2460	2-3/4	4	12	3.53	3.53	8.67	2.12
E	.2500	2-3/4	4	12	3.77	3.77	8.10	1.97
F	.2570	2-7/8	4-1/8	12	4.36	4.36	12.67	2.28
G	.2610	2-7/8	4-1/8	12	4.64	4.64	12.67	2.56
H	.2660	2-7/8	4-1/8	12	4.64	4.64	12.67	2.56
I	.2720	2-7/8	4-1/8	6	4.83	4.83	12.67	2.56
J	.2770	2-7/8	4-1/8	6	5.27	5.27	12.67	2.71
K	.2810	2-15/16	4-1/4	6	5.27	5.27	12.67	3.01
L	.2900	2-15/16	4-1/4	6	5.99	5.99	12.67	3.01
M	.2950	3-1/16	4-3/8	6	5.99	5.99	13.24	3.17
N	.3020	3-1/16	4-3/8	6	6.33	6.33	13.80	3.17
O	.3160	3-3/16	4-1/2	6	6.33	6.33	13.80	3.21
P	.3230	3-5/16	4-5/8	6	6.96	6.96	15.56	3.63
Q	.3320	3-7/16	4-3/4	6	7.06	7.06	15.56	3.63
R	.3390	3-7/16	4-3/4	6	7.34	7.34	15.56	3.90
S	.3480	3-1/2	4-7/8	6	8.12	8.12	15.56	4.10
T	.3580	3-1/2	4-7/8	6	8.46	8.46	20.11	4.45
U	.3680	3-5/8	5	6	8.51	8.51	20.11	4.68
V	.3770	3-5/8	5	6	8.80	8.80	23.17	4.80
W	.3860	3-3/4	5-1/8	6	9.38	9.38	24.28	4.94
X	.3970	3-3/4	5-1/8	6	9.48	9.48	24.50	6.03
Y	.4040	3-7/8	5-1/4	6	11.60	11.60	25.00	7.19
Z	.4130	3-7/8	5-1/4	6	12.81	12.81	26.33	6.77

JOBBER LENGTH DRILLS

General Purpose, 118° Point



DRILLS

Series J104 - Wire Gauge Sizes USA Series TAC40 - Wire Gauge Sizes Import

Size	Decimal Equiv.	Flute Length	OAL	Price Each			
				Oxide Finish	Bright Finish	TiN Coated	Import Oxide Finish
1	.2280	2-5/8	3-7/8	3.29	3.29	9.91	2.47
2	.2210	2-5/8	3-7/8	3.29	3.29	9.91	2.47
3	.2130	2-1/2	3-3/4	3.09	3.09	9.91	2.32
4	.2090	2-1/2	3-3/4	3.09	3.09	9.91	2.32
5	.2055	2-1/2	3-3/4	3.09	3.09	9.91	2.32
6	.2040	2-1/2	3-3/4	3.09	3.09	9.91	2.32
7	.2010	2-7/16	3-5/8	2.80	2.80	8.94	2.10
8	.1990	2-7/16	3-5/8	2.80	2.80	8.94	2.10
9	.1960	2-7/16	3-5/8	2.80	2.80	8.94	2.10
10	.1935	2-7/16	3-5/8	2.80	2.80	8.94	2.10
11	.1910	2-5/16	3-1/2	2.61	2.61	8.56	1.96
12	.1890	2-5/16	3-1/2	2.61	2.61	8.56	1.96
13	.1850	2-5/16	3-1/2	2.51	2.51	8.51	1.89
14	.1820	2-3/16	3-3/8	2.42	2.42	8.51	1.82
15	.1800	2-3/16	3-3/8	2.42	2.42	8.51	1.82
16	.1770	2-3/16	3-3/8	2.42	2.42	8.51	1.82
17	.1730	2-3/16	3-3/8	2.42	2.42	8.51	1.82
18	.1695	2-1/8	3-1/4	2.22	2.22	7.83	1.67
19	.1660	2-1/8	3-1/4	2.22	2.22	7.83	1.67
20	.1610	2-1/8	3-1/4	2.22	2.22	7.83	1.67
21	.1590	2-1/8	3-1/4	2.08	2.08	7.59	1.56
22	.1570	2	3-1/8	2.08	2.08	7.59	1.56
23	.1540	2	3-1/8	2.03	2.03	7.54	1.52
24	.1520	2	3-1/8	2.03	2.03	7.54	1.52
25	.1495	1-7/8	3	1.74	1.74	7.54	1.31
26	.1470	1-7/8	3	1.74	1.74	7.44	1.31
27	.1440	1-7/8	3	1.74	1.74	7.44	1.31
28	.1405	1-3/4	2-7/8	1.64	1.64	7.26	1.23
29	.1360	1-3/4	2-7/8	1.64	1.64	7.26	1.23
30	.1285	1-5/8	2-3/4	1.60	1.60	4.83	1.20
31	.1200	1-5/8	2-3/4	1.46	1.46	4.83	1.09
32	.1160	1-5/8	2-3/4	1.46	1.46	4.83	1.09
33	.1130	1-1/2	2-5/8	1.46	1.46	4.83	1.09
34	.1110	1-1/2	2-5/8	1.46	1.46	4.83	1.09
35	.1100	1-1/2	2-5/8	1.46	1.46	4.83	1.09
36	.1065	1-7/16	2-1/2	1.46	1.46	4.83	1.09
37	.1040	1-7/16	2-1/2	1.46	1.46	4.83	1.09
38	.1015	1-7/16	2-1/2	1.46	1.46	4.83	1.09
39	.0995	1-3/8	2-3/8	1.46	1.46	4.83	1.09
40	.0980	1-3/8	2-3/8	1.46	1.46	4.83	1.09
41	.0960	1-3/8	2-3/8	1.46	1.46	5.61	—
42	.0935	1-1/4	2-1/4	1.46	1.46	5.61	—
43	.0890	1-1/4	2-1/4	1.46	1.46	5.61	—
44	.0860	1-1/8	2-1/8	1.46	1.46	5.61	—
45	.0820	1-1/8	2-1/8	1.54	1.54	5.61	—
46	.0810	1-1/8	2-1/8	1.54	1.54	5.61	—
47	.0785	1	2	1.54	1.54	5.61	—
48	.0760	1	2	1.54	1.54	5.61	—
49	.0730	1	2	1.54	1.54	5.61	—

JOBBER LENGTH DRILLS

General Purpose, 118° Point



DRILLS

Series J104 - Wire Gauge Sizes USA (Cont'd)

Series TAC40 - Wire Gauge Sizes Import (Cont'd)

Size	Decimal Equiv.	Flute Length	OAL	Price Each			
				Oxide Finish	Bright Finish	TiN Coated	Import Oxide Finish
50	.0700	1	2	1.54	1.54	5.61	—
51	.0670	1	2	1.54	1.54	5.61	—
52	.0635	7/8	1-7/8	1.54	1.54	5.61	—
53	.0595	7/8	1-7/8	1.54	1.54	5.61	—
54	.0550	7/8	1-7/8	1.54	1.54	5.61	—
55	.0520	7/8	1-7/8	1.54	1.54	5.61	—
56	.0465	3/4	1-3/4	1.54	1.54	5.61	—
57	.0430	3/4	1-3/4	1.79	1.79	5.61	—
58	.0420	11/16	1-5/8	1.79	1.79	5.61	—
59	.0410	11/16	1-5/8	1.79	1.79	5.61	—
60	.0400	11/16	1-5/8	1.79	1.79	5.61	—
61	.0390	11/16	1-5/8	1.79	1.79	—	—
62	.0380	5/8	1-1/2	1.79	1.79	—	—
63	.0370	5/8	1-1/2	1.79	1.79	—	—
64	.0360	5/8	1-1/2	1.79	1.79	—	—
65	.0350	5/8	1-1/2	1.79	1.79	—	—
66	.0330	1/2	1-3/8	1.79	1.79	—	—
67	.0320	1/2	1-3/8	1.79	1.79	—	—
68	.0310	1/2	1-3/8	1.79	1.79	—	—
69	.0292	1/2	1-3/8	2.18	2.18	—	—
70	.0280	3/8	1-1/4	2.18	2.18	—	—
71	.0260	3/8	1-1/4	2.18	2.18	—	—
72	.0250	5/16	1-1/8	2.18	2.18	—	—
73	.0240	5/16	1-1/8	2.18	2.18	—	—
74	.0225	1/4	1	2.18	2.18	—	—
75	.0210	1/4	1	2.42	2.42	—	—
76	.0200	3/16	7/8	2.42	2.42	—	—
77	.0180	3/16	7/8	2.42	2.62	—	—
78	.0160	3/16	7/8	2.42	2.62	—	—
79	.0145	1/8	3/4	2.42	3.14	—	—
80	.0135	1/8	3/4	2.42	3.14	—	—
81	.0130	3/32	3/4	—	6.38	—	—
82	.0125	3/32	3/4	—	6.38	—	—
83	.0120	3/32	3/4	—	7.34	—	—
84	.0115	3/32	3/4	—	7.34	—	—
85	.0110	5/64	3/4	—	7.34	—	—
86	.0105	5/64	3/4	—	8.13	—	—
87	.0100	5/64	3/4	—	8.13	—	—
88	.0095	5/64	3/4	—	10.31	—	—
89	.0091	1/16	3/4	—	10.31	—	—
90	.0087	1/16	3/4	—	10.31	—	—
91	.0083	1/16	3/4	—	10.31	—	—
92	.0079	1/16	3/4	—	10.31	—	—
93	.0075	1/16	3/4	—	10.31	—	—
94	.0071	1/16	3/4	—	14.84	—	—
95	.0067	1/16	3/4	—	14.84	—	—
96	.0063	3/64	3/4	—	16.34	—	—
97	.0059	3/64	3/4	—	16.34	—	—

JOBBER LENGTH DRILLS

Aircraft, 135° Split Point



DRILLS

High Speed Steel - Black Oxide



Series H200 - Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
3/64	.0469	3/4	1-3/4	12	1.91
1/16	.0625	7/8	1-7/8	12	1.60
5/64	.0781	1	2	12	1.69
3/32	.0938	1-1/4	2-1/4	12	1.46
7/64	.1094	1-1/2	2-5/8	12	1.54
1/8	.1250	1-5/8	2-3/4	12	1.69
9/64	.1406	1-3/4	2-7/8	12	1.89
5/32	.1562	2	3-1/8	12	2.27
11/64	.1719	2-1/8	3-1/4	12	2.47
3/16	.1875	2-5/16	3-1/2	12	2.66
13/64	.2031	2-7/16	3-5/8	12	3.04
7/32	.2188	2-1/2	3-3/4	12	3.23
15/64	.2344	2-5/8	3-7/8	12	3.58
1/4	.2500	2-3/4	4	12	3.58
17/64	.2656	2-7/8	4-1/8	12	4.93
9/32	.2812	2-15/16	4-1/4	6	5.37
19/64	.2969	3-1/16	4-3/8	6	5.94
5/16	.3125	3-3/16	4-1/2	6	6.13
21/64	.3281	3-5/16	4-5/8	6	6.81
11/32	.3438	3-7/16	4-3/4	6	7.88
23/64	.3594	3-1/2	4-7/8	6	8.46
3/8	.3750	3-5/8	5	6	8.46
25/64	.3906	3-3/4	5-1/8	6	9.96
13/32	.4062	3-7/8	5-1/4	6	10.49
27/64	.4219	3-15/16	5-3/8	6	11.60
7/16	.4375	4-1/16	5-1/2	6	12.47
29/64	.4531	4-3/16	5-5/8	6	13.53
15/32	.4688	4-5/16	5-3/4	6	14.60
31/64	.4844	4-3/8	5-7/8	6	15.22
1/2	.5000	4-1/2	6	6	14.83

Series H202 - Letter Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
A	.2340	2-5/8	3-7/8	12	4.62
B	.2380	2-3/4	4	12	4.62
C	.2420	2-3/4	4	12	4.62
D	.2460	2-3/4	4	12	4.62
E	.2500	2-3/4	4	12	3.91
F	.2570	2-7/8	4-1/8	12	4.72
G	.2610	2-7/8	4-1/8	12	5.34
H	.2660	2-7/8	4-1/8	12	5.59
I	.2720	2-7/8	4-1/8	6	5.59
J	.2770	2-7/8	4-1/8	6	5.77
K	.2810	2-15/16	4-1/4	6	6.30
L	.2900	2-15/16	4-1/4	6	7.41
M	.2950	3-1/16	4-3/8	6	7.10
N	.3020	3-1/16	4-3/8	6	6.92
O	.3160	3-3/16	4-1/2	6	7.07
P	.3230	3-5/16	4-5/8	6	7.77
Q	.3320	3-7/16	4-3/4	6	7.92
R	.3390	3-7/16	4-3/4	6	8.29
S	.3480	3-1/2	4-7/8	6	8.94
T	.3580	3-1/2	4-7/8	6	9.82
U	.3680	3-5/8	5	6	9.82
V	.3770	3-5/8	5	6	10.26
W	.3860	3-3/4	5-1/8	6	10.68
X	.3970	3-3/4	5-1/8	6	12.82
Y	.4040	3-7/8	5-1/4	6	14.98
Z	.4130	3-7/8	5-1/4	6	15.32

We also offer special sizes and cutting tool alteration services.



JOBBER LENGTH DRILLS

Aircraft, 135° Split Point



High Speed Steel - Black Oxide



Series H204 - Wire Gauge Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
1	.2280	2-5/8	3-7/8	12	3.99
2	.2210	2-5/8	3-7/8	12	3.99
3	.2130	2-1/2	3-3/4	12	3.60
4	.2090	2-1/2	3-3/4	12	3.68
5	.2055	2-1/2	3-3/4	12	3.60
6	.2040	2-1/2	3-3/4	12	3.60
7	.2010	2-7/16	3-5/8	12	3.22
8	.1990	2-7/16	3-5/8	12	3.22
9	.1960	2-7/16	3-5/8	12	3.22
10	.1935	2-7/16	3-5/8	12	3.22
11	.1910	2-5/16	3-1/2	12	3.01
12	.1890	2-5/16	3-1/2	12	3.01
13	.1850	2-5/16	3-1/2	12	2.94
14	.1820	2-3/16	3-3/8	12	2.94
15	.1800	2-3/16	3-3/8	12	2.96
16	.1770	2-3/16	3-3/8	12	2.94
17	.1730	2-3/16	3-3/8	12	2.96
18	.1695	2-1/8	3-1/4	12	2.42
19	.1660	2-1/8	3-1/4	12	2.39
20	.1610	2-1/8	3-1/4	12	2.39
21	.1590	2-1/8	3-1/4	12	2.24
22	.1570	2	3-1/8	12	2.28
23	.1540	2	3-1/8	12	2.24
24	.1520	2	3-1/8	12	2.24
25	.1495	1-7/8	3	12	2.21
26	.1470	1-7/8	3	12	2.21
27	.1440	1-7/8	3	12	2.20
28	.1405	1-3/4	2-7/8	12	1.98
29	.1360	1-3/4	2-7/8	12	1.98
30	.1285	1-5/8	2-3/4	12	1.94
31	.1200	1-5/8	2-3/4	12	1.98
32	.1160	1-5/8	2-3/4	12	1.98
33	.1130	1-1/2	2-5/8	12	1.98
34	.1110	1-1/2	2-5/8	12	1.98
35	.1100	1-1/2	2-5/8	12	1.98
36	.1065	1-7/16	2-1/2	12	1.98
37	.1040	1-7/16	2-1/2	12	1.98
38	.1015	1-7/16	2-1/2	12	1.98
39	.0995	1-3/8	2-3/8	12	1.98
40	.0980	1-3/8	2-3/8	12	1.94
41	.0960	1-3/8	2-3/8	12	1.98
42	.0935	1-1/4	2-1/4	12	1.98
43	.0890	1-1/4	2-1/4	12	1.98
44	.0860	1-1/8	2-1/8	12	1.98
45	.0820	1-1/8	2-1/8	12	1.98
46	.0810	1-1/8	2-1/8	12	1.98
47	.0785	1	2	12	1.98
48	.0760	1	2	12	1.98
49	.0730	1	2	12	1.98
50	.0700	1	2	12	1.98
51	.0670	1	2	12	1.98
52	.0635	7/8	1-7/8	12	1.98
53	.0595	7/8	1-7/8	12	2.16
54	.0550	7/8	1-7/8	12	2.16
55	.0520	7/8	1-7/8	12	2.16
56	.0465	3/4	1-3/4	12	2.16
57	.0430	3/4	1-3/4	12	2.16
58	.0420	11/16	1-5/8	12	2.16
59	.0410	11/16	1-5/8	12	2.16
60	.0400	11/16	1-5/8	12	2.16

DRILLS



JOBBER LENGTH DRILLS

Cobalt Heavy Duty, 135° Split Point



DRILLS



Series C300 - Fractional Sizes USA Series S300 - Fractional Sizes Import

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	Import Price Each
1/64	.0156	3/16	3/4	12	4.66	—
1/32	.0312	1/2	1-3/8	12	4.03	—
3/64	.0469	3/4	1-3/4	12	3.62	—
1/16	.0625	7/8	1-7/8	12	2.47	2.02
5/64	.0781	1	2	12	2.47	2.02
3/32	.0938	1-1/4	2-1/4	12	2.47	2.02
7/64	.1094	1-1/2	2-5/8	12	2.57	2.17
1/8	.1250	1-5/8	2-3/4	12	3.14	2.64
9/64	.1406	1-3/4	2-7/8	12	3.87	2.64
5/32	.1562	2	3-1/8	12	4.26	2.97
11/64	.1719	2-1/8	3-1/4	12	4.69	3.11
3/16	.1875	2-5/16	3-1/2	12	5.41	3.49
13/64	.2031	2-7/16	3-5/8	12	6.19	4.19
7/32	.2188	2-1/2	3-3/4	12	6.58	4.62
15/64	.2344	2-5/8	3-7/8	12	6.58	4.90
1/4	.2500	2-3/4	4	12	6.77	5.23
17/64	.2656	2-7/8	4-1/8	12	8.66	5.89
9/32	.2812	2-15/16	4-1/4	6	9.62	6.22
19/64	.2969	3-1/16	4-3/8	6	10.24	7.54
5/16	.3125	3-3/16	4-1/2	6	10.82	8.06
21/64	.3281	3-5/16	4-5/8	6	12.28	8.91
11/32	.3438	3-7/16	4-3/4	6	13.10	9.76
23/64	.3594	3-1/2	4-7/8	6	15.47	11.21
3/8	.3750	3-5/8	5	6	15.08	11.21
25/64	.3906	3-3/4	5-1/8	6	17.54	12.72
13/32	.4062	3-7/8	5-1/4	6	18.66	13.29
27/64	.4219	3-15/16	5-3/8	6	20.11	14.70
7/16	.4375	4-1/16	5-1/2	6	20.88	15.03
29/64	.4531	4-3/16	5-5/8	6	24.89	18.04
15/32	.4688	4-5/16	5-3/4	6	25.52	18.38
31/64	.4844	4-3/8	5-7/8	6	27.26	18.94
1/2	.5000	4-1/2	6	6	26.43	18.94
33/64	.5156	4-13/16	6-5/8	1	46.44	—
17/32	.5312	4-13/16	6-5/8	1	48.81	—
35/64	.5469	4-13/16	6-5/8	1	53.08	—
9/16	.5625	4-13/16	6-5/8	1	55.50	—
37/64	.5781	4-13/16	6-5/8	1	56.89	—
19/32	.5938	5-3/16	7-1/8	1	57.67	—
39/64	.6094	5-3/16	7-1/8	1	61.26	—
5/8	.6250	5-3/16	7-1/8	1	61.26	—
41/64	.6406	5-3/16	7-1/8	1	65.67	—
21/32	.6562	5-3/16	7-1/8	1	68.89	—
43/64	.6719	5-5/8	7-5/8	1	74.30	—
11/16	.6875	5-5/8	7-5/8	1	74.30	—

Series C302 - Letter Sizes USA

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
A	.2340	2-5/8	3-7/8	12	7.49
B	.2380	2-3/4	4	12	8.66
C	.2420	2-3/4	4	12	8.66
D	.2460	2-3/4	4	12	9.71
E	.2500	2-3/4	4	12	7.63
F	.2570	2-7/8	4-1/8	12	8.66
G	.2610	2-7/8	4-1/8	12	8.66
H	.2660	2-7/8	4-1/8	12	9.71
I	.2720	2-7/8	4-1/8	6	9.09
J	.2770	2-7/8	4-1/8	6	9.71
K	.2810	2-15/16	4-1/4	6	9.71
L	.2900	2-15/16	4-1/4	6	9.91
M	.2950	3-1/16	4-3/8	6	11.7
N	.3020	3-1/16	4-3/8	6	11.7
O	.3160	3-3/16	4-1/2	6	12.9
P	.3230	3-5/16	4-5/8	6	13.72
Q	.3320	3-7/16	4-3/4	6	14.26
R	.3390	3-7/16	4-3/4	6	14.26
S	.3480	3-1/2	4-7/8	6	17.44
T	.3580	3-1/2	4-7/8	6	17.44
U	.3680	3-5/8	5	6	19.97
V	.3770	3-5/8	5	6	19.97
W	.3860	3-3/4	5-1/8	6	19.97
X	.3970	3-3/4	5-1/8	6	19.97
Y	.4040	3-7/8	5-1/4	6	21.17
Z	.4130	3-7/8	5-1/4	6	23.01

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JOBBER LENGTH DRILLS

Cobalt Heavy Duty, 135° Split Point



CutTek
CUTTING TOOLS



Series C304 - Wire Gauge Sizes USA • Series S304 - Wire Gauge Sizes Import

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	Import Price Each
1	.2280	2-5/8	3-7/8	12	7.33	5.56
2	.2210	2-5/8	3-7/8	12	7.33	5.56
3	.2130	2-1/2	3-3/4	12	6.54	5.23
4	.2090	2-1/2	3-3/4	12	6.54	5.23
5	.2055	2-1/2	3-3/4	12	6.54	5.23
6	.2040	2-1/2	3-3/4	12	6.54	5.23
7	.2010	2-7/16	3-5/8	12	5.64	4.06
8	.1990	2-7/16	3-5/8	12	5.64	4.06
9	.1960	2-7/16	3-5/8	12	5.64	4.06
10	.1935	2-7/16	3-5/8	12	5.37	4.06
11	.1910	2-5/16	3-1/2	12	5.37	4.06
12	.1890	2-5/16	3-1/2	12	5.37	4.06
13	.1850	2-5/16	3-1/2	12	5.14	3.91
14	.1820	2-3/16	3-3/8	12	5.14	3.91
15	.1800	2-3/16	3-3/8	12	5.14	3.91
16	.1770	2-3/16	3-3/8	12	4.93	3.63
17	.1730	2-3/16	3-3/8	12	4.67	3.58
18	.1695	2-1/8	3-1/4	12	4.22	4.37
19	.1660	2-1/8	3-1/4	12	4.11	3.16
20	.1610	2-1/8	3-1/4	12	4.11	3.16
21	.1590	2-1/8	3-1/4	12	4.11	3.16
22	.1570	2	3-1/8	12	4.11	3.16
23	.1540	2	3-1/8	12	4.11	3.16
24	.1520	2	3-1/8	12	4.11	3.16
25	.1495	1-7/8	3	12	3.81	2.88
26	.1470	1-7/8	3	12	3.74	2.82
27	.1440	1-7/8	3	12	3.74	2.82
28	.1405	1-3/4	2-7/8	12	4.11	2.64
29	.1360	1-3/4	2-7/8	12	3.22	2.59
30	.1285	1-5/8	2-3/4	12	3.22	2.40
31	.1200	1-5/8	2-3/4	12	3.22	2.40
32	.1160	1-5/8	2-3/4	12	3.17	2.36
33	.1130	1-1/2	2-5/8	12	3.00	2.27
34	.1110	1-1/2	2-5/8	12	3.00	2.27
35	.1100	1-1/2	2-5/8	12	3.00	2.27
36	.1065	1-7/16	2-1/2	12	3.00	2.21
37	.1040	1-7/16	2-1/2	12	3.00	2.21
38	.1015	1-7/16	2-1/2	12	2.86	2.08
39	.0995	1-3/8	2-3/8	12	2.86	2.08
40	.0980	1-3/8	2-3/8	12	2.81	2.08

JOBBER LENGTH DRILLS

Cobalt Heavy Duty, 135° Split Point



CutTek
CUTTING TOOLS

DRILLS



Series C304 - Wire Gauge Sizes USA • Series S304 - Wire Gauge Sizes Import (Cont'd)

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	Import Price Each
41	.0960	1-3/8	2-3/8	12	2.81	2.02
42	.0935	1-1/4	2-1/4	12	2.78	2.02
43	.0890	1-1/4	2-1/4	12	2.78	2.02
44	.0860	1-1/8	2-1/8	12	2.78	2.02
45	.0820	1-1/8	2-1/8	12	2.78	2.02
46	.0810	1-1/8	2-1/8	12	2.78	2.02
47	.0785	1	2	12	2.78	2.02
48	.0760	1	2	12	2.78	2.02
49	.0730	1	2	12	2.78	2.02
50	.0700	1	2	12	2.78	2.02
51	.0670	1	2	12	2.78	2.02
52	.0635	7/8	1-7/8	12	2.78	2.02
53	.0595	7/8	1-7/8	12	2.92	2.27
54	.0550	7/8	1-7/8	12	2.92	2.27
55	.0520	7/8	1-7/8	12	2.92	2.27
56	.0465	3/4	1-3/4	12	3.21	2.54
57	.0430	3/4	1-3/4	12	3.21	2.54
58	.0420	11/16	1-5/8	12	3.21	2.54
59	.0410	11/16	1-5/8	12	3.21	2.54
60	.0400	11/16	1-5/8	12	3.21	2.54
61	.0390	11/16	1-5/8	12	3.69	—
62	.0380	5/8	1-1/2	12	3.69	—
63	.0370	5/8	1-1/2	12	3.69	—
64	.0360	5/8	1-1/2	12	3.69	—
65	.0350	5/8	1-1/2	12	3.69	—
66	.0330	1/2	1-3/8	12	3.92	—
67	.0320	1/2	1-3/8	12	3.92	—
68	.0310	1/2	1-3/8	12	4.08	—
69	.0292	1/2	1-3/8	12	4.41	—
70	.0280	3/8	1-1/4	12	4.41	—
71	.0260	3/8	1-1/4	12	4.41	—
72	.0250	5/16	1-1/8	12	4.41	—
73	.0240	5/16	1-1/8	12	4.41	—
74	.0225	1/4	1	12	4.41	—
75	.0210	1/4	1	12	4.87	—
76	.0200	3/16	7/8	12	4.87	—
77	.0180	3/16	7/8	12	4.87	—
78	.0160	3/16	7/8	12	4.87	—
79	.0145	1/8	3/4	12	4.87	—
80	.0135	1/8	3/4	12	4.91	—

JOBBER LENGTH DRILLS

TiN Coated, Heavy Duty



DRILLS



Series H200-TI - Fractional Sizes

Size	Flute Length	OAL	Price Each
1/16	7/8	1-7/8	6.94
5/64	1	2	6.94
3/32	1-1/4	2-1/4	6.94
7/64	1-1/2	2-5/8	7.41
1/8	1-5/8	2-3/4	7.56
9/64	1-3/4	2-7/8	8.62
5/32	2	3-1/8	9.65
11/64	2-1/8	3-1/4	10.02
3/16	2-5/16	3-1/2	10.64
13/64	2-7/16	3-5/8	12.94
7/32	2-1/2	3-3/4	13.83
15/64	2-5/8	3-7/8	14.77
1/4	2-3/4	4	15.04
17/64	2-7/8	4-1/8	21.85
9/32	2-15/16	4-1/4	21.65
19/64	3-1/16	4-3/8	24.12
5/16	3-3/16	4-1/2	24.81
21/64	3-5/16	4-5/8	26.86
11/32	3-7/16	4-3/4	28.27
23/64	3-1/2	4-7/8	30.81
3/8	3-5/8	5	30.49
25/64	3-3/4	5-1/8	40.12
13/32	3-7/8	5-1/4	40.44
27/64	3-15/16	5-3/8	43.58
7/16	4-1/16	5-1/2	43.78
29/64	4-3/16	5-5/8	47.75
15/32	4-5/16	5-3/4	48.72
31/64	4-3/8	5-7/8	51.11
1/2	4-1/2	6	50.47

Series H204-TI - Wire Gauge Sizes

Size	Flute Length	OAL	Price Each
1	2-5/8	3-7/8	14.32
2	2-5/8	3-7/8	14.32
3	2-1/2	3-3/4	13.80
4	2-1/2	3-3/4	13.98
5	2-1/2	3-3/4	13.98
6	2-1/2	3-3/4	13.14
7	2-7/16	3-5/8	13.14
8	2-7/16	3-5/8	13.14
9	2-7/16	3-5/8	13.14
10	2-7/16	3-5/8	13.14
11	2-5/16	3-1/2	12.64
12	2-5/16	3-1/2	12.64
13	2-5/16	3-1/2	12.52
14	2-3/16	3-3/8	12.52
15	2-3/16	3-3/8	12.49
16	2-3/16	3-3/8	12.52
17	2-3/16	3-3/8	12.52
18	2-1/8	3-1/4	11.33
19	2-1/8	3-1/4	11.23
20	2-1/8	3-1/4	11.23
21	2-1/8	3-1/4	10.74
22	2	3-1/8	10.81
23	2	3-1/8	10.74
24	2	3-1/8	10.74
25	1-7/8	3	9.85
26	1-7/8	3	9.85
27	1-7/8	3	9.83
28	1-3/4	2-7/8	9.33
29	1-3/4	2-7/8	9.33
30	1-5/8	2-3/4	9.33
31	1-5/8	2-3/4	9.33
32	1-5/8	2-3/4	9.33
33	1-1/2	2-5/8	9.33
34	1-1/2	2-5/8	9.33
35	1-1/2	2-5/8	9.33
36	1-7/16	2-1/2	9.33
37	1-7/16	2-1/2	9.33
38	1-7/16	2-1/2	9.33
39	1-3/8	2-3/8	9.33
40	1-3/8	2-3/8	9.33



Package Quantity Only

JOBBER LENGTH DRILLS

Black & Gold, Heavy Duty

High Speed Steel - 135° Split Point



Series D250 - Fractional Sizes

Size	Flute Length	OAL	Price Each	Import Price Each
1/16	7/8	1-7/8	2.17	1.45
5/64	1	2	2.17	1.45
3/32	1-1/4	2-1/4	2.17	1.45
7/64	1-1/2	2-5/8	2.17	1.45
1/8	1-5/8	2-3/4	2.42	1.84
9/64	1-3/4	2-7/8	2.42	1.84
5/32	2	3-1/8	2.90	1.93
11/64	2-1/8	3-1/4	3.14	1.93
3/16	2-5/16	3-1/2	3.48	2.17
13/64	2-7/16	3-5/8	3.62	2.42
7/32	2-1/2	3-3/4	4.11	2.66
15/64	2-5/8	3-7/8	4.59	2.80
1/4	2-3/4	4	4.83	3.14
17/64	2-7/8	4-1/8	6.04	3.62
9/32	2-15/16	4-1/4	6.67	5.07
19/64	3-1/16	4-3/8	7.49	5.56
5/16	3-3/16	4-1/2	7.97	5.80
21/64	3-5/16	4-5/8	8.94	5.99
11/32	3-7/16	4-3/4	8.94	6.28
23/64	3-1/2	4-7/8	10.10	6.52
3/8	3-5/8	5	10.53	6.76
25/64	3-3/4	5-1/8	11.35	7.97
13/32	3-7/8	5-1/4	12.32	8.45
27/64	3-15/16	5-3/8	13.04	9.18
7/16	4-1/16	5-1/2	14.25	9.42
29/64	4-3/16	5-5/8	14.98	10.87
15/32	4-5/16	5-3/4	16.43	11.11
31/64	4-3/8	5-7/8	17.39	13.29
1/2	4-1/2	6	18.12	13.77

See
cutting fluids
pg. 118



JOBBER LENGTH DRILLS

Fast Spiral



Bright Finish, 118° Point



DRILLS

Series FS100 - Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
1/64	.0156	3/16	3/4	12	3.89
1/32	.0312	1/2	1-3/8	12	3.99
3/64	.0469	3/4	1-3/4	12	3.99
1/16	.0625	7/8	1-7/8	12	3.48
5/64	.0781	1	2	12	3.48
3/32	.0938	1-1/4	2-1/4	12	3.48
7/64	.1094	1-1/2	2-5/8	12	3.48
1/8	.1250	1-5/8	2-3/4	12	3.48
9/64	.1406	1-3/4	2-7/8	12	3.48
5/32	.1562	2	3-1/8	12	3.77
11/64	.1719	2-1/8	3-1/4	12	4.40
3/16	.1875	2-5/16	3-1/2	12	5.17
13/64	.2031	2-7/16	3-5/8	12	5.61
7/32	.2188	2-1/2	3-3/4	12	6.33
15/64	.2344	2-5/8	3-7/8	12	6.72
1/4	.2500	2-3/4	4	12	6.96
17/64	.2656	2-7/8	4-1/8	12	8.66
9/32	.2812	2-15/16	4-1/4	6	9.23
19/64	.2969	3-1/16	4-3/8	6	10.00
5/16	.3125	3-3/16	4-1/2	6	11.17
21/64	.3281	3-5/16	4-5/8	6	11.93
11/32	.3438	3-7/16	4-3/4	6	13.53
23/64	.3594	3-1/2	4-7/8	6	15.76
3/8	.3750	3-5/8	5	6	16.58
25/64	.3906	3-3/4	5-1/8	6	18.32
13/32	.4062	3-7/8	5-1/4	6	19.04
27/64	.4219	3-15/16	5-3/8	6	21.31
7/16	.4375	4-1/16	5-1/2	6	22.33
29/64	.4531	4-3/16	5-5/8	6	22.96
15/32	.4688	4-5/16	5-3/4	6	24.46
31/64	.4844	4-3/8	5-7/8	6	25.91
1/2	.5000	4-1/2	6	6	25.91

Series FS102 - Letter Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
A	.2340	2-5/8	3-7/8	12	6.36
B	.2380	2-3/4	4	12	6.19
C	.2420	2-3/4	4	12	5.77
D	.2460	2-3/4	4	12	5.77
E	.2500	2-3/4	4	12	5.53
F	.2570	2-7/8	4-1/8	12	6.56
G	.2610	2-7/8	4-1/8	12	6.89
H	.2660	2-7/8	4-1/8	12	7.61
I	.2720	2-7/8	4-1/8	6	6.76
J	.2770	2-7/8	4-1/8	6	7.61
K	.2810	2-15/16	4-1/4	6	9.28
L	.2900	2-15/16	4-1/4	6	8.17
M	.2950	3-1/16	4-3/8	6	8.72
N	.3020	3-1/16	4-3/8	6	8.06
O	.3160	3-3/16	4-1/2	6	8.61
P	.3230	3-5/16	4-5/8	6	9.00
Q	.3320	3-7/16	4-3/4	6	9.00
R	.3390	3-7/16	4-3/4	6	9.28
S	.3480	3-1/2	4-7/8	6	10.00
T	.3580	3-1/2	4-7/8	6	11.50
U	.3680	3-5/8	5	6	11.50
V	.3770	3-5/8	5	6	12.06
W	.3860	3-3/4	5-1/8	6	12.33
X	.3970	3-3/4	5-1/8	6	13.89
Y	.4040	3-7/8	5-1/4	6	16.00
Z	.4130	3-7/8	5-1/4	6	16.61



JOBBER LENGTH DRILLS

Fast Spiral



DRILLS

Bright Finish, 118° Point



Series FS104 - Wire Gauge Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
1	.2280	2-5/8	3-7/8	12	7.06	41	.0960	1-3/8	2-3/8	12	4.44
2	.2210	2-5/8	3-7/8	12	7.06	42	.0935	1-1/4	2-1/4	12	4.44
3	.2130	2-1/2	3-3/4	12	6.67	43	.0890	1-1/4	2-1/4	12	4.44
4	.2090	2-1/2	3-3/4	12	6.67	44	.0860	1-1/8	2-1/8	12	4.44
5	.2055	2-1/2	3-3/4	12	6.67	45	.0820	1-1/8	2-1/8	12	4.44
6	.2040	2-1/2	3-3/4	12	6.67	46	.0810	1-1/8	2-1/8	12	4.44
7	.2010	2-7/16	3-5/8	12	6.67	47	.0785	1	2	12	4.44
8	.1990	2-7/16	3-5/8	12	5.61	48	.0760	1	2	12	4.44
9	.1960	2-7/16	3-5/8	12	5.61	49	.0730	1	2	12	4.44
10	.1935	2-7/16	3-5/8	12	5.61	50	.0700	1	2	12	4.44
11	.1910	2-5/16	3-1/2	12	5.47	51	.0670	1	2	12	4.44
12	.1890	2-5/16	3-1/2	12	5.47	52	.0635	7/8	1-7/8	12	4.44
13	.1850	2-5/16	3-1/2	12	5.12	53	.0595	7/8	1-7/8	12	4.44
14	.1820	2-3/16	3-3/8	12	5.12	54	.0550	7/8	1-7/8	12	4.44
15	.1800	2-3/16	3-3/8	12	5.12	55	.0520	7/8	1-7/8	12	4.44
16	.1770	2-3/16	3-3/8	12	5.12	56	.0465	3/4	1-3/4	12	4.44
17	.1730	2-3/16	3-3/8	12	5.12	57	.0430	3/4	1-3/4	12	4.44
18	.1695	2-1/8	3-1/4	12	4.40	58	.0420	11/16	1-5/8	12	4.44
19	.1660	2-1/8	3-1/4	12	4.40	59	.0410	11/16	1-5/8	12	4.44
20	.1610	2-1/8	3-1/4	12	4.40	60	.0400	11/16	1-5/8	12	4.44
21	.1590	2-1/8	3-1/4	12	4.06	61	.0390	11/16	1-5/8	12	—
22	.1570	2	3-1/8	12	4.06	62	.0380	5/8	1-1/2	12	—
23	.1540	2	3-1/8	12	3.72	63	.0370	5/8	1-1/2	12	—
24	.1520	2	3-1/8	12	3.72	64	.0360	5/8	1-1/2	12	—
25	.1495	1-7/8	3	12	3.72	65	.0350	5/8	1-1/2	12	—
26	.1470	1-7/8	3	12	3.72	66	.0330	1/2	1-3/8	12	—
27	.1440	1-7/8	3	12	3.72	67	.0320	1/2	1-3/8	12	—
28	.1405	1-3/4	2-7/8	12	3.48	68	.0310	1/2	1-3/8	12	—
29	.1360	1-3/4	2-7/8	12	3.48	69	.0292	1/2	1-3/8	12	—
30	.1285	1-5/8	2-3/4	12	3.48	70	.0280	3/8	1-1/4	12	—
31	.1200	1-5/8	2-3/4	12	3.48	71	.0260	3/8	1-1/4	12	—
32	.1160	1-5/8	2-3/4	12	3.48	72	.0250	5/16	1-1/8	12	—
33	.1130	1-1/2	2-5/8	12	3.48	73	.0240	5/16	1-1/8	12	—
34	.1110	1-1/2	2-5/8	12	3.48	74	.0225	1/4	1	12	—
35	.1100	1-1/2	2-5/8	12	3.48	75	.0210	1/4	1	12	—
36	.1065	1-7/16	2-1/2	12	3.48	76	.0200	3/16	7/8	12	—
37	.1040	1-7/16	2-1/2	12	3.48	77	.0180	3/16	7/8	12	—
38	.1015	1-7/16	2-1/2	12	3.48	78	.0160	3/16	7/8	12	—
39	.0995	1-3/8	2-3/8	12	3.48	79	.0145	1/8	3/4	12	—
40	.0980	1-3/8	2-3/8	12	3.48	80	.0135	1/8	3/4	12	—



JOBBER LENGTH DRILLS

Left Hand Drills

Bright Finish, 118° Point



DRILLS

Series LHJ100 – Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Import Price Each
1/64	.0156	3/16	3/4	12	—
1/32	.0312	1/2	1-3/8	12	—
3/64	.0469	3/4	1-3/4	12	—
1/16	.0625	7/8	1-7/8	12	5.76
5/64	.0781	1	2	12	5.76
3/32	.0938	1-1/4	2-1/4	12	5.99
7/64	.1094	1-1/2	2-5/8	12	6.04
1/8	.1250	1-5/8	2-3/4	12	6.23
9/64	.1406	1-3/4	2-7/8	12	6.48
5/32	.1562	2	3-1/8	12	7.20
11/64	.1719	2-1/8	3-1/4	12	8.12
3/16	.1875	2-5/16	3-1/2	12	8.99
13/64	.2031	2-7/16	3-5/8	12	8.99
7/32	.2188	2-1/2	3-3/4	12	8.99
15/64	.2344	2-5/8	3-7/8	12	12.47
1/4	.2500	2-3/4	4	12	12.47
17/64	.2656	2-7/8	4-1/8	12	13.20
9/32	.2812	2-15/16	4-1/4	6	13.63
19/64	.2969	3-1/16	4-3/8	6	14.89
5/16	.3125	3-3/16	4-1/2	6	15.90
21/64	.3281	3-5/16	4-5/8	6	17.11
11/32	.3438	3-7/16	4-3/4	6	19.62
23/64	.3594	3-1/2	4-7/8	6	22.81
3/8	.3750	3-5/8	5	6	23.98
25/64	.3906	3-3/4	5-1/8	6	26.24
13/32	.4062	3-7/8	5-1/4	6	27.31
27/64	.4219	3-15/16	5-3/8	6	30.74
7/16	.4375	4-1/16	5-1/2	6	32.14
29/64	.4531	4-3/16	5-5/8	6	36.63
15/32	.4688	4-5/16	5-3/4	6	39.00
31/64	.4844	4-3/8	5-7/8	6	41.18
1/2	.5000	4-1/2	6	6	41.18

Series LHJ102 – Letter Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Import Price Each
A	.2340	2-5/8	3-7/8	12	20.00
B	.2380	2-3/4	4	12	20.00
C	.2420	2-3/4	4	12	20.00
D	.2460	2-3/4	4	12	20.00
E	.2500	2-3/4	4	12	17.50
F	.2570	2-7/8	4-1/8	12	21.48
G	.2610	2-7/8	4-1/8	12	21.48
H	.2660	2-7/8	4-1/8	12	21.48
I	.2720	2-7/8	4-1/8	6	21.48
J	.2770	2-7/8	4-1/8	6	21.48
K	.2810	2-15/16	4-1/4	6	21.48
L	.2900	2-15/16	4-1/4	6	21.48
M	.2950	3-1/16	4-3/8	6	24.35
N	.3020	3-1/16	4-3/8	6	25.00
O	.3160	3-3/16	4-1/2	6	27.93
P	.3230	3-5/16	4-5/8	6	30.83
Q	.3320	3-7/16	4-3/4	6	31.85
R	.3390	3-7/16	4-3/4	6	31.85
S	.3480	3-1/2	4-7/8	6	37.33
T	.3580	3-1/2	4-7/8	6	37.70
U	.3680	3-5/8	5	6	39.26
V	.3770	3-5/8	5	6	42.81
W	.3860	3-3/4	5-1/8	6	43.52
X	.3970	3-3/4	5-1/8	6	43.52
Y	.4040	3-7/8	5-1/4	6	45.74
Z	.4130	3-7/8	5-1/4	6	50.19

Series LHJ104 – Wire Gauge Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Import Price Each
1	.2280	2-5/8	3-7/8	12	11.56
2	.2210	2-5/8	3-7/8	12	11.56
3	.2130	2-1/2	3-3/4	12	10.82
4	.2090	2-1/2	3-3/4	12	10.82
5	.2055	2-1/2	3-3/4	12	10.82
6	.2040	2-1/2	3-3/4	12	10.82
7	.2010	2-7/16	3-5/8	12	9.13
8	.1990	2-7/16	3-5/8	12	9.13
9	.1960	2-7/16	3-5/8	12	9.13
10	.1935	2-7/16	3-5/8	12	9.13
11	.1910	2-5/16	3-1/2	12	8.80
12	.1890	2-5/16	3-1/2	12	8.80
13	.1850	2-5/16	3-1/2	12	8.17
14	.1820	2-3/16	3-3/8	12	8.17
15	.1800	2-3/16	3-3/8	12	8.17
16	.1770	2-3/16	3-3/8	12	8.17
17	.1730	2-3/16	3-3/8	12	8.17
18	.1695	2-1/8	3-1/4	12	7.16
19	.1660	2-1/8	3-1/4	12	7.16
20	.1610	2-1/8	3-1/4	12	7.16

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Import Price Each
21	.1590	2-1/8	3-1/4	12	6.81
22	.1570	2	3-1/8	12	6.81
23	.1540	2	3-1/8	12	6.52
24	.1520	2	3-1/8	12	6.52
25	.1495	1-7/8	3	12	6.29
26	.1470	1-7/8	3	12	6.29
27	.1440	1-7/8	3	12	6.29
28	.1405	1-3/4	2-7/8	12	5.56
29	.1360	1-3/4	2-7/8	12	5.56
30	.1285	1-5/8	2-3/4	12	5.56
31	.1200	1-5/8	2-3/4	12	5.56
32	.1160	1-5/8	2-3/4	12	5.56
33	.1130	1-1/2	2-5/8	12	5.56
34	.1110	1-1/2	2-5/8	12	5.56
35	.1100	1-1/2	2-5/8	12	5.56
36	.1065	1-7/16	2-1/2	12	5.56
37	.1040	1-7/16	2-1/2	12	5.56
38	.1015	1-7/16	2-1/2	12	5.56
39	.0995	1-3/8	2-3/8	12	5.56
40	.0980	1-3/8	2-3/8	12	5.56

JOBBER LENGTH DRILLS

Metric



DRILLS



Series M100 — HSS • Series MC100 — Cobalt

Size	Decimal Equiv. (Inches)	Flute Length	OAL	Price Each	
				HSS	Cobalt
.15	.0059	3/64	3/4	9.98	—
.16	.0063	3/64	3/4	9.98	—
.17	.0067	1/16	3/4	9.02	—
.18	.0071	1/16	3/4	9.02	—
.19	.0075	1/16	3/4	7.17	—
.20	.0079	1/16	3/4	7.17	—
.21	.0083	3/32	3/4	7.17	—
.22	.0087	1/16	3/4	7.17	—
.23	.0091	3/32	3/4	7.17	—
.24	.0094	3/32	3/4	7.17	—
.25	.0098	5/64	3/4	5.67	—
.26	.0102	5/64	3/4	5.67	—
.27	.0106	5/64	3/4	5.12	—
.28	.0110	5/64	3/4	5.12	—
.29	.0114	5/64	3/4	5.12	—
.30	.0118	3/32	3/4	2.32	—
.32	.0126	3/32	3/4	2.08	—
.34	.0134	5/32	3/4	—	—
.35	.0138	1/8	3/4	2.08	—
.36	.0142	5/32	3/4	—	—
.38	.0150	3/16	3/4	—	—
.40	.0158	3/16	7/8	1.83	—
.42	.0165	3/16	7/8	1.83	—
.44	.0173	3/16	7/8	—	—
.45	.0177	3/16	7/8	1.83	—
.46	.0181	3/16	7/8	—	—
.48	.0189	3/16	7/8	1.83	—
.50	.0197	3/16	7/8	1.79	—
.55	.0217	1/4	1	1.79	—
.60	.0236	5/16	1-1/8	1.79	—
.65	.0256	3/8	1-1/4	1.79	—
.70	.0276	3/8	1-1/4	1.69	—
.75	.0295	1/2	1-3/8	1.69	—
.80	.0315	1/2	1-3/8	1.46	—
.85	.0335	5/8	1-1/2	1.46	—
.90	.0355	5/8	1-1/2	1.46	—
.95	.0374	5/8	1-1/2	1.50	—
1.00	.0394	11/16	1-5/8	1.64	4.93
1.05	.0413	11/16	1-5/8	1.64	5.46
1.10	.0433	3/4	1-3/4	1.16	5.37
1.15	.0453	3/4	1-3/4	1.16	5.46
1.20	.0472	7/8	1-7/8	1.26	5.19
1.25	.0492	7/8	1-7/8	1.26	5.06
1.30	.0512	7/8	1-7/8	1.26	5.19
1.35	.0531	7/8	1-7/8	1.26	5.26
1.40	.0551	7/8	1-7/8	1.26	5.19
1.45	.0571	7/8	1-7/8	1.26	5.26
1.50	.0591	7/8	1-7/8	1.26	4.74
1.55	.0610	7/8	1-7/8	1.26	5.26
1.60	.0630	7/8	1-7/8	1.26	5.19
1.65	.0650	1	2	1.26	5.26
1.70	.0669	1	2	1.26	5.19
1.75	.0689	1	2	1.26	5.26
1.80	.0709	1	2	1.26	5.19
1.85	.0728	1	2	1.26	5.26
1.90	.0748	1	2	1.26	5.19



JOBBER LENGTH DRILLS

Metric



DRILLS

Series M100 — HSS • Series MC100 — Cobalt (Cont'd)

Size	Decimal Equiv. (Inches)	Flute Length	OAL	Price Each	
				HSS	Cobalt
1.95	.0768	1	2	1.26	5.26
2.00	.0787	1	2-1/8	1.26	4.63
2.05	.0807	1-1/8	2-1/8	1.26	5.26
2.10	.0827	1-1/8	2-1/8	1.26	5.19
2.15	.0846	1-1/8	2-1/8	1.26	5.26
2.20	.0866	1-1/4	2-1/4	1.26	5.19
2.25	.0886	1-1/4	2-1/4	1.26	5.26
2.30	.0906	1-1/4	2-1/4	1.26	5.19
2.35	.0925	1-1/4	2-1/4	1.26	5.26
2.40	.0945	1-3/8	2-3/8	1.26	5.37
2.45	.0965	1-3/8	2-3/8	1.26	5.46
2.50	.0984	1-3/8	2-3/8	1.26	4.72
2.60	.1024	1-7/16	2-1/2	1.26	5.37
2.70	.1063	1-7/16	2-1/2	1.36	5.37
2.75	.1083	1-1/2	2-5/8	1.36	5.46
2.80	.1102	1-1/2	2-5/8	1.36	6.46
2.90	.1142	1-5/8	2-3/4	1.36	6.46
3.00	.1181	1-5/8	2-3/4	1.36	5.69
3.10	.1220	1-5/8	2-3/4	1.36	6.44
3.20	.1260	1-5/8	2-3/4	1.47	5.93
3.25	.1280	1-5/8	2-3/4	1.47	6.02
3.30	.1299	1-3/4	2-7/8	1.47	5.91
3.40	.1339	1-3/4	2-7/8	1.69	6.30
3.50	.1378	1-3/4	2-7/8	1.69	5.80
3.60	.1417	1-7/8	3	1.69	7.37
3.70	.1457	1-7/8	3	1.69	7.37
3.75	.1476	1-7/8	3	1.69	7.54
3.80	.1496	1-7/8	3	1.69	7.37
3.90	.1535	2	3-1/8	1.69	7.37
4.00	.1575	2-1/8	3-1/4	1.69	6.89
4.10	.1614	2-1/8	3-1/4	1.69	7.78
4.20	.1654	2-1/8	3-1/4	1.69	6.96
4.25	.1673	2-1/8	3-1/4	1.69	7.93
4.30	.1693	2-1/8	3-1/4	1.69	7.80
4.40	.1732	2-3/16	3-3/8	1.79	8.74
4.50	.1772	2-3/16	3-3/8	1.79	7.67
4.60	.1811	2-3/16	3-3/8	1.79	8.74
4.70	.1850	2-5/16	3-1/2	1.79	8.74
4.75	.1870	2-5/16	3-1/2	2.08	8.91
4.80	.1890	2-5/16	3-1/2	2.08	10.07
4.90	.1929	2-7/16	3-5/8	2.08	10.52
5.00	.1969	2-7/16	3-5/8	2.08	9.24
5.10	.2008	2-7/16	3-5/8	2.08	10.54
5.20	.2047	2-1/2	3-3/4	2.18	11.46
5.25	.2067	2-1/2	3-3/4	2.18	11.70
5.30	.2087	2-1/2	3-3/4	2.18	11.48
5.40	.2126	2-1/2	3-3/4	2.61	11.48
5.50	.2165	2-1/2	3-3/4	2.61	10.09
5.60	.2205	2-5/8	3-7/8	2.61	12.22
5.70	.2244	2-5/8	3-7/8	2.61	12.22
5.75	.2264	2-5/8	3-7/8	2.61	12.44
5.80	.2283	2-5/8	3-7/8	2.61	12.22
5.90	.2323	2-5/8	3-7/8	2.61	12.22
6.00	.2362	2-3/4	4	2.61	11.52
6.10	.2402	2-3/4	4	2.76	13.06
6.20	.2441	2-3/4	4	2.76	11.98



JOBBER LENGTH DRILLS

Metric



DRILLS



Series M100 — HSS • Series MC100 — Cobalt (Cont'd)

Size	Decimal Equiv. (Inches)	Flute Length	OAL	Price Each	
				HSS	Cobalt
6.25	.2461	2-3/4	4	2.76	13.26
6.30	.2480	2-3/4	4	2.76	11.98
6.40	.2520	2-7/8	4-1/8	2.90	13.54
6.50	.2559	2-7/8	4-1/8	2.90	12.98
6.60	.2598	2-7/8	4-1/8	2.90	14.78
6.70	.2638	2-7/8	4-1/8	2.90	13.52
6.75	.2657	2-7/8	4-1/8	3.39	15.81
6.80	.2677	2-7/8	4-1/8	3.39	14.20
6.90	.2717	2-7/8	4-1/8	3.39	15.48
7.00	.2756	2-7/8	4-1/8	3.39	13.65
7.10	.2795	2-15/16	4-1/4	3.39	15.50
7.20	.2835	2-15/16	4-1/4	3.39	17.30
7.25	.2854	2-15/16	4-1/4	3.39	19.19
7.30	.2874	2-15/16	4-1/4	3.39	18.87
7.40	.2913	3-1/16	4-3/8	3.39	18.87
7.50	.2953	3-1/16	4-3/8	3.39	16.98
7.60	.2992	3-1/16	4-3/8	4.16	20.09
7.70	.3031	3-3/16	4-1/2	4.16	20.09
7.75	.3051	3-3/16	4-1/2	4.16	20.46
7.80	.3071	3-3/16	4-1/2	4.16	20.09
7.85	.3091	3-3/16	4-1/2	4.44	—
7.90	.3110	3-3/16	4-1/2	4.44	20.09
8.00	.3150	3-3/16	4-1/2	4.44	19.59
8.10	.3189	3-5/16	4-5/8	4.44	22.22
8.20	.3228	3-5/16	4-5/8	4.44	22.22
8.25	.3248	3-5/16	4-5/8	4.44	22.69
8.30	.3268	3-5/16	4-5/8	4.44	22.22
8.40	.3307	3-7/16	4-3/4	4.44	24.33
8.50	.3346	3-7/16	4-3/4	4.44	21.39
8.60	.3386	3-7/16	4-3/4	5.11	24.33
8.70	.3425	3-7/16	4-3/4	5.11	24.33
8.75	.3445	3-1/2	4-7/8	5.37	28.50
8.80	.3465	3-1/2	4-7/8	5.37	28.00
8.90	.3504	3-1/2	4-7/8	5.37	28.00
9.00	.3543	3-1/2	4-7/8	5.37	24.63
9.10	.3583	3-1/2	4-7/8	5.37	28.00
9.20	.3622	3-5/8	5	6.13	28.00
9.25	.3642	3-5/8	5	6.13	28.50
9.30	.3661	3-5/8	5	6.13	28.02
9.40	.3701	3-5/8	5	6.13	28.02
9.50	.3740	3-5/8	5	6.13	25.20
9.60	.3780	3-3/4	5-1/8	6.91	31.78
9.70	.3819	3-3/4	5-1/8	6.91	31.78
9.75	.3839	3-3/4	5-1/8	6.91	32.35
9.80	.3858	3-3/4	5-1/8	6.91	31.78
9.90	.3898	3-3/4	5-1/8	6.91	31.78
10.00	.3937	3-3/4	5-1/8	6.91	29.20

Call for special
sizes not
shown in catalog



JOBBER LENGTH DRILLS

Metric



DRILLS

Series M100 — HSS • Series MC100 — Cobalt (Cont'd)

Size	Decimal Equiv. (Inches)	Flute Length	OAL	Price Each	
				HSS	Cobalt
10.10	.3976	3-3/4	5-1/4	11.21	—
10.20	.4016	3-7/8	5-1/4	10.31	30.98
10.30	.4055	3-7/8	5-1/4	12.43	—
10.40	.4094	3-7/8	5-1/4	12.43	—
10.50	.4134	3-15/16	5-3/8	7.98	32.28
10.70	.4213	3-15/16	5-3/8	12.99	—
10.80	.4252	4-1/16	5-1/2	12.99	38.20
10.90	.4291	4-1/16	5-1/2	12.99	—
11.00	.4331	4-1/16	5-1/2	10.00	33.02
11.10	.4370	4-1/16	5-1/2	14.44	—
11.20	.4409	4-3/16	5-5/8	14.54	45.85
11.25	.4429	4-3/16	5-5/8	15.00	—
11.30	.4449	4-3/16	5-5/8	14.44	—
11.40	.4488	4-3/16	5-5/8	14.44	—
11.50	.4528	4-3/16	5-5/8	10.59	39.61
11.60	.4567	4-3/16	5-5/8	15.44	—
11.70	.4606	4-3/16	5-5/8	15.44	—
11.80	.4646	4-3/16	5-5/8	15.44	—
11.90	.4685	4-3/16	5-5/8	16.11	—
12.00	.4724	4-3/8	5-7/8	11.74	41.57
12.10	.4764	4-3/8	5-7/8	16.11	—
12.20	.4803	4-3/8	5-7/8	16.18	48.13
12.25	.4823	4-3/8	5-7/8	16.44	—
12.30	.4843	4-3/8	5-7/8	16.44	—
12.40	.4882	4-3/8	5-7/8	16.44	—
12.50	.4921	4-1/2	6	11.74	42.37
12.60	.4961	4-1/2	6	28.78	—
12.70	.5000	4-1/2	6	28.78	—
12.75	.5020	4-1/2	6	24.44	—
12.80	.5039	4-1/2	6	27.56	—
12.90	.5079	4-1/2	6	28.78	—
13.00	.5118	4-1/2	6	12.32	55.44
13.50	.5315	4-13/16	6-5/8	15.47	—
13.80	.5433	4-13/16	6-5/8	31.34	—
14.00	.5512	4-13/16	6-5/8	17.69	—
14.50	.5709	4-13/16	6-5/8	17.69	—
15.00	.5906	5-3/16	7-1/8	19.19	—
15.25	.6004	5-3/16	7-1/8	40.78	—
15.50	.6102	5-3/16	7-1/8	21.94	—
16.00	.6299	5-3/16	7-1/8	21.94	—
16.50	.6496	5-3/16	7-1/8	23.69	—
17.00	.6693	5-5/8	7-5/8	23.69	—
17.50	.6890	5-5/8	7-5/8	26.06	—
18.00	.7087	5-5/8	7-5/8	27.40	—
19.00	.7480	5-5/8	7-5/8	32.87	—
19.50	.7677	5-5/8	7-5/8	32.87	—
20.00	.7874	5-5/8	7-5/8	32.87	—



TAPER LENGTH DRILLS

High Speed Steel

DRILLS



High Speed Steel

High Speed Steel, Bright Finish to 1/2" Diameter, Surface Treated over 1/2", 118° Point

Taper length drills, longer than jobbers length, are designed to perform under a variety of normal conditions and in a broad range of materials.

* 1/2" Shank also available for drill sizes over 1/2"



Cobalt Heavy Duty

Cobalt High Speed Steel, Surface Treated, 135° Point

This drill is made of cobalt high speed steel and designed for heavy duty deep hole drilling in tough alloy steels, forgings and castings.

Series TLD100 — Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	
					HSS	Cobalt
1/64	.0156	5/16	1-1/2	12	10.53	35.45
1/32	.0312	3/4	2	12	7.69	25.51
3/64	.0469	1-1/8	2-1/4	12	3.62	16.50
1/16	.0625	1-3/4	3	12	3.77	16.50
5/64	.0781	2	3-3/4	12	4.42	16.50
3/32	.0938	2-1/4	4-1/4	12	5.28	24.56
7/64	.1094	2-1/2	4-5/8	12	6.68	24.85
1/8	.1250	2-3/4	5-1/8	12	6.79	24.56
9/64	.1406	3	5-3/8	12	8.23	30.15
5/32	.1562	3	5-3/8	12	8.23	30.15
11/64	.1719	3-3/8	5-3/4	12	8.30	30.25
3/16	.1875	3-3/8	5-3/4	12	8.23	31.00
13/64	.2031	3-5/8	6	12	9.70	35.60
7/32	.2188	3-5/8	6	12	9.61	34.90
15/64	.2344	3-3/4	6-1/8	12	9.70	35.50
1/4	.2500	3-3/4	6-1/8	12	15.94	35.10
17/64	.2656	3-7/8	6-1/4	12	19.46	45.54
9/32	.2812	3-7/8	6-1/4	6	19.46	45.45
19/64	.2969	4	6-3/8	6	19.73	46.50
5/16	.3125	4	6-3/8	6	19.73	47.50
21/64	.3281	4-1/8	6-1/2	6	22.60	52.50
11/32	.3438	4-1/8	6-1/2	6	22.60	47.50
23/64	.3594	4-1/4	6-3/4	6	26.58	61.75
3/8	.3750	4-1/4	6-3/4	6	26.58	57.28
25/64	.3906	4-3/8	7	6	27.77	64.16
13/32	.4062	4-3/8	7	6	27.77	65.50
27/64	.4219	4-5/8	7-1/4	6	29.98	70.25
7/16	.4375	4-5/8	7-1/4	6	30.56	75.10
29/64	.4531	4-3/4	7-1/2	6	33.91	77.95
15/32	.4688	4-3/4	7-1/2	6	36.00	87.50
31/64	.4844	4-3/4	7-3/4	6	37.57	82.50
1/2	.5000	4-3/4	7-3/4	6	37.57	82.65
33/64	.5156	4-3/4	8	1	53.23	90.10
17/32	.5312	4-3/4	8	1	53.23	110.50
35/64	.5469	4-7/8	8-1/4	1	55.98	114.20
9/16	.5625	4-7/8	8-1/4	1	55.98	117.95
37/64	.5781	4-7/8	8-3/4	1	65.42	124.20
19/32	.5938	4-7/8	8-3/4	1	65.42	129.50
39/64	.6094	4-7/8	8-3/4	1	67.73	134.50
5/8	.6250	4-7/8	8-3/4	1	67.73	137.50
41/64	.6406	5-1/8	9	1	77.18	140.25
21/32	.6562	5-1/8	9	1	77.18	142.50
43/64	.6719	5-3/8	9-1/4	1	90.63	155.60
11/16	.6875	5-3/8	9-1/4	1	91.80	178.05
45/64	.7031	5-5/8	9-1/2	1	95.40	180.50
23/32	.7188	5-5/8	9-1/2	1	58.63	190.00
47/64	.7344	5-7/8	9-3/4	1	66.06	201.25
3/4	.7500	5-7/8	9-3/4	1	102.62	206.25

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	
					HSS	Cobalt
49/64	.7656	6	9-7/8	1	111.62	209.25
25/32	.7812	6	9-7/8	1	111.62	225.50
51/64	.7969	6-1/8	10	1	120.06	250.99
13/16	.8125	6-1/8	10	1	120.06	261.25
53/64	.8281	6-1/8	10	1	126.34	271.20
27/32	.8438	6-1/8	10	1	126.34	272.50
55/64	.8594	6-1/8	10	1	132.70	279.50
7/8	.8750	6-1/8	10	1	132.70	282.65
57/64	.8906	6-1/8	10	1	138.28	295.25
29/32	.9062	6-1/8	10	1	138.28	301.25
59/64	.9219	6-1/8	10-3/4	1	150.47	310.25
15/16	.9375	6-1/8	10-3/4	1	150.47	320.90
61/64	.9531	6-3/8	11	1	165.99	335.25
31/32	.9688	6-3/8	11	1	165.99	345.50
63/64	.9844	6-3/8	11	1	173.01	350.25
1	1.0000	6-3/8	11	1	173.01	369.50
1-1/64	1.0156	6-1/2	11-1/8	1	276.99	—
1-1/32	1.0312	6-1/2	11-1/8	1	244.83	—
1-3/64	1.0469	6-5/8	11-1/4	1	286.46	—
1-1/16	1.0625	6-5/8	11-1/4	1	253.19	—
1-5/64	1.0781	6-7/8	11-1/2	1	307.33	—
1-3/32	1.0938	6-7/8	11-1/2	1	271.62	—
1-7/64	1.1094	7-1/8	11-3/4	1	318.97	—
1-1/8	1.1250	7-1/8	11-3/4	1	269.11	—
1-9/64	1.1406	7-1/4	11-7/8	1	321.05	—
1-5/32	1.1562	7-1/4	11-7/8	1	306.85	—
1-11/64	1.1719	7-3/8	12	1	345.68	—
1-3/16	1.1875	7-3/8	12	1	315.35	—
1-13/64	1.2031	7-1/2	12-1/8	1	356.00	—
1-7/32	1.2188	7-1/2	12-1/8	1	324.75	—
1-15/64	1.2344	7-7/8	12-1/2	1	370.26	—
1-1/4	1.2500	7-7/8	12-1/2	1	337.82	—
1-9/32	1.2812	8-1/2	14-1/8	1	392.12	—
1-5/16	1.3125	8-5/8	14-1/4	1	422.22	—
1-11/32	1.3438	8-3/4	14-3/8	1	434.34	—
1-3/8	1.3750	8-7/8	14-1/2	1	452.87	—
1-13/32	1.4062	9	14-5/8	1	472.93	—
1-7/16	1.4375	9-1/8	14-3/4	1	493.47	—
1-15/32	1.4688	9-1/4	14-7/8	1	513.94	—
1-1/2	1.5000	9-3/8	15	1	553.19	—
1-9/16	1.5625	9-5/8	15-1/4	1	619.01	—
1-5/8	1.6250	9-7/8	15-5/8	1	698.93	—
1-11/16	1.6875	10-1/8	16	1	807.39	—
1-3/4	1.7500	10-1/2	16-1/4	1	842.22	—
1-13/16	1.8125	10-1/2	16-1/4	1	1004.75	—
1-7/8	1.8700	10-5/8	16-1/4	1	1101.01	—
1-15/16	1.9375	10-3/4	16-5/8	1	1137.37	—
2	2.0000	10-3/4	17-1/4	1	1159.60	—

TAPER LENGTH DRILLS

High Speed Steel & Cobalt



DRILLS



Series TLD104 — Wire Gauge Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	
					HSS	Cobalt
1	.2280	3-3/4	6-1/8	12	23.82	39.56
2	.2210	3-3/4	6-1/8	12	23.82	39.56
3	.2130	3-5/8	6	12	23.09	39.56
4	.2090	3-5/8	6	12	23.09	39.56
5	.2055	3-5/8	6	12	23.09	39.56
6	.2040	3-5/8	6	12	23.09	39.56
7	.2010	3-5/8	6	12	23.09	39.56
8	.1990	3-5/8	6	12	23.09	39.56
9	.1960	3-5/8	6	12	23.09	39.56
10	.1935	3-5/8	6	12	23.09	39.56
11	.1910	3-5/8	6	12	23.09	39.56
12	.1890	3-5/8	6	12	23.09	39.56
13	.1850	3-3/8	5-3/4	12	20.91	36.12
14	.1820	3-3/8	5-3/4	12	20.91	36.12
15	.1800	3-3/8	5-3/4	12	20.91	36.12
16	.1770	3-3/8	5-3/4	12	20.91	36.12
17	.1730	3-3/8	5-3/4	12	20.91	36.12
18	.1695	3-3/8	5-3/4	12	20.91	36.12
19	.1660	3-3/8	5-3/4	12	20.91	36.12
20	.1610	3-3/8	5-3/4	12	20.91	36.12
21	.1590	3-3/8	5-3/4	12	20.91	36.12
22	.1570	3-3/8	5-3/4	12	20.91	36.12
23	.1540	3	5-3/8	12	20.91	36.12
24	.1520	3	5-3/8	12	20.91	36.12
25	.1495	3	5-3/8	12	20.91	36.12
26	.1470	3	5-3/8	12	20.91	36.12
27	.1440	3	5-3/8	12	20.91	36.12
28	.1405	3	5-3/8	12	20.91	32.02
29	.1360	3	5-3/8	12	20.91	32.02
30	.1285	3	5-3/8	12	20.91	32.02
31	.1200	2-3/4	5-1/8	12	20.61	29.72
32	.1160	2-3/4	5-1/8	12	20.61	29.72
33	.1130	2-3/4	5-1/8	12	20.61	29.72
34	.1110	2-3/4	5-1/8	12	20.61	29.72
35	.1100	2-3/4	5-1/8	12	20.61	29.72
36	.1065	2-1/2	4-5/8	12	15.41	28.89
37	.1040	2-1/2	4-5/8	12	15.41	28.89
38	.1015	2-1/2	4-5/8	12	15.41	28.89
39	.0995	2-1/2	4-5/8	12	13.37	28.89
40	.0980	2-1/2	4-5/8	12	13.37	28.89



TAPER LENGTH DRILLS

High Speed Steel & Cobalt



DRILLS



Series TLD104 — Wire Gauge Sizes (Cont'd)

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	
					HSS	Cobalt
41	.0960	2-1/2	4-5/8	12	13.37	28.89
42	.0935	2-1/4	4-1/4	12	11.37	26.67
43	.0890	2-1/4	4-1/4	12	11.37	26.67
44	.0860	2-1/4	4-1/4	12	11.37	26.67
45	.0820	2-1/4	4-1/4	12	11.37	26.67
46	.0810	2-1/4	4-1/4	12	11.37	26.67
47	.0785	2-1/4	4-1/4	12	11.37	26.67
48	.0760	2	3-3/4	12	9.43	25.25
49	.0730	2	3-3/4	12	9.43	25.25
50	.0700	2	3-3/4	12	9.43	25.25
51	.0670	2	3-3/4	12	9.43	25.25
52	.0635	2	3-3/4	12	9.43	25.25
53	.0595	1-3/4	3	12	9.43	25.25
54	.0550	1-3/4	3	12	9.43	25.25
55	.0520	1-3/4	3	12	9.43	25.25
56	.0465	1-1/8	2-1/4	12	9.43	25.25
57	.0430	1-1/8	2-1/4	12	9.43	25.25
58	.0420	1-1/8	2-1/4	12	9.43	25.25
59	.0410	1-1/8	2-1/4	12	9.43	25.25
60	.0400	1-1/8	2-1/4	12	9.43	25.25
61	.0390	1-1/8	2-1/4	12	9.09	—
62	.0380	3/4	2	12	11.45	—
63	.0370	3/4	2	12	11.45	—
64	.0360	3/4	2	12	11.45	—
65	.0350	3/4	2	12	11.45	—
66	.0330	3/4	2	12	11.45	—
67	.0320	3/4	2	12	11.45	—
68	.0310	3/4	2	12	11.45	26.87
69	.0292	3/4	2	12	11.45	26.87
70	.0280	3/4	2	12	12.10	—
71	.0260	3/4	2	12	12.10	—
72	.0250	5/16	1-1/2	12	12.10	—
73	.0240	5/16	1-1/2	12	12.10	—
74	.0225	5/16	1-1/2	12	12.10	—
75	.0210	5/16	1-1/2	12	12.10	—
76	.0200	5/16	1-1/2	12	14.48	—
77	.0180	5/16	1-1/2	12	14.63	—
78	.0160	5/16	1-1/2	12	14.63	29.29
79	.0145	5/16	1-1/2	12	14.63	29.29
80	.0135	5/16	1-1/2	12	14.63	29.29



TAPER LENGTH DRILLS

High Speed Steel & Cobalt



DRILLS



Series TLD102 — Letter Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	
					HSS	Cobalt
A	.2340	3-3/4	6-1/8	12	26.67	44.99
B	.2380	3-3/4	6-1/8	12	26.67	44.99
C	.2420	3-3/4	6-1/8	12	26.67	44.99
D	.2460	3-3/4	6-1/8	12	26.97	44.99
E	.2500	3-3/4	6-1/8	12	17.47	34.53
F	.2570	3-7/8	6-1/4	12	28.24	53.54
G	.2610	3-7/8	6-1/4	12	29.31	53.54
H	.2660	3-7/8	6-1/4	12	30.44	53.54
I	.2720	3-7/8	6-1/4	12	30.44	53.54
J	.2770	3-7/8	6-1/4	6	30.44	53.54
K	.2810	3-7/8	6-1/4	6	30.44	53.54
L	.2900	4	6-3/8	6	32.61	53.54
M	.2950	4	6-3/8	6	32.61	53.54
N	.3020	4	6-3/8	6	33.21	53.54
O	.3160	4-1/8	6-1/2	6	33.21	58.83
P	.3230	4-1/8	6-1/2	6	33.21	58.83
Q	.3320	4-1/8	6-1/2	6	33.21	58.83
R	.3390	4-1/8	6-1/2	6	34.99	58.83
S	.3480	4-1/4	6-3/4	6	34.99	72.53
T	.3580	4-1/4	6-3/4	6	34.99	72.53
U	.3680	4-1/4	6-3/4	6	36.77	72.53
V	.3770	4-3/8	7	6	36.77	74.99
W	.3860	4-3/8	7	6	36.77	74.99
X	.3970	4-3/8	7	6	37.90	74.99
Y	.4040	4-3/8	7	6	37.90	74.99
Z	.4130	4-5/8	7-1/4	6	39.33	80.61



SCREW MACHINE LENGTH DRILLS

Oxide Finish / TiN Coated

DRILLS

Series S400 — HSS, Oxide Finish, 135° Split Point

Series S400-TI — TiN Coated, 135° Split Point



Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	
					Oxide Finish	TiN Coated
3/64	.0469	1/2	1-3/8	12	1.92	6.42
1/16	.0625	5/8	1-5/8	12	1.46	6.36
5/64	.0781	11/16	1-11/16	12	1.46	6.36
3/32	.0938	3/4	1-3/4	12	1.40	6.36
7/64	.1094	13/16	1-13/16	12	1.40	6.36
1/8	.1250	7/8	1-7/8	12	1.40	6.36
9/64	.1406	15/16	1-15/16	12	1.54	9.49
5/32	.1562	1	2-1/16	12	1.98	9.97
11/64	.1719	1-1/16	2-1/8	12	2.12	10.27
3/16	.1875	1-1/8	2-3/16	12	2.27	10.40
13/64	.2031	1-3/16	2-1/4	12	2.51	10.80
7/32	.2188	1-1/4	2-3/8	12	2.80	11.56
15/64	.2344	1-5/16	2-7/16	12	2.90	11.92
1/4	.2500	1-3/8	2-1/2	12	3.00	12.03
17/64	.2656	1-7/16	2-5/8	12	4.16	17.26
9/32	.2812	1-1/2	2-11/16	6	4.40	17.42
19/64	.2969	1-9/16	2-3/4	6	4.79	18.33
5/16	.3125	1-5/8	2-13/16	6	5.02	18.76
21/64	.3281	1-11/16	2-15/16	6	5.66	25.12
11/32	.3438	1-11/16	3	6	6.04	25.92
23/64	.3594	1-3/4	3-1/16	6	6.43	28.02
3/8	.3750	1-13/16	3-1/8	6	6.96	28.22
25/64	.3906	1-7/8	3-1/4	6	7.54	33.47
13/32	.4062	1-15/16	3-5/16	6	8.17	33.73
27/64	.4219	2	3-3/8	6	8.66	35.66
7/16	.4375	2-1/16	3-7/16	6	9.48	35.42
29/64	.4531	2-1/8	3-9/16	6	10.06	40.03
15/32	.4688	2-1/8	3-5/8	6	10.97	40.60
31/64	.4844	2-3/16	3-11/16	6	11.46	42.03
1/2	.5000	2-1/4	3-3/4	6	12.09	41.27
33/64	.5156	2-3/8	3-7/8	1	—	—
17/32	.5312	2-3/8	3-7/8	1	32.00	—
35/64	.5469	2-1/2	4	1	—	—
9/16	.5625	2-1/2	4	1	32.74	—
37/64	.5781	2-5/8	4-1/8	1	—	—
19/32	.5938	2-5/8	4-1/8	1	—	—
39/64	.6094	2-3/4	4-1/4	1	—	—
5/8	.6250	2-3/4	4-1/4	1	39.89	—
41/64	.6406	2-7/8	4-1/2	1	—	—
21/32	.6562	2-7/8	4-1/2	1	—	—
43/64	.6719	2-7/8	4-5/8	1	—	—
11/16	.6875	2-7/8	4-5/8	1	—	—
45/64	.7031	3	4-3/4	1	—	—
23/32	.7188	3	4-3/4	1	—	—
47/64	.7344	3-1/8	5	1	—	—
3/4	.7500	3-1/8	5	1	—	—
49/64	.7656	3-1/4	5-1/8	1	—	—
25/32	.7812	3-1/4	5-1/8	1	—	—
51/64	.7969	3-3/8	5-1/4	1	—	—
13/16	.8125	3-3/8	5-1/4	1	—	—
53/64	.8281	3-1/2	5-3/8	1	—	—
27/32	.8438	3-1/2	5-3/8	1	—	—
55/64	.8594	3-1/2	5-1/2	1	—	—
7/8	.8750	3-1/2	5-1/2	1	—	—
57/64	.8906	3-5/8	5-5/8	1	—	—
29/32	.9062	3-5/8	5-5/8	1	—	—
59/64	.9219	3-3/4	5-3/4	1	—	—
15/16	.9375	3-3/4	5-3/4	1	—	—
61/64	.9531	3-7/8	5-7/8	1	—	—

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	
					Oxide Finish	TiN Coated
31/32	.9688	3-7/8	5-7/8	1	—	—
63/64	.9844	4	6	1	—	—
1	1.0000	4	6	1	—	—
1-1/64	1.0156	4	6-1/4	1	—	—
1-3/32	1.0312	4	6-1/4	1	—	—
1-3/64	1.0469	4	6-1/4	1	—	—
1-1/16	1.0625	4	6-1/4	1	—	—
1-5/64	1.0781	4	6-3/8	1	—	—
1-3/32	1.0938	4	6-3/8	1	—	—
1-7/64	1.1094	4	6-3/8	1	—	—
1-1/8	1.1250	4	6-3/8	1	—	—
1-9/64	1.1406	4	6-5/8	1	—	—
1-5/32	1.1562	4-1/4	6-5/8	1	—	—
1-11/64	1.1719	4-1/4	6-5/8	1	—	—
1-3/16	1.1875	4-1/4	6-5/8	1	—	—
1-13/64	1.2031	4-3/8	6-3/4	1	—	—
1-7/32	1.2188	4-3/8	6-3/4	1	—	—
1-15/64	1.2344	4-3/8	6-3/4	1	—	—
1-1/4	1.2500	4-3/8	6-3/4	1	—	—
1-17/64	1.2656	4-3/8	7	1	—	—
1-9/32	1.2812	4-3/8	7	1	—	—
1-19/64	1.2969	4-3/8	7	1	—	—
1-5/16	1.3125	4-3/8	7	1	—	—
1-21/64	1.3281	4-1/2	7-1/8	1	—	—
1-11/32	1.3438	4-1/2	7-1/8	1	—	—
1-23/64	1.3594	4-1/2	7-1/8	1	—	—
1-3/8	1.3750	4-1/2	7-1/8	1	—	—
1-13/32	1.4062	4-3/4	7-3/8	1	—	—
1-27/64	1.4219	4-3/4	7-3/8	1	—	—
1-7/16	1.4375	4-3/4	7-3/8	1	—	—
1-29/64	1.4531	4-7/8	7-1/2	1	—	—
1-15/32	1.4688	4-7/8	7-1/2	1	—	—
1-31/64	1.4844	4-7/8	7-1/2	1	—	—
1-1/2	1.5000	4-7/8	7-1/2	1	—	—
1-17/32	1.5312	4-7/8	7-3/4	1	—	—
1-9/16	1.5625	4-7/8	7-3/4	1	—	—
1-19/32	1.5938	4-7/8	7-3/4	1	—	—
1-5/8	1.6250	4-7/8	7-3/4	1	—	—
1-21/32	1.6562	5-1/8	8	1	—	—
1-11/16	1.6875	5-1/8	8	1	—	—
1-23/32	1.7188	5-1/8	8	1	—	—
1-3/4	1.7500	5-1/8	8	1	—	—
1-25/32	1.7812	5-3/8	8-1/4	1	—	—
1-13/16	1.8125	5-3/8	8-1/4	1	—	—
1-27/32	1.8438	5-3/8	8-1/4	1	—	—
1-7/8	1.8750	5-3/8	8-1/4	1	—	—
1-29/32	1.9062	5-5/8	8-1/2	1	—	—
1-15/16	1.9375	5-5/8	8-1/2	1	—	—
1-31/32	1.9688	5-5/8	8-1/2	1	—	—
2	2.0000	5-5/8	8-1/2	1	—	—
2-1/16	2.0625	5-5/8	8-1/2	1	—	—
2-1/8	2.1250	5-5/8	8-1/2	1	—	—
2-3/16	2.1875	5-5/8	8-1/2	1	—	—
2-1/4	2.2500	5-5/8	8-1/2	1	—	—
2-5/16	2.3125	5-5/8	8-1/2	1	—	—
2-3/8	2.3750	5-5/8	8-1/2	1	—	—
2-7/16	2.4375	5-5/8	8-1/2	1	—	—
2-1/2	2.5000	5-5/8	8-1/2	1	—	—

SCREW MACHINE LENGTH DRILLS

Oxide Finish / TiN Coated



Series S404 — HSS, Oxide Finish, 135° Split Point
Series S404-TI — TiN Coated, 135° Split Point



DRILLS

Wire Gauge Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each	
					Oxide Finish	TiN Coated
1	.2280	1-5/16	2-7/16	12	2.94	12.02
2	.2210	1-5/16	2-7/16	12	2.94	12.02
3	.2130	1-1/4	2-3/8	12	2.76	11.70
4	.2090	1-1/4	2-3/8	12	2.76	11.70
5	.2055	1-1/4	2-3/8	12	2.76	11.70
6	.2040	1-1/4	2-3/8	12	2.76	11.70
7	.2010	1-3/16	2-1/4	12	2.51	10.76
8	.1990	1-3/16	2-1/4	12	2.51	10.76
9	.1960	1-3/16	2-1/4	12	2.51	10.76
10	.1935	1-3/16	2-1/4	12	2.37	10.76
11	.1910	1-3/16	2-1/4	12	2.37	10.76
12	.1890	1-3/16	2-1/4	12	2.37	10.76
13	.1850	1-1/8	2-3/16	12	2.32	10.76
14	.1820	1-1/8	2-3/16	12	2.22	10.76
15	.1800	1-1/8	2-3/16	12	2.22	10.76
16	.1770	1-1/8	2-3/16	12	2.22	10.76
17	.1730	1-1/8	2-3/16	12	2.18	10.76
18	.1695	1-1/16	2-1/8	12	2.12	10.16
19	.1660	1-1/16	2-1/8	12	2.08	10.16
20	.1610	1-1/16	2-1/8	12	2.03	10.16
21	.1590	1-1/16	2-1/8	12	1.98	9.99
22	.1570	1-1/16	2-1/8	12	1.98	9.99
23	.1540	1	2-1/16	12	1.93	9.99
24	.1520	1	2-1/16	12	1.93	9.99
25	.1495	1	2-1/16	12	1.74	9.82
26	.1470	1	2-1/16	12	1.74	9.82
27	.1440	1	2-1/16	12	1.74	9.82
28	.1405	15/16	1-15/16	12	1.60	9.47
29	.1360	15/16	1-15/16	12	1.60	9.47
30	.1285	15/16	1-15/16	12	1.54	9.47
31	.1200	7/8	1-7/8	12	1.46	6.29
32	.1160	7/8	1-7/8	12	1.40	6.29
33	.1130	7/8	1-7/8	12	1.36	6.29
34	.1110	7/8	1-7/8	12	1.36	6.29
35	.1100	7/8	1-7/8	12	1.36	6.29
36	.1065	13/16	1-13/16	12	1.36	6.29
37	.1040	13/16	1-13/16	12	1.36	6.29
38	.1015	13/16	1-13/16	12	1.36	6.29
39	.0995	13/16	1-13/16	12	1.36	6.29
40	.0980	13/16	1-13/16	12	1.36	6.29
41	.0960	13/16	1-13/16	12	1.36	6.29
42	.0935	3/4	1-3/4	12	1.36	6.29
43	.0890	3/4	1-3/4	12	1.36	6.29
44	.0860	3/4	1-3/4	12	1.36	6.29
45	.0820	3/4	1-3/4	12	1.36	6.29
46	.0810	3/4	1-3/4	12	1.36	6.29
47	.0785	3/4	1-3/4	12	1.36	6.29
48	.0760	11/16	1-11/16	12	1.36	6.29
49	.0730	11/16	1-11/16	12	1.36	6.29
50	.0700	11/16	1-11/16	12	1.36	6.29
51	.0670	11/16	1-11/16	12	1.36	6.29
52	.0635	11/16	1-11/16	12	1.36	6.29
53	.0595	5/8	1-5/8	12	1.36	6.29
54	.0550	5/8	1-5/8	12	1.36	6.29
55	.0520	5/8	1-5/8	12	1.36	6.29
56	.0465	1/2	1-3/8	12	1.36	6.29
57	.0430	1/2	1-3/8	12	1.60	6.29
58	.0420	1/2	1-3/8	12	1.60	6.29
59	.0410	1/2	1-3/8	12	1.69	6.29
60	.0400	1/2	1-3/8	12	1.69	6.29
61	.0390	1/2	1-1/4	12	—	6.53

Series S402 — HSS, Oxide Finish, 135° Split Point

Letter Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
A	.2340	1-5/16	2-7/16	12	3.87
B	.2380	1-3/8	2-1/2	12	3.87
C	.2420	1-3/8	2-1/2	12	3.87
D	.2460	1-3/8	2-1/2	12	3.87
E	.2500	1-3/8	2-1/2	12	3.53
F	.2570	1-7/16	2-5/8	12	4.3
G	.2610	1-7/16	2-5/8	12	4.54
H	.2660	1-1/2	2-11/16	12	4.54
I	.2720	1-1/2	2-11/16	6	4.54
J	.2770	1-1/2	2-11/16	6	4.88
K	.2810	1-1/2	2-11/16	6	5.26
L	.2900	1-9/16	2-3/4	6	5.26
M	.2950	1-9/16	2-3/4	6	5.73

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
N	.3020	1-5/8	2-13/16	6	5.73
O	.3160	1-11/16	2-15/16	6	5.79
P	.3230	1-11/16	2-15/16	6	6.47
Q	.3320	1-11/16	3	6	6.47
R	.3390	1-11/16	3	6	6.57
S	.3480	1-3/4	3-1/16	6	7.46
T	.3580	1-3/4	3-1/16	6	8.64
U	.3680	1-13/16	3-1/8	6	8.64
V	.3770	1-7/8	3-1/4	6	9.23
W	.3860	1-7/8	3-1/4	6	9.71
X	.3970	1-15/16	3-5/16	6	11.26
Y	.4040	1-15/16	3-5/16	6	13.32
Z	.4130	2	3-3/8	6	13.32

SCREW MACHINE LENGTH DRILLS

Cobalt Heavy Duty, 135° Split Point



DRILLS



Series SC400 – Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
3/64	.0469	1/2	1-3/8	12	3.59
1/16	.0625	5/8	1-5/8	12	2.57
5/64	.0781	11/16	1-11/16	12	2.57
3/32	.0938	3/4	1-3/4	12	2.57
7/64	.1094	13/16	1-13/16	12	2.90
1/8	.1250	7/8	1-7/8	12	3.39
9/64	.1406	15/16	1-15/16	12	3.39
5/32	.1562	1	2-1/16	12	3.72
11/64	.1719	1-1/16	2-1/8	12	4.16
3/16	.1875	1-1/8	2-3/16	12	4.88
13/64	.2031	1-3/16	2-1/4	12	5.61
7/32	.2188	1-1/4	2-3/8	12	6.19
15/64	.2344	1-5/16	2-7/16	12	6.62
1/4	.2500	1-3/8	2-1/2	12	6.87
17/64	.2656	1-7/16	2-5/8	12	7.88
9/32	.2812	1-1/2	2-11/16	6	8.56
19/64	.2969	1-9/16	2-3/4	6	9.91
5/16	.3125	1-5/8	2-13/16	6	11.02
21/64	.3281	1-11/16	2-15/16	6	11.74
11/32	.3438	1-11/16	3	6	12.76
23/64	.3594	1-3/4	3-1/16	6	14.69
3/8	.3750	1-13/16	3-1/8	6	14.69
25/64	.3906	1-7/8	3-1/4	6	16.77
13/32	.4062	1-15/16	3-5/16	6	17.36
27/64	.4219	2	3-3/8	6	19.19
7/16	.4375	2-1/16	3-7/16	6	19.72
29/64	.4531	2-1/8	3-9/16	6	23.63
15/32	.4688	2-1/8	3-5/8	6	23.63
31/64	.4844	2-3/16	3-11/16	6	23.63
1/2	.5000	2-1/4	3-3/4	6	23.44
33/64	.5156	2-3/8	3-7/8	1	52.61
17/32	.5312	2-3/8	3-7/8	1	53.06

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
35/64	.5469	2-1/2	4	1	57.11
9/16	.5625	2-1/2	4	1	55.11
37/64	.5781	2-5/8	4-1/8	1	65.44
19/32	.5938	2-5/8	4-1/8	1	63.11
39/64	.6094	2-3/4	4-1/4	1	66.11
5/8	.6250	2-3/4	4-1/4	1	63.78
41/64	.6406	2-7/8	4-1/2	1	75.94
21/32	.6562	2-7/8	4-1/2	1	73.22
43/64	.6719	2-7/8	4-5/8	1	84.11
11/16	.6875	2-7/8	4-5/8	1	81.11
45/64	.7031	3	4-3/4	1	91.33
23/32	.7188	3	4-3/4	1	88.06
47/64	.7344	3-1/8	5	1	96.39
3/4	.7500	3-1/8	5	1	92.94
49/64	.7656	3-1/4	5-1/8	1	102.67
25/32	.7812	3-1/4	5-1/8	1	102.67
51/64	.7969	3-3/8	5-1/4	1	108.89
13/16	.8125	3-3/8	5-1/4	1	108.89
53/64	.8281	3-1/2	5-3/8	1	116.67
27/32	.8438	3-1/2	5-3/8	1	116.67
55/64	.8594	3-1/2	5-1/2	1	119.31
7/8	.8750	3-1/2	5-1/2	1	119.31
57/64	.8906	3-5/8	5-5/8	1	124.06
29/32	.9062	3-5/8	5-5/8	1	124.06
59/64	.9219	3-3/4	5-3/4	1	136.73
15/16	.9375	3-3/4	5-3/4	1	136.73
61/64	.9531	3-7/8	5-7/8	1	148.56
31/32	.9688	3-7/8	5-7/8	1	148.56
63/64	.9844	4	6	1	155.40
1-3/8	1.0000	4	6	1	155.40
1-3/8	1.3750	4-1/2	7-1/8	1	360.56

Series SC402 – Letter Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
A	.2340	1-5/16	2-7/16	12	12.63
B	.2380	1-3/8	2-1/2	12	13.33
C	.2420	1-3/8	2-1/2	12	13.33
D	.2460	1-3/8	2-1/2	12	13.33
E	.2500	1-3/8	2-1/2	12	12.12
F	.2570	1-7/16	2-5/8	12	14.14
G	.2610	1-7/16	2-5/8	12	14.14
H	.2660	1-1/2	2-11/16	12	14.95
I	.2720	1-1/2	2-11/16	6	14.95
J	.2770	1-1/2	2-11/16	6	14.95
K	.2810	1-1/2	2-11/16	6	14.95
L	.2900	1-9/16	2-3/4	6	17.78
M	.2950	1-9/16	2-3/4	6	17.78

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
N	.3020	1-5/8	2-13/16	6	18.99
O	.3160	1-11/16	2-15/16	6	21.21
P	.3230	1-11/16	2-15/16	6	21.21
Q	.3320	1-11/16	3	6	22.83
R	.3390	1-11/16	3	6	22.83
S	.3480	1-3/4	3-1/16	6	28.48
T	.3580	1-3/4	3-1/16	6	28.48
U	.3680	1-13/16	3-1/8	6	28.48
V	.3770	1-7/8	3-1/4	6	31.62
W	.3860	1-7/8	3-1/4	6	31.62
X	.3970	1-15/16	3-5/16	6	31.62
Y	.4040	1-15/16	3-5/16	6	31.62
Z	.4130	2	3-3/8	6	36.36

SCREW MACHINE LENGTH DRILLS

Cobalt Heavy Duty, 135° Split Point



DRILLS



Series SC404 – Wire Gauge Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
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1	.2280	1-5/16	2-7/16	12	7.63
2	.2210	1-5/16	2-7/16	12	7.63
3	.2130	1-1/4	2-3/8	12	7.63
4	.2090	1-1/4	2-3/8	12	6.81
5	.2055	1-1/4	2-3/8	12	6.81
6	.2040	1-1/4	2-3/8	12	6.81
7	.2010	1-3/16	2-1/4	12	5.32
8	.1990	1-3/16	2-1/4	12	5.27
9	.1960	1-3/16	2-1/4	12	5.27
10	.1935	1-3/16	2-1/4	12	5.27
11	.1910	1-3/16	2-1/4	12	5.17
12	.1890	1-3/16	2-1/4	12	5.17
13	.1850	1-1/8	2-3/16	12	5.12
14	.1820	1-1/8	2-3/16	12	5.12
15	.1800	1-1/8	2-3/16	12	5.12
16	.1770	1-1/8	2-3/16	12	5.08
17	.1730	1-1/8	2-3/16	12	4.88
18	.1695	1-1/16	2-1/8	12	4.11
19	.1660	1-1/16	2-1/8	12	3.97
20	.1610	1-1/16	2-1/8	12	3.97
21	.1590	1-1/16	2-1/8	12	3.97
22	.1570	1-1/16	2-1/8	12	3.97
23	.1540	1	2-1/16	12	3.97
24	.1520	1	2-1/16	12	3.97
25	.1495	1	2-1/16	12	3.72
26	.1470	1	2-1/16	12	3.72
27	.1440	1	2-1/16	12	3.72
28	.1405	15/16	1-15/16	12	3.39
29	.1360	15/16	1-15/16	12	3.39
30	.1285	15/16	1-15/16	12	3.19

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
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31	.1200	7/8	1-7/8	12	3.19
32	.1160	7/8	1-7/8	12	3.19
33	.1130	7/8	1-7/8	12	3.04
34	.1110	7/8	1-7/8	12	3.04
35	.1100	7/8	1-7/8	12	3.04
36	.1065	13/16	1-13/16	12	3.04
37	.1040	13/16	1-13/16	12	3.04
38	.1015	13/16	1-13/16	12	2.80
39	.0995	13/16	1-13/16	12	2.80
40	.0980	13/16	1-13/16	12	2.80
41	.0960	13/16	1-13/16	12	3.50
42	.0935	3/4	1-3/4	12	3.43
43	.0890	3/4	1-3/4	12	3.43
44	.0860	3/4	1-3/4	12	3.43
45	.0820	3/4	1-3/4	12	3.43
46	.0810	3/4	1-3/4	12	3.43
47	.0785	3/4	1-3/4	12	3.43
48	.0760	11/16	1-11/16	12	3.43
49	.0730	11/16	1-11/16	12	3.43
50	.0700	11/16	1-11/16	12	3.43
51	.0670	11/16	1-11/16	12	3.43
52	.0635	11/16	1-11/16	12	3.43
53	.0595	5/8	1-5/8	12	3.90
54	.0550	5/8	1-5/8	12	3.90
55	.0520	5/8	1-5/8	12	3.90
56	.0465	1/2	1-3/8	12	3.90
57	.0430	1/2	1-3/8	12	3.90
58	.0420	1/2	1-3/8	12	4.13
59	.0410	1/2	1-3/8	12	4.13
60	.0400	1/2	1-3/8	12	4.13

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SCREW MACHINE LENGTH DRILLS

Left Hand, 118° Point



DRILLS



Series S400-L - Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
3/64	.0469	1/2	1-3/8	12	6.30
1/16	.0625	5/8	1-5/8	12	6.30
5/64	.0781	11/16	1-11/16	12	6.30
3/32	.0938	3/4	1-3/4	12	6.30
7/64	.1094	13/16	1-13/16	12	6.30
1/8	.1250	7/8	1-7/8	12	6.30
9/64	.1406	15/16	1-15/16	12	6.30
5/32	.1562	1	2-1/16	12	7.36
11/64	.1719	1-1/16	2-1/8	12	8.02
3/16	.1875	1-1/8	2-3/16	12	9.02
13/64	.2031	1-3/16	2-1/4	12	10.19
7/32	.2188	1-1/4	2-3/8	12	11.67
15/64	.2344	1-5/16	2-7/16	12	12.36
1/4	.2500	1-3/8	2-1/2	12	12.97
17/64	.2656	1-7/16	2-5/8	12	16.06
9/32	.2812	1-1/2	2-11/16	6	17.40
19/64	.2969	1-9/16	2-3/4	6	18.89
5/16	.3125	1-5/8	2-13/16	6	19.50
21/64	.3281	1-11/16	2-15/16	6	21.23
11/32	.3438	1-11/16	3	6	24.63
23/64	.3594	1-3/4	3-1/16	6	28.27
3/8	.3750	1-13/16	3-1/8	6	30.19
25/64	.3906	1-7/8	3-1/4	6	33.33
13/32	.4062	1-15/16	3-5/16	6	34.89
27/64	.4219	2	3-3/8	6	37.90
7/16	.4375	2-1/16	3-7/16	6	39.57
29/64	.4531	2-1/8	3-9/16	6	45.69
15/32	.4688	2-1/8	3-5/8	6	49.27
31/64	.4844	2-3/16	3-11/16	6	50.62
1/2	.5000	2-1/4	3-3/4	6	50.62
33/64	.5156	2-3/8	3-7/8	1	98.89
17/32	.5312	2-3/8	3-7/8	1	98.89
35/64	.5469	2-1/2	4	1	98.89
9/16	.5625	2-1/2	4	1	98.89
37/64	.5781	2-5/8	4-1/8	1	118.09
19/32	.5938	2-5/8	4-1/8	1	118.09

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
39/64	.6094	2-3/4	4-1/4	1	124.20
5/8	.6250	2-3/4	4-1/4	1	124.20
41/64	.6406	2-7/8	4-1/2	1	125.32
21/32	.6562	2-7/8	4-1/2	1	125.32
43/64	.6719	2-7/8	4-5/8	1	145.56
11/16	.6875	2-7/8	4-5/8	1	145.56
45/64	.7031	3	4-3/4	1	163.27
23/32	.7188	3	4-3/4	1	174.76
47/64	.7344	3-1/8	5	1	174.76
3/4	.7500	3-1/8	5	1	211.12
49/64	.7656	3-1/4	5-1/8	1	211.12
25/32	.7812	3-1/4	5-1/8	1	219.20
51/64	.7969	3-3/8	5-1/4	1	219.20
13/16	.8125	3-3/8	5-1/4	1	226.99
53/64	.8281	3-1/2	5-3/8	1	226.99
27/32	.8438	3-1/2	5-3/8	1	231.56
55/64	.8594	3-1/2	5-1/2	1	231.56
7/8	.8750	3-1/2	5-1/2	1	237.53
57/64	.8906	3-5/8	5-5/8	1	237.53
29/32	.9062	3-5/8	5-5/8	1	240.56
59/64	.9219	3-3/4	5-3/4	1	240.56
15/16	.9375	3-3/4	5-3/4	1	256.12
61/64	.9531	3-7/8	5-7/8	1	256.12
31/32	.9688	3-7/8	5-7/8	1	262.22
63/64	.9844	4	6	1	262.22
1	1.0000	4	6	1	255.00
1-1/32	1.0312	4	6-1/4	1	316.67
1-1/16	1.0625	4	6-1/4	1	336.67
1-1/8	1.1250	4	6-3/8	1	366.42
1-5/32	1.1562	4-1/4	6-5/8	1	383.33
1-3/16	1.1875	4-1/4	6-5/8	1	373.33
1-15/64	1.2344	4-3/8	6-3/4	1	500.27
1-1/4	1.2500	4-3/8	6-3/4	1	477.53
1-9/32	1.2812	4-3/8	7	1	534.83
1-11/32	1.3438	4-1/2	7-1/8	1	561.59

Series S402-L - Letter Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
A	.2340	1-5/16	2-7/16	12	14.76
B	.2380	1-3/8	2-1/2	12	14.76
C	.2420	1-3/8	2-1/2	12	14.76
D	.2460	1-3/8	2-1/2	12	14.76
E	.2500	1-3/8	2-1/2	12	12.97
F	.2570	1-7/16	2-5/8	12	16.60
G	.2610	1-7/16	2-5/8	12	18.09
H	.2660	1-1/2	2-11/16	12	18.22
I	.2720	1-1/2	2-11/16	6	18.22
J	.2770	1-1/2	2-11/16	6	19.46
K	.2810	1-1/2	2-11/16	6	20.43
L	.2900	1-9/16	2-3/4	6	20.43
M	.2950	1-9/16	2-3/4	6	22.22

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
N	.3020	1-5/8	2-13/16	6	22.22
O	.3160	1-11/16	2-15/16	6	22.22
P	.3230	1-11/16	2-15/16	6	25.62
Q	.3320	1-11/16	3	6	25.62
R	.3390	1-11/16	3	6	25.62
S	.3480	1-3/4	3-1/16	6	29.46
T	.3580	1-3/4	3-1/16	6	34.69
U	.3680	1-13/16	3-1/8	6	34.69
V	.3770	1-7/8	3-1/4	6	38.66
W	.3860	1-7/8	3-1/4	6	5.32
X	.3970	1-15/16	3-5/16	6	45.32
Y	.4040	1-15/16	3-5/16	6	52.52
Z	.4130	2	3-3/8	6	52.52

SCREW MACHINE LENGTH DRILLS

Left Hand, 118° Point



DRILLS



Series S404-L - Wire Gauge Sizes

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
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1	.2280	1-5/16	2-7/16	12	12.79
2	.2210	1-5/16	2-7/16	12	12.79
3	.2130	1-1/4	2-3/8	12	11.92
4	.2090	1-1/4	2-3/8	12	11.92
5	.2055	1-1/4	2-3/8	12	11.92
6	.2040	1-1/4	2-3/8	12	11.92
7	.2010	1-3/16	2-1/4	12	10.00
8	.1990	1-3/16	2-1/4	12	10.00
9	.1960	1-3/16	2-1/4	12	10.00
10	.1935	1-3/16	2-1/4	12	10.00
11	.1910	1-3/16	2-1/4	12	9.63
12	.1890	1-3/16	2-1/4	12	9.63
13	.1850	1-1/8	2-3/16	12	9.63
14	.1820	1-1/8	2-3/16	12	9.76
15	.1800	1-1/8	2-3/16	12	9.76
16	.1770	1-1/8	2-3/16	12	9.76
17	.1730	1-1/8	2-3/16	12	9.39
18	.1695	1-1/16	2-1/8	12	8.66
19	.1660	1-1/16	2-1/8	12	8.66
20	.1610	1-1/16	2-1/8	12	8.66
21	.1590	1-1/16	2-1/8	12	8.33
22	.1570	1-1/16	2-1/8	12	8.02
23	.1540	1	2-1/16	12	8.02
24	.1520	1	2-1/16	12	8.02
25	.1495	1	2-1/16	12	7.22
26	.1470	1	2-1/16	12	8.27
27	.1440	1	2-1/16	12	8.63
28	.1405	15/16	1-15/16	12	6.92
29	.1360	15/16	1-15/16	12	6.60
30	.1285	15/16	1-15/16	12	6.60
31	.1200	7/8	1-7/8	12	6.92
32	.1160	7/8	1-7/8	12	6.92

Size	Decimal Equiv.	Flute Length	OAL	Pkg Qty	Price Each
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33	.1130	7/8	1-7/8	12	6.92
34	.1110	7/8	1-7/8	12	6.92
35	.1100	7/8	1-7/8	12	6.92
36	.1065	13/16	1-13/16	12	6.92
37	.1040	13/16	1-13/16	12	6.92
38	.1015	13/16	1-13/16	12	6.60
39	.0995	13/16	1-13/16	12	6.60
40	.0980	13/16	1-13/16	12	6.60
41	.0960	13/16	1-13/16	12	6.60
42	.0935	3/4	1-3/4	12	6.99
43	.0890	3/4	1-3/4	12	6.99
44	.0860	3/4	1-3/4	12	6.99
45	.0820	3/4	1-3/4	12	6.99
46	.0810	3/4	1-3/4	12	6.99
47	.0785	3/4	1-3/4	12	6.99
48	.0760	11/16	1-11/16	12	6.60
49	.0730	11/16	1-11/16	12	6.60
50	.0700	11/16	1-11/16	12	6.60
51	.0670	11/16	1-11/16	12	6.60
52	.0635	11/16	1-11/16	12	6.60
53	.0595	5/8	1-5/8	12	6.60
54	.0550	5/8	1-5/8	12	6.60
55	.0520	5/8	1-5/8	12	6.60
56	.0465	1/2	1-3/8	12	6.60
57	.0430	1/2	1-3/8	12	6.60
58	.0420	1/2	1-3/8	12	6.60
59	.0410	1/2	1-3/8	12	6.60
60	.0400	1/2	1-3/8	12	6.60
73	.0240	3/16	15/16	12	16.42
77	.0180	3/16	15/16	12	16.42
80	.0135	3/16	15/16	12	18.89

We also offer special sizes and cutting tool alteration services.



REDUCED SHANK DRILLS



DRILLS

1/2" Shank - Silver and Deming

Series 1080 — HSS, USA
 Series C1080 — Cobalt, USA
 Series 1090 — HSS, Import
 Series C1090 — Cobalt, Import



All Sizes 6" OAL, 3" Flute Length

Fractional Sizes

Size	Decimal Equiv.	Price Each			
		HSS	Cobalt	Import HSS	Import Cobalt

1/2	.5000	36.18	67.02	—	—
33/64	.5156	39.52	82.84	12.39	43.17
17/32	.5312	38.44	82.84	12.39	42.00
35/64	.5469	42.03	85.69	13.24	43.17
9/16	.5625	40.87	85.69	13.24	39.53
37/64	.5781	45.15	91.73	14.19	48.59
19/32	.5938	43.92	91.73	14.19	46.64
39/64	.6094	47.31	97.51	14.89	48.59
5/8	.6250	46.08	97.51	14.89	44.50
41/64	.6406	50.48	109.42	15.88	53.39
21/32	.6562	49.10	109.42	15.88	49.40
43/64	.6719	52.45	115.47	16.49	53.39
11/16	.6875	51.01	115.47	16.49	48.89
45/64	.7031	53.14	123.47	16.73	57.30
23/32	.7188	51.70	123.47	16.73	55.01
47/64	.7344	57.86	123.47	18.14	57.30
3/4	.7500	56.26	123.47	18.14	54.43
49/64	.7656	61.75	139.56	19.47	66.73
25/32	.7812	60.06	139.56	19.47	61.76
51/64	.7969	72.41	146.13	20.40	66.73
13/16	.8125	63.14	146.13	20.40	61.11
53/64	.8281	74.94	159.11	21.11	71.68
27/32	.8438	65.29	159.11	21.11	66.32
55/64	.8594	77.79	159.11	21.91	71.68
7/8	.8750	67.77	157.24	21.91	65.63
57/64	.8906	81.21	167.56	22.90	80.11
29/32	.9062	70.76	167.56	22.90	74.14
59/64	.9219	86.90	167.56	24.50	80.11
15/16	.9375	75.69	167.56	24.50	73.38
61/64	.9531	91.84	187.02	25.87	94.16
31/32	.9688	80.00	187.02	25.87	87.18
63/64	.9844	102.23	203.29	28.79	94.16
1	1.0000	89.08	203.29	28.79	86.27

Size	Decimal Equiv.	Price Each			
		HSS	Cobalt	Import HSS	Import Cobalt

1-1/64	1.0156	122.54		44.11	
1-1/32	1.0312	108.66	260.18	45.10	99.14
1-3/64	1.0469	111.69		45.10	
1-1/16	1.0625	104.59	280.80	45.10	112.01
1-5/64	1.0781	115.34		46.61	
1-3/32	1.0938	115.81	300.18	48.11	119.72
1-7/64	1.1094	124.23		50.19	
1-1/8	1.1250	118.86	319.47	51.27	127.42
1-9/64	1.1406	126.93	353.78	51.27	
1-5/32	1.1562	123.47	335.11	51.27	133.58
1-11/64	1.1719	136.27		55.04	
1-3/16	1.1875	130.48	350.40	56.31	139.72
1-13/64	1.2031	146.74		59.28	
1-7/32	1.2188	145.84	369.24	60.56	147.22
1-15/64	1.2344	149.94		60.56	
1-1/4	1.2500	144.47	388.09	60.56	154.71
1-17/64	1.2656	173.77		60.64	
1-9/32	1.2812	168.71	548.00	60.64	173.36
1-19/64	1.2969	185.08		60.64	
1-5/16	1.3125	179.90	548.00	74.27	191.99
1-21/64	1.3281	199.33		80.59	
1-11/32	1.3438	193.99	556.00	80.59	206.39
1-23/64	1.3594	217.21		80.59	
1-3/8	1.3750	205.65	556.00	85.39	220.78
1-25/64	1.3906	245.00		85.39	
1-13/32	1.4062	239.39	600.80	85.39	231.83
1-27/64	1.4219	245.00		85.39	
1-7/16	1.4375	226.24	600.80	93.97	242.88
1-29/64	1.4531	273.30		93.97	
1-15/32	1.4688	263.27	612.80	97.50	321.79
1-31/64	1.4844	273.30		97.50	
1-1/2	1.5000	248.79	612.80	103.34	321.79

REDUCED SHANK DRILLS



1/2" Shank - Silver and Deming Series 1080M - Metric Sizes

Size	Decimal Equiv.	Price Each	Size	Decimal Equiv.	Price Each	Size	Decimal Equiv.	Price Each
13.00	.5118	62.75	19.00	.7480	90.51	25.00	.9843	155.76
13.50	.5315	65.69	19.50	.7677	96.50	25.50	1.0039	186.63
14.00	.5512	68.04	20.00	.7874	109.56	26.00	1.0236	186.63
14.50	.5709	71.76	20.50	.8071	116.07	26.50	1.0433	186.63
15.00	.5906	71.76	21.00	.8268	116.07	27.00	1.0630	194.43
15.50	.6102	71.76	21.50	.8465	121.79	27.50	1.0827	194.43
16.00	.6299	77.45	22.00	.8661	121.79	28.00	1.1024	208.38
16.50	.6496	77.45	22.50	.8858	129.84	28.50	1.1220	208.38
17.00	.6693	80.63	23.00	.9055	129.84	29.00	1.1417	208.38
17.50	.6890	83.14	23.50	.9252	133.75	30.00	1.1811	229.22
18.00	.7087	83.14	24.00	.9449	139.41	30.50	1.2007	234.85
18.50	.7283	90.51	24.50	.9646	139.41	31.00	1.2205	246.08

1/4" Shank - Metal Working Series 1075 - Fractional Sizes

Size	Decimal Equiv.	Price Each	Size	Decimal Equiv.	Price Each
17/64	.2656	9.90	25/64	.3906	17.80
9/32	.2812	10.69	13/32	.4062	18.25
19/64	.2969	11.37	27/64	.4219	19.91
5/16	.3125	11.71	7/16	.4375	21.22
21/64	.3281	12.90	29/64	.4531	24.17
11/32	.3438	14.61	15/32	.4688	24.27
23/64	.3594	16.38	31/64	.4844	25.24
3/8	.3750	16.84	1/2	.5000	25.70

3/8" Shank - Metal Working Series 1038 - Fractional Sizes

Size	Decimal Equiv.	Price Each	Size	Decimal Equiv.	Price Each
25/64	.3906	15.18	37/64	.5781	46.27
13/32	.4062	15.53	19/32	.5938	45.10
27/64	.4219	16.94	39/64	.6094	52.22
7/16	.4375	18.03	5/8	.6250	45.54
29/64	.4531	20.30	41/64	.6406	52.86
15/32	.4688	20.76	21/32	.6562	52.86
31/64	.4844	21.61	43/64	.6719	54.80
1/2	.5000	22.18	11/16	.6875	50.55
33/64	.5156	39.61	45/64	.7031	55.76
17/32	.5312	40.31	23/32	.7188	55.76
35/64	.5469	41.96	47/64	.7344	60.16
9/16	.5625	42.20	3/4	.7500	53.84

1/2" Shank - Silver and Deming Gold and Black Series 1090D, Import Fractional Sizes

Size	Decimal Equiv.	Import Price Each
17/32	.5312	26.09
9/16	.5625	27.82
19/32	.5938	29.71
5/8	.6250	31.32
21/32	.6562	33.27
11/16	.6875	34.92
23/32	.7188	36.77
3/4	.7500	38.26
13/16	.8125	42.54
7/8	.8750	45.62
15/16	.9375	51.15
1	1.0000	59.54

3/4" Shank - Metal Working Series 1034 - Fractional Sizes

Size	Decimal Equiv.	Price Each	Size	Decimal Equiv.	Price Each
25/32	.7812	68.24	1-13/32	1.4062	210.34
13/16	.8125	71.50	1-7/16	1.4375	237.97
27/32	.8438	76.93	1-15/32	1.4688	231.08
7/8	.8750	79.63	1-1/2	1.5000	260.72
29/32	.9062	82.20	1-17/32	1.5312	260.47
15/16	.9375	88.10	1-9/16	1.5625	294.26
31/32	.9688	91.49	1-19/32	1.5938	303.01
1	1.0000	98.94	1-5/8	1.6250	326.10
1-1/32	1.0312	111.84	1-21/32	1.6562	346.65
1-1/16	1.0625	116.00	1-11/16	1.6875	377.28
1-3/32	1.0938	119.23	1-23/32	1.7188	359.63
1-1/8	1.1250	128.80	1-3/4	1.7500	391.50
1-5/32	1.1562	127.11	1-25/32	1.7812	391.11
1-3/16	1.1875	142.16	1-13/16	1.8125	429.32
1-7/32	1.2188	150.86	1-27/32	1.8438	400.54
1-1/4	1.2500	146.14	1-7/8	1.8750	441.83
1-9/32	1.2812	172.99	1-29/32	1.9062	420.26
1-5/16	1.3125	181.67	1-15/16	1.9375	468.55
1-11/32	1.3438	191.63	1-31/32	1.9688	447.91
1-3/8	1.3750	226.31	2	2.0000	492.43

AIRCRAFT EXTENSION DRILLS

DRILLS

Split Point

Series A700 — HSS, 6" Overall Length

Series A712 — HSS, 12" Overall Length

Series AC700 — Cobalt, 6" Overall Length

Series AC712 — Cobalt, 12" Overall Length



Size	Decimal Equiv.	Flute Length	Price Each			
			HSS 6" OAL	HSS 12" OAL	Cobalt 6" OAL	Cobalt 12" OAL
1/16	.0625	7/8	5.80	9.33	10.16	21.46
52	.0635	7/8	5.00	16.80	6.84	19.02
51	.0670	1	5.00	16.80	6.84	19.02
50	.0700	1	5.00	18.00	6.84	19.02
49	.0730	1	5.00	18.00	6.73	19.02
48	.0760	1	5.00	18.00	6.73	19.02
5/64	.0781	1	5.80	8.94	10.16	21.46
47	.0785	1	5.00	18.00	7.04	19.02
46	.0810	1-1/8	5.00	18.00	7.04	19.02
45	.0820	1-1/8	5.00	18.00	7.04	19.02
44	.0860	1-1/8	5.00	18.00	7.04	19.02
43	.0890	1-1/4	5.00	18.00	7.04	19.02
42	.0935	1-1/4	3.89	14.02	5.68	19.02
3/32	.0938	1-1/4	4.30	9.62	8.02	18.80
41	.0960	1-3/8	3.89	13.79	5.68	17.26
40	.0980	1-3/8	3.89	13.78	5.42	17.59
39	.0995	1-3/8	4.27	13.78	6.03	16.76
38	.1015	1-7/16	4.27	13.78	6.03	16.76
37	.1040	1-7/16	4.27	13.78	6.03	16.76
36	.1065	1-7/16	4.27	13.78	6.03	16.76
7/64	.1094	1-1/2	4.27	10.00	8.07	18.80
35	.1100	1-1/2	4.27	13.78	6.03	16.76
34	.1110	1-1/2	4.27	13.78	6.03	16.76
33	.1130	1-1/2	4.27	13.78	6.03	18.43
32	.1160	1-5/8	4.27	13.78	6.03	16.76
31	.1200	1-5/8	4.27	13.78	6.03	16.76
1/8	.1250	1-5/8	4.16	10.00	8.46	19.09
30	.1285	1-5/8	4.27	13.78	5.84	17.60
29	.1360	1-3/4	5.22	13.78	7.42	18.43
28	.1405	1-3/4	5.22	13.78	7.42	19.02
9/64	.1406	1-3/4	5.32	10.88	10.20	21.46
27	.1440	1-7/8	5.22	13.78	7.42	19.02
26	.1470	1-7/8	5.22	13.78	7.42	17.32
25	.1495	1-7/8	5.22	13.78	7.42	17.32
24	.1520	2	5.22	13.78	7.42	17.32
23	.1540	2	5.22	13.78	7.42	17.32
5/32	.1562	2	5.32	12.28	10.20	19.52
22	.1570	2	5.22	13.78	7.42	17.60
21**	.1590	2-1/8	5.22	13.78	7.21	17.60
20	.1610	2-1/8	5.22	13.78	7.21	17.60
19	.1660	2-1/8	5.78	15.00	8.21	20.09
18	.1695	2-1/8	5.78	15.00	8.21	18.27
11/64	.1719	2-1/8	6.23	12.28	11.17	21.27
17	.1730	2-3/16	5.78	15.00	8.21	18.27
16	.1770	2-3/16	5.78	15.00	8.21	20.10
15	.1800	2-3/16	5.78	15.00	8.21	18.27
14	.1820	2-3/16	5.78	15.00	8.21	18.27
13	.1850	2-5/16	5.78	15.00	8.21	18.27
3/16	.1875	2-5/16	5.99	12.71	10.88	21.27
12	.1890	2-5/16	5.78	15.00	8.21	18.27
11	.1910	2-5/16	5.78	15.00	8.21	19.18
10	.1935	2-7/16	6.22	15.00	8.54	19.18
9	.1960	2-7/16	6.63	15.00	9.47	20.00

Quality Imports

AIRCRAFT EXTENSION DRILLS

Split Point

Series A700 — HSS, 6" Overall Length

Series A712 — HSS, 12" Overall Length

Series AC700 — Cobalt, 6" Overall Length

Series AC712 — Cobalt, 12" Overall Length

DRILLS

Size	Decimal Equiv.	Flute Length	Price Each			
			HSS 6" OAL	HSS 12" OAL	Cobalt 6" OAL	Cobalt 12" OAL
8	.1990	2-7/16	6.78	16.67	9.47	20.42
7	.2010	2-7/16	6.78	16.67	9.82	20.42
13/64	.2031	2-7/16	7.16	13.29	13.87	27.07
6	.2040	2-1/2	6.78	16.67	9.82	23.99
5	.2055	2-1/2	6.78	16.67	9.82	23.99
4	.2090	2-1/2	6.78	16.67	9.82	23.99
3	.2130	2-1/2	6.78	16.67	9.82	23.99
7/32	.2188	2-1/2	7.16	13.43	13.87	24.41
2	.2210	2-5/8	7.67	16.67	10.84	24.17
1	.2280	2-5/8	7.67	18.00	10.84	24.17
A	.2340	2-5/8	10.28	21.04	16.53	—
15/64	.2344	2-5/8	8.17	14.21	15.08	26.14
B	.2380	2-3/4	10.28	21.04	16.53	—
C	.2420	2-3/4	10.28	21.04	16.53	—
D	.2460	2-3/4	10.28	21.04	16.53	34.89
1/4	.2500	2-3/4	7.83	14.36	14.74	26.14
F	.2570	2-7/8	11.33	25.00	18.83	41.26
G	.2610	2-7/8	17.39	25.09	—	—
17/64	.2656	2-7/8	13.29	16.58	26.69	29.72
H	.2660	2-7/8	18.74	25.09	—	—
I	.2720	2-7/8	18.74	25.09	—	41.26
J	.2770	2-7/8	18.74	25.09	—	—
K	.2810	2-15/16	18.74	25.09	31.51	—
9/32	.2812	2-15/16	15.32	16.82	22.38	30.93
L	.2900	2-15/16	21.26	26.47	—	—
M	.2950	3-1/16	21.26	26.47	—	—
19/64	.2969	3-1/16	17.30	19.09	33.30	33.36
N	.3020	3-1/16	23.93	28.84	—	—
5/16	.3125	3-3/16	18.41	19.38	27.70	36.01
O	.3160	3-3/16	25.01	30.93	—	51.06
P	.3230	3-5/16	25.01	30.93	—	—
21/64	.3281	3-5/16	22.13	21.46	—	39.06
Q	.3320	3-7/16	25.21	32.37	—	53.41
R	.3390	3-7/16	25.21	33.81	42.78	—
11/32	.3438	3-7/16	22.57	21.46	—	41.18
S	.3480	3-1/2	27.78	35.38	48.89	—
T	.3580	3-1/2	27.78	35.38	48.89	—
23/64	.3594	3-1/2	23.33	24.02	43.60	43.60
U	.3680	3-5/8	29.37	35.38	51.06	63.33
3/8	.3750	3-5/8	23.98	24.02	34.94	46.59
V	.3770	3-5/8	31.02	37.52	—	—
W	.3860	3-3/4	31.02	37.52	—	—
25/64	.3906	3-3/4	25.86	26.68	—	49.63
X	.3970	3-3/4	31.02	39.68	49.64	62.06
Y	.4040	3-7/8	31.02	39.68	—	—
13/32	.4062	3-7/8	26.82	26.68	—	54.77
Z	.4130	3-7/8	33.26	41.88	—	—
27/64	.4219	3-15/16	28.28	29.97	—	58.10
7/16	.4375	4-1/16	31.76	29.97	—	62.20
29/64	.4531	4-3/16	32.48	32.87	—	66.46
15/32	.4688	4-5/16	32.48	32.87	—	70.18
31/64	.4844	4-3/8	36.10	35.91	—	74.10
1/2	5000	4-1/2	34.56	35.91	44.11	77.43

Quality Imports

EXTRA LONG DRILLS

Straight Shank HSS, 118° Point

DRILLS

6" OAL - 4" Flute Length Series 1206XL

Size	Decimal Equiv.	Import Price Each
1/16	.0625	19.42
5/64	.0781	19.42
3/32	.0938	15.76
7/64	.1094	15.76
1/8	.1250	15.76
9/64	.1406	15.76
5/32	.1562	15.76
11/64	.1719	15.76
3/16	.1875	15.76

8" OAL - 5-1/2" Flute Length Series 1208XL

Size	Decimal Equiv.	Import Price Each
3/32	.0938	23.37
7/64	.1094	28.62
1/8	.1250	28.62
9/64	.1406	30.90
5/32	.1562	30.90
11/64	.1719	31.09
3/16	.1875	31.09
13/64	.2031	34.23
7/32	.2188	34.23
15/64	.2344	34.38
1/4	.2500	34.38
17/64	.2656	36.60
9/32	.2812	36.60
19/64	.2969	36.80
5/16	.3125	36.80
21/64	.3281	39.36
11/32	.3438	39.36
23/64	.3594	39.20
3/8	.3750	39.20
25/64	.3906	44.98
13/32	.4062	44.98
27/64	.4219	42.78
7/16	.4375	47.39
29/64	.4531	52.66
15/32	.4688	52.66
31/64	.4844	51.36
1/2	.5000	51.36

10" OAL - 7-1/2" Flute Length Series 1210XL

Size	Decimal Equiv.	Import Price Each
1/8	.1250	33.57
9/64	.1406	39.59
5/32	.1562	39.06
11/64	.1719	36.33
3/16	.1875	36.33
13/64	.2031	46.26
7/32	.2188	44.67
15/64	.2344	44.67
1/4	.2500	38.82
17/64	.2656	40.83
9/32	.2812	44.60
19/64	.2969	45.33
5/16	.3125	42.00
21/64	.3281	52.50
11/32	.3438	49.67
23/64	.3594	48.53
3/8	.3750	46.12
25/64	.3906	57.59
13/32	.4062	57.59
27/64	.4219	60.00
7/16	.4375	60.00
29/64	.4531	66.50
15/32	.4688	68.87
31/64	.4844	82.50
1/2	.5000	58.13

12" OAL - 9" Flute Length Series 1212XL

Size	Decimal Equiv.	Import Price Each
7/64	.1094	28.33
1/8	.1250	33.78
9/64	.1406	36.78
5/32	.1562	36.78
11/64	.1719	38.23
3/16	.1875	38.23
13/64	.2031	41.19
7/32	.2188	41.19
15/64	.2344	41.19
1/4	.2500	42.78
17/64	.2656	44.31
9/32	.2812	44.31
19/64	.2969	45.87
5/16	.3125	45.87
21/64	.3281	48.87
11/32	.3438	48.87
23/64	.3594	48.87
3/8	.3750	48.87
25/64	.3906	54.94
13/32	.4062	54.94
27/64	.4219	57.98
7/16	.4375	57.98

Series 1212XL (Cont'd)

Size	Decimal Equiv.	Import Price Each
29/64	.4531	65.72
15/32	.4688	65.72
31/64	.4844	68.57
1/2	.5000	68.57
33/64	.5156	98.36
17/32	.5312	92.42
35/64	.5469	108.99
9/16	.5625	99.97
37/64	.5781	105.12
19/32	.5938	107.54
39/64	.6094	114.79
5/8	.6250	112.33
41/64	.6406	84.89
21/32	.6562	134.61
43/64	.6719	89.78
11/16	.6875	141.38
45/64	.7031	97.44
23/32	.7188	149.83
47/64	.7344	101.11
3/4	.7500	154.91
49/64	.7656	110.22
25/32	.7812	110.22
51/64	.7969	119.78
13/16	.8125	119.78
53/64	.8281	133.33
27/32	.8438	133.33
55/64	.8594	143.72
7/8	.8750	143.72
57/64	.8906	159.67
29/32	.9062	159.67
59/64	.9219	165.56
15/16	.9375	165.56
61/64	.9531	172.22
31/32	.9688	172.22
63/64	.9844	172.22
1	1.0000	172.22

**12" OAL - 1/2" Shank
Series 1212XLD
Call for Pricing**

EXTRA LONG DRILLS

Straight Shank HSS, 118° Point

15" OAL - 11" Flute Length Series 1215XL

Size	Decimal Equiv.	Import Price Each
1/4	.2500	64.53
9/32	.2812	69.23
5/16	.3125	74.10
11/32	.3438	80.32
3/8	.3750	78.16
13/32	.4062	86.17
11 mm	.4331	99.59
7/16	.4375	91.16
29/64	.4531	96.67
15/32	.4688	97.39
1/2	.5000	108.53
17/32	.5312	131.43
9/16	.5625	130.06
19/32	.5938	135.33
5/8	.6250	139.49
21/32	.6562	159.99
11/16	.6875	171.53
23/32	.7188	187.42
3/4	.7500	193.36
25/32	.7812	217.67
13/16	.8125	239.39
7/8	.8750	248.33
15/16	.9375	265.00
1	1.0000	282.50

15" OAL - 11" Flute Length 1/2" Shank Series 1215XLD

Size	Decimal Equiv.	Import Price Each
35/64	.5469	109.90
9/16	.5625	106.60
37/64	.5781	116.92
19/32	.5938	113.32
39/64	.6094	121.93
5/8	.6250	120.29
41/64	.6406	126.73
21/32	.6562	125.82
43/64	.6719	139.43
11/16	.6875	138.13
45/64	.7031	148.07
23/32	.7188	149.33
47/64	.7344	164.06
3/4	.7500	157.36
49/64	.7656	177.87
25/32	.7812	177.89
51/64	.7969	188.22
13/16	.8125	188.23
53/64	.8281	207.77
27/32	.8438	207.77

Series 1215XLD (Cont'd)

Size	Decimal Equiv.	Import Price Each
7/8	.8750	227.83
57/64	.8906	254.87
29/32	.9062	254.87
59/64	.9219	266.67
15/16	.9375	266.67
61/64	.9531	278.40
31/32	.9688	278.42
63/64	.9844	292.40
1	1.0000	292.40

18" OAL - 12" Flute Length Series 1218XL

Size	Decimal Equiv.	Import Price Each
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1/8	.1250	77.78
5/32	.1562	77.78
3/16	.1875	77.78
13/64	.2031	77.78
7/32	.2188	77.78
15/64	.2344	77.78
1/4	.2500	49.64
17/64	.2656	53.50
9/32	.2812	53.50
19/64	.2969	59.56
5/16	.3125	59.56
21/64	.3281	62.69
11/32	.3438	62.69
23/64	.3594	63.50
3/8	.3750	63.50
25/64	.3906	66.61
13/32	.4062	66.61
27/64	.4219	68.63
7/16	.4375	68.63
29/64	.4531	72.30
15/32	.4688	72.30
31/64	.4844	77.30
1/2	.5000	77.30
33/64	.5156	124.51
17/32	.5312	124.51
35/64	.5469	126.53
9/16	.5625	126.53
37/64	.5781	130.99
19/32	.5938	130.99
39/64	.6094	137.46
5/8	.6250	137.46
41/64	.6406	151.91
21/32	.6562	151.91
43/64	.6719	162.73
11/16	.6875	162.73
45/64	.7031	177.87
23/32	.7188	177.87
47/64	.7344	188.60
3/4	.7500	188.60

Series 1218XL (Cont'd)

Size	Decimal Equiv.	Import Price Each
49/64	.7656	183.89
25/32	.7812	191.67
51/64	.7969	191.67
13/16	.8125	218.42
53/64	.8281	225.33
27/32	.8438	225.33
55/64	.8594	225.33
7/8	.8750	225.33
57/64	.8906	236.98
29/32	.9062	236.98
59/64	.9219	236.98
15/16	.9375	236.98
61/64	.9531	251.23
31/32	.9688	251.23
63/64	.9844	251.23
1	1.0000	251.23

18" OAL - 12" Flute Length 1/2" Shank Series 1218XLD

Size	Decimal Equiv.	Import Price Each
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33/64	.5156	127.66
17/32	.5312	127.66
35/64	.5469	129.68
9/16	.5625	129.68
37/64	.5781	134.13
19/32	.5938	134.13
39/64	.6094	140.60
5/8	.6250	140.60
41/64	.6406	155.06
21/32	.6562	155.06
43/64	.6719	165.88
11/16	.6875	165.88
45/64	.7031	181.01
23/32	.7188	181.01
47/64	.7344	191.74
3/4	.7500	191.74
49/64	.7656	197.22
25/32	.7812	213.54
51/64	.7969	205.00
13/16	.8125	221.57
53/64	.8281	202.78
27/32	.8438	228.48
55/64	.8594	213.56
7/8	.8750	228.48
57/64	.8906	233.33
29/32	.9062	240.12
59/64	.9219	238.34
15/16	.9375	240.12
61/64	.9531	238.61
31/32	.9688	254.38
63/64	.9844	238.61
1	1.0000	254.38

EXTRA LONG DRILLS

Taper Shank HSS, 118° Point

Quality Imports



Series 1208TS

8" Overall Length

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
1/8	.1250	5	1	94.19
9/64	.1406	5	1	98.78
5/32	.1562	5	1	98.78
11/64	.1719	5	1	98.78
3/16	.1875	5	1	98.78
13/64	.2031	5	1	98.78
7/32	.2188	5	1	98.78
15/64	.2344	5	1	98.78
1/4	.2500	5	1	98.78
17/64	.2656	5	1	106.99
9/32	.2812	5	1	106.99
19/64	.2969	5	1	106.94
5/16	.3125	5	1	106.94
5/16	.3125	4	2	106.94
21/64	.3281	5	1	120.24
11/32	.3438	5	1	120.24
23/64	.3594	5	1	123.67
3/8	.3750	5	1	123.67
29/64	.4531	5	1	136.11
15/32	.4688	5	1	136.11

Series 1210TS

10" Overall Length

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
5/32	.1562	7	1	113.56
11/64	.1719	7	1	115.89
13/64	.2031	7	1	119.70
7/32	.2188	7	1	119.70
15/64	.2344	7	1	119.70
1/4	.2500	7	1	119.70
9/32	.2812	7	1	130.59
19/64	.2969	7	1	130.59
21/64	.3281	7	1	141.48
23/64	.3594	7	1	145.44
3/8	.3750	7	1	145.44
7/16	.4375	7	1	154.90
29/64	.4531	7	1	170.10
15/32	.4688	7	1	163.96
31/64	.4844	6	2	187.76
1/2	.5000	6	2	181.14
33/64	.5156	6	2	187.76
17/32	.5312	6	2	181.14
9/16	.5625	6	2	183.71
37/64	.5781	6	2	192.89
19/32	.5938	6	2	186.12
5/8	.6250	6	2	198.33

Series 1212TS

12" Overall Length

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
1/8	.1250	9	1	134.56
5/32	.1562	9	1	136.50
11/64	.1719	9	1	136.50
3/16	.1875	9	1	136.50
13/64	.2031	9	1	139.61
7/32	.2188	9	1	139.61
15/64	.2344	9	1	139.61
1/4	.2500	9	1	139.61
17/64	.2656	9	1	152.83
9/32	.2812	9	1	152.83
19/64	.2969	9	1	152.83
5/16	.3125	9	1	152.83
21/64	.3281	9	1	166.44
11/32	.3438	9	1	166.44
23/64	.3594	9	1	171.11
3/8	.3750	9	1	171.11
25/64	.3906	9	1	179.67
13/32	.4062	9	1	179.67
27/64	.4219	9	1	185.89
7/16	.4375	9	1	185.89
29/64	.4531	9	1	200.12
15/32	.4688	9	1	192.89
31/64	.4844	8	2	220.89
1/2	.5000	8	2	213.11
33/64	.5156	8	2	220.89
17/32	.5312	8	2	213.89
35/64	.5469	8	2	224.00
9/16	.5625	8	2	216.14
37/64	.5781	8	2	227.03
19/32	.5938	8	2	218.94
39/64	.6094	8	2	242.12
5/8	.6250	8	2	233.30
41/64	.6406	8	2	249.67
21/32	.6562	8	2	249.67
43/64	.6719	8	2	272.22
11/16	.6875	8	2	272.22
45/64	.7031	8	2	290.11
23/32	.7188	8	2	290.11
47/64	.7344	8	2	301.70
3/4	.7500	8	2	301.70
49/64	.7656	8	2	318.58
49/64	.7656	7	3	318.58
25/32	.7812	8	2	318.58
25/32	.7812	7	3	318.58
51/64	.7969	7	3	336.23
13/16	.8125	7	3	336.23
53/64	.8281	7	3	336.23
27/32	.8438	7	3	336.23
55/64	.8594	7	3	336.23
7/8	.8750	7	3	336.23
57/64	.8906	7	3	369.60
29/32	.9062	7	3	369.60
59/64	.9219	7	3	381.73
15/16	.9375	7	3	381.73
31/32	.9688	7	3	399.93
1	1.0000	7	3	402.89

Series 1214TS

14" Overall Length

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
5/16	.3125	10	2	194.44
7/16	.4375	11	1	217.00
15/32	.4688	11	1	217.00
15/32	.4688	10	2	217.00
31/64	.4844	10	2	220.27
1/2	.5000	10	2	220.27
33/64	.5156	10	2	222.44
17/32	.5312	10	2	231.62
37/64	.5781	10	2	241.89
19/32	.5938	10	2	241.89
39/64	.6094	10	2	255.11
5/8	.6250	10	2	255.11
21/32	.6562	10	2	273.39
11/16	.6875	10	2	295.17
45/64	.7031	10	2	299.44
23/32	.7188	10	2	299.44
47/64	.7344	10	2	325.11
3/4	.7500	10	2	325.11
49/64	.7656	10	2	340.67
25/32	.7812	10	2	340.67
27/32	.8438	9	3	353.11
57/64	.8906	9	3	392.00
31/32	.9688	9	3	426.22
63/64	.9844	9	3	426.22

EXTRA LONG DRILLS

Taper Shank HSS, 118° Point

Quality Imports



DRILLS

Series 1215TS 15" Overall Length

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
3/16	.1875	12	1	182.00
13/64	.2031	12	1	182.00
7/32	.2188	12	1	182.00
15/64	.2344	12	1	182.00
1/4	.2500	12	1	182.00
17/64	.2656	12	1	192.11
9/32	.2812	12	1	192.11
19/64	.2969	12	1	202.22
5/16	.3125	12	1	202.22
21/64	.3281	12	1	212.33
11/32	.3438	12	1	212.33
23/64	.3594	12	1	236.60
3/8	.3750	12	1	236.60
25/64	.3906	12	1	236.60
13/32	.4062	12	1	236.60
27/64	.4219	12	1	236.60
7/16	.4375	12	1	236.60
29/64	.4531	12	1	242.67
15/32	.4688	12	1	242.67
31/64	.4844	11	2	246.17
1/2	.5000	11	2	246.17
33/64	.5156	11	2	246.17
17/32	.5312	11	2	246.17
35/64	.5469	12	1	249.67
35/64	.5469	11	2	249.67
9/16	.5625	11	2	249.67
37/64	.5781	11	2	253.17
19/32	.5938	11	2	253.17
39/64	.6094	11	2	270.20
5/8	.6250	11	2	270.20
41/64	.6406	11	2	289.33
21/32	.6562	11	2	289.33
43/64	.6719	11	2	317.02
11/16	.6875	11	2	317.02
45/64	.7031	11	2	327.83
23/32	.7188	11	2	327.83
47/64	.7344	11	2	351.32
3/4	.7500	11	2	351.32
49/64	.7656	11	2	370.61
25/32	.7812	11	2	370.61
51/64	.7969	10	3	370.61
13/16	.8125	10	3	370.61
53/64	.8281	10	3	370.61
27/32	.8438	10	3	370.61
55/64	.8594	10	3	370.61
7/8	.8750	10	3	370.61
57/64	.8906	10	3	417.28
29/32	.9062	10	3	417.28
59/64	.9219	10	3	417.28
15/16	.9375	10	3	438.67
61/64	.9531	10	3	445.12
31/32	.9688	10	3	445.12
63/64	.9844	10	3	450.72
1	1.0000	10	3	450.72
1-1/64	1.0156	10	3	452.90
1-1/32	1.0312	10	3	452.90
1-3/64	1.0469	10	3	461.22
1-1/16	1.0625	10	3	452.90
1-5/64	1.0781	9	4	485.33
1-3/32	1.0938	9	4	485.33
1-7/64	1.1094	9	4	485.33
1-1/8	1.1250	9	4	485.33
1-9/64	1.1406	9	4	495.06
1-5/32	1.1562	9	4	495.06
1-11/64	1.1719	9	4	500.50

Series 1215TS 15" Overall Length (cont'd)

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
1-3/16	1.1875	10	3	500.50
1-3/16	1.1875	9	4	500.50
1-7/32	1.2188	9	4	530.83
1-15/64	1.2344	9	4	530.83
1-1/4	1.2500	9	4	530.83

Series 1218TS 18" Overall Length

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
1/4	.2500	15	1	237.22
17/64	.2656	15	1	241.11
9/32	.2812	15	1	241.11
19/64	.2969	15	1	247.33
5/16	.3125	15	1	247.33
21/64	.3281	15	1	256.67
11/32	.3438	15	1	256.67
23/64	.3594	15	1	268.33
3/8	.3750	15	1	268.33
25/64	.3906	15	1	268.33
13/32	.4062	15	1	268.33
27/64	.4219	15	1	268.33
7/16	.4375	15	1	268.33
29/64	.4531	15	1	268.33
15/32	.4688	15	1	268.33
31/64	.4844	14	2	268.33
1/2	.5000	14	2	268.33
33/64	.5156	14	2	268.33
17/32	.5312	14	2	268.33
35/64	.5469	14	2	272.22
9/16	.5625	14	2	272.22
37/64	.5781	14	2	275.33
19/32	.5938	14	2	275.33
39/64	.6094	14	2	295.17
5/8	.6250	14	2	295.17
41/64	.6406	14	2	316.94
21/32	.6562	14	2	316.94
43/64	.6719	14	2	347.43
11/16	.6875	14	2	347.43
45/64	.7031	14	2	373.88
23/32	.7188	14	2	373.88
47/64	.7344	14	2	385.70
3/4	.7500	14	2	385.70
49/64	.7656	14	2	406.47
25/32	.7812	14	2	406.47
51/64	.7969	13	3	406.47
13/16	.8125	13	3	406.47
53/64	.8281	13	3	424.28
27/32	.8438	13	3	424.28
55/64	.8594	13	3	439.44
7/8	.8750	13	3	439.44
57/64	.8906	13	3	454.84
29/32	.9062	13	3	454.84
59/64	.9219	13	3	462.47
15/16	.9375	13	3	462.47
61/64	.9531	13	3	470.09
31/32	.9688	13	3	470.09
63/64	.9844	13	3	496.79
1	1.0000	13	3	496.79
1-1/64	1.0156	13	3	496.79
1-1/32	1.0312	13	3	538.84

Series 1218TS 18" Overall Length (cont'd)

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
1-3/64	1.0469	13	3	538.84
1-1/16	1.0625	13	3	538.84
1-5/64	1.0781	12	4	544.44
1-3/32	1.0938	12	4	544.44
1-7/64	1.1094	12	4	544.44
1-1/8	1.1250	12	4	544.44
1-9/64	1.1406	12	4	605.50
1-5/32	1.1562	12	4	605.50
1-11/64	1.1719	12	4	606.67
1-3/16	1.1875	12	4	606.67
1-7/32	1.2188	12	4	637.00
1-15/64	1.2344	12	4	637.00
1-1/4	1.2500	12	4	637.00
1-17/64	1.2656	12	4	746.67
1-9/32	1.2813	12	4	721.00
1-5/16	1.3125	12	4	721.00
1-11/32	1.3438	12	4	807.72
1-23/64	1.3594	12	4	807.72
1-3/8	1.3750	12	4	807.72
1-13/32	1.4062	12	4	832.22
1-7/16	1.4375	12	4	832.22
1-15/32	1.4688	12	4	902.22
1-1/2	1.5000	12	4	902.22
1-9/16	1.5625	10	5	1004.89
1-5/8	1.6250	10	5	1071.78
1-11/16	1.6875	10	5	1143.33
1-3/4	1.7500	10	5	1283.33
1-13/16	1.8125	10	5	1415.56
1-7/8	1.8750	10	5	1551.67



EXTRA LONG DRILLS

Taper Shank HSS, 118° Point

Quality Imports



Series 1220TS 20" Overall Length

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
33/64	.5156	16	2	493.82
9/16	.5625	16	2	505.06
19/32	.5938	16	2	505.06
47/64	.7344	16	2	603.81
13/16	.8125	15	3	648.71
27/32	.8438	15	3	671.16
7/8	.8750	15	3	718.29
15/16	.9375	15	3	729.52
31/32	.9688	15	3	783.39
1-1/16	1.0625	15	3	850.73
1-3/32	1.0938	14	4	895.62
1-1/8	1.1250	14	4	895.62
1-3/16	1.1875	14	4	1043.77
1-13/64	1.2031	14	4	1043.77
1-7/32	1.2188	14	4	1043.77
1-1/4	1.2500	14	4	1043.77
1-11/32	1.3438	14	4	1317.62
1-13/32	1.4062	14	4	1402.92
1-7/16	1.4375	14	4	1402.92
1-15/32	1.4688	14	4	1459.03
1-3/4	1.7500	13	5	2042.64
2-7/32	2.2188	13	5	3367.00

Series 1224TS 24" Overall Length

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
3/8	.3750	21	1	543.21
25/64	.3906	21	1	543.21
13/32	.4062	21	1	543.21
27/64	.4219	21	1	543.21
7/16	.4375	21	1	543.21
29/64	.4531	21	1	543.21
15/32	.4688	21	1	543.21
31/64	.4844	20	2	543.21
1/2	.5000	20	2	543.21
33/64	.5156	20	2	564.42
17/32	.5312	20	2	564.42
35/64	.5469	20	2	564.42
9/16	.5625	20	2	564.42
37/64	.5781	20	2	564.42
19/32	.5938	20	2	564.42
39/64	.6094	20	2	564.42
5/8	.6250	20	2	564.42
41/64	.6406	20	2	564.42
21/32	.6562	20	2	564.42
43/64	.6719	20	2	596.61
11/16	.6875	20	2	596.61
45/64	.7031	20	2	616.61
23/32	.7188	20	2	616.61
47/64	.7344	20	2	651.47
3/4	.7500	20	2	651.47
49/64	.7656	20	2	672.28
25/32	.7812	20	2	672.28
51/64	.7969	19	3	707.86
13/16	.8125	19	3	707.86
53/64	.8281	19	3	814.68

Series 1224TS 24" Overall Length (cont'd)

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
27/32	.8438	19	3	814.68
55/64	.8594	19	3	851.79
7/8	.8750	19	3	851.79
57/64	.8906	19	3	851.79
29/32	.9062	19	3	851.79
59/64	.9219	19	3	887.16
15/16	.9375	19	3	887.16
61/64	.9531	19	3	977.71
31/32	.9688	19	3	977.71
63/64	.9844	19	3	995.69
1	1.0000	19	3	995.69
1-1/64	1.0156	19	3	1021.23
1-1/32	1.0312	19	3	1021.23
1-3/64	1.0469	19	3	1021.23
1-1/16	1.0625	19	3	1021.23
1-5/64	1.0781	18	4	1122.18
1-3/32	1.0938	18	4	1122.18
1-1/8	1.1250	18	4	1122.18
1-9/64	1.1406	18	4	1207.41
1-5/32	1.1562	18	4	1207.41
1-11/64	1.1719	18	4	1252.74
1-3/16	1.1875	18	4	1252.74
1-13/64	1.2031	18	4	1267.26
1-7/32	1.2188	18	4	1267.26
1-15/64	1.2344	18	4	1267.26
1-1/4	1.2500	18	4	1267.26
1-17/64	1.2656	18	4	1434.92
1-9/32	1.2812	18	4	1434.92
1-5/16	1.3125	18	4	1434.92
1-11/32	1.3438	18	4	1604.93
1-23/64	1.3594	18	4	1604.93
1-3/8	1.3750	18	4	1604.93
1-13/32	1.4062	18	4	1659.26
1-7/16	1.4375	18	4	1659.26
1-15/32	1.4688	18	4	1798.77
1-1/2	1.5000	18	4	1798.77
1-9/16	1.5625	17	5	1998.77
1-5/8	1.6250	17	5	1998.77
1-11/16	1.6875	17	5	2276.54
1-3/4	1.7500	17	5	2545.68
1-25/32	1.7812	17	5	2814.81
1-13/16	1.8125	17	5	2814.81
1-7/8	1.8750	18	4	3125.92
1-7/8	1.8750	17	5	3125.92
1-15/16	1.9375	17	5	3434.57
2	2.0000	18	4	3723.46
2	2.0000	17	5	3723.46
2-1/16	2.0625	17	5	4012.34
2-1/8	2.1250	17	5	4012.34
2-3/16	2.1875	17	5	4409.88
2-7/32	2.2188	17	5	4803.59
2-1/4	2.2500	17	5	4409.88
2-5/16	2.3125	17	5	4807.41
2-3/8	2.3750	17	5	4807.41
2-7/16	2.4375	17	5	5130.87
2-1/2	2.5000	17	5	5130.87
2-9/16	2.5625	17	5	5454.32
2-5/8	2.6250	17	5	5454.32
2-11/16	2.6875	17	5	5906.18
2-3/4	2.7500	17	5	5906.18
2-13/16	2.8125	17	5	6358.02
2-7/8	2.8750	17	5	6358.02
2-15/16	2.9375	17	5	7264.20
3	3.0000	17	5	7264.20

EXTRA LONG DRILLS

Taper Shank HSS, 118° Point

Quality Imports



DRILLS

Series 1230TS 30" Overall Length

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
3/4	.7500	26	2	895.62
13/16	.8125	25	3	1054.99
7/8	.8750	25	3	1209.88
15/16	.9375	25	3	1308.64
1	1.0000	25	3	1441.08
1-1/16	1.0625	25	3	1441.08
1-1/8	1.1250	24	4	1645.34
1-3/16	1.1875	24	4	1793.49
1-1/4	1.2500	24	4	1941.63
1-5/16	1.3125	24	4	2204.27
1-3/8	1.3750	24	4	2399.56
1-7/16	1.4375	24	4	2469.13
1-1/2	1.5000	24	4	2691.36
1-9/16	1.5625	23	5	3005.61
1-5/8	1.6250	23	5	3005.61
1-11/16	1.6875	23	5	3322.11
1-3/4	1.7500	23	5	3322.11
1-13/16	1.8125	23	5	3719.41
1-7/8	1.8750	23	5	3719.41
1-15/16	1.9375	23	5	4114.48
2	2.0000	23	5	4231.20
2-1/16	2.0625	23	5	4668.91
2-1/8	2.1250	23	5	4668.91
2-3/16	2.1875	23	5	5010.10
2-1/4	2.2500	23	5	5010.10
2-5/16	2.3125	23	5	5465.77
2-3/8	2.3750	23	5	5465.77
2-7/16	2.4375	23	5	5833.90
2-1/2	2.5000	23	5	5833.90
2-5/8	2.6250	23	5	6193.04
2-3/4	2.7500	23	5	6709.31
2-7/8	2.8750	23	5	7090.91
3	3.0000	23	5	8260.38
3-1/8	3.1250	23	5	9382.71
3-1/4	3.2500	23	5	11319.87
3-3/8	3.3750	23	5	15187.43
3-1/2	3.5000	23	5	19393.94

Series 1236TS 36" Overall Length

Size	Decimal Equiv.	Flute Length	Morse Taper No.	Import Price Each
1-1/2	1.5000	30	4	3308.64
1-3/4	1.7500	29	5	4083.06
2	2.0000	29	5	5465.77
2-1/8	2.1250	29	5	6381.59
2-1/4	2.2500	29	5	6383.83
2-3/8	2.3750	29	5	7649.83
2-1/2	2.5000	29	5	7649.83
2-5/8	2.6250	29	5	8673.40
2-3/4	2.7500	29	5	10116.72
3	3.0000	29	5	11551.07
3-1/8	3.1250	29	5	12356.90
3-1/4	3.2500	29	5	15151.51
3-3/8	3.3750	29	5	22154.88
3-1/2	3.5000	29	5	26606.06

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TAPER SHANK DRILLS

Standard Shank HSS, 118° Point



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Series HTD - Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Price Each	Import Price Each
1/16	.0625	1-1/4	4-5/8	1	—	23.78
5/64	.0781	1-3/8	4-3/4	1	—	23.78
1/8	.1250	1-7/8	5-1/8	1	32.49	8.80
9/64	.1406	2-1/8	5-3/8	1	32.49	10.06
5/32	.1562	2-1/8	5-3/8	1	32.49	9.38
11/64	.1719	2-1/2	5-3/4	1	32.49	11.27
3/16	.1875	2-1/2	5-3/4	1	22.62	9.09
13/64	.2031	2-3/4	6	1	24.16	10.06
7/32	.2188	2-3/4	6	1	24.16	10.06
15/64	.2344	2-7/8	6-1/8	1	27.61	11.84
1/4	.2500	2-7/8	6-1/8	1	25.10	10.06
17/64	.2656	3	6-1/4	1	26.69	11.27
9/32	.2812	3	6-1/4	1	26.69	11.27
19/64	.2969	3-1/8	6-3/8	1	33.07	14.36
5/16	.3125	3-1/8	6-3/8	1	26.91	10.82
21/64	.3281	3-1/4	6-1/2	1	36.24	15.86
11/32	.3438	3-1/4	6-1/2	1	39.44	16.82
23/64	.3594	3-1/2	6-3/4	1	42.00	18.51
3/8	.3750	3-1/2	6-3/4	1	42.00	17.44
25/64	.3906	3-5/8	7	1	32.39	19.09
13/32	.4062	3-5/8	7	1	42.00	18.51
27/64	.4219	3-7/8	7-1/4	1	46.41	19.77
7/16	.4375	3-7/8	7-1/4	1	46.99	19.00
29/64	.4531	4-1/8	7-1/2	1	51.04	21.99
15/32	.4688	4-1/8	7-1/2	1	53.37	23.01
31/64	.4844	4-3/8	8-1/4	2	57.73	26.20
1/2	.5000	4-3/8	8-1/4	2	55.06	23.53
33/64	.5156	4-5/8	8-1/2	2	62.88	28.52
17/32	.5312	4-5/8	8-1/2	2	61.58	27.93
35/64	.5469	4-7/8	8-3/4	2	68.47	29.97
9/16	.5625	4-7/8	8-3/4	2	67.14	28.52
37/64	.5781	4-7/8	8-3/4	2	72.70	32.29
19/32	.5938	4-7/8	8-3/4	2	71.53	31.90
39/64	.6094	4-7/8	8-3/4	2	76.01	32.48
5/8	.6250	4-7/8	8-3/4	2	74.11	31.42
41/64	.6406	5-1/8	9	2	83.79	35.81
21/32	.6562	5-1/8	9	2	81.07	34.70
43/64	.6719	5-3/8	9-1/4	2	89.91	38.52
11/16	.6875	5-3/8	9-1/4	2	85.32	35.77
45/64	.7031	5-5/8	9-1/2	2	93.64	40.02
23/32	.7188	5-5/8	9-1/2	2	90.44	40.02
47/64	.7344	5-7/8	9-3/4	2	99.47	43.98
3/4	.7500	5-7/8	9-3/4	2	99.47	42.49

TAPER SHANK DRILLS

Standard Shank HSS, 118° Point



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Series HTD - Fractional Sizes (Cont'd)

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Price Each	Import Price Each
49/64	.7656	6	9-7/8	2	119.57	51.13
25/32	.7812	6	9-7/8	2	119.57	52.20
51/64	.7969	6-1/8	10-3/4	3	123.98	55.97
13/16	.8125	6-1/8	10-3/4	3	123.04	52.53
53/64	.8281	6-1/8	10-3/4	3	136.58	61.91
27/32	.8438	6-1/8	10-3/4	3	132.21	58.58
55/64	.8594	6-1/8	10-3/4	3	141.31	64.04
7/8	.8750	6-1/8	10-3/4	3	136.58	51.62
57/64	.8906	6-1/8	10-3/4	3	144.43	61.87
29/32	.9062	6-1/8	10-3/4	3	144.43	65.44
59/64	.9219	6-1/8	10-3/4	3	146.22	66.27
15/16	.9375	6-1/8	10-3/4	3	137.16	58.39
61/64	.9531	6-3/8	11	3	150.21	64.19
31/32	.9688	6-3/8	11	3	149.17	67.57
63/64	.9844	6-3/8	11	3	159.50	71.92
1	1.0000	6-3/8	11	3	153.31	65.49
1-1/64	1.0156	6-1/2	11-1/8	3	176.41	79.94
1-1/32	1.0312	6-1/2	11-1/8	3	166.78	75.59
1-3/64	1.0469	6-5/8	11-1/4	3	185.37	84.00
1-1/16	1.0625	6-5/8	11-1/4	3	176.41	75.44
1-5/64	1.0781	6-7/8	12-1/2	4	213.79	97.00
1-3/32	1.0938	6-7/8	12-1/2	4	206.02	93.33
1-7/64	1.1094	7-1/8	12-3/4	4	222.29	100.72
1-1/8	1.1250	7-1/8	12-3/4	4	216.26	92.41
1-9/64	1.1406	7-1/4	12-7/8	4	235.62	106.72
1-5/32	1.1562	7-1/4	12-7/8	4	224.12	101.54
1-11/64	1.1719	7-3/8	13	4	238.22	107.98
1-3/16	1.1875	7-3/8	13	4	235.62	100.72
1-13/64	1.2031	7-1/2	13-1/8	4	254.96	115.52
1-7/32	1.2188	7-1/2	13-1/8	4	251.12	113.78
1-15/64	1.2344	7-7/8	13-1/2	4	278.09	124.07
1-1/4	1.2500	7-7/8	13-1/2	4	265.14	114.01
1-17/64	1.2656	8-1/2	14-1/8	4	320.60	145.29
1-9/32	1.2812	8-1/2	14-1/8	4	317.94	144.08
1-19/64	1.2969	8-5/8	14-1/4	4	341.31	154.67
1-5/16	1.3125	8-5/8	14-1/4	4	323.01	135.23
1-21/64	1.3281	8-3/4	14-3/8	4	352.89	159.89
1-11/32	1.3438	8-3/4	14-3/8	4	341.31	154.67
1-23/64	1.3594	8-7/8	14-1/2	4	360.52	163.37
1-3/8	1.3750	8-7/8	14-1/2	4	346.49	145.14
1-25/64	1.3906	9	14-5/8	4	370.76	168.01
1-13/32	1.4062	9	14-5/8	4	370.76	168.01

DRILLS

TAPER SHANK DRILLS

Standard Shank HSS, 118° Point



Series HTD - Fractional Sizes (Cont'd)

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Price Each	Import Price Each
1-27/64	1.4219	9-1/8	14-3/4	4	383.63	173.86
1-7/16	1.4375	9-1/8	14-3/4	4	374.51	155.62
1-29/64	1.4531	9-1/4	14-7/8	4	403.48	182.80
1-15/32	1.4688	9-1/4	14-7/8	4	399.41	181.01
1-31/64	1.4844	9-3/8	15	4	414.01	187.63
1-1/2	1.5000	9-3/8	15	4	398.30	167.57
1-33/64	1.5156	9-3/8	16-3/8	5	460.28	208.56
1-17/32	1.5312	9-3/8	16-3/8	5	460.28	208.56
1-35/64	1.5469	9-5/8	16-5/8	5	482.32	218.57
1-9/16	1.5625	9-5/8	16-5/8	5	482.32	208.08
1-37/64	1.5781	9-7/8	16-7/8	5	520.98	236.06
1-19/32	1.5938	9-7/8	16-7/8	5	520.98	236.06
1-39/64	1.6094	10	17	5	520.98	236.06
1-5/8	1.6250	10	17	5	520.98	228.96
1-41/64	1.6406	10-1/8	17-1/8	5	520.98	253.84
1-21/32	1.6562	10-1/8	17-1/8	5	560.17	253.84
1-43/64	1.6719	10-1/8	17-1/8	5	595.00	260.22
1-11/16	1.6875	10-1/8	17-1/8	5	574.27	247.80
1-45/64	1.7031	10-1/8	17-1/8	5	639.11	273.09
1-23/32	1.7188	10-1/8	17-1/8	5	602.62	273.09
1-47/64	1.7344	10-1/8	17-1/8	5	661.39	278.69
1-3/4	1.7500	10-1/8	17-1/8	5	614.99	265.40
1-49/64	1.7656	10-1/8	17-1/8	5	661.11	284.29
1-25/32	1.7812	10-1/8	17-1/8	5	638.87	289.52
1-51/64	1.7969	10-1/8	17-1/8	5	662.17	327.78
1-13/16	1.8125	10-1/8	17-1/8	5	655.46	282.90
1-53/64	1.8281	10-1/8	17-1/8	5	716.94	339.44
1-27/32	1.8438	10-1/8	17-1/8	5	684.49	310.16
1-55/64	1.8594	10-3/8	17-3/8	5	716.94	344.50
1-7/8	1.8750	10-3/8	17-3/8	5	685.90	296.11
1-57/64	1.8906	10-3/8	17-3/8	5	750.56	347.72
1-29/32	1.9062	10-3/8	17-3/8	5	716.11	324.32
1-59/64	1.9219	10-3/8	17-3/8	5	772.78	356.61
1-15/16	1.9375	10-3/8	17-3/8	5	737.90	334.36
1-61/64	1.9531	10-3/8	17-3/8	5	780.28	380.00
1-31/32	1.9688	10-3/8	17-3/8	5	754.07	341.67
1-63/64	1.9844	10-3/8	17-3/8	5	805.94	391.39
2	2.0000	10-3/8	17-3/8	5	766.39	330.21
2-1/64	2.0156	10-3/8	17-3/8	5	883.89	394.72
2-1/32	2.0312	10-3/8	17-3/8	5	804.79	364.68
2-3/64	2.0469	10-1/4	17-3/8	5	888.06	394.72
2-1/16	2.0625	10-1/4	17-3/8	5	811.01	350.12

TAPER SHANK DRILLS

Standard Shank HSS, 118° Point



CutTek
CUTTING TOOLS



DRILLS

Series HTD - Fractional Sizes (Cont'd)

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Price Each	Import Price Each
2-3/32	2.0938	10-1/4	17-3/8	5	858.00	388.60
2-1/8	2.1250	10-1/4	17-3/8	5	858.00	370.28
2-5/32	2.1562	10-1/4	17-3/8	5	858.00	414.60
2-3/16	2.1875	10-1/4	17-3/8	5	931.01	401.84
2-7/32	2.2188	10-1/8	17-3/8	5	964.76	437.12
2-1/4	2.2500	10-1/8	17-3/8	5	972.04	419.58
2-9/32	2.2812	10-1/8	17-3/8	5	1150.00	470.23
2-5/16	2.3125	10-1/8	17-3/8	5	1037.72	470.23
2-11/32	2.3438	10-1/8	17-3/8	5	1250.00	447.81
2-3/8	2.3750	10-1/8	17-3/8	5	1078.38	488.66
2-13/32	2.4062	11-1/4	18-3/4	5	1500.00	465.40
2-7/16	2.4375	11-1/4	18-3/4	5	1361.97	587.78
2-15/32	2.4688	11-1/4	18-3/4	5	1500.00	587.78
2-1/2	2.5000	11-1/4	18-3/4	5	1406.02	587.78
2-17/32	2.5312	11-7/8	19-1/2	5	1583.33	606.82
2-9/16	2.5625	11-7/8	19-1/2	5	1535.29	606.82
2-19/32	2.5938	11-7/8	19-1/2	5	1694.44	662.66
2-5/8	2.6250	11-7/8	19-1/2	5	1646.80	710.89
2-21/32	2.6562	12-3/4	20-3/8	5	1772.22	802.23
2-11/16	2.6875	12-3/4	20-3/8	5	1770.50	802.23
2-23/32	2.7188	12-3/4	20-3/8	5	2013.33	802.23
2-3/4	2.7500	12-3/4	20-3/8	5	1832.48	790.88
2-25/32	2.7812	13-3/8	21-1/8	5	2027.78	903.20
2-13/16	2.8125	13-3/8	21-1/8	5	1993.33	860.29
2-27/32	2.8438	13-3/8	21-1/8	5	2361.11	964.12
2-7/8	2.8750	13-3/8	21-1/8	5	2104.92	907.90
2-29/32	2.9062	13-3/8	21-1/8	5	2388.89	994.72
2-15/16	2.9375	14	21-3/4	5	2216.48	956.61
2-31/32	2.9688	14	21-3/4	5	2388.89	999.94
3	3.0000	14	21-3/4	5	2315.28	999.94
3-1/16	3.0625	14-5/8	24-1/2	6	3450.00	1171.93
3-1/8	3.1250	14-5/8	24-1/2	6	2897.28	1250.39
3-3/16	3.1875	14-5/8	24-1/2	6	3450.00	1374.64
3-1/4	3.2500	15-1/2	25-1/2	6	3305.83	1426.76
3-5/16	3.3125	15-1/2	25-1/2	6	3305.83	1555.47
3-3/8	3.3750	15-1/2	25-1/2	6	—	1646.04
3-7/16	3.4375	15-1/2	25-1/2	6	—	1776.83
3-1/2	3.5000	16-3/8	26-1/2	6	—	1859.14
3-5/8	3.6250	16-3/8	26-1/2	6	—	2175.58
3-3/4	3.7500	16-3/8	26-1/2	6	—	2361.86
3-7/8	3.8750	16-3/8	26-1/2	6	—	2747.22
4	4.0000	17-1/2	27-1/2	6	—	2969.89

TAPER SHANK DRILLS

Standard Shank HSS, 118° Point

Quality Imports



Series HTD - Letter Sizes

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each
A	.2340	2-7/8	6-1/8	1	55.50
B	.2380	2-7/8	6-1/8	1	55.50
C	.2420	2-7/8	6-1/8	1	55.50
D	.2460	2-7/8	6-1/8	1	50.56
E	.2500	2-7/8	6-1/8	1	50.56
F	.2570	3	6-1/4	1	50.56
G	.2610	3	6-1/4	1	58.33
H	.2660	3	6-1/4	1	58.33
I	.2720	3	6-1/4	1	58.33
J	.2770	3	6-1/4	1	57.22
K	.2810	3	6-1/4	1	57.22
L	.2900	3-1/8	6-3/8	1	59.44
M	.2950	3-1/8	6-3/8	1	59.44
N	.3020	3-1/8	6-3/8	1	62.78
O	.3160	3-1/4	6-1/2	1	62.78
P	.3230	3-1/4	6-1/2	1	68.33
Q	.3320	3-1/4	6-1/2	1	68.33
R	.3390	3-1/4	6-1/2	1	68.33
S	.3480	3-1/2	6-3/4	1	72.22
T	.3580	3-1/2	6-3/4	1	72.22
U	.3680	3-1/2	6-3/4	1	72.22
V	.3770	3-5/8	7	1	75.00
W	.3860	3-5/8	7	1	75.00
X	.3970	3-5/8	7	1	75.00
Y	.4040	3-5/8	7	1	83.61
Z	.4130	3-7/8	7-1/4	1	83.61

Series HTD - Wire Gauge Sizes

Size	Decimal Equiv.	Import Price Each
1	.2280	26.67
2	.2210	26.67
3	.2130	26.67
4	.2090	26.67
5	.2055	26.67
6	.2040	26.67
7	.2010	25.44
8	.1990	25.44
9	.1960	25.44
10	.1935	25.44
11	.1910	25.44
12	.1890	25.44
13	.1850	25.44
14	.1820	25.44
15	.1800	25.44
16	.1770	25.44
17	.1730	25.44
18	.1695	25.44
19	.1660	25.44
20	.1610	23.89
21	.1590	23.89
22	.1570	23.89
23	.1540	23.89
24	.1520	23.89
25	.1495	23.89
26	.1470	23.89
27	.1440	23.89
28	.1405	23.89
29	.1360	23.89
30	.1285	23.89
31	.1200	23.89
37	.1040	23.89
39	.0995	23.89
40	.0980	23.89
44	.0860	23.89
47	.0785	23.89

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TAPER SHANK DRILLS

Larger Than Standard Shank HSS, 118° Point

Quality Imports



Series LHTD - Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each
21/64	.3281	3-1/2	7-3/8	2	30.61
23/64	.3594	3-1/2	7-3/8	2	35.44
3/8	.3750	3-1/2	7-3/8	2	34.98
25/64	.3906	3-5/8	7-1/2	2	38.49
13/32	.4062	3-5/8	7-1/2	2	36.43
27/64	.4219	3-7/8	7-3/4	2	38.52
7/16	.4375	3-7/8	7-3/4	2	41.87
29/64	.4531	4-1/8	8	2	41.88
15/32	.4688	4-1/8	8	2	41.66
41/64	.6406	5-1/8	9-3/4	3	73.43
21/32	.6562	5-1/8	9-3/4	3	70.38
43/64	.6719	5-3/8	10	3	78.81
11/16	.6875	5-3/8	10	3	77.17
45/64	.7031	5-5/8	10-1/4	3	85.29
23/32	.7188	5-5/8	10-1/4	3	82.74
47/64	.7344	5-7/8	10-1/2	3	92.31
3/4	.7500	5-7/8	10-1/2	3	86.66
49/64	.7656	6	10-5/8	3	102.66
25/32	.7812	6	10-5/8	3	95.27
1	1.0000	6-3/8	12	4	138.79
1-1/32	1.0312	6-1/2	12-1/8	4	156.42
1-1/16	1.0625	6-5/8	12-1/4	4	163.44



TAPER SHANK DRILLS

Smaller Than Standard Shank HSS, 118° Point

Quality Imports



Series SHTD - Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each
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31/64	.4844	4-3/8	7-3/4	1	44.04
1/2	.5000	4-3/8	7-3/4	1	38.46
33/64	.5156	4-5/8	8	1	48.31
17/32	.5312	4-5/8	8	1	44.37
35/64	.5469	4-7/8	8-1/4	1	51.62
9/16	.5625	4-7/8	8-1/4	1	48.43
37/64	.5781	4-7/8	8-1/4	1	54.72
21/32	.6562	5-1/8	9-3/4	1	59.94
51/64	.7969	6-1/8	10	2	94.48
13/16	.8125	6-1/8	10	2	86.34
53/64	.8281	6-1/8	10	2	100.59
27/32	.8438	6-1/8	10	2	92.36
55/64	.8594	6-1/8	10	2	104.91
7/8	.8750	6-1/8	10	2	94.90
57/64	.8906	6-1/8	10	2	108.18
29/32	.9062	6-1/8	10	2	99.32
1	1.0000	6-1/4	10-1/8	2	106.11
1-5/64	1.0781	6-7/8	11-1/2	3	167.39
1-3/32	1.0938	6-7/8	11-1/2	3	150.86
1-7/64	1.1094	7-1/8	11-3/4	3	169.81
1-1/8	1.1250	7-1/8	11-3/4	3	156.72
1-9/64	1.1406	7-1/4	11-7/8	3	180.53
1-5/32	1.1562	7-1/4	11-7/8	3	170.72
1-11/64	1.1719	7-3/8	12	3	186.41
1-3/16	1.1875	7-3/8	12	3	174.17
1-13/64	1.2031	7-1/2	12-1/8	3	200.03
1-7/32	1.2188	7-1/2	12-1/8	3	187.06
1-15/64	1.2344	7-7/8	12-1/2	3	218.03
1-1/4	1.2500	7-7/8	12-1/2	3	205.31
1-9/32	1.2812	8-1/2	13-1/8	3	250.89
1-5/16	1.3125	8-5/8	13-1/4	3	254.11
1-11/32	1.3438	8-3/4	13-3/8	3	266.56
1-3/8	1.3750	8-7/8	13-1/2	3	267.63
1-13/32	1.4062	9	13-5/8	3	295.21
1-7/16	1.4375	9-1/8	13-3/4	3	295.21
1-15/32	1.4688	9-1/4	13-7/8	3	322.58
1-1/2	1.5000	9-3/8	14	3	310.56
1-33/64	1.5156	9-3/8	15	4	351.20
1-17/32	1.5312	9-3/8	15	4	328.34
1-35/64	1.5469	9-5/8	15-1/4	4	373.66
1-9/16	1.5625	9-5/8	15-1/4	4	351.36
1-37/64	1.5781	9-7/8	15-1/2	4	397.08
1-19/32	1.5938	9-7/8	15-1/2	4	375.53
1-39/64	1.6094	10	15-5/8	4	412.37
1-5/8	1.6250	10	15-5/8	4	384.04
1-41/64	1.6406	10-1/8	15-3/4	4	444.52
1-21/32	1.6562	10-1/8	15-3/4	4	430.26
1-43/64	1.6719	10-1/8	15-3/4	4	461.42
1-11/16	1.6875	10-1/8	15-3/4	4	430.56
1-45/64	1.7031	10-1/8	15-3/4	4	475.24

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each
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1-23/32	1.7188	10-1/8	15-3/4	4	440.46
1-47/64	1.7344	10-3/8	16-1/4	4	458.44
1-3/4	1.7500	10-3/8	16-1/4	4	417.84
1-49/64	1.7656	10-3/8	16-1/4	4	477.78
1-25/32	1.7812	10-3/8	16-1/4	4	460.74
1-51/64	1.7969	10-3/8	16-1/4	4	480.56
1-13/16	1.8125	10-3/8	16-1/4	4	460.74
1-53/64	1.8281	10-3/8	16-1/4	4	517.44
1-27/32	1.8438	10-3/8	16-1/4	4	490.94
1-55/64	1.8594	10-1/2	16-1/2	4	533.22
1-7/8	1.8750	10-1/2	16-1/2	4	488.20
1-57/64	1.8906	10-1/2	16-1/2	4	550.18
1-29/32	1.9062	10-1/2	16-1/2	4	527.77
1-59/64	1.9219	10-5/8	16-5/8	4	550.44
1-15/16	1.9375	10-5/8	16-5/8	4	520.79
1-61/64	1.9531	10-5/8	16-5/8	4	555.47
1-31/32	1.9688	10-5/8	16-5/8	4	536.94
1-63/64	1.9844	10-5/8	16-5/8	4	563.62
2	2.0000	10-5/8	16-5/8	4	523.12
2-1/32	2.0312	10-3/8	16-1/4	4	555.50
2-1/16	2.0625	10-1/4	16-1/4	4	555.50
2-3/32	2.0938	10-1/4	16-1/4	4	604.58
2-1/8	2.1250	10-1/4	16-1/4	4	604.58
2-5/32	2.1562	10-1/4	16-1/4	4	643.54
2-3/16	2.1875	10-1/4	16-1/4	4	643.54
2-7/32	2.2188	10-1/8	16-1/8	4	677.89
2-1/4	2.2500	10-1/8	16-1/8	4	677.89
2-9/32	2.2812	10-1/8	16-1/8	4	694.91
2-5/16	2.3125	10-1/8	16-1/8	4	732.71
2-11/32	2.3438	10-1/8	16-1/8	4	704.64
2-3/8	2.3750	10-1/8	16-1/8	4	744.67
2-13/32	2.4062	11-1/4	17-1/4	4	917.78
2-7/16	2.4375	11-1/4	17-1/4	4	944.40
2-15/32	2.4688	11-1/4	17-1/4	4	939.29
2-1/2	2.5000	11-1/4	17-1/4	4	971.36
2-5/8	2.6250	11-7/8	18	4	1141.36
2-3/4	2.7500	12-3/4	19-1/8	4	1284.29
3-1/16	3.0625	14-1/4	22	5	2103.33
3-1/8	3.1250	14-1/4	22	5	2218.89
3-3/16	3.1875	14-1/4	22	5	2218.89
3-1/4	3.2500	15-1/4	23	5	2218.89
3-5/16	3.3125	15-1/4	23	5	2592.22
3-3/8	3.3750	15-1/4	23	5	2740.00
3-7/16	3.4375	15-1/4	23	5	2947.78
3-1/2	3.5000	16-1/4	24	5	3184.44
3-5/8	3.6250	16-1/4	24	5	3555.56
3-3/4	3.7500	16-1/4	24	5	4155.56
3-7/8	3.8750	16-1/4	24	5	4611.11
4	4.0000	16-1/2	24-1/4	5	4911.11

TAPER SHANK DRILLS

Metric HSS

Quality Imports



Series MTD - Millimeter Sizes

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each
3.00	.1181	1-7/8	5-1/8	1	20.18
3.20	.1260	1-7/8	5-1/8	1	21.11
3.50	.1378	2-1/8	5-3/8	1	20.18
3.80	.1496	2-1/8	5-3/8	1	21.11
4.00	.1575	2-1/8	5-3/8	1	20.18
4.20	.1654	2-1/2	5-3/4	1	21.11
4.50	.1772	2-1/2	5-3/4	1	16.51
4.80	.1890	2-1/2	5-3/4	1	16.51
5.00	.1969	2-3/4	6	1	16.47
5.20	.2047	2-3/4	6	1	16.51
5.50	.2165	2-3/4	6	1	16.47
5.80	.2283	2-7/8	6-1/8	1	17.18
6.00	.2362	2-7/8	6-1/8	1	17.18
6.20	.2441	2-7/8	6-1/8	1	18.23
6.50	.2559	3	6-1/4	1	18.23
6.80	.2677	3	6-1/4	1	19.06
7.00	.2756	3	6-1/4	1	18.22
7.20	.2835	3-1/8	6-3/8	1	19.22
7.50	.2953	3-1/8	6-3/8	1	18.22
7.80	.3071	3-1/8	6-3/8	1	20.22
8.00	.3150	3-1/4	6-1/2	1	24.76
8.20	.3228	3-1/4	6-1/2	1	26.22
8.50	.3346	3-1/4	6-1/2	1	26.20
8.80	.3465	3-1/2	6-3/4	1	29.44
9.00	.3543	3-1/2	6-3/4	1	28.67
9.20	.3622	3-1/2	6-3/4	1	28.71
9.50	.3740	3-1/2	6-3/4	1	28.71
9.80	.3858	3-5/8	7	1	28.71
10.00	.3937	3-5/8	7	1	28.71
10.20	.4016	3-5/8	7	1	29.50
10.50	.4134	3-7/8	7-1/4	1	31.72
10.80	.4252	3-7/8	7-1/4	1	32.13

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each
11.00	.4331	3-7/8	7-1/4	1	32.00
11.20	.4409	4-1/8	7-1/2	1	34.90
11.50	.4528	4-1/8	7-1/2	1	34.89
11.80	.4646	4-1/8	7-1/2	1	37.66
12.00	.4724	4-3/8	8-1/4	2	37.56
12.20	.4803	4-3/8	8-1/4	2	42.96
12.50	.4921	4-3/8	8-1/4	2	37.56
12.80	.5039	4-5/8	8-1/2	2	44.06
13.00	.5118	4-5/8	8-1/2	2	42.00
13.20	.5197	4-5/8	8-1/2	2	45.92
13.50	.5315	4-5/8	8-1/2	2	45.87
13.80	.5433	4-7/8	8-3/4	2	48.00
14.00	.5512	4-7/8	8-3/4	2	43.78
14.25	.5610	4-7/8	8-3/4	2	50.22
14.50	.5709	4-7/8	8-3/4	2	48.89
14.75	.5807	4-7/8	8-3/4	2	55.84
15.00	.5906	4-7/8	8-3/4	2	47.56
15.25	.6004	4-7/8	8-3/4	2	52.51
15.50	.6102	4-7/8	8-3/4	2	50.11
15.75	.6201	4-7/8	8-3/4	2	52.44
16.00	.6299	5-1/8	9	2	53.82
16.25	.6398	5-1/8	9	2	63.28
16.50	.6496	5-1/8	9	2	55.39
16.75	.6594	5-3/8	9-1/4	2	66.56
17.00	.6693	5-3/8	9-1/4	2	55.64
17.25	.6791	5-3/8	9-1/4	2	66.50
17.50	.6890	5-5/8	9-1/2	2	59.00
18.00	.7087	5-5/8	9-1/2	2	59.00
18.50	.7283	5-5/8	9-1/2	2	67.94
19.00	.7480	5-7/8	9-3/4	2	66.11
19.50	.7677	6	9-7/8	2	81.24
20.00	.7874	6	9-7/8	3	81.82

**See
cutting fluids
pg. 118**



TAPER SHANK DRILLS

Metric HSS

Quality Imports



Series MTD - Millimeter Sizes (Cont'd)

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each
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20.50	.8071	6-1/8	10-3/4	3	90.40
21.00	.8268	6-1/8	10-3/4	3	90.81
21.50	.8465	6-1/8	10-3/4	3	100.33
22.00	.8661	6-1/8	10-3/4	3	90.81
22.50	.8858	6-1/8	10-3/4	3	98.00
23.00	.9055	6-1/8	10-3/4	3	91.17
23.50	.9252	6-1/8	10-3/4	3	100.76
24.00	.9449	6-3/8	11	3	99.16
24.50	.9646	6-3/8	11	3	109.51
25.00	.9843	6-3/8	11	3	106.06
25.50	1.0039	6-1/2	11-1/8	3	122.53
26.00	1.0236	6-1/2	11-1/8	3	110.89
26.50	1.0433	6-5/8	11-1/4	3	138.67
27.00	1.0630	6-5/8	11-1/4	3	137.00
27.50	1.0827	6-7/8	12-1/2	4	154.11
28.00	1.1024	7-1/8	12-3/4	4	143.81
28.50	1.1220	7-1/8	12-3/4	4	168.83
29.00	1.1417	7-1/4	12-7/8	4	149.00
29.50	1.1614	7-3/8	13	4	183.92
30.00	1.1811	7-3/8	13	4	156.67
30.50	1.2008	7-1/2	13-1/8	4	199.00
31.00	1.2205	7-7/8	13-1/2	4	181.27
31.50	1.2402	7-7/8	13-1/2	4	206.98
32.00	1.2598	8-1/2	14-1/8	4	211.44
32.50	1.2795	8-1/2	14-1/8	4	250.61
33.00	1.2992	8-5/8	14-1/4	4	216.89
33.50	1.3189	8-3/4	14-3/8	4	269.06
34.00	1.3386	8-3/4	14-3/8	4	235.56
34.50	1.3583	8-7/8	14-1/2	4	284.17
35.00	1.3780	9 8	14-5/8	4	255.93
35.50	1.3976	9 8	14-5/8	4	292.22
36.00	1.4173	9-1/8	14-3/4	4	258.56

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each
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36.50	1.4370	9-1/8	14-3/4	4	295.22
37.00	1.4567	9-1/4	14-7/8	4	274.94
37.50	1.4764	9-3/8	15	4	313.94
38.00	1.4961	9-3/8	15	4	274.94
38.50	1.5157	9-5/8	16-5/8	5	363.27
39.00	1.5354	9-5/8	16-5/8	5	363.27
39.50	1.5551	9-7/8	16-7/8	5	363.27
40.00	1.5748	9-7/8	16-7/8	5	363.27
41.00	1.6142	10 8	17	5	392.33
41.50	1.6338	10-1/8	17-1/8	5	421.93
42.00	1.6535	10-1/8	17-1/8	5	421.89
42.50	1.6732	10-1/8	17-1/8	5	453.87
43.00	1.6929	10-1/8	17-1/8	5	453.87
43.50	1.7125	10-1/8	17-1/8	5	463.18
44.00	1.7323	10-1/8	17-1/8	5	463.18
44.50	1.7519	10-1/8	17-1/8	5	481.19
45.00	1.7717	10-1/8	17-1/8	5	481.17
46.00	1.8110	10-1/8	17-1/8	5	500.00
47.00	1.8504	10-3/8	17-3/8	5	516.56
48.00	1.8898	10-3/8	17-3/8	5	539.00
49.00	1.9291	10-3/8	17-3/8	5	555.72
50.00	1.9685	10-3/8	17-3/8	5	520.61
51.00	2.0079	10-3/8	17-3/8	5	606.11
55.00	2.1653	10-3/8	17-3/8	5	733.39
57.00	2.2441	10-3/8	17-3/8	5	766.67
59.00	2.3228	10-3/8	17-3/8	5	823.72
60.00	2.3622	11-7/8	19-1/2	5	1166.76
65.00	2.5591	11-7/8	19-1/2	5	1166.76
66.00	2.5984	11-7/8	19-1/2	5	1221.24
69.00	2.7165	12-3/4	20-3/8	5	1466.89
70.00	2.7559	13-3/8	21-1/8	5	1550.08
72.00	2.8346	13-3/8	21-1/8	5	1610.28

TAPER SHANK DRILLS

Cobalt, Heavy Duty



Series CTD - Fractional Sizes

Size	Flute Length	OAL	Morse Taper No.	Price Each	Size	Flute Length	OAL	Morse Taper No.	Price Each
1/4	2-7/8	6-1/8	1	29.98	15/16	6-1/8	10-3/4	3	165.50
17/64	3	6-1/4	1	31.86	61/64	6-3/8	11	3	207.39
9/32	3	6-1/4	1	33.70	31/32	6-3/8	11	3	196.28
19/64	3-1/8	6-3/8	1	31.86	63/64	6-3/8	11	3	201.70
5/16	3-1/8	6-3/8	1	33.70	1	6-3/8	11	3	187.29
21/64	3-1/4	6-1/2	1	37.36	1-1/64	6-1/2	12-1/8	4	272.68
11/32	3-1/4	6-1/2	1	39.56	1-1/32	6-1/2	12-1/8	4	251.33
23/64	3-1/2	6-3/4	1	43.33	1-3/64	6-5/8	12-1/4	4	247.90
3/8	3-1/2	6-3/4	1*	45.78	1-1/16	6-5/8	12-1/4	4	239.94
3/8	3-1/2	7-3/8	2	45.78	1-5/64	6-7/8	12-1/2	4	271.31
25/64	3-5/8	7-1/2	2	47.17	1-3/32	6-7/8	12-1/2	4	274.81
13/32	3-5/8	7-1/2	2	48.58	1-7/64	7-1/8	12-3/4	4	290.29
27/64	3-7/8	7-3/4	2	55.94	1-1/8	7-1/8	12-3/4	4	262.61
7/16	3-7/8	7-3/4	2	52.44	1-9/64	7-1/4	12-7/8	4	338.34
29/64	4-1/8	8	2	60.00	1-5/32	7-1/4	12-7/8	4	311.84
15/32	4-1/8	8	2	56.23	1-11/64	7-3/8	13	4	338.37
31/64	4-3/8	8-1/4	2	62.00	1-3/16	7-3/8	12	3*	297.68
1/2	4-3/8	8-1/4	2	58.11	1-3/16	7-3/8	13	4	297.68
33/64	4-5/8	8-1/2	2	71.06	1-13/64	7-1/2	13-1/8	4	350.52
17/32	4-5/8	8-1/2	2	66.00	1-7/32	7-1/2	13-1/8	4	355.36
35/64	4-7/8	8-3/4	2	74.33	1-15/64	7-7/8	13-1/2	4	385.56
9/16	4-7/8	8-3/4	2	69.02	1-1/4	7-7/8	13-1/2	4	345.69
37/64	4-7/8	8-3/4	2	78.89	1-17/64	8-1/2	14-1/8	4	414.44
19/32	4-7/8	8-3/4	2	76.77	1-9/32	8-1/2	14-1/8	4	414.44
39/64	4-7/8	8-3/4	2	86.94	1-19/64	8-5/8	14-1/4	4	451.70
5/8	4-7/8	8-3/4	2	78.52	1-5/16	8-5/8	14-1/4	4*	414.44
41/64	5-1/8	9-3/4	3	99.44	1-5/16	8-5/8	15-7/8	5	414.44
21/32	5-1/8	9-3/4	3	89.84	1-21/64	8-3/4	14-3/8	4	445.56
43/64	5-3/8	10	3	106.23	1-11/32	8-3/4	14-3/8	4	445.56
11/16	5-3/8	10	3	96.00	1-23/64	8-7/8	14-1/2	4	484.56
45/64	5-5/8	10-1/4	3	115.87	1-3/8	8-7/8	14-1/2	4*	445.56
23/32	5-5/8	10-1/4	3	106.67	1-3/8	8-7/8	15-7/8	5	445.56
47/64	5-7/8	10-1/2	3	117.61	1-25/64	9	14-5/8	4	480.00
3/4	5-7/8	10-1/2	3	111.29	1-13/32	9	14-5/8	4	505.56
49/64	6	10-5/8	3	126.03	1-27/64	9-1/8	14-3/4	4	571.42
25/32	6	9-7/8	2*	117.06	1-7/16	9-1/8	14-3/4	4*	526.68
25/32	6	10-5/8	3	117.06	1-7/16	9-1/8	16-1/8	5	526.68
51/64	6-1/8	10-3/4	3	133.78	1-29/64	9-1/4	14-7/8	4	576.67
13/16	6-1/8	10	2*	120.83	1-15/32	9-1/4	14-7/8	4	565.64
13/16	6-1/8	10-3/4	3	120.83	1-31/64	9-3/8	15	4	613.56
53/64	6-1/8	10-3/4	3	155.83	1-1/2	9-3/8	15	4*	565.56
27/32	6-1/8	10-3/4	3	143.50	1-1/2	9-3/8	16-3/8	5	565.56
55/64	6-1/8	10-3/4	3	155.82	1-5/8	10	17	5	665.56
7/8	6-1/8	10-3/4	3	143.50	1-3/4	10-1/8	17-1/8	5	833.33
57/64	6-1/8	10-3/4	3	155.82	1-13/16	10-1/8	17-1/8	5	900.00
29/32	6-1/8	10-3/4	3	140.79	2	10-3/8	17-3/8	5	1016.67
59/64	6-1/8	10-3/4	3	183.22					

* Shank Smaller Than Standard

CORE DRILLS

Straight Shank HSS

Quality Imports



1/2" Shank also available for drill sizes over 1/2"

Series TLCD-3 - Three Flute

Size	Decimal Equiv.	Flute Length	OAL	Import Price Each
1/4	.2500	3-3/4	6-1/8	39.66
17/64	.2656	3-7/8	6-1/4	42.36
9/32	.2812	3-7/8	6-1/4	41.91
5/16	.3125	4	6-3/8	42.56
11/32	.3438	4-1/8	6-1/2	45.39
23/64	.3594	4-1/4	6-3/4	49.89
3/8	.3750	4-1/4	6-3/4	46.67
13/32	.4062	4-3/8	7	53.56
7/16	.4375	4-5/8	7-1/4	51.28
15/32	.4688	4-3/4	7-1/2	60.00
31/64	.4844	4-3/4	7-3/4	66.91
1/2	.5000	4-3/4	7-3/4	60.78
17/32	.5312	4-3/4	8	72.72
9/16	.5625	4-7/8	8-1/4	71.94
19/32	.5938	4-7/8	8-3/4	82.56
5/8	.6250	4-7/8	8-3/4	88.67
21/32	.6562	5-1/8	9	90.56
11/16	.6875	5-3/8	9-1/4	98.64
23/32	.7188	5-5/8	9-1/2	108.33
3/4	.7500	5-7/8	9-3/4	111.89
25/32	.7812	6	9-7/8	121.96
7/8	.8750	6-1/8	10	132.93
29/32	.9062	6-1/8	10	144.90
31/32	.9688	6-3/8	11	152.78
1-7/16	1.4375	9-1/8	14-3/4	157.94
1-9/16	1.5625	9-5/8	15-1/4	577.78
1-5/8	1.6250	9-7/8	15-5/8	604.17
1-13/16	1.8125	10-1/2	16-1/4	752.89
1-27/32	1.8438	10-3/4	16-1/2	806.20

Series TLCD-4 - Four Flute

Size	Decimal Equiv.	Flute Length	OAL	Import Price Each
15/64	.2344	3-3/4	6-1/8	39.63
1/4	.2500	3-3/4	6-1/8	47.86
17/64	.2656	3-7/8	6-1/4	42.00
9/32	.2812	3-7/8	6-1/4	47.86
5/16	.3125	4	6-3/8	47.86
21/64	.3281	4-1/8	6-1/2	49.44
11/32	.3438	4-1/8	6-1/2	47.86
23/64	.3594	4-1/4	6-3/4	51.11
3/8	.3750	4-1/4	6-3/4	47.86
13/32	.4062	4-3/8	7	55.01
27/64	.4219	4-5/8	7-1/4	54.22
7/16	.4375	4-5/8	7-1/4	55.01
29/64	.4531	4-3/4	7-1/2	58.09
15/32	.4688	4-3/4	7-1/2	61.30
1/2	.5000	4-3/4	7-3/4	61.30
33/64	.5156	4-3/4	8	63.66
17/32	.5312	4-3/4	8	66.07
9/16*	.5625	4-7/8	8-1/4	72.86
19/32	.5938	4-7/8	8-3/4	82.14
5/8	.6250	4-7/8	8-3/4	84.16
41/64	.6406	5-1/8	9	90.44
21/32	.6562	5-1/8	9	93.20
11/16	.6875	5-3/8	9-1/4	99.98
23/32	.7188	5-5/8	9-1/2	109.28
3/4	.7500	5-7/8	9-3/4	115.81
49/64	.7656	6	9-7/8	121.67
25/32	.7812	6	9-7/8	120.33
13/16	.8125	6-1/8	10	127.37
27/32	.8438	6-1/8	10	136.16
7/8	.8750	6-1/8	10	143.44
57/64	.8906	6-1/8	10	144.89
29/32	.9062	6-1/8	10	149.98
15/16	.9375	6-1/8	10-3/4	168.07
31/32	.9688	6-3/8	11	183.89
1	1.0000	6-3/8	11	192.93
1-1/32	1.0312	6-1/2	11-1/8	249.89
1-1/16	1.0625	6-5/8	11-1/4	252.78
1-3/32	1.0938	6-7/8	11-1/2	256.04
1-1/8	1.1250	7-1/8	11-3/4	261.89
1-9/64	1.1406	7-1/4	11-7/8	267.28
1-5/32	1.1562	7-1/4	11-7/8	276.62
1-3/16	1.1875	7-3/8	12	287.44
1-7/32	1.2188	7-1/2	12-1/8	298.27
1-1/4	1.2500	7-7/8	12-1/2	308.33
1-9/32	1.2812	8-1/2	14-1/8	358.33
1-5/16	1.3125	8-5/8	14-1/4	378.44
1-11/32	1.3438	8-3/4	14-3/8	389.67
1-3/8	1.3750	8-7/8	14-1/2	400.24
1-13/32	1.4062	9 8	14-5/8	409.44
1-7/16	1.4375	9-1/8	14-3/4	426.67
1-15/32	1.4688	9-1/4	14-7/8	444.00
1-1/2	1.5000	9-3/8	15	467.22
1-9/16	1.5625	9-5/8	15-1/4	547.96
1-5/8	1.6250	9-7/8	15-5/8	608.33
1-11/16	1.6875	10-1/8	16	700.00
1-3/4	1.7500	10-1/2	16-1/4	733.46
1-49/64	1.7656	10-1/2	16-1/4	811.11
1-13/16	1.1875	10-1/2	16-1/4	802.22
1-7/8	1.8750	10-5/8	16-1/4	794.94
1-15/16	1.9375	10-3/4	16-5/8	844.67
2	2.0000	10-3/4	17-1/4	888.06

**Call for special
sizes not
shown in catalog**

CORE DRILLS

Taper Shank HSS

Quality Imports

Special Sizes Also Available



Series TSCD-3 — Three Flute

Series TSCD-4 — Four Flute

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each	
					Three Flute	Four Flute
5/16	.3125	3-1/8	6-3/8	1	50.00	—
11/32	.3438	3-1/4	6-1/2	1	54.44	—
3/8	.3750	3-1/2	6-3/4	1	60.22	60.22
25/64	.3906	3-5/8	7	1	66.04	—
13/32	.4062	3-5/8	7	1	66.04	66.04
7/16	.4375	3-7/8	7-1/4	1	69.01	69.01
15/32	.4688	4-1/8	7-1/2	1	72.33	72.33
31/64	.4844	4-3/8	8-1/4	2	75.33	75.33
1/2	.5000	4-3/8	8-1/4	2	59.22	59.22
33/64	.5156	4-5/8	8-1/2	2	—	66.11
17/32	.5312	4-5/8	8-1/2	2	62.22	62.22
35/64	.5469	4-7/8	8-3/4	2	—	83.52
9/16	.5625	4-7/8	8-3/4	2	66.94	66.94
37/64	.5781	4-7/8	8-3/4	2	75.00	—
19/32	.5938	4-7/8	8-3/4	2	75.00	73.61
5/8	.6250	4-7/8	8-3/4	2	78.11	75.78
41/64	.6406	5-1/8	9	2	—	98.44
21/32	.6562	5-1/8	9	2	83.67	83.33
11/16	.6875	5-3/8	9-1/4	2	91.11	85.11
45/64	.7031	5-5/8	9-1/2	2	—	110.29
23/32	.7188	5-5/8	9-1/2	2	96.83	96.33
47/64	.7344	5-5/8	9-1/2	2	—	112.44
3/4	.7500	5-7/8	9-3/4	2	103.47	98.11
49/64	.7656	6	9-7/8	2	—	122.51
25/32	.7812	6	9-7/8	2	107.33	107.33
51/64	.7969	6-1/8	10-3/4	3	—	133.52
13/16	.8125	6-1/8	10-3/4	3	126.39	125.44
27/32	.8438	6-1/8	10-3/4	3	132.21	132.21
55/64	.8594	6-1/8	10-3/4	3	—	144.30
7/8	.8750	6-1/8	10-3/4	3	135.94	133.11
29/32	.9062	6-1/8	10-3/4	3	143.44	143.44
59/64	.9219	6-1/8	10-3/4	3	—	155.00
15/16	.9375	6-1/8	10-3/4	3	143.44	143.44
61/64	.9531	6-3/8	11	3	—	177.78
31/32	.9688	6-3/8	11	3	166.00	166.00
63/64	.9844	6-3/8	11	3	—	183.33
1	1.0000	6-3/8	11	3	170.87	166.00
1-1/64	1.0156	6-1/2	11-1/8	3	199.89	199.89
1-1/32	1.0312	6-1/2	11-1/8	3	181.67	181.67
1-3/64	1.0469	6-5/8	11-1/4	3	—	209.87
1-1/16	1.0625	6-5/8	11-1/4	3	195.42	195.42
1-5/64	1.0781	6-7/8	11-1/2	3	—	233.78
1-3/32	1.0938	6-7/8	12-1/2	4	217.78	217.78
1-1/8	1.1250	7-1/8	12-3/4	4	231.22	231.22
1-5/32	1.1562	7-1/4	12-7/8	4	237.76	237.76
1-3/16	1.1875	7-3/8	13	4	255.56	255.56
1-13/64	1.2031	7-1/2	13-1/8	4	—	294.44
1-7/32	1.2188	7-1/2	13-1/8	4	271.67	271.67
1-15/64	1.2344	7-7/8	13-1/2	4	—	305.56

CORE DRILLS

Taper Shank HSS

Quality Imports

Special Sizes Also Available



Series TSCD-3 — Three Flute (Cont'd)

Series TSCD-4 — Four Flute (Cont'd)

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each	
					Three Flute	Four Flute
1-1/4	1.2500	7-7/8	13-1/2	4	288.89	288.89
1-17/64	1.2656	8-1/2	14-1/8	4	—	367.22
1-9/32	1.2812	8-1/2	14-1/8	4	350.99	342.43
1-5/16	1.3125	8-5/8	14-1/4	4	364.49	345.83
1-11/32	1.3438	8-3/4	14-3/8	4	387.91	368.89
1-3/8	1.3750	8-7/8	14-1/2	4	387.91	368.89
1-13/32	1.4062	9	14-5/8	4	425.56	395.33
1-7/16	1.4375	9-1/8	14-3/4	4	425.56	415.10
1-15/32	1.4688	9-1/4	14-7/8	4	459.33	435.00
1-1/2	1.5000	9-3/8	15	4	459.33	435.89
1-17/32	1.5312	9-3/8	16-3/8	5	509.03	503.33
1-35/64	1.5469	9-5/8	16-5/8	5	—	551.29
1-9/16	1.5625	9-5/8	16-5/8	5	537.69	537.69
1-37/64	1.5781	9-7/8	16-7/8	5	—	611.11
1-19/32	1.5938	9-7/8	16-7/8	5	582.11	582.11
1-39/64	1.6094	10	17	5	622.22	622.22
1-5/8	1.6250	10	17	5	—	564.17
1-21/32	1.6562	10-1/8	17-1/8	5	659.72	659.72
1-43/64	1.6719	10-1/8	17-1/8	5	684.41	—
1-11/16	1.6875	10-1/8	17-1/8	5	684.41	684.41
1-23/32	1.7188	10-1/8	17-1/8	5	684.41	684.41
1-47/64	1.7344	10-1/8	17-1/8	5	733.33	—
1-3/4	1.7500	10-1/8	17-1/8	5	—	727.67
1-25/32	1.7812	10-1/8	17-1/8	5	—	758.44
1-13/16	1.8125	10-1/8	17-1/8	5	780.00	780.00
1-27/32	1.8438	10-1/8	17-1/8	4	—	733.89
1-27/32	1.8438	10-1/8	17-1/8	5	—	776.67
1-7/8	1.8750	10-3/8	17-3/8	5	855.56	—
1-29/32	1.9062	10-3/8	17-3/8	5	887.76	887.76
1-15/16	1.9375	10-3/8	17-3/8	4	—	828.33
1-15/16	1.9375	10-3/8	17-3/8	5	—	828.27
1-31/32	1.9688	10-3/8	17-3/8	5	927.22	927.22
2	2.0000	10-3/8	17-3/8	5	—	879.11
2-1/32	2.0312	10-3/8	17-3/8	5	—	966.84
2-1/16	2.0625	10-1/4	17-3/8	5	978.00	978.00
2-1/8	2.1250	10-1/4	17-3/8	5	—	953.11
2-5/32	2.1562	10-1/4	17-3/8	5	—	1055.56
2-3/16	2.1875	10-1/4	17-3/8	5	—	1194.67
2-1/4	2.2500	10-1/8	17-3/8	5	1183.89	1183.89
2-5/16	2.3125	10-1/8	17-3/8	5	—	1388.89
2-3/8	2.3750	10-1/8	17-3/8	5	—	1330.78
2-7/16	2.4375	11-1/4	18-3/4	5	—	1617.44
2-1/2	2.5000	11-1/4	18-3/4	5	—	1527.22
2-9/16	2.5625	11-7/8	19-1/2	5	—	1716.67
2-5/8	2.6250	11-7/8	19-1/2	5	—	1800.00
2-11/16	2.6875	12-3/4	20-3/8	5	—	1843.33
2-3/4	2.7500	12-3/4	20-3/8	5	2089.44	2089.44
2-13/16	2.8125	13-3/8	21-1/8	5	—	2244.44
2-7/8	2.8750	13-3/8	21-1/8	5	—	2265.56
2-15/16	2.9375	14	21-3/4	5	—	2425.56
3	3.0000	14	21-3/4	5	—	2550.00

Quality Imports

Morse Taper Sleeves and Extension Sockets

Series ES — Extension Sockets

Series DS — Sleeves



DRILLS

Size	Morse Taper No.		Morse Taper Sleeves					Morse Taper Extension Sockets		
	Internal	External	OAL	Hard Tang Only		Hard & Ground		OAL	Tool No.	Import Price Each
				Tool No.	Import Price Each	Tool No.	Import Price Each			
1 to 1	1	1	—	—	—	—	—	6-1/4	ES11	38.51
1 to 2	1	2	3-9/16	DS12	20.00	DSH12	32.56	6-1/4	ES12	38.51
1 to 3	1	3	3-15/16	DS13	31.36	DSH13	42.76	6-7/8	ES13	46.91
1 to 4	1	4	4-7/8	DS14	48.51	DSH14	68.89	7-1/2	ES14	56.16
1 to 5	1	5	6-1/8	DS15	61.11	DSH15	105.00	9-1/16	ES15	81.67
2 to 1	2	1	—	—	—	—	—	6-1/4	ES21	44.84
2 to 2	2	2	—	—	—	—	—	6-7/8	ES22	44.93
2 to 3	2	3	4-7/16	DS23	22.64	DSH23	43.53	7-5/8	ES23	44.93
2 to 4	2	4	4-7/8	DS24	41.98	DSH24	74.13	8-1/2	ES24	64.49
2 to 5	2	5	6-1/8	DS25	84.69	DSH25	105.00	9-3/4	ES25	81.67
3 to 1	3	1	—	—	—	—	—	7-1/4	ES31	55.82
3 to 2	3	2	—	—	—	—	—	7-3/4	ES32	55.84
3 to 3	3	3	—	—	—	—	—	8-1/2	ES33	55.84
3 to 4	3	4	5-3/8	DS34	35.33	DSH34	74.18	9-1/2	ES34	55.84
3 to 5	3	5	6-1/8	DS35	61.11	DSH35	104.93	10-1/2	ES35	87.33
4 to 2	4	2	—	—	—	—	—	8-1/2	ES42	85.53
4 to 3	4	3	—	—	—	—	—	9-1/2	ES43	85.53
4 to 4	4	4	—	—	—	—	—	10-1/2	ES44	85.53
4 to 5	4	5	6-5/8	DS45	80.56	DSH45	104.93	11-7/8	ES45	106.78
4 to 6	4	6	8-5/8	DS46	153.53	DSH46	300.22	14	ES46	243.53
5 to 3	5	3	—	—	—	—	—	10-1/2	ES53	190.78
5 to 4	5	4	—	—	—	—	—	11-3/8	ES54	190.78
5 to 5	5	5	—	—	—	—	—	13-3/4	ES55	199.82
5 to 6	5	6	8-5/8	DS56	166.44	DSH56	325.67	15-3/8	ES56	243.53

Drill Drifts

Series DD

Size	Fits Morse #	Length	Tool #	Import Price Each
1	#1	4-1/2"	DD-1	6.29
2	#2	5-1/4"	DD-2	6.52
3	#3	6"	DD-3	7.83
4	#4, #5, #6	7"	DD-4	10.44
Set (1,2,3 & 4)	#1 thru #6	same as above	DD-5	28.08



HAMMER DRILLS

Carbide Tipped — SDS-Plus / SDS Max / Adapters



DRILLS



Series SDS4350 — SDS- Plus Masonry Drills 4 Slot Shank

Size	Approx. Overall Length	Approx. Usable Length	Price Each	Import Price Each
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5/32	6-5/8	4	12.18	—
3/16	4-5/8	2	11.44	6.36
3/16	6-5/8	4	12.18	6.90
3/16	8-5/8	6	15.44	10.63
7/32	6-5/8	4	16.18	—
1/4	4-5/8	2	11.44	6.63
1/4	6-5/8	4	12.18	6.90
1/4	8-5/8	6	15.25	10.96
1/4	12	9	—	18.02
1/4	14-5/8	12	31.91	—
5/16	4	2	—	7.37
5/16	6-5/8	4	13.65	8.13
5/16	8	6	—	13.33
5/16	12-5/8	10	31.29	18.55
3/8	6-5/8	4	14.41	9.47
3/8	8	6	—	15.81
3/8	12-5/8	10	27.78	22.07
7/16	6-5/8	4	20.01	—
7/16	12-5/8	10	27.13	—
7/16	18-5/8	16	39.70	—
1/2	6-5/8	4	20.43	12.05
1/2	8	6	—	18.59
1/2	12-5/8	10	33.50	25.19
1/2	18-5/8	14	—	36.70
1/2	24	22	—	52.14
9/16	6-3/4	4	27.29	—
9/16	12-3/4	10	35.86	—
9/16	18-3/4	16	43.74	—
5/8	6-3/4	4	—	20.04
5/8	8	6	—	22.48
5/8	12-3/4	10	42.89	28.98
5/8	18-3/4	16	—	41.73
5/8	24	22	—	59.47
11/16	6-3/4	4	39.70	—
3/4	6-3/4	4	39.89	—
3/4	8-5/8	6	—	30.34
3/4	12-3/4	10	55.15	34.53
3/4	16	14	—	45.13
3/4	18-3/4	16	—	50.92
7/8	6-3/4	4	47.30	—
7/8	10	8	—	35.24
7/8	12-3/4	10	56.56	37.92
7/8	18-3/4	14	—	56.08
1	13-3/4	10	—	50.79
1	18-3/4	14	—	66.51

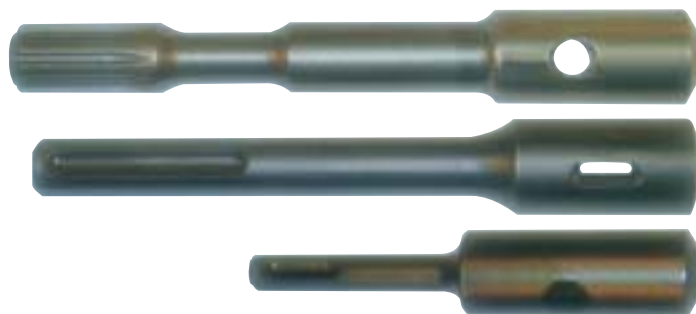
Series SDSM — SDS Max Masonry Drills 4 Slot Shank

Size	Approx. Overall Length	Approx. Drilling Depth	Import Price Each
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1/2	13	7	72.09
1/2	21	15	85.78
5/8	13	7	77.71
5/8	21	15	90.87
5/8	36	30	139.47
3/4	13	7	93.63
3/4	21	15	116.37
3/4	36	30	158.64
7/8	13	7	103.63
1	13	7	113.65
1	21	15	165.31
1	36	30	215.76
1-1/8	17	11	183.20
1-1/8	23	17	222.06
1-1/4	23	17	276.38
1-1/4	36	30	347.20
1-3/8	23	17	313.78
1-1/2	23	17	361.55

Adapters

Call for Pricing and Availability



CARBIDE TIPPED MASONRY DRILLS

Straight Shank, Regular Helix Type



PowerTek
MASONRY BITS



DRILLS

Series VM4350
3" or 4" Overall Length

Size	Shank Size	Price Each	Import Price Each
1/8	1/8	1.83	1.21
5/32	5/32	2.94	—
11/64	11/64	5.83	—
3/16	3/16	2.02	1.75
7/32	7/32	2.09	—
1/4	1/4	2.12	1.99
9/32	1/4	3.82	—
5/16	1/4	6.50	2.53
3/8	1/4	3.58	4.24
7/16	1/4	4.83	4.51
1/2	1/4	5.76	5.35

Series VM4400
12" Overall Length

Size	Shank Size	Price Each	Import Price Each
1/8	1/8	13.78	—
3/16	3/16	14.17	4.97
1/4	1/4	9.13	5.32
5/16	1/4	9.57	6.51
3/8	1/4	12.31	8.60
7/16	3/8	20.56	—
1/2	1/4	21.00	—
1/2	3/8	13.92	13.47
9/16	1/2	23.89	—
5/8	1/2	18.37	15.94
11/16	1/2	31.00	—
3/4	1/2	24.52	21.51
7/8	1/2	28.28	—
1	1/2	38.67	—
1-1/8	1/2	54.44	—
1-3/8	1/2	86.67	—

Series VM4350
6" Overall Length

Size	Shank Size	Price Each	Import Price Each
1/8	1/8	5.83	—
3/16	3/16	3.29	—
1/4	1/4	3.29	2.13
9/32	1/4	6.94	—
5/16	1/4	4.06	2.76
3/8	1/4	4.54	4.41
7/16	1/4	7.94	—
7/16	3/8	5.27	4.72
1/2	1/4	8.61	—
1/2	3/8	6.33	6.04
9/16	3/8	7.20	—
9/16	1/2	11.94	—
5/8	1/2	9.57	8.18
11/16	1/2	16.87	—
3/4	1/2	16.39	13.74
7/8	1/2	18.12	18.70
1	1/2	31.32	—
1-1/8	1/2	36.67	—
1-1/4	1/2	65.44	—
1-3/8	1/2	64.44	—
1-1/2	1/2	66.11	—

Series VM4400
18" Overall Length

Size	Shank Size	Price Each
1/4	1/4	22.17
3/16	3/16	23.33
5/16	1/4	25.00
3/8	5/16	26.67
7/16	3/8	32.00
1/2	3/8	32.78
9/16	1/2	37.78
5/8	1/2	40.00
5/8	3/8	40.00
11/16	1/2	46.67
3/4	1/2	47.78
7/8	1/2	57.78
1	1/2	65.56
1-1/8	1/2	93.33
1-1/4	1/2	98.89
1-3/8	1/2	138.89
1-1/2	1/2	127.78

CARBIDE TIPPED DRILLS

Jobber Length 118° Point



DRILLS



Series CT150 - Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Price Each
1/8	.1250	1-5/8	2-3/4	28.96
9/64	.1406	1-3/4	2-7/8	30.62
5/32	.1562	2	3-1/8	30.62
11/64	.1719	2-1/8	3-1/4	32.70
3/16	.1875	2-5/16	3-1/2	32.70
13/64	.2031	2-7/16	3-5/8	35.66
7/32	.2188	2-1/2	3-3/4	35.66
15/64	.2344	2-5/8	3-7/8	38.56
1/4	.2500	2-3/4	4	38.56
17/64	.2656	2-7/8	4-1/8	45.32
9/32	.2812	2-15/16	4-1/4	45.32
19/64	.2969	3-1/16	4-3/8	49.03
5/16	.3125	3-3/16	4-1/2	49.03
21/64	.3281	3-5/16	4-5/8	52.10
11/32	.3438	3-7/16	4-3/4	52.10
23/64	.3594	3-1/2	4-7/8	55.37
3/8	.3750	3-5/8	5	55.37
25/64	.3906	3-3/4	5-1/8	60.31
13/32	.4062	3-7/8	5-1/4	60.31
27/64	.4219	3-15/16	5-3/8	65.36
7/16	.4375	4-1/16	5-1/2	65.36
29/64	.4531	4-3/16	5-5/8	73.47
15/32	.4688	4-5/16	5-3/4	73.47
31/64	.4844	4-3/8	5-7/8	82.22
1/2	.5000	4-1/2	6	82.22
33/64	.5156	4-13/16	6-5/8	149.58
17/32	.5312	4-13/16	6-5/8	149.58
35/64	.5469	4-13/16	6-5/8	151.20
9/16	.5625	4-13/16	6-5/8	151.20
37/64	.5781	4-13/16	6-5/8	166.84
19/32	.5938	5-3/16	7-1/8	161.93
39/64	.6094	5-3/16	7-1/8	191.58
5/8	.6250	5-3/16	7-1/8	183.40
41/64	.6406	5-3/16	7-1/8	211.64
21/32	.6562	5-3/16	7-1/8	186.44
43/64	.6719	5-5/8	7-5/8	242.91
11/16	.6875	5-5/8	7-5/8	190.18

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CARBIDE TIPPED DRILLS

Jobber Length 118° Point



DRILLS

Series CT150 - Letter Sizes

Size	Decimal Equiv.	Flute Length	OAL	Price Each
A	.2340	2-5/8	3-7/8	44.72
B	.2380	2-3/4	4	44.72
C	.2420	2-3/4	4	44.72
D	.2460	2-3/4	4	44.72
E	.2500	2-3/4	4	42.70
F	.2570	2-7/8	4-1/8	50.56
G	.2610	2-7/8	4-1/8	51.30
H	.2660	2-7/8	4-1/8	51.30
I	.2720	2-7/8	4-1/8	51.30
J	.2770	2-7/8	4-1/8	52.62
K	.2810	2-15/16	4-1/4	52.62
L	.2900	2-15/16	4-1/4	52.62
M	.2950	3-1/16	4-3/8	55.60
N	.3020	3-1/16	4-3/8	55.60
O	.3160	3-3/16	4-1/2	55.60
P	.3230	3-5/16	4-5/8	59.22
Q	.3320	3-7/16	4-3/4	59.22
R	.3390	3-7/16	4-3/4	59.22
S	.3480	3-1/2	4-7/8	62.86
T	.3580	3-1/2	4-7/8	62.86
U	.3680	3-5/8	5	62.86
V	.3770	3-5/8	5	64.17
W	.3860	3-3/4	5-1/8	69.96
X	.3970	3-3/4	5-1/8	69.96
Y	.4040	3-7/8	5-1/4	69.96
Z	.4130	3-7/8	5-1/4	77.47

Series CT150 - Wire Gauge Sizes

Size	Decimal Equiv.	Flute Length	OAL	Price Each
1	.2280	2-5/8	3-7/8	32.91
2	.2210	2-5/8	3-7/8	32.91
3	.2130	2-1/2	3-3/4	31.12
4	.2090	2-1/2	3-3/4	31.12
5	.2055	2-1/2	3-3/4	31.12
6	.2040	2-1/2	3-3/4	31.12
7	.2010	2-7/16	3-5/8	31.12
8	.1990	2-7/16	3-5/8	31.12
9	.1960	2-7/16	3-5/8	31.12
10	.1935	2-7/16	3-5/8	30.50
11	.1910	2-5/16	3-1/2	30.50
12	.1890	2-5/16	3-1/2	30.50
13	.1850	2-5/16	3-1/2	29.43
14	.1820	2-3/16	3-3/8	29.43
15	.1800	2-3/16	3-3/8	29.43
16	.1770	2-3/16	3-3/8	29.43
17	.1730	2-3/16	3-3/8	29.43
18	.1695	2-1/8	3-1/4	29.43
19	.1660	2-1/8	3-1/4	29.43
20	.1610	2-1/8	3-1/4	29.43
21	.1590	2-1/8	3-1/4	29.43
22	.1570	2	3-1/8	29.68
23	.1540	2	3-1/8	27.79
24	.1520	2	3-1/8	27.79
25	.1495	1-7/8	3	27.79
26	.1470	1-7/8	3	27.79
27	.1440	1-7/8	3	27.79
28	.1405	1-3/4	2-7/8	27.79
29	.1360	1-3/4	2-7/8	27.26
30	.1285	1-5/8	2-3/4	26.49
31	.1200	1-5/8	2-3/4	26.49
32	.1160	1-5/8	2-3/4	26.49



CARBIDE TIPPED DRILLS

Taper Length 118° Point

DRILLS



Series CT250 - Taper Length 118° Point

Size	Flute Length	OAL	Price Each
3/32	2-5/8	5-1/8	43.33
1/8	2-3/4	5-1/8	45.46
9/64	3	5-3/8	45.46
5/32	3	5-3/8	47.89
11/64	3-3/8	5-3/4	48.73
3/16	3-3/8	5-3/4	48.73
5.00	3-1/2	6-1/4	51.76
13/64	3-5/8	6	51.52
7/32	3-5/8	6	51.52
15/64	3-3/4	6-1/8	59.26
C	3-3/4	6-1/8	59.59
6.30	3-3/4	6-1/8	65.36
1/4	3-3/4	6-1/8	58.17
F	3-7/8	6-1/4	61.16
17/64	3-7/8	6-1/4	66.49
9/32	3-7/8	6-1/4	65.27
19/64	4	6-3/8	71.76
5/16	4	6-3/8	70.46
O	3-1/2	6-1/4	75.96
21/64	4-1/8	6-1/2	79.02
11/32	4-1/8	6-1/2	77.60
23/64	4-1/4	6-3/4	86.70
9.40	4	6-3/4	85.23
3/8	4-1/4	6-3/4	85.12
25/64	4-3/8	7	95.47
13/32	4-3/8	7	93.73
27/64	4-5/8	7-1/4	109.90
7/16	4-5/8	7-1/4	107.92
29/64	4-3/4	7-1/2	121.39
15/32	4-3/4	7-1/2	119.17
12.00	5-1/2	7-1/4	125.42
31/64	4-3/4	7-3/4	127.16
1/2	4-3/4	7-3/4	124.83

Size	Flute Length	OAL	Price Each
33/64	4-3/4	8	163.82
17/32	4-3/4	8	161.62
35/64	4-7/8	8-1/4	169.26
9/16	4-7/8	8-1/4	163.20
37/64	4-7/8	8-1/4	178.62
19/32	4-7/8	8-3/4	175.49
39/64	4-7/8	8-3/4	205.79
5/8	4-7/8	8-3/4	198.43
41/64	5-1/8	8-3/4	213.47
21/32	5-1/8	9	205.83
43/64	5-3/8	9	217.13
11/16	5-3/8	9-1/4	209.39
45/64	5-5/8	9-1/4	219.53
23/32	5-5/8	9-1/2	213.93
47/64	5-7/8	9-1/2	223.19
3/4	5-7/8	9-3/4	218.66
49/64	6	9-3/4	245.89
25/32	6	9-7/8	236.70
51/64	6-1/8	9-7/8	246.93
13/16	6-1/8	10	237.86
53/64	6-1/8	10	246.93
27/32	6-1/8	10	237.86
55/64	6-1/8	10	260.80
7/8	6-1/8	10	251.42
57/64	6-1/8	10	269.87
29/32	6-1/8	10	260.13
59/64	6-1/8	10-3/4	270.93
15/16	6-1/8	10-3/4	263.87
61/64	6-3/8	11	285.33
31/32	6-3/8	11	276.36
63/64	6-3/8	11	292.53
1	6-3/8	11	285.00



CARBIDE TIPPED DRILLS

Taper Shank 118° Point



DRILLS



Series CTD350 - Taper Shank 118° Point

Size	Flute Length	OAL	Morse Taper No.	Price Each
1/4	2-7/8	6-1/8	1	87.97
17/64	3	6-1/4	1	91.46
9/32	3	6-1/4	1	89.79
19/64	3-1/8	6-3/8	1	91.46
5/16	3-1/8	6-3/8	1	89.79
21/64	3-1/4	6-1/2	1	116.20
11/32	3-1/4	6-1/2	1	114.09
23/64	3-1/2	6-3/4	1	116.20
3/8	3-1/2	6-3/4	1	114.09
25/64	3-5/8	7	1	134.89
13/32	3-5/8	7	1	132.42
27/64	3-7/8	7-1/4	1	134.89
7/16	3-7/8	7-1/4	1	132.42
29/64	4-1/8	7-1/2	1	163.09
15/32	4-1/8	7-1/2	1	160.13
31/64	4-3/8	8-1/4	2	163.09
1/2	4-3/8	8-1/4	2	168.13
33/64	4-5/8	8-1/2	2	182.59
17/32	4-5/8	8-1/2	2	176.07
35/64	4-7/8	8-3/4	2	185.07
9/16	4-7/8	8-3/4	2	178.46
37/64	4-7/8	8-3/4	2	193.69
19/32	4-7/8	8-3/4	2	186.80
39/64	4-7/8	8-3/4	2	220.42
5/8	4-7/8	8-3/4	2	212.53
41/64	5-1/8	9	2	233.70
21/32	5-1/8	9	2	225.36
43/64	5-3/8	9-1/4	2	226.43
11/16	5-3/8	9-1/4	2	218.33
45/64	5-5/8	9-1/2	2	232.53

Size	Flute Length	OAL	Morse Taper No.	Price Each
23/32	5-5/8	9-1/2	2	224.26
47/64	5-7/8	9-3/4	2	237.36
3/4	5-7/8	9-3/4	2	228.89
49/64	6	9-7/8	2	248.03
25/32	6-1/8	9-7/8	2	250.49
51/64	6-1/8	10-3/4	3	256.19
13/16	6-1/8	10-3/4	3	271.80
53/64	6-1/8	10-3/4	3	292.47
27/32	6-1/8	10-3/4	3	291.13
55/64	6-1/8	10-3/4	3	275.67
7/8	6-1/8	10-3/4	3	275.67
57/64	6-1/8	10-3/4	3	282.87
29/32	6-1/8	10-3/4	3	282.87
59/64	6-1/8	10-3/4	3	295.30
15/16	6-1/8	10-3/4	3	295.30
61/64	6-3/8	11	3	316.92
31/32	6-3/8	11	3	312.42
63/64	6-3/8	11	3	316.92
1	6-3/8	11	3	307.40
1-1/32	6-1/2	11-1/8	3	380.00
1-1/16	6-5/8	11-1/4	4	385.00
1-3/32	6-7/8	12-1/2	4	416.67
1-1/8	7-1/8	12-3/4	4	427.00
1-5/32	7-1/4	12-7/8	4	483.33
1-3/16	7-3/8	13	4	488.33
1-7/32	7-1/2	13-1/8	4	516.67
1-1/4	7-7/8	13-1/2	4	523.33



CARBIDE TIPPED DRILLS

Die Drills / Screw Machine Drills



DRILLS



Die Drills - Series CTD450

Size	Flute Length	OAL	Price Each
1/16*	—	1-1/2	31.67
5/64*	—	1-1/2	31.67
3/32*	—	2	35.83
7/64*	—	2	35.83
1/8*	—	2	35.83
9/64*	—	2	38.26
5/32*	—	2	44.17
11/64	1-1/2	3-1/2	66.63
3/16	1-1/2	3-1/2	66.63
13/64	1-3/4	3-3/4	68.72
7/32	1-3/4	3-3/4	68.72
15/64	2	4	71.20
1/4	2	4	71.20
17/64	2-1/4	4-1/4	75.22
9/32	2-1/4	4-1/4	75.22
19/64	2-1/2	4-1/2	78.66
5/16	2-1/2	4-1/2	78.66
21/64	2-3/4	4-3/4	84.73
11/32	2-3/4	4-3/4	84.73
23/64	3	5	90.22
3/8	3	5	90.22

Size	Flute Length	OAL	Price Each
25/64	3	5-1/4	105.22
13/32	3	5-1/4	105.27
27/64	3	5-1/2	122.26
7/16	3	5-1/2	122.26
29/64	3-1/4	5-3/4	134.40
15/32	3-1/4	5-3/4	134.40
31/64	3-1/2	6	157.56
1/2	3-1/2	6	157.56
17/32	3-1/2	6	190.23
9/16	3-1/2	6	190.23
19/32	4	7	207.57
5/8	4	7	207.57
21/32	4-1/2	7-1/2	218.66
11/16	4-1/2	7-1/2	224.79
23/32	4-3/4	8	240.00
3/4	4-3/4	8	242.10
13/16	4-3/4	8	416.67
7/8	4-3/4	8	433.33
15/16	4-3/4	8	480.00
1	4-3/4	8	498.33

* Solid Carbide

Screw Machine Drills Series CT400

Size	Flute Length	OAL	Price Each
1/8	7/8	1-7/8	40.83
9/64	15/16	1-15/16	44.17
5/32	1	2-1/16	46.26
3/16	1-1/8	2-3/16	49.59
7/32	1-1/4	2-3/8	49.92
1/4	1-3/8	2-1/2	53.33
9/32	1-1/2	2-11/16	64.17
5/16	1-5/8	2-13/16	70.83
3/8	1-13/16	3-1/8	78.76
7/16	2-1/16	3-7/16	92.50
1/2	2-1/4	3-3/4	116.59



SOLID CARBIDE DRILLS

Standard Length



DRILLS

Series SCD100—Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Price Each
1/64	.0156	1/4	1-1/4	28.34
1/32	.0312	5/16	1-1/4	25.14
3/64	.0469	3/4	1-1/2	24.93
1/16	.0625	3/4	1-1/2	24.93
5/64	.0781	7/8	1-3/4	24.93
3/32	.0938	1	2	24.93
7/64	.1094	1-1/4	2-1/4	25.57
1/8	.1250	1-1/4	2-1/4	26.82
9/64	.1406	1-3/8	2-1/2	33.00
5/32	.1562	1-3/8	2-1/2	34.99
11/64	.1719	1-5/8	2-3/4	40.86
3/16	.1875	1-5/8	2-3/4	41.28

Size	Decimal Equiv.	Flute Length	OAL	Price Each
13/64	.2031	1-3/4	3	49.66
7/32	.2188	1-3/4	3	51.33
15/64	.2344	2	3-1/4	60.56
1/4	.2500	2	3-1/4	56.37
17/64	.2656	2-1/8	3-1/2	62.64
9/32	.2812	2-1/8	3-1/2	69.14
19/64	.2969	2-3/8	3-3/4	75.43
5/16	.3125	2-3/8	3-3/4	79.62
21/64	.3281	2-1/2	4	87.90
11/32	.3438	2-1/2	4	97.43
23/64	.3594	2-3/4	4-1/4	106.86
3/8	.3750	2-3/4	4-1/4	115.23

Size	Decimal Equiv.	Flute Length	OAL	Price Each
25/64	.3906	2-7/8	4-1/2	127.81
13/32	.4062	2-7/8	4-1/2	144.57
27/64	.4219	2-7/8	4-1/2	157.14
7/16	.4375	2-7/8	4-1/2	171.81
29/64	.4531	3	4-3/4	186.48
15/32	.4688	3	4-3/4	199.04
31/64	.4844	3	4-3/4	203.23
1/2	.5000	3	4-3/4	201.14
17/32	.5312	4	6	—
9/16	.5625	4	6	—
5/8	.6250	4	6	—
3/4	.7500	4	6	—

Series SCD102—Letter Sizes

Size	Decimal Equiv.	Flute Length	OAL	Price Each
A	.2340	2	3-1/4	62.76
B	.2380	2	3-1/4	67.04
C	.2420	2	3-1/4	67.04
D	.2460	2	3-1/4	73.86
E	.2500	2	3-1/4	48.40
F	.2570	2	3-1/4	70.19
G	.2610	2-1/8	3-1/2	71.23
H	.2660	2-1/8	3-1/2	75.43
I	.2720	2-1/8	3-1/2	75.43

Size	Decimal Equiv.	Flute Length	OAL	Price Each
J	.2770	2-1/8	3-1/2	77.52
K	.2810	2-1/8	3-1/2	78.57
L	.2900	2-1/8	3-1/2	83.81
M	.2950	2-3/8	3-3/4	85.90
N	.3020	2-3/8	3-3/4	88.00
O	.3160	2-3/8	3-3/4	90.10
P	.3230	2-3/8	3-3/4	94.29
Q	.3320	2-1/2	4	102.67
R	.3390	2-1/2	4	104.77

Size	Decimal Equiv.	Flute Length	OAL	Price Each
S	.3480	2-1/2	4	108.96
T	.3580	2-3/4	4-1/4	111.04
U	.3680	2-3/4	4-1/4	121.52
V	.3770	2-3/4	4-1/4	129.90
W	.3860	2-7/8	4-1/2	146.67
X	.3970	2-7/8	4-1/2	150.86
Y	.4040	2-7/8	4-1/2	157.14
Z	.4130	2-7/8	4-1/2	188.57

Series SCD104—Wire Gauge Sizes

Size	Decimal Equiv.	Flute Length	OAL	Price Each
1	.2280	1-3/4	3	46.10
2	.2210	1-3/4	3	46.10
3	.2130	1-3/4	3	46.10
4	.2090	1-3/4	3	46.10
5	.2055	1-3/4	3	46.10
6	.2040	1-3/4	3	46.10
7	.2010	1-3/4	3	46.10
8	.1990	1-3/4	3	46.10
9	.1960	1-3/4	3	46.10
10	.1935	1-5/8	2-3/4	40.86
11	.1910	1-5/8	2-3/4	40.86
12	.1890	1-5/8	2-3/4	40.86
13	.1850	1-5/8	2-3/4	40.86
14	.1820	1-5/8	2-3/4	40.33
15	.1800	1-5/8	2-3/4	40.33
16	.1770	1-5/8	2-3/4	40.33
17	.1730	1-5/8	2-3/4	40.33
18	.1695	1-5/8	2-3/4	39.81
19	.1660	1-5/8	2-3/4	39.81
20	.1610	1-3/8	2-1/2	39.81
21	.1590	1-3/8	2-1/2	39.81
22	.1570	1-3/8	2-1/2	39.81
23	.1540	1-3/8	2-1/2	39.81
24	.1520	1-3/8	2-1/2	39.81
25	.1495	1-3/8	2-1/2	39.81
26	.1470	1-3/8	2-1/2	39.81
27	.1440	1-3/8	2-1/2	39.81

Size	Decimal Equiv.	Flute Length	OAL	Price Each
28	.1405	1-3/8	2-1/2	39.81
29	.1360	1-3/8	2-1/2	39.81
30	.1285	1-1/4	2-1/4	38.77
31	.1200	1-1/4	2-1/4	33.52
32	.1160	1-1/4	2-1/4	33.52
33	.1130	1-1/4	2-1/4	33.52
34	.1110	1-1/4	2-1/4	29.33
35	.1100	1-1/4	2-1/4	29.33
36	.1065	1-1/4	2-1/4	29.33
37	.1040	1-1/4	2-1/4	29.33
38	.1015	1-1/4	2-1/4	29.33
39	.0995	1-1/4	2-1/4	29.33
40	.0980	1	2	25.14
41	.0960	1	2	25.14
42	.0935	1	2	25.14
43	.0890	1	2	25.14
44	.0860	1	2	25.14
45	.0820	7/8	1-3/4	25.14
46	.0810	7/8	1-3/4	25.14
47	.0785	7/8	1-3/4	25.14
48	.0760	7/8	1-3/4	25.14
49	.0730	7/8	1-3/4	25.14
50	.0700	7/8	1-3/4	25.14
51	.0670	3/4	1-1/2	18.86
52	.0635	3/4	1-1/2	18.86
53	.0595	3/4	1-1/2	18.86
54	.0550	3/4	1-1/2	18.86

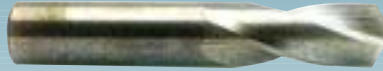
Size	Decimal Equiv.	Flute Length	OAL	Price Each
55	.0520	3/4	1-1/2	18.86
56	.0465	3/4	1-1/2	18.86
57	.0430	3/4	1-1/2	50.91
58	.0420	3/4	1-1/2	50.50
59	.0410	3/4	1-1/2	50.50
60	.0400	3/4	1-1/2	50.50
61	.0390	5/8	1-1/2	50.50
62	.0380	5/8	1-1/2	50.50
63	.0370	5/8	1-1/2	49.34
64	.0360	5/8	1-1/2	49.03
65	.0350	5/8	1-1/2	48.61
66	.0330	5/16	1-1/4	43.37
67	.0320	5/16	1-1/4	42.96
68	.0310	5/16	1-1/4	42.96
69	.0292	5/16	1-1/4	43.37
70	.0280	5/16	1-1/4	45.26
71	.0260	5/16	1-1/4	56.47
72	.0250	5/16	1-1/4	56.47
73	.0240	1/4	1-1/4	56.47
74	.0225	1/4	1-1/4	56.47
75	.0210	1/4	1-1/4	56.47
76	.0200	1/4	1-1/4	—
77	.0180	1/4	1-1/4	62.76
78	.0160	1/4	1-1/4	62.76
79	.0145	1/4	1-1/4	62.76
80	.0135	1/4	1-1/4	62.76

SOLID CARBIDE DRILLS

Screw Machine Length



DRILLS



Series SC600 - Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Price Each
1/32	.0312	3/8	1-1/8	24.10
3/64	.0469	1/2	1-1/2	24.10
1/16	.0625	5/8	1-5/8	18.76
5/64	.0781	11/16	1-11/16	25.98
3/32	.0938	3/4	1-3/4	26.09
7/64	.1094	13/16	1-13/16	31.11
1/8	.1250	7/8	1-7/8	25.98
9/64	.1406	15/16	1-15/16	36.14
5/32	.1562	1	2-1/16	37.30
11/64	.1719	1-1/16	2-1/8	47.03
3/16	.1875	1-1/8	2-3/16	38.56
13/64	.2031	1-3/16	2-1/4	56.26
7/32	.2188	1-1/4	2-3/8	56.26
15/64	.2344	1-5/16	2-7/16	72.18
1/4	.2500	1-3/8	2-1/2	57.41
17/64	.2656	1-7/16	2-5/8	94.18
9/32	.2812	1-1/2	2-11/16	97.74
19/64	.2969	1-9/16	2-3/4	109.06
5/16	.3125	1-5/8	2-13/16	81.61
21/64	.3281	1-11/16	2-15/16	114.92
11/32	.3438	1-11/16	3	127.60
23/64	.3594	1-3/4	3-1/16	146.46
3/8	.3750	1-13/16	3-1/8	120.27
25/64	.3906	1-7/8	3-1/4	170.97
13/32	.4062	1-15/16	3-5/16	189.51
27/64	.4219	2	3-3/8	211.51
7/16	.4375	2-1/16	3-7/16	177.37
29/64	.4531	2-1/8	3-9/16	253.63
15/32	.4688	2-1/8	3-5/8	266.41
31/64	.4844	2-3/16	3-11/16	266.41
1/2	.5000	2-1/4	3-3/4	219.90



60° Countersink Angle

Used for centering work ends, where the workpiece is to be revolved on machine centers.

60° countersink angle fits all standard centers.

Series CDC — Plain Type

Size	Body Diameter	Drill Dia. and Length	OAL	Pkg Qty	Price Each	Import Price Each
000	1/8	.020	1-1/4	12	12.81	—
00	1/8	.025	1-1/4	12	12.81	4.50
0	1/8	1/32	1-1/4	12	12.81	4.50
1	1/8	3/64	1-1/4	12	10.39	3.62
2	3/16	5/64	1-7/8	12	10.88	3.62
3	1/4	7/64	2	12	11.36	3.62
4	5/16	1/8	2-1/8	12	11.84	3.62
4-1/2	3/8	9/64	2-1/2	6	—	—
5	7/16	3/16	2-3/4	6	18.64	6.56
6	1/2	7/32	3	6	28.28	10.18
7	5/8	1/4	3-1/4	1	40.84	13.06
8	3/4	5/16	3-1/2	1	56.79	17.49
9	7/8	11/32	3-5/8	1	—	—
10	1	3/8	3-3/4	1	—	—



Series CDC-L — Long

Size	Body Dia.	Drill Dia.	OAL	Import Price Each
1	1/8	3/64	3	16.62
1	1/8	3/64	4	17.36
1	1/8	3/64	5	24.17
1	1/8	3/64	6	31.61
2	3/16	5/64	4	19.04
2	3/16	5/64	5	24.17
2	3/16	5/64	6	31.61
3	1/4	7/64	4	20.01
3	1/4	7/64	5	26.39
3	1/4	7/64	6	32.00
4	5/16	1/8	4	22.04
4	5/16	1/8	5	28.13
4	5/16	1/8	6	32.58
4-1/2	3/8	9/64	4	23.88
4-1/2	3/8	9/64	5	28.57
4-1/2	3/8	9/64	6	32.23
5	7/16	3/16	4	28.13
5	7/16	3/16	5	32.53
5	7/16	3/16	6	36.30
6	1/2	7/32	5	34.32
6	1/2	7/32	6	41.38
7	5/8	1/4	6	75.30
8	3/4	5/16	6	82.80



DRILLS

Spotting Drills / Body Drills / Step Drills

NC/CNC Spotting Drills

Series SCD — HSS, 90° Point

Size	Decimal Equiv.	Flute Length	OAL	Import Price Each
1/8	.1250	1/2	1-7/8	4.79
3/16	.1875	9/16	2-3/16	5.94
1/4	.2500	3/4	2-1/2	7.40
3/8	.3750	1-1/8	3-1/8	10.16
1/2	.5000	1-3/8	3-3/4	16.68
5/8	.6250	1-5/8	4-3/8	27.56
3/4	.7500	1-7/8	5	46.83
1	1.0000	2-1/4	6	73.08



Body Drills

Double End - HSS, 135° Split Point

Series T460

Size	Decimal Equiv.	Price Each
7/64	.1094	2.40
1/8	.1250	2.44
#30	.1285	2.44
9/64	.1406	2.74
5/32	.1562	3.02
3/16	.1875	3.88
7/32	.2188	5.01
1/4	.2500	5.69



Self-Starting Step Drills

Single-Fluted Cutting Edge

3-Flatted Shank Prevents Slipping in Drill Chucks



Series TKX50 — HSS

Size Range	Step Increments	No. of Hole Sizes	Shank Size	HSS Tool No.	Price Each	TiN Coated Tool No.	Price Each
1/8-1/2	32nd	13	1/4	#1	92.28	#1Ti	113.83
3/16-1/2	16th	6	1/4	#2	92.28	#2Ti	113.83
1/4-3/4	16th	9	3/8	#3	166.36	#3Ti	256.48
3/16-7/8	16th	12	3/8	#4	194.44	#4Ti	303.09
9/16-1"	16th	8	1/2	#20	176.05	#20Ti	—
13/16-1-3/8	16th	10	1/2	#21	357.28	#21Ti	—

Single-Flute Countersink

High Speed Steel
60°, 82°, 90°, 100°



Series CS-1

Size	Shank Dia.	OAL	Import Price Each
1/8	1/8	1-1/4	—
3/16	3/16	1-1/2	12.27
1/4	1/4	1-1/2	12.92
5/16	1/4	1-5/8	13.97
3/8	1/4	1-3/4	14.88
1/2	1/4	2	18.67
5/8	3/8	2-1/4	27.28
3/4	1/2	2-5/8	36.54
7/8	1/2	2-3/4	59.24
1	1/2	2-3/4	62.12
1-1/4	1/2	2-3/4	85.87
1-1/2	3/4	2-7/8	111.97
1-3/4	3/4	3	—
2	3/4	3-1/4	212.98

Four-Flute Machine Countersink

High Speed Steel
60°, 82°, 90°



Series MCS

Size	Shank Dia.	OAL	Import Price Each
1/2	1/2	3-7/8	27.40
5/8	1/2	4	35.10
3/4	1/2	4-1/8	46.32
7/8	1/2	4-1/4	50.77
1	1/2	4-1/4	57.94
1-1/4	1/2	4-3/8	75.89
1-1/2	1/2	4-1/2	103.36

Quality Imports

Three-Flute Countersink

High Speed Steel
60°, 82°, 90°, 100°



Series CR

Size	Shank Dia.	OAL	Import Price Each
1/4	3/16	1-1/2	9.66
3/8	1/4	1-3/4	11.36
1/2	3/8	2	13.83
5/8	3/8	2-1/4	21.01
3/4	1/2	2-5/8	31.32
1	1/2	2-3/4	49.86
1-1/4	1/2	3	102.58
1-1/2	3/4	3	139.90
2	3/4	3-1/4	231.51

Six-Flute Chatterless Countersinks

High Speed Steel
60°, 82°, 90°



Series CS-6 — Single Tools

Size	Shank Dia.	OAL	Import Price Each
1/4	1/4	2	12.66
5/16	1/4	2	13.83
3/8	1/4	2	16.44
1/2	1/4	2	20.36
5/8	1/2	2-3/4	29.10
3/4	1/2	2-3/4	42.93
7/8	1/2	2-3/4	52.20
1	1/2	2-3/4	62.64
1-1/4	3/4	3-3/8	93.18
1-1/2	3/4	3-1/2	132.59
1-3/4	1	4-1/4	175.66
2	1	4-3/8	205.14

COUNTERBORES AND PILOTS

Interchangeable Pilot Counterbores

Quality Imports



Taper



Straight

Series 375 — Straight Shank, Series 376 — Taper Shank

Counterbore Size	Pilot Hole Size	Range of Pilot Sizes		No of Flutes	OAL	Import Price Each			
		Smallest Dia. To Largest Dia.				Shank Dia.	Straight Shank	Morse Taper No.	Taper Shank
3/16	3/32	1/8	5/32	3	3-1/2	15/64	59.26	—	—
7/32	3/32	1/8	3/16	3	3-5/8	15/64	59.26	—	—
15/64	3/32	1/8	3/16	3	3-5/8	15/64	64.00	—	—
1/4	3/32	1/8	3/16	3	3-13/16	15/64	62.04	1	67.04
17/64	3/32	1/8	3/16	3	3-13/16	17/64	64.00	—	0.00
9/32	3/32	1/8	7/32	3	3-13/16	17/64	62.04	1	68.89
19/64	3/32	1/8	7/32	3	3-13/16	17/64	65.78	—	—
5/16	3/32	1/8	1/4	3	3-13/16	19/64	63.70	1	68.89
11/32	3/32	1/8	9/32	3	3-13/16	5/16	65.19	1	68.89
3/8	5/32	3/16	5/16	3	4-1/16	5/16	65.19	1	68.89
25/64	5/32	3/16	5/16	3	4-1/16	3/8	67.13	—	—
13/32	5/32	3/16	11/32	3	4-1/16	3/8	69.33	1	73.15
7/16	5/32	3/16	3/8	3	4-1/16	3/8	69.33	1	73.15
15/32	3/16	1/4	13/32	3	4-5/16	7/16	72.78	1	76.67
31/64	3/16	1/4	7/16	3	4-5/16	7/16	72.78	—	—
1/2	3/16	1/4	7/16	3	4-5/16	7/16	72.78	1	76.67
17/32	3/16	1/4	15/32	3	4-5/16	1/2	80.93	1	85.65
9/16	3/16	1/4	1/2	3	4-5/16	1/2	80.93	1	85.65
37/64	3/16	1/4	1/2	3	5-1/8	1/2	89.33	—	—
19/32	3/16	1/4	17/32	3	5-1/8	1/2	86.57	2	92.41
5/8	3/16	1/4	9/16	3	5-1/8	1/2	86.57	2	92.41
41/64	3/16	1/4	9/16	3	5-1/8	1/2	96.67	—	—
21/32	3/16	1/4	19/32	3	5-1/8	1/2	95.56	2	99.81
11/16	3/16	1/4	5/8	3	5-1/8	1/2	95.56	2	99.81
23/32	1/4	5/16	21/32	3	5-3/8	1/2	99.44	2	103.43
3/4	1/4	5/16	11/16	3	5-3/8	1/2	99.44	2	103.43
25/32	1/4	5/16	23/32	3	5-3/8	5/8	105.09	2	109.91
13/16	1/4	5/16	3/4	3	5-3/8	5/8	101.67	2	109.91
27/32	1/4	5/16	25/32	3	5-3/8	3/4	111.57	2	114.15
7/8	1/4	5/16	13/16	3	5-3/8	3/4	106.67	2	114.15
29/32	1/4	5/16	27/32	3	6-1/8	3/4	112.04	3	120.61
15/16	1/4	5/16	7/8	3	6-1/8	3/4	112.04	3	120.61
31/32	5/16	3/8	15/16	3	6-3/8	3/4	133.52	3	137.83
1	5/16	3/8	15/16	3	6-3/8	3/4	133.52	3	137.83
1-1/16	5/16	3/8	1	3	6-3/8	3/4	150.74	3	155.07
1-1/8	5/16	3/8	1-1/16	3	6-3/8	1	150.74	3	163.69
1-3/16	5/16	3/8	1-1/8	3	6-3/8	1	163.33	3	168.00
1-1/4	3/8	7/16	1-3/16	5	6-5/8	1	189.54	3	198.15
1-5/16	3/8	7/16	1-1/4	5	6-5/8	1	218.89	3	211.02
1-3/8	3/8	7/16	1-5/16	5	6-5/8	1	218.89	3	219.69
1-7/16	3/8	7/16	1-3/8	5	7-7/8	1-1/4	226.85	4	234.26
1-1/2	3/8	7/16	1-7/16	5	7-7/8	1-1/4	245.37	4	246.09
1-5/8	7/16	1/2	1-9/16	5	8-1/8	1-1/4	332.04	4	335.93
1-11/16	7/16	1/2	1-5/8	5	8-1/8	1-1/4	352.22	4	355.00
1-3/4	7/16	1/2	1-11/16	5	8-1/8	1-1/4	357.78	4	362.04
1-13/16	7/16	1/2	1-3/4	5	8-1/8	1-1/2	375.19	4	396.48
1-7/8	7/16	1/2	1-13/16	5	8-1/8	1-1/2	392.00	4	396.48
2	1/2	9/16	1-15/16	5	8-3/8	1-1/2	443.69	4	447.78
2-1/8	1/2	9/16	2-1/16	5	9-7/8	1-1/2	560.00	5	560.00
2-1/4	1/2	9/16	2-3/16	5	9-7/8	1-1/2	585.19	5	594.44
2-3/8	1/2	9/16	2-5/16	5	9-7/8	1-1/2	625.93	5	646.30
2-1/2	1/2	9/16	2-7/16	5	9-7/8	1-1/2	648.15	5	685.19
2-5/8	1/2	9/16	2-9/16	5	9-7/8	1-3/4	816.67	5	850.00
2-3/4	1/2	9/16	2-11/16	5	9-7/8	1-3/4	868.52	5	898.15
2-7/8	1/2	9/16	2-13/16	5	9-7/8	1-3/4	903.70	5	940.74
3	1/2	9/16	2-15/16	5	9-7/8	1-3/4	935.19	5	972.22

COUNTERBORES AND PILOTS

Pilots for Interchangeable Pilot Counterbores

Quality Imports



DRILLS

Series 373 — Pilots

Pilot Dia.	Import Price Each		
	Shank Diameter		
	3/32	1/8	5/32

1/8	14.44	14.44	—
9/64	14.44	—	—
5/32	14.44	14.44	14.44
3/16	14.44	14.81	14.81
7/32	16.67	16.67	16.67
1/4	16.67	16.67	16.67
F	17.78	—	—
9/32	17.78	17.78	17.78
5/16	17.78	17.78	17.78
11/32	17.78	17.78	17.78
3/8	—	19.63	19.63
13/32	—	19.63	19.63
7/16	—	20.00	20.00
15/32	—	21.11	21.11
1/2	—	22.96	—
9/16	—	30.00	—

Pilot Dia.	Import Price Each		
	Shank Diameter		
	3/16	1/4	5/16

3/16	14.81	—	—
7/32	16.67	—	—
1/4	16.67	—	—
F	17.78	—	—
9/32	17.78	17.78	—
5/16	17.78	17.78	—
11/32	17.78	17.78	17.78
3/8	19.63	19.63	19.63
13/32	19.63	19.63	19.63
7/16	20.00	20.00	20.00
15/32	21.11	21.11	21.11
1/2	22.96	22.96	22.96
17/32	26.67	26.67	26.67
9/16	30.00	30.00	30.00
19/32	31.48	31.48	31.48
5/8	32.96	32.96	32.96
21/32	33.33	33.33	33.33
11/16	33.70	33.70	33.70
23/32	—	38.15	38.15
3/4	38.15	38.15	38.15
25/32	40.74	40.74	40.74
13/16	—	42.96	42.96
27/32	—	44.44	44.44
7/8	47.41	47.41	47.41
29/32	—	48.15	48.15
15/16	50.00	—	50.00
31/32	—	—	52.78
1	52.78	—	52.78
1-1/16	—	—	53.70
1-1/8	—	—	64.81
1-3/16	—	—	66.67

Pilot Dia.	Import Price Each		
	Shank Diameter		
	3/8	7/16	1/2

1/4	19.63	—	—
13/32	20.00	—	—
7/16	20.00	—	—
15/32	21.11	—	—
1/2	22.96	22.96	—
17/32	26.67	26.67	26.67
9/16	30.00	30.00	30.00
19/32	31.48	31.48	31.48
5/8	32.96	32.96	32.96
21/32	33.33	33.33	33.33
11/16	33.70	33.70	33.70
23/32	38.15	38.15	38.15
3/4	38.15	38.15	38.15
25/32	40.74	40.74	—
13/16	42.96	42.96	42.96
27/32	44.44	0.00	0.00
7/8	47.41	47.41	47.41
29/32	48.15	—	—
15/16	50.00	50.00	50.00
31/32	52.78	—	—
1	52.78	52.78	52.78
1-1/16	53.70	53.70	53.70
1-1/8	64.81	64.81	64.81
1-3/16	66.67	66.67	66.67
1-1/4	70.37	70.37	70.37
1-5/16	74.07	74.07	74.07
1-3/8	77.78	77.78	77.78
1-7/16	81.48	81.48	81.48
1-1/2	—	85.19	85.19
1-9/16	—	88.89	88.89
1-5/8	—	90.74	90.74
1-11/16	—	101.85	101.85
1-3/4	—	111.11	111.11
1-13/16	—	122.22	122.22
1-7/8	—	138.89	138.89
1-15/16	—	—	144.44
2	—	—	151.85

Taptek
Quality Imports
for over
30 years!

Annular Cutters High Speed Steel

Series TFZ80-1 — 1" Depth of Cut (Premium)

Series TFZ80-2 — 2" Depth of Cut (Premium)

Series TFZ80U-1 — 1" Depth of Cut, Universal

Series TFZ80U-2 — 2" Depth of Cut, Universal



Diameter of Cut	Import Price Each			
	Premium 1" Depth of Cut	Premium 2" Depth of Cut	Universal 1" Depth of Cut	Universal 2" Depth of Cut
7/16	—	—	106.67	147.62
1/2	134.44	177.11	106.67	147.62
9/16	153.56	200.89	116.19	163.66
5/8	160.67	216.67	130.48	175.24
11/16	167.11	240.22	133.33	197.52
3/4	175.78	—	143.81	213.33
13/16	188.44	279.78	152.19	228.38
7/8	202.00	296.67	163.81	243.81
15/16	215.33	319.11	178.48	264.76
1	231.11	346.44	190.29	285.71
1-1/16	237.11	354.67	195.24	296.76
1-1/8	273.11	409.78	224.76	339.05
1-3/16	284.44	425.78	258.48	350.48
1-1/4	295.33	442.44	243.81	354.29
1-5/16	310.89	465.56	257.14	379.05
1-3/8	399.56	488.89	329.52	403.81
1-7/16	447.11	561.11	372.76	453.33
1-1/2	467.33	587.78	388.57	487.62
1-9/16	522.00	657.33	438.10	544.76
1-5/8	550.67	697.78	453.33	586.67
1-11/16	572.44	728.22	480.00	605.71
1-3/4	613.33	773.56	510.48	643.81
1-13/16	635.78	808.44	529.52	670.48
1-7/8	669.11	853.56	556.19	720.00
1-15/16	716.22	910.89	594.29	758.10
2	738.89	948.67	607.62	796.19
2-1/16	—	—	697.14	841.90

Quality Imports

DRILL SETS

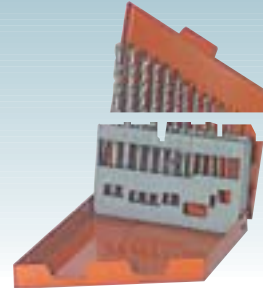
Jobber Length Drill Sets

Series TAP50 - USA

Series TAC40 - Import

13 Piece Set: 1/16 - 1/4 by 64ths

Set No.	Description	Price Each	Import Price Each
J13	HSS, 118° Point	41.39	32.78
HD13	HSS, 135° Split Point	46.11	—
C13	Cobalt, 135° Split Point	72.78	—
D13	Black & Gold	56.11	—



15 Piece Set: 1/16 - 1/2 by 32nds

Set No.	Description	Price Each	Import Price Each
J15	HSS, 118° Point	116.94	69.44
HD15	HSS, 135° Split Point	132.50	—
C15	Cobalt, 135° Split Point	223.89	—
D15	Black & Gold	150.56	—



21 Piece Set: 1/16 - 3/8 by 64ths

Set No.	Description	Price Each	Import Price Each
J21	HSS, 118° Point	102.78	83.61
HD21	HSS, 135° Split Point	120.56	—
C21	Cobalt, 135° Split Point	202.78	—
D21	Black & Gold	143.61	—



29 Piece Set: 1/16 - 1/2 by 64ths

Set No.	Description	Price Each	Import Price Each
J29	HSS, 118° Point	199.94	117.22
HD29	HSS, 135° Split Point	241.39	—
C29	Cobalt, 135° Split Point	360.00	269.50
D29	Black & Gold	285.50	245.00



115 Piece Set: 1/16 - 1/2 by 64ths, A-Z, 1-60

Set No.	Description	Price Each	Import Price Each
J115	HSS, 118° Point	572.78	375.00
HD115	HSS, 135° Split Point	602.78	—
C115	Cobalt, 135° Split Point	—	—



DRILL SETS

Silver and Deming Sets

Series 1080 - USA

Series 1090 - Import

8 Piece Set: 9/16 - 1 by 16ths

Set No.	Description	Price Each	Import Price Each
JSD8	HSS, 118° Point	522.78	150.56
JSD8-SP	HSS, 135° Split Point	583.39	—
JSD8-C	Cobalt	639.44	—

32 Piece Set: 33/64 - 1 by 64ths

Set No.	Description	Price Each	Import Price Each
JSD33	HSS, 118° Point	695.00	684.39
JSD33-SP	HSS, 135° Split Point	806.11	—
JSD33-C	Cobalt	883.61	—



Pilot Drill Point Bit Sets

13 Piece Set - HSS

Set No.	Description	Price Each
KW90-4352	Set Includes: 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64, 3/16, 7/32, 1/4, 5/16, 3/8	47.22



Double-End Screw Driver Bits & Nut Drivers Set

10 Piece Set

Set No.	Description	Price Each
KW90-1469	3 double-end screwdriver bits 7 nutdrivers	23.89



TAPS



Hand Taps	74
Spiral Pointed Taps	75
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Pulley Taps	80
Metric Taps	81-82



HAND TAPS

Standard HSS



Series HT — HSS, Ground Thread

Series HT-S — 3 Piece Set: Plug, Bottoming and Taper Chamfer



Taper: 7-10 Thread Chamfer



Plug: 3-5 Thread Chamfer



Bottoming: 1-2 Thread Chamfer

TAPS

Fractional Sizes

Size	Threads Per Inch	Thread Limits	No. of Flutes	Price Each	Price 3 Pc. Set	Import Price Each	Import Price 3 Pc. Set
1/4	20	H3	4	10.78	32.33	5.56	16.67
1/4	28	H3	4	10.78	32.33	5.56	16.67
5/16	18	H3	4	14.16	42.48	7.01	21.03
5/16	24	H3	4	14.16	42.48	7.01	21.03
3/8	16	H3	4	16.06	48.19	7.98	23.93
3/8	24	H3	4	16.06	48.19	7.98	23.93
7/16	14	H3	4	27.46	82.38	13.06	39.17
7/16	20	H3	4	27.46	82.38	13.06	39.17
1/2	13	H3	4	28.73	86.19	14.50	43.50
1/2	20	H3	4	32.54	97.62	14.50	43.50
9/16	12	H3	4	48.21	144.62	23.20	69.60
9/16	18	H3	4	48.21	144.62	23.20	69.60
5/8	11	H3	4	57.89	173.67	29.00	87.00
5/8	18	H3	4	57.89	173.67	29.00	87.00
11/16	11	H3	4	71.83	215.48	34.56	103.67
11/16	16	H3	4	71.83	215.48	34.56	103.67
3/4	10	H3	4	80.95	242.86	38.67	116.00
3/4	16	H3	4	80.95	242.86	38.67	116.00
7/8	9	H4	4	113.02	339.05	53.89	161.67
7/8	14	H4	4	113.02	339.05	53.89	161.67
1	8	H4	4	150.16	450.48	72.50	217.50
1	12	H4	4	155.03	465.10	73.71	221.13
1	14	H4	4	155.03	465.10	73.71	221.13
1-1/8	7	H4	4	243.33	730.00	114.70	344.10
1-1/8	12	H4	4	257.62	772.86	121.80	365.40
1-1/4	7	H4	4	319.75	959.24	150.22	450.67
1-1/4	12	H4	6	324.92	974.76	153.27	459.80
1-3/8	6	H4	4	402.30	1206.90	189.80	569.40
1-3/8	12	H4	6	405.08	1215.24	190.93	572.80
1-1/2	6	H4	4	449.84	1349.52	218.22	654.67
1-1/2	12	H4	6	457.54	1372.62	222.29	666.87
2	4-1/2	H4	6	691.35	2074.05	—	—

Call
for special
taps.

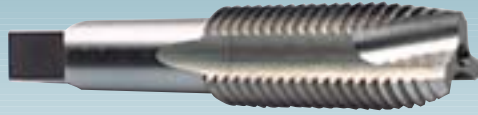
Machine Screw Sizes

Size	Threads Per Inch	Thread Limits	No. of Flutes	Price Each	Price 3 Pc. Set	Import Price Each	Import Price 3 Pc. Set
0	80	H1	2	26.03	78.10	14.50	43.50
1	64	H1	2	24.37	73.10	14.17	42.50
1	72	H2	2	24.37	73.10	14.17	42.50
2	56	H2	3	20.87	62.62	11.60	34.80
2	64	H2	3	22.62	67.86	11.60	34.80
3	48	H2	3	16.06	48.19	9.23	27.70
3	56	H2	3	17.90	53.71	9.23	27.70
4	36	H2	3	14.21	42.62	6.52	19.57
4	40	H2	3	13.17	39.52	7.26	21.77
4	48	H2	3	14.16	42.48	7.26	21.77
5	40	H2	3	13.17	39.52	6.77	20.30
5	44	H2	3	14.16	42.48	7.26	21.77
6	32	H3	3	10.16	30.48	5.08	15.23
6	40	H2	3	10.71	32.14	5.32	15.97
8	32	H3	4	10.48	31.43	5.32	15.97
8	36	H2	4	10.71	32.14	5.32	15.97
10	24	H3	4	10.71	32.14	5.32	15.93
10	32	H3	4	10.71	32.14	5.32	15.97
12	24	H3	4	11.25	33.76	5.80	17.40
12	28	H3	4	12.38	37.14	5.80	17.40

SPIRAL POINTED TAPS

Standard Plug Chamfer

Series SP — HSS, Ground Thread



Fractional Sizes

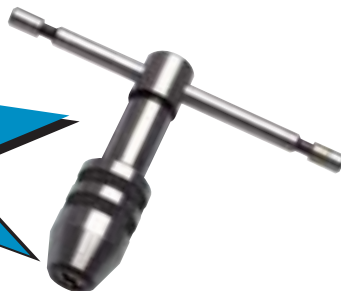
Size	Threads Per Inch	Thread Limits	No. of Flutes	Price Each	Import Price Each
1/4	20	H3	2	12.62	6.91
1/4	28	H3	2	12.62	6.91
5/16	18	H3	2	14.29	7.40
5/16	24	H3	2	14.29	7.40
3/8	16	H3	3	16.98	8.94
3/8	24	H3	3	18.49	8.94
7/16	14	H3	3	29.00	14.99
7/16	20	H3	3	29.00	14.99
1/2	13	H3	3	29.57	15.28
1/2	20	H3	3	31.43	15.28
9/16	12	H3	3	61.27	27.40
9/16	18	H3	3	61.27	27.40
5/8	11	H3	3	66.11	31.61
5/8	18	H3	3	66.11	31.61
3/4	10	H3	3	93.30	44.66
3/4	16	H3	3	93.30	44.66
7/8	9	H4	3	128.02	63.94
7/8	14	H4	3	128.02	63.94
1	8	H4	3	177.62	85.16
1	12	H4	3	177.62	85.16
1	14	H4	3	177.62	85.16

Machine Screw Sizes

Size	Threads Per Inch	Thread Limits	No. of Flutes	Price Each	Import Price Each
0	80	H1	2	32.06	17.36
1	64	H1	2	28.89	15.61
1	72	H2	2	28.89	15.61
2	56	H2	2	24.76	13.20
2	64	H2	2	28.02	13.20
3	48	H2	2	19.76	10.68
3	56	H2	2	21.43	10.68
4	36	H2	2	18.49	7.98
4	40	H2	2	15.95	8.67
4	48	H2	2	18.44	8.52
5	40	H2	2	15.79	7.98
5	44	H2	2	18.49	8.16
6	32	H3	2	13.25	6.72
6	40	H2	2	15.08	6.92
8	32	H3	2	13.25	6.72
8	36	H2	2	15.08	6.92
10	24	H3	2	13.25	6.91
10	32	H3	2	13.25	6.91
12	24	H3	2	15.08	7.63
12	28	H3	2	15.08	7.63
14	20	H3	2	19.84	

TAPS

See
tap wrenches
pg. 94



See
cutting fluids
pg. 118



SPECIAL THREAD TAPS

High Speed Steel Ground Thread



Quality Imports

Series HT

Specify plug, bottoming or taper when ordering

Size	Available Threads per Inch	Call for Pricing	Size	Available Threads per Inch	Call for Pricing
0	76	"	1-1/16	8, 10, 12, 14, 16, 18, 20, 24, 27, 28, 32	"
4	32	"	1-1/8	10, 14, 16, 18, 20, 24, 27, 28, 32	"
5	32, 36	"	1-5/32	14	"
6	36, 38, 48, 56, 60	"	1-3/16	8, 10, 12, 14, 16, 18, 20, 24, 27, 32	"
7	36, 40, 48	"	1-1/4	10, 14, 16, 18, 20, 24, 26, 27, 28, 32	"
8	24, 30, 40, 48, 56, 60	"	1-5/16	6, 11, 24	"
9	24	"	1-3/8	10, 14, 16, 18, 20, 24	"
10	28, 30, 36, 40, 48, 60	"	1-7/16	8, 12, 16, 18, 20, 27	"
12	32, 36, 40, 48	"	1-1/2	4, 10, 14, 16, 18, 20, 24, 28, 32	"
14	20, 24	"	1-9/16	12, 16, 18, 20	"
3/32	50	"	1-5/8	5-1/2, 10, 12, 14, 16, 18, 20	"
1/8	44, 48	"	1-11/16	12, 16, 18, 20, 27	"
5/32	32, 36, 40	"	1-3/4	5, 6, 10, 12, 14, 16, 18, 20, 24, 36	"
3/16	16, 18, 24, 32	"	1-13/16	8, 10, 12, 14, 16, 18, 20	"
7/32	28, 32, 40	"	1-7/8	5, 10, 12, 14, 16, 18, 20, 26	"
1/4	18, 22, 24, 26, 27, 30, 32, 36, 38, 40, 48, 56, 60	"	1-15/16	8, 10, 12, 16, 18, 20	"
9/32	32, 40	"	2	6, 10, 14, 16, 18, 20	"
5/16	13, 20, 22, 26, 27, 28, 30, 32, 36, 40	"	2-1/16	12	"
11/32	32	"	2-1/8	12, 16, 18	"
3/8	13, 14, 18, 20, 22, 24, 27, 28, 30, 32, 36, 40	"	2-1/4	4-1/2, 12, 14, 16, 18	"
13/32	20, 32	"	2-5/16	12, 14, 16, 18	"
7/16	12, 16, 18, 24, 26, 27, 28, 32, 40	"	2-3/8	12, 16, 18	"
15/32	24, 32, 40	"	2-1/2	4, 12, 16	"
1/2	11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 36, 37, 40, 48, 50	"	2-9/16	12	"
17/32	32	"	2-5/8	8, 12, 16, 18	"
9/16	10, 13, 16, 20, 24, 27, 28, 32, 36, 40, 48	"	2-3/4	12, 16, 18	"
5/8	10, 12, 13, 14, 16, 20, 24, 26, 27, 28, 30, 32, 36, 40, 48	"	2-7/8	8, 12, 16	"
11/16	12, 18, 20, 24, 27, 30, 32, 36, 40	"	3	4, 12, 16, 18	"
3/4	8, 11, 11-1/2, 12, 14, 18, 20, 22, 24, 26, 27, 28, 30, 32, 36,	"	3-1/8	8, 12	"
13/16	8, 10, 12, 14, 16, 18, 20, 24, 26, 27, 28, 32, 36	"	3-1/4	8, 12	"
7/8	8, 10, 11, 12, 16, 18, 20, 24, 26, 27, 28, 30, 32, 36, 40	"	3-1/2	4, 8, 12	"
15/16	9, 10, 12, 14, 16, 18, 20, 24, 27, 32	"	3-3/4	8, 12	"
1	7, 9, 10, 11, 16, 18, 20, 24, 26, 27, 28, 30, 32, 36, 40, 50	"	4	8, 12	"
			4-1/2	12	"

Eight Pitch Taps

Series HT – Ground Thread

Size	No. of Flutes	Import Price Each
1-1/8	4	103.87
1-1/4	4	131.80
1-3/8	4	165.73
1-1/2	6	208.47
1-5/8	6	233.83
1-3/4	6	255.53
1-7/8	6	307.98
2	6	328.86
2-1/8	6	401.94
2-1/4	6	454.14
2-3/8	6	412.38
2-1/2	6	540.27
2-3/4	6	694.26
3	6	790.83
3-1/2	8	1177.11
4	8	1542.51

Left Hand Taps

Series LHT – Ground Thread



Size	Threads per Inch	Thread Limits	No. of Flutes	Import Price Each
6	32	H3	3	—
6	40	H3	3	—
8	32	H3	4	—
8	36	H3	4	—
10	24	H3	4	—
10	32	H3	4	—
1/4	20	H3	4	10.53
1/4	28	H3	4	10.53
1/4	32	H3	4	0.00
5/16	18	H3	4	11.74
5/16	24	H3	4	11.74
3/8	16	H3	4	15.22
3/8	24	H3	4	15.22
7/16	14	H3	4	22.13
7/16	20	H3	4	22.13
1/2	13	H3	4	25.81
1/2	20	H3	4	25.81
9/16	12	H3	4	31.47
9/16	18	H3	4	31.47
5/8	11	H3	4	38.13
5/8	18	H3	4	38.13

Size	Threads per Inch	Thread Limits	No. of Flutes	Import Price Each
11/16	11	H3	4	0.00
11/16	16	H3	4	0.00
3/4	10	H3	4	51.28
3/4	16	H3	4	51.28
7/8	9	H4	4	68.53
7/8	14	H4	4	68.53
1	8	H4	4	92.27
1	12	H4	4	92.27
1	14	H4	4	92.27
1-1/8	7	H4	4	113.29
1-1/8	12	H4	4	113.29
1-1/4	7	H4	4	144.86
1-1/4	12	H4	4	144.86
1-3/8	6	H4	4	180.61
1-3/8	12	H4	4	180.61
1-1/2	6	H4	4	222.89
1-1/2	12	H4	4	222.89
1-3/4	8	H4	4	274.06

COMBINED TAP & DRILL



Combined Tap & Drill

Ground Thread, Two Flute

Series DT



Fractional Sizes

Nominal Size	Drill Size	Thread Length	OAL	Price Each
1/4-20	.2080	13/16	2-1/2	36.10
1/4-28	.2200	23/32	2-1/2	36.10
5/16-18	.2660	31/32	2-27/32	50.27
5/16-24	.2770	7/8	2-27/32	50.27
3/8-16	.3225	1-1/8	3-3/8	60.90
3/8-24	.3395	1	3-3/8	60.90
7/16-14	.3770	1-5/16	3-3/4	77.29
7/16-20	.3955	1-3/16	3-3/4	77.29
1/2-13	.4350	1-15/32	4-1/16	87.29
1/2-20	.4580	1-15/16	4-1/16	87.29
5/8-11	.5750	1-3/4	5	—
3/4-10	.7200	2	6	—

**Eagle / Taptek
offers same day
shipping!**

Machine Screw Sizes

Nominal Size	Drill Size	Thread Length	OAL	Price Each
4-40	.0910	3/8	1-7/8	36.10
4-48	.0945	11/32	1-7/8	39.00
5-40	.1040	13/32	1-15/16	36.10
6-32	.1115	15/32	2	36.10
6-40	.1170	7/16	2	39.00
8-32	.1375	33/64	2-1/8	36.10
10-24	.1545	5/8	2-3/8	36.10
10-32	.1635	9/16	2-3/8	36.10
12-24	.1805	11/16	2-3/8	36.10
12-28	.1860	21/32	2-3/8	39.00

TAPS



HSS Taper Pipe Taps

Ground Thread



Series PT

Size	Threads Per Inch	Price Each		
		NPT TAPER	NPTF TAPER	IMPORT NPT TAPER
1/16	27	43.97	36.79	22.44
1/8	27(sm/sk)	43.97	—	—
1/8	27(lg/sk)	43.97	36.79	22.44
1/4	18	48.57	40.56	25.19
3/8	18	64.13	53.57	32.62
1/2	14	101.59	84.92	52.07
3/4	14	142.30	118.86	81.17
1	11-1/2	215.56	182.54	122.41
1-1/4	11-1/2	309.52	261.90	173.30
1-1/2	11-1/2	414.29	361.11	236.72
2	11-1/2	562.30	475.87	318.42
2-1/2	8	1182.54	1103.17	775.02
3	8	1666.67	1246.03	1097.89
3-1/2	8	1761.90	—	1325.54
4	8	2261.90	—	1808.88

HSS Straight Pipe Taps

Ground Thread, NPS



Series PTS

Size	Threads Per Inch	Price Each	Import Price Each
1/16	27	—	—
1/8	27	36.10	22.44
1/4	18	39.80	25.19
3/8	18	47.86	37.46
1/2	14	75.26	58.00
3/4	14	107.30	83.13
1	11-1/2	162.69	127.27
1-1/4	11-1/2	—	—
1-1/2	11-1/2	—	—
2	11-1/2	—	—
2-1/2	8	—	—
3	8	—	—
3-1/2	8	—	—
4	8	—	—

HSS Interrupted Thread Taper Pipe Taps

Ground Thread, INT/NPT



Series IPT

Size	Threads Per Inch	Import Price Each
1/16	27	29.49
1/8	27	33.83
1/4	18	36.26
3/8	18	48.58
1/2	14	79.76
3/4	14	112.38
1	11-1/2	173.52
1-1/4	11-1/2	242.16
1-1/2	11-1/2	327.94
2	11-1/2	442.26

Carbon Taper Pipe Taps

Cut Thread, NPT, Right Hand



Series CPT

Size	Threads Per Inch	Price Each
1/16	27	15.24
1/8	27	15.24
1/4	18	17.97
3/8	18	23.26
1/2	14	30.89
3/4	14	49.49
1	11-1/2	72.93
1-1/4	11-1/2	86.04
1-1/2	11-1/2	121.47
2	11-1/2	186.01
2-1/2	8	—
3	8	—
3-1/2	8	—
4	8	—

Long Reach NPT Pipe Taps

Ground Thread

Series PT-4 — NPT, 4" OAL

Series PT-6 — NPT, 6" OAL

Series PT-8 — NPT, 8" OAL

Series PT-12 — NPT, 12" OAL

Size	Threads Per Inch	Price Each			
		4" OAL	6" OAL	8" OAL	12" OAL
1/16	27	64.76	78.10	—	—
1/8	27	74.92	78.10	95.24	—
1/4	18	—	89.52	100.95	149.84
3/8	18	—	112.18	—	171.86
1/2	14	—	144.13	—	246.22
3/4	14	—	205.08	317.46	378.41
1	11-1/2	—	292.06	444.44	495.24



TAPS

6" Extension Taps

Ground Thread, Plug Chamfer

Series ET — Hand Taps

Series ETS — Spiral Pointed

Size	Threads Per Inch	Price Each	
		Hand Tap	Spiral Pointed
10	24	93.97	96.56
10	32	93.97	96.56
1/4	20	91.81	103.62
5/16	18	95.49	107.68
3/8	16	107.94	121.60
1/2	13	114.29	130.29



Ground Thread, Plug Chamfer



Series PLT — Spiral Pointed Taps

Size	Threads Per Inch	No. of Flutes	Price Each
			Spiral Pointed 6" OAL
6	32	2	96.56
8	32	2	96.56
10	24	2	96.56
10	32	2	96.56
1/4	20	2	103.62
1/4	28	2	103.62
5/16	18	2	107.68
5/16	24	2	107.68
3/8	16	3	121.60
3/8	24	3	121.60
7/16	14	3	127.39
7/16	20	3	127.39
1/2	13	3	130.29
1/2	20	3	130.29
5/8	11	3	170.82
5/8	18	3	170.82
3/4	10	3	250.16
3/4	16	3	250.16
7/8	14	3	302.22

Series PLTS — Hand Taps

Size	Threads Per Inch	No. of Flutes	Price Each	
			Hand Taps 6" OAL	Hand Taps 8" OAL
6	32	4	84.70	111.11
8	32	4	84.70	111.11
10	24	4	84.70	111.11
10	32	4	84.70	111.11
1/4	20	4	96.51	117.84
1/4	28	4	96.51	117.84
5/16	18	4	101.21	121.14
5/16	24	4	101.21	121.14
3/8	16	4	113.90	135.37
3/8	24	4	113.90	135.37
7/16	14	4	121.14	158.73
7/16	20	4	121.14	158.73
1/2	13	4	122.16	158.73
1/2	20	4	122.16	158.73
5/8	11	4	163.30	208.25
5/8	18	4	163.30	208.25
3/4	10	4	222.22	271.75
3/4	16	4	222.22	271.75
1-3/8	12	6	—	749.21

Series PLTS — Hand Taps

Size	Threads Per Inch	No. of Flutes	Price Each	
			Hand Taps 10" OAL	Hand Taps 12" OAL
1/4	20	4	147.30	—
1/4	28	4	147.30	—
5/16	18	4	157.46	—
5/16	24	4	157.46	—
3/8	16	4	169.52	—
3/8	24	4	169.52	—
7/16	14	4	186.67	—
7/16	20	4	186.67	—
1/2	13	4	193.02	239.85
1/2	20	4	193.02	239.85
5/8	11	4	261.59	304.76
5/8	18	4	261.59	304.76
3/4	10	4	308.19	340.32
3/4	16	4	308.19	340.32
7/8	9	4	—	505.40



METRIC TAPS

High Speed Steel



Taper: 7-10 Thread Chamfer



Plug: 3-5 Thread Chamfer



Bottoming: 1-2 Thread Chamfer

Series MT — HSS, Ground Thread

Series MT-S — 3 Piece Set: Plug, Bottoming and Taper Chamfer

Size	Pitch mm	No. of Flutes	Import Price Each	Import Price 3 Pc. Set
1.6	.35	2	24.00	72.00
1.8	.35	2	24.00	72.00
2	.40	3	24.00	72.00
2.2	.45	3	14.75	44.25
2.3	.40	3	14.75	44.25
2.5	.45	3	14.75	44.25
2.6	.45	3	14.75	44.25
2.8	.45	3	14.75	44.25
3	.50	3	12.25	36.75
3	.60	3	10.13	30.38
3.5	.60	3	10.13	30.38
4	.50	4	10.50	31.50
4	.70	4	10.13	30.38
4	.75	4	10.50	31.50
4.5	.75	4	10.13	30.38
5	.50	4	10.50	31.50
5	.80	4	10.13	30.38
5	.90	4	10.50	31.50
6	.50	4	10.75	32.25
6	.75	4	10.75	32.25
6	1.00	4	10.75	32.25
6.3	1.00	4	11.63	34.88
7	.50	4	11.63	34.88
7	1.00	4	11.63	34.88
8	.75	4	11.50	34.50
8	1.00	4	11.50	34.50
8	1.25	4	11.50	34.50
8	1.50	4	11.59	34.76
9	.50	4	15.11	45.34
9	1.00	4	15.11	45.34
9	1.25	4	15.11	45.34
10	.75	4	16.38	49.13
10	1.00	4	16.38	49.13
10	1.25	4	16.38	49.13
10	1.50	4	17.25	51.75
11	.75	4	21.99	65.96
11	1.25	4	21.99	65.96
11	1.50	4	21.99	65.96
12	1.00	4	26.25	78.75
12	1.25	4	26.25	78.75
12	1.50	4	26.25	78.75
12	1.75	4	25.99	77.96
13	1.25	4	39.00	117.00
14	1.00	4	39.00	117.00
14	1.25	4	39.00	117.00
14	1.50	4	39.00	117.00
14	2.00	4	39.00	117.00
15	1.00	4	47.84	143.51
15	1.50	4	47.84	143.51
15	2.00	4	47.84	143.51
16	1.00	4	47.84	143.51
16	1.50	4	47.84	143.51
16	2.00	4	47.84	143.51

Call
for special
taps.

TAPS

METRIC TAPS

High Speed Steel



Taper: 7-10 Thread Chamfer



Plug: 3-5 Thread Chamfer



Bottoming: 1-2 Thread Chamfer

TAPS

Series MT — HSS, Ground Thread (Cont'd)

Series MT-S — 3 Piece Set: Plug, Bottoming and Taper Chamfer (Cont'd)

Size	Pitch mm	No. of Flutes	Import Price Each	Import Price 3 Pc. Set
17	1.50	4	64.25	192.75
18	1.00	4	64.25	192.75
18	1.50	4	64.25	192.75
18	2.00	4	64.25	192.75
18	2.50	4	64.25	192.75
20	1.00	4	87.36	262.09
20	1.50	4	87.36	262.09
20	2.00	4	87.36	262.09
20	2.50	4	87.36	262.09
22	1.00	4	90.94	272.81
22	1.50	4	90.94	272.81
22	2.00	4	90.94	272.81
22	2.50	4	90.94	272.81
24	1.00	4	116.74	350.21
24	1.50	4	116.74	350.21
24	2.00	4	116.74	350.21
24	3.00	4	116.74	350.21
25	1.50	4	204.94	614.81
26	1.50	4	204.94	614.81
27	1.50	4	150.63	451.88
27	2.00	4	150.63	451.88
27	3.00	4	142.38	427.14
28	1.50	4	246.49	739.46
30	1.50	4	246.49	739.46
30	2.00	4	246.49	739.46
30	3.00	4	246.49	739.46
30	3.50	4	246.49	739.46
32	1.50	4	262.94	788.81
32	2.00	4	246.49	739.46
33	1.50	4	335.74	1007.21
33	2.00	4	262.94	788.81
33	3.50	4	262.94	788.81
34	1.50	4	335.74	1007.21
35	1.00	4	335.74	1007.21
36	1.50	4	335.74	1007.21
36	2.00	4	335.74	1007.21
36	3.00	4	335.74	1007.21
36	4.00	4	335.74	1007.21
38	1.50	4	443.40	1330.20
39	3.00	6	443.40	1330.20
39	4.00	6	443.40	1330.20
40	1.50	6	570.00	1710.00
42	1.50	6	570.00	1710.00
42	2.00	6	570.00	1710.00
45	1.50	6	570.00	1710.00
45	4.00	6	570.00	1710.00
45	4.50	6	570.00	1710.00
48	1.50	6	606.25	1818.75
48	3.00	6	606.25	1818.75
48	5.00	6	606.25	1818.75
52	1.50	6	748.75	2246.25
52	5.00	6	748.75	2246.25

Call
for special
taps.

DIES

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SPLIT DIES

Standard Round Adjustable

Screw Adjusting Type, Right Hand
Series RD



Fractional and Machine
Screw Sizes

Size	Threads Per Inch	Price Each
------	------------------------	---------------

13/16" Diameter		
0	80	14.89
1	64	14.89
1	72	14.89
2	56	14.89
2	64	14.89
3	48	14.89
3	56	14.89
4	40	14.89
4	48	14.89
5	40	14.89
5	44	14.89
6	32	14.89
6	40	14.89
8	32	14.89
8	36	14.89
10	24	14.89
10	32	14.89
12	24	14.89
12	28	14.89
1/4	20	14.89
1/4	28	14.89
5/16	18	14.89
5/16	24	14.89
1" Diameter		
0	80	—
1	64	—
1	72	—
2	56	—
2	64	—
3	48	—
3	56	—
4	40	17.98
4	48	17.98
5	40	17.98
5	44	17.98
6	32	17.98
6	40	17.98
8	32	17.98
8	36	17.98
10	24	17.98
10	32	17.98

Fractional and Machine Screw Sizes (Cont'd)

Size	Threads Per Inch	Price Each
12	24	17.98
12	28	17.98
1/4	20	17.98
1/4	28	17.98
5/16	18	17.98
5/16	24	17.98
3/8	16	17.98
3/8	24	17.98
7/16	14	17.98
7/16	20	17.98
1/2	13	17.98
1/2	20	17.98
1-1/2" Diameter		
1/4	20	28.81
1/4	28	28.81
5/16	18	28.81
5/16	24	28.81
3/8	16	28.81
3/8	24	28.81
7/16	14	28.81
7/16	20	28.81
1/2	13	28.81
1/2	20	28.81
9/16	12	28.81
9/16	18	28.81
5/8	11	28.81
5/8	18	28.81
11/16	11	28.81
11/16	16	28.81
3/4	10	28.81
3/4	16	28.81
2" Diameter		
1/4	20	50.37
1/4	28	50.37
5/16	18	50.37
5/16	24	50.37
3/8	16	50.37
3/8	24	50.37
7/16	14	50.37
7/16	20	50.37
1/2	13	50.37
1/2	20	50.37

Size	Threads Per Inch	Price Each
9/16	12	50.37
9/16	18	50.37
5/8	11	50.37
5/8	18	50.37
11/16	11	50.37
11/16	16	50.37
3/4	10	50.37
3/4	16	50.37
7/8	19	50.37
7/8	14	50.37
1	8	50.37
1	12	50.37
1	14	50.37
2-1/2" Diameter		
1	8	—
1	12	—
1	14	—
1-1/8	7	97.92
1-1/8	12	97.92
1-1/4	7	97.92
1-1/4	12	97.92
1-3/8	6	97.92
1-3/8	12	97.92
1-1/2	6	97.92
3" Diameter		
1	8	163.37
1	12	163.37
1	14	163.37
1-1/8	7	163.37
1-1/8	12	163.37
1-1/4	7	163.37
1-1/4	12	163.37
1-3/8	6	163.37
1-3/8	12	163.37
1-1/2	6	163.37
1-1/2	12	163.37
1-3/4	5	163.37
1-3/4	12	163.37
2	4-1/2	163.37
2	12	163.37



SPLIT DIES

Metric

Standard Round Adjustable Metric Split Dies

Screw Adjusting Type



Series MRD — Right Hand

Quality Imports

Size mm	Pitch mm	Import Price Each
------------	-------------	-------------------------

13/16" Diameter		
1	.25	28.42
1.2	.25	—
1.4	.30	—
1.6	.35	28.42
1.7	.35	—
1.8	.35	—
2	.40	28.42
2.2	.45	—
2.3	.40	—
2.5	.45	28.42
2.6	.45	—
3	.50	—
3	.60	—
3.5	.60	—
4	.50	23.83
4	.70	23.83
4	.75	—
4.5	.50	—
4.5	.75	—
5	.50	—
5	.80	23.83
5	.90	—
6	.50	—
6	.75	—
6	1.00	—
7	1.00	—
8	1.00	—
8	1.25	—
1" Diameter		
1.6	.35	—
1.8	.35	—
2	.40	29.78
2.2	.45	29.78
2.3	.40	29.78
2.5	.45	29.78
2.6	.45	29.78
3	.50	29.78
3	.60	—
3.5	.60	29.78
4	.50	29.78
4	.70	29.78
4	.75	—
4.5	.50	29.78
4.5	.75	29.78
5	.50	29.78
5	.80	29.78
5	.90	—
5	1.00	29.78
5.5	.90	—
6	.50	29.78
6	.75	29.78
6	1.00	29.78
6	1.25	—

Size mm	Pitch mm	Import Price Each
------------	-------------	-------------------------

6.3	1.00	—
7	.75	29.78
7	1.00	29.78
8	.75	29.78
8	1.00	29.78
8	1.25	29.78
9	1.00	—
9	1.25	—
10	.75	29.78
10	1.00	29.78
10	1.25	29.78
10	1.50	29.78
11	1.00	—
11	1.50	29.78
12	1.00	29.78
12	1.25	—
12	1.75	—
1-1/2" Diameter		
6	1.00	—
7	1.00	—
8	1.25	—
9	1.00	47.41
9	1.25	47.41
10	.75	47.41
10	1.00	47.41
10	1.25	47.41
10	1.50	—
11	1.00	47.41
11	1.50	47.41
12	1.00	47.41
12	1.25	47.41
12	1.50	47.41
12	1.75	47.41
14	1.00	47.41
14	1.25	47.41
14	1.50	47.41
14	2.00	47.41
15	1.50	47.41
16	1.00	47.41
16	1.50	47.41
16	2.00	47.41
17	1.50	47.41
18	1.50	47.41
18	2.00	47.41
18	2.50	47.41
20	1.50	47.41
20	2.00	—
20	2.50	—
2" Diameter		
15	1.50	—
16	1.00	—
16	1.50	—
16	2.00	—
17	1.50	—

Size mm	Pitch mm	Import Price Each
------------	-------------	-------------------------

18	1.50	—
18	2.00	—
18	2.50	82.41
20	1.50	82.41
20	2.00	82.41
20	2.50	82.41
22	1.00	82.41
22	1.50	82.41
22	2.00	82.41
22	2.50	82.41
24	1.50	82.41
24	2.00	82.41
24	3.00	82.41
26	1.50	82.41
27	2.00	82.41
27	3.00	82.41
28	1.50	82.41
30	1.50	82.41
30	2.00	82.41
30	3.50	—
2-1/2" Diameter		
22	1.00	—
22	1.50	—
22	2.00	—
22	2.50	—
24	1.50	—
24	2.00	—
24	3.00	—
26	1.50	—
27	2.00	—
27	3.00	—
28	1.50	—
28	2.00	—
30	1.50	—
30	2.00	—
30	3.00	—
30	3.50	—
33	2.00	126.49
33	3.50	—
36	2.00	—
36	3.00	—
36	4.00	—
3" Diameter		
30	2.00	—
30	3.00	—
30	3.50	—
36	3.00	—
36	4.00	—
39	3.00	—
39	4.00	—
42	4.50	—
45	4.50	165.63
48	5.00	—

DIES

SPLIT DIES

Left Hand



Left Hand Round Adjustable Split Dies

High Speed Steel



Series RDL — Left Hand

Fractional and Machine Screw Sizes

Size	Threads per Inch	Price Each
------	------------------	------------

Size	Threads per Inch	Price Each
------	------------------	------------

Size	Threads per Inch	Price Each
------	------------------	------------

13/16" Diameter

0	80	72.38
2	56	72.38
2	64	72.38
4	40	72.38
5	40	72.38
6	32	72.38
8	32	72.38
10	24	72.38

1" Diameter

3	56	88.89
4	40	88.89
4	48	88.89
5	40	88.89
5	44	88.89
6	32	88.89
6	40	88.89
8	32	88.89
8	36	88.89
10	24	88.89
10	32	88.89
12	24	88.89
12	28	88.89
1/4	20	88.89
1/4	28	88.89
5/16	18	88.89
5/16	24	88.89
3/8	16	88.89
3/8	24	88.89
7/16	14	88.89
7/16	20	88.89
1/2	13	88.89
1/2	20	88.89
9/16	12	88.89

1-1/2" Diameter

1/4	20	137.14
1/4	28	137.14
5/16	18	137.14
5/16	24	137.14
3/8	16	137.14
3/8	24	137.14
7/16	14	137.14
7/16	20	137.14
1/2	13	137.14
1/2	20	137.14
9/16	12	137.14
9/16	18	137.14
5/8	11	137.14
5/8	18	137.14
11/16	11	137.14
11/16	16	137.14
3/4	10	137.14
3/4	16	137.14

2" Diameter

3/4	10	233.66
3/4	16	233.66
7/8	9	233.66
7/8	14	233.66
1	8	233.66
1	12	233.66
1	14	233.66

2-1/2" Diameter

1-1/8	7	323.81
1-1/8	12	323.81
1-1/4	7	323.81
1-1/4	12	323.81
1-3/8	6	323.81
1-3/8	12	323.81
1-1/2	6	323.81
1-1/2	12	323.81

3" Diameter

1-1/2	6	594.29
1-1/2	12	594.29
1-3/4	5	594.29
2	4-1/2	594.29

See
round die stocks
pg. 94



Quality Imports

Round Adjustable Special Thread Split Dies

High Speed Steel

Series RD—Right Hand



Size	Threads per Inch	Import Price Each
13/16" Diameter		
4	36	39.58
5	48	39.58
6	36, 48	39.58
8	40	39.58
10	36, 40, 48, 56, 64	39.58
12	32	39.58
7/32	32	39.58
9/32	32	39.58
1" Diameter		
4	36, 56, 60, 64	41.53
5	48, 56, 64	41.53
6	30, 36, 48, 56	41.53
8	24, 30, 40, 48, 56, 64	41.53
10	26, 27, 28, 30, 36, 40, 48, 56, 64, 80	41.53
12	26, 27, 30, 32, 36, 40, 48, 50	41.53
5/32	40	41.53
7/32	24, 32, 40	41.53
14	27, 28, 30, 32	41.53
1/4	14, 16, 18, 22, 24, 26, 27, 30, 32, 36, 40, 48, 56, 64, 80	41.53
5/16	16, 20, 22, 26, 27, 28, 30, 32, 36, 40, 48, 56, 64, 80	41.53
3/8	14, 18, 20, 22, 26, 27, 28, 30, 32, 36, 40, 48, 56, 64, 72	41.53
13/32	32	41.53
7/16	12, 16, 18, 24, 27, 28, 30, 32, 36, 40, 48	41.53
1/2	12, 14, 16, 18, 22, 24, 27, 28, 30, 32, 36, 40, 48, 56	41.53
1-1/2" Diameter		
1/4	22, 24, 27, 30, 32, 36, 40, 48	62.50
5/16	16, 20, 22, 27, 28, 30, 32, 36, 40, 48	62.50
3/8	14, 18, 20, 22, 26, 27, 28, 30, 32, 36, 40, 48	62.50
7/16	12, 16, 18, 22, 24, 27, 28, 30, 32, 36, 40, 48	62.50
15/32	32	62.50
1/2	12, 14, 16, 18, 28, 22, 24, 27, 28, 30, 32, 36, 40, 48	62.50
9/16	14, 16, 20, 22, 24, 27, 28, 30, 32, 36, 40, 48	62.50
5/8	10, 12, 14, 16, 20, 22, 24, 26, 27, 28, 30, 32, 36, 40, 48	62.50
11/16	12, 14, 18, 20, 24, 27, 32, 36, 40	62.50
3/4	11-1/2, 12, 14, 18, 20, 24, 27, 28, 30, 32, 36, 40, 48	62.50
13/16	10, 12, 16, 20, 24, 28, 32	62.50
2" Diameter		
7/16	18, 24	106.81
1/2	12, 16, 18, 24, 27, 28, 30, 32	106.81
9/16	14, 20, 24, 27, 28, 30, 32, 36	106.81
5/8	10, 12, 14, 16, 20, 24, 27, 28, 30, 32, 40	106.81

DIES

Quality Imports



Round Adjustable Special Thread Split Dies

High Speed Steel

Series RD—Right Hand (Cont'd)

Size	Threads per Inch	Import Price Each
11/16	12, 14, 18, 20, 24, 27, 28, 32, 36, 40	106.81
3/4	12, 14, 18, 20, 24, 27, 28, 32, 36, 40	106.81
13/16	10, 12, 14, 16, 18, 20, 24, 27, 28, 30, 32, 36, 40	106.81
7/8	10, 12, 16, 18, 20, 24, 27, 28, 30, 32, 36, 40, 48	106.81
15/16	10, 12, 14, 16, 18, 20, 24, 27, 28, 30, 32	106.81
1	10, 16, 18, 20, 24, 26, 27, 28, 30, 32, 36, 40, 48, 56	106.81
1-1/16	12, 14, 16, 18	106.81
2-1/2" Diameter		
1	10, 16, 18, 20, 24, 26, 27, 28, 32	147.22
1-1/16	7, 8, 10, 12, 14, 16, 18, 20, 24, 28	147.22
1-1/8	8, 10, 14, 16, 17, 20, 24, 27, 28, 30, 32	147.22
1-3/16	7, 8, 10, 12, 14, 16, 18, 20, 24, 27, 28, 32	147.22
1-1/4	6, 8, 10, 14, 16, 18, 20, 24, 26, 27, 28, 30, 32, 36, 40	147.22
1-5/16	8, 12, 14, 16, 18, 20, 24, 27, 32	147.22
1-3/8	7, 8, 10, 14, 16, 18, 20, 24, 27, 32	147.22
1-7/16	6, 8, 12, 16, 18, 20	147.22
1-1/2	7, 8, 10, 14, 16, 18, 20, 24, 27, 30, 32	147.22
3" Diameter		
1	10, 16, 18, 20, 24	270.83
1-1/16	8, 10, 12, 14, 16, 18, 20, 24	270.83
1-1/8	8, 10, 14, 16, 18, 20, 24	270.83
1-3/16	8, 12, 16	270.83
1-1/4	6, 8, 10, 14, 16, 18, 20, 24	270.83
1-5/16	8, 10, 12, 14, 16, 18, 20	270.83
1-3/8	8, 10, 14, 16, 18, 20, 24	270.83
1-7/16	6, 8, 12, 16, 18	270.83
1-1/2	8, 10, 14, 16, 18, 20, 24	270.83
1-9/16	6, 8, 12, 16, 18, 20, 32	270.83
1-5/8	5, 5-1/2, 6, 8, 10, 12, 14, 16, 18, 20	270.83
1-11/16	6, 8, 12, 16, 18	270.83
1-3/4	5-1/2, 6, 8, 10, 14, 16, 18, 20, 24	270.83
1-13/16	8, 10, 12, 14, 16, 18, 20	270.83
1-7/8	5, 5-1/2, 6, 8, 10, 12, 14, 16, 18, 20	270.83
1-15/16	10, 12, 14, 16, 18, 20	270.83
2	4, 6, 8, 10, 14, 16, 18, 20, 24	270.83
4" Diameter		
2-1/8	18	333.33
2-1/4	4-1/2, 8, 12, 16	333.33
2-3/8	16	333.33
2-1/2	4, 8, 12	333.33
2-3/4	12, 16	333.33
3	8, 12	333.33



NPT Pipe Sizes, Right Hand

Series RPD

Size	Threads Per Inch	Price Each
1" Diameter		
1/16	27	27.84
1/8	27	27.84
1-1/2" Diameter		
1/8	27	44.86
1/4	18	44.86
3/8	18	—
1/2	14	—
2" Diameter		
1/4	18	78.88
3/8	18	78.88
1/2	14	78.88
3/4	14	78.88

NPS Pipe Sizes, Right Hand

Series RPSD

Size	Threads Per Inch	Price Each
2-1/2" Diameter		
1	11-1/2	111.36
3" Diameter		
1-1/4	11-1/2	182.94
1-1/2	11-1/2	182.94
4" Diameter		
1-1/2	11-1/2	—
2	8	—
5" Diameter		
2-1/2	8	—
3	8	—

DIES

Solid Square Pipe Dies

Carbon Steel

Series SPD

Size	Threads per Inch	Price Each			
		2" Square 1/2" Deep	2-1/2" Square 3/4" Deep	3" Square 3/4" Deep	4" Square 1" Deep
1/8	27	110.88	134.34	—	—
1/4	18	110.88	134.34	—	—
3/8	18	110.88	134.34	—	—
1/2	14	110.88	134.34	227.81	—
3/4	14	—	134.34	227.81	—
1	11-1/2	—	134.34	227.81	250.16
1-1/4	11-1/2	—	—	227.81	250.16
1-1/2	11-1/2	—	—	—	250.16
2	11-1/2	—	—	—	250.16



RETHREADING DIES

Quality Imports

Hexagon Special Rethreading Dies

Carbon Steel

Series CHD — Right Hand



Size	Threads per Inch Available	Import Price Each
1/4	24, 27, 32, 36, 40, 48	19.83
5/16	16, 20, 27, 32, 40	21.88
3/8	18, 20, 27, 32, 40	23.04
7/16	24, 28, 32, 40	25.96
1/2	16, 18, 24, 28, 32, 40	27.71
9/16	16, 20, 24, 32	29.46
5/8	16, 20, 24, 32	34.13
11/16	18, 20, 24	38.21
3/4	18, 20, 24, 32	45.21
13/16	16, 20, 24, 32	50.75
7/8	16, 18, 20, 24, 32, 40	50.75
15/16	14, 16, 18, 20	58.04
1	10, 16, 18, 20, 24, 32	58.04
1-1/16	8, 12, 16, 18	67.96
1-1/8	8, 16, 18, 20	67.96
1-3/16	8, 10, 12, 18	81.67
1-1/4	5, 8, 10, 16, 18, 20	81.67
1-5/16	8, 12, 18	87.21
1-3/8	7, 8, 10, 16, 18, 20	87.21
1-7/16	6, 8, 12, 16, 18	94.50
1-1/2	8, 14, 16, 18, 20	94.50
1-9/16	12, 16, 18, 20	144.24
1-5/8	4, 5, 5-1/2, 6, 8, 10, 12, 14, 16, 18	144.24
1-11/16	18	174.28
1-3/4	5-1/2, 6, 8, 10, 14, 16, 18, 20	174.28
1-13/16	12, 18	255.50
1-7/8	5, 8, 12, 16, 18	255.50
2	4, 8, 10, 12, 14, 16, 18, 20, 24	255.50
2-1/8	6, 8, 12, 14, 16, 18	350.00
2-1/4	4, 6, 8, 10, 12, 14, 16, 18	350.00
2-3/8	4, 8, 10, 12, 14, 18	408.33
2-1/2	4-1/2, 5, 6, 8, 10, 12, 16, 18	408.33
2-5/8	6, 8, 12, 14, 16	554.17
2-3/4	6, 8, 10, 12, 14, 18	554.17
2-7/8	6, 8, 12	609.94
3	8, 12	609.94
3-1/8	4, 8, 12	766.72
3-1/4	5, 8, 12	766.72
3-3/8	4, 8, 12	828.33
3-1/2	8, 12	828.33
3-5/8	4, 8, 12	889.58
3-3/4	8, 12	889.58
3-7/8	4, 8, 12	984.38
4	8, 12	984.38

RETHREADING DIES

Hexagon Rethreading Dies

Carbon Steel

Series CHD - Right Hand

Series LCHD - Left Hand

Fractional and
Machine Screw Sizes

Size	Threads Per Inch	Price Each		
		USA RH	Import RH	Import LH

2	56	—	—	—
4	36	—	—	—
4	40	—	11.31	—
4	48	—	11.31	—
5	40	—	11.31	—
5	44	—	11.31	—
6	32	—	11.31	—
6	40	—	11.31	—
8	32	—	11.31	—
8	36	—	11.31	—
10	24	—	11.31	—
10	32	—	11.31	—
12	24	—	11.31	—
12	28	—	11.31	—
1/4	20	13.44	10.19	18.12
1/4	28	13.44	10.19	18.12
5/16	18	13.44	11.41	20.06
5/16	24	13.44	11.41	20.06
3/8	16	13.44	11.76	22.71
3/8	24	13.44	11.76	22.71
7/16	14	13.44	14.50	23.69
7/16	20	13.44	14.50	23.69
1/2	13	13.44	15.71	29.00
1/2	20	13.44	15.71	29.00
9/16	12	29.56	16.97	35.29
9/16	18	29.56	16.97	35.29
5/8	11	29.56	19.72	37.94
5/8	18	29.56	19.72	37.94
11/16	11	37.33	25.86	—
11/16	16	37.33	25.86	—
3/4	10	29.56	25.86	43.26
3/4	16	29.56	25.86	43.26
7/8	9	57.78	29.00	59.93
7/8	14	57.78	29.00	59.93
1	8	57.78	36.59	61.62
1	12	57.78	36.59	61.62
1	14	57.78	36.59	—
1-1/8	7	—	52.50	93.04
1-1/8	12	—	52.50	93.04
1-1/4	7	—	59.25	103.43
1-1/4	12	—	59.25	103.43
1-3/8	6	—	66.25	119.14
1-3/8	12	—	66.25	119.14
1-1/2	6	—	75.00	154.42
1-1/2	12	—	75.00	154.42
1-5/8	5-1/2	—	160.00	—
1-3/4	5	—	192.00	241.19
2	4-1/2	—	240.50	390.29
2-1/4	4-1/2	—	—	—
2-1/2	4	—	—	—
2-3/4	4	—	—	—
3	4	—	—	—
3-1/4	4	—	—	—
3-1/2	4	—	—	—
3-3/4	4	—	—	—
4	4	—	—	—

Series MHD -
Right Hand
Metric Sizes

Size mm	Pitch mm	Import Price Each
---------	-------------	-------------------------

3	.50	16.19
3	.60	16.19
3.5	.60	16.19
4	.70	16.19
4	.75	16.19
4.5	.75	16.19
5	.80	16.19
5	.90	16.19
6	.75	16.19
6	1.00	14.91
6.3	1.00	16.19
7	1.00	16.92
8	1.00	16.92
8	1.25	16.92
9	1.00	18.61
9	1.25	18.61
10	1.25	24.41
10	1.50	26.10
11	1.50	26.10
12	1.25	28.03
12	1.50	28.03
12	1.75	28.03
14	1.50	29.97
14	2.00	29.97
16	1.50	34.30
16	2.00	34.30
18	1.50	41.09
18	2.00	41.09
18	2.50	41.09
20	1.50	47.61
20	2.50	47.61
22	1.50	50.02
22	2.50	50.02
24	2.00	53.89
24	3.00	53.89
26	1.50	56.06
27	2.00	59.93
27	3.00	59.93
28	1.50	61.94
30	2.00	71.29
30	3.50	71.29
33	2.00	91.59
33	3.50	91.59
36	3.00	107.06
36	4.00	107.06
39	3.00	116.49
39	4.00	116.49
40	1.50	138.96
42	1.50	155.39
42	3.00	155.39
45	1.50	194.37
45	4.50	194.37
48	1.50	229.97
48	5.00	229.97
52	1.50	298.56
52	5.00	298.56



High Speed Hexagon Rethreading Dies

Carbon Steel

Series HHD

Size	Threads per Inch	Import Price Each
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1/4	20	27.17
1/4	28	272.72
5/16	18	30.54
5/16	24	30.54
3/8	16	33.93
3/8	24	33.93
7/16	14	36.63
7/16	20	36.63
1/2	13	46.11
1/2	20	46.11
9/16	12	55.68
9/16	18	55.68
5/8	11	61.09
5/8	18	61.09
3/4	10	67.86
3/4	16	67.86
7/8	9	81.39
7/8	14	81.39
1	8	94.92
1	12	94.92
1	14	94.92

NPT Hexagon Rethreading Dies

Series NHD

Size	Threads Per Inch	Import Price Each
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1/8	27	15.18
1/4	18	19.91
3/8	18	29.49
1/2	14	35.96
3/4	14	54.62
1	11-1/2	87.00
1-1/4	11-1/2	140.36
1-1/2	11-1/2	217.50
2	11-1/2	416.67
2-1/2	8	—
3	8	—

DIES

TAP AND DIE SETS



Tap and Die Sets



Set No. 6040HS — \$ 960.56

40 Piece Inch HSS Tap & Round Adjustable Die Set		
Tap and Dies Included Sizes		Tools Included
4-40	5/16-24	•3 Tap Wrenches •1 Die Stock (1"OD) •1 Screw Pitch Gauge •1 Screwdriver
6-32	3/8-16	
8-32	3/8-24	
10-24	7/16-14	
10-32	7/16-20	
12-24	1/2-13	
1/4-20	1/2-20	
1/4-28	1/8 NPT	
5/16-18		

Set No. 6040 — \$ 486.44

40 Piece Inch Carbon Tap & Round Adjustable Die Set		
Tap and Dies Included Sizes		Tools Included
4-40	5/16-24	•3 Tap Wrenches •1 Die Stock (1"OD) •1 Screw Pitch Gauge •1 Screwdriver
6-32	3/8-16	
8-32	3/8-24	
10-24	7/16-14	
10-32	7/16-20	
12-24	1/2-13	
1/4-20	1/2-20	
1/4-28	1/8 NPT	
5/16-18		

Set No. 6596 — \$ 443.33

40 Piece Carbon Metric Tap & Round Adjustable Die Set		
Tap and Dies Included Sizes		Tools Included
3x0.50	8x1.25	•1 Tap Wrench •1 Piece Die Stock(1"OD) •1 Screw Pitch Gauge •1 Screwdriver
3x0.60	9x1.00	
4x0.70	9x1.25	
4x0.75	10x1.25	
5x0.80	10x1.50	
5x0.90	11x1.50	
6x1.00	12x1.50	
7x1.00	12x1.75	
8x1.00	1/8 NPT	



TAP AND DIE SETS



Set No. 6076 — \$ 759.44

77 Piece Carbon Fractional and Metric Tap & Hex Die Set		
Tap and Dies Included Sizes		Tools Included
4-40	3x0.50	•1 Die stock
6-32	4x0.70	•1 Plain Die stock
8-32	4x0.75	•1 T-Tap Wrench
10-24	5x0.80	•1 Hex Nut with 3/8 Sq. Drive
10-32	5x0.90	•1 Hex Nut Screw Pitch Gauge
12-24	6x1.00	(Metric)
1/4-20	7x1.00	•1 Screw Pitch Gauge
1/4-28	8x1.00	•1 Screwdriver
5/16-18	8x1.25	•2 Adj. Handle Tap Wrenches
5/16-24	9x1.00	
3/8-16	9x1.25	
3/8-24	10x1.25	
7/16-14	10x1.50	
7/16-20	11x1.50	
1/2-13	12x1.50	
1/2-20	12x1.75	
1/8-27 NPT	1/8-28 BSP	

Set No. 6020 — \$403.89

12 Piece Carbon Pipe Tap & Hex Die Set	
Tap and Dies Included Sizes	
1/8 NPT	
1/4	
3/8	
1/2	
3/4	
1"	



Set No. 6039 — \$989.00

58 Piece Master Carbon Tap & Hex Die Set		
Tap and Dies Included Sizes		Tools Included
1/4-20 NC	5/8-11 NC	•5 Screw Extractors (#1 through #5)
1/4-28 NF	5/8-18 NF	•T-Handle Tap Wrench
5/16-18 NC	3/4-10 NC	•2 Tap & Reamer Wrenches
5/16-24 NF	3/4-16 NF	•2 Die Stocks
3/8-16 NC	1/8-27 NPT	•1 US Screw Pitch Gauge
3/8-24 NF	1/4-18 NPT	•1 Screwdriver
7/16-14 NC	6-32 NC	
7/16-20 NF	8-32 NC	
1/2-13 NC	10-32 NF	
1/2-20 NF	10-24 NC	
9/16-12 NC	12-24 NC	
9/16-18 NF		



DIES

Set No. 6077 — \$1737.80

77 Piece Master Carbon Tap & Hex Die Set		
Tap and Dies Included Sizes		Tools Included
1/4-20 NC	3/4-16 NF	•7 Screw Extractors (#1 through #7)
1/4-28 NF	7/8-9 NC	•T-Handle Tap Wrench
5/16-18 NC	7/8-14 NF	•3 Tap & Reamer Wrenches
5/16-24 NF	1-8 NC	•3 Die Stocks
3/8-16 NC	1-12 NF	•1 US Screw Pitch Gauge
3/8-24 NF	1/8-27 NPT	•1 Screwdriver
7/16-14 NC	1/4-18 NPT	
7/16-20 NF	3/8-18 NPT	
1/2-13 NC	1/2-14 NPT	
1/2-20 NF	4-40 NC	
9/16-12 NC	6-32 NC	
9/16-18 NF	8-32 NC	
5/8-11 NC	10-32 NF	
5/8-18 NF	10-24 NC	
3/4-10 NC	12-24 NC	



TAP WRENCHES / DIE STOCKS

Quality Imports

Series TW500 — Straight Type



Tool Holding Capacity				Tool No.	Import Price Each
Fractional Tap Sizes	Machine Screw Tap Sizes	Pipe Tap Sizes	Hand Reamer Sizes		
1/16 - 1/4	0-14	—	1/8 - 21/64	TW0	12.32
5/32 - 1/2	8-14	1/8	11/64 - 7/16	TW5	18.98
5/32 - 3/4	8-14	1/8 - 1/4	11/64 - 41/64	TW6	26.82
1/4 - 1-1/8	—	1/8 - 3/4	9/32 - 29/32	TW7	51.96
1/2 - 1-3/8	—	1/8 - 1	3/8 - 1-5/32	TW75	90.62
3/4 - 1-5/8	—	3/8 - 1-1/4	37/64 - 1-11/32	TW8	144.28

T-Handle Tap Wrenches Series THT - Plain Type

Holding Capacity		Tool No.	Import Price Each
Fractional Tap Sizes	Machine Screw Tap Sizes		
1/16-5/32	0-8	TWH-1	12.57
5/32-1/4	8-12	TWH-2	13.78
1/4-1/2	12	TWH-3	19.23



Reversible Ratchet Type Series THT-R

Holding Capacity		Tool No.	Import Price Each
Fractional Tap Sizes	Machine Screw Tap Sizes		
5/32-1/4	8-12	TWR-2	17.38
1/4-1/2	12	TWR-3	22.76



Round Die Stocks Series DS500



Diameter of Die	Import Price Each
13/16	12.71
1	14.21
1-1/2	20.30
2	27.93
2-1/2	54.81
3	80.04

REAMERS

Chucking Reamers.....	96–99
Expansion Chucking Reamers	100
Jobber Reamers	101
Taper Pipe Reamers	102
Taper Pin Reamers	102
Shell Reamers.....	103
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CHUCKING REAMERS

HSS - Straight Shank

Quality Imports

Special Sizes Also Available



Series 533 — Straight Flute



Series 535 — Spiral Flute

Fractional Sizes

Size	Decimal Equiv.	Flute Length	OAL	Import Price Each	
				Straight Flute	Spiral Flute
1/32	.0312	1/2	2-1/2	—	—
3/64	.0469	1/2	2-1/2	—	—
1/16	.0625	1/2	2-1/2	—	—
5/64	.0781	3/4	3	—	—
3/32	.0938	3/4	3	—	—
7/64	.1094	7/8	3-1/2	—	—
1/8	.1250	7/8	3-1/2	15.79	18.92
9/64	.1406	1	4	15.01	16.97
5/32	.1562	1	4	15.01	16.97
11/64	.1719	1-1/8	4-1/2	16.44	16.97
3/16	.1875	1-1/8	4-1/2	16.44	18.53
13/64	.2031	1-1/4	5	17.88	19.70
7/32	.2188	1-1/4	5	17.88	19.70
15/64	.2344	1-1/2	6	19.06	21.14
1/4	.2500	1-1/2	6	19.06	21.14
17/64	.2656	1-1/2	6	20.49	22.71
9/32	.2812	1-1/2	6	20.49	22.71
19/64	.2969	1-1/2	6	20.49	22.71
5/16	.3125	1-1/2	6	20.49	22.71
21/64	.3281	1-1/2	6	21.92	25.32
11/32	.3438	1-1/2	6	21.92	25.32
23/64	.3594	1-3/4	7	24.40	28.06
3/8	.3750	1-3/4	7	24.40	28.06
25/64	.3906	1-3/4	7	24.40	28.06
13/32	.4062	1-3/4	7	24.40	28.06
27/64	.4219	1-3/4	7	24.40	28.06
7/16	.4375	1-3/4	7	24.40	28.06
29/64	.4531	1-3/4	7	—	—
15/32	.4688	1-3/4	7	27.01	31.06
31/64	.4844	2	8	—	—
1/2	.5000	2	8	32.50	37.84
33/64	.5156	2	8	—	—
17/32	.5312	2	8	33.93	37.84
35/64	.5469	2	8	—	—
9/16	.5625	2	8	33.93	42.02
37/64	.5781	2	8	—	—
19/32	.5938	2	8	36.41	42.02
39/64	.6094	2-1/4	9	—	—
5/8	.6250	2-1/4	9	39.28	47.77
41/64	.6406	2-1/4	9	—	—

CHUCKING REAMERS

HSS - Straight Shank

Quality Imports

Special Sizes Also Available



Series 533 — Straight Flute



Series 535 — Spiral Flute

Fractional Sizes (Cont'd)

Size	Decimal Equiv.	Flute Length	OAL	Import Price Each	
				Straight Flute	Spiral Flute
21/32	.6562	2-1/4	9	41.89	47.77
43/64	.6719	2-1/4	9	—	—
11/16	.6875	2-1/4	9	41.89	47.77
45/64	.7031	2-1/4	9	—	—
23/32	.7188	2-1/4	9	47.24	54.81
47/64	.7344	2-1/2	9-1/2	—	—
3/4	.7500	2-1/2	9-1/2	52.72	61.86
49/64	.7656	2-1/2	9-1/2	—	—
25/32	.7812	2-1/2	9-1/2	54.02	68.64
51/64	.7969	2-1/2	9-1/2	—	—
13/16	.8125	2-1/2	9-1/2	54.02	68.64
53/64	.8281	2-1/2	9-1/2	—	—
27/32	.8438	2-1/2	9-1/2	61.08	68.64
55/64	.8594	2-5/8	10	—	—
7/8	.8750	2-5/8	10	66.56	77.26
57/64	.8906	2-5/8	10	—	—
29/32	.9062	2-5/8	10	67.60	77.26
59/64	.9219	2-5/8	10	—	—
15/16	.9375	2-5/8	10	67.60	87.18
61/64	.9531	2-5/8	10	—	—
31/32	.9688	2-5/8	10	75.91	87.18
63/64	.9844	2-3/4	10-1/2	—	—
1	1.0000	2-3/4	10-1/2	80.91	96.83
1-1/32	1.0313	2-3/4	10-1/2	80.91	—
1-1/16	1.0625	2-3/4	10-1/2	80.91	96.83
1-3/32	1.0938	2-7/8	11	93.18	—
1-1/8	1.1250	2-7/8	11	93.18	106.74
1-5/32	1.1562	2-7/8	11	102.58	—
1-3/16	1.1875	2-7/8	11	102.58	117.46
1-1/4	1.2500	3	11-1/2	114.58	131.54
1-5/16	1.3125	3	11-1/2	125.54	142.77
1-3/8	1.3750	3-1/4	12	139.11	156.86
1-7/16	1.4375	3-1/4	12	149.81	170.96
1-1/2	1.5000	3-1/2	12-1/2	161.82	184.79
1-9/16	1.5625	3-1/2	12-1/2	—	—
1-5/8	1.6250	3-5/8	13	—	—
1-11/16	1.6875	3-5/8	13	—	—
1-3/4	1.7500	4	13-1/2	—	—
1-7/8	1.8750	4	14	—	—
2	2.0000	4	14	—	—

CHUCKING REAMERS

HSS - Straight Shank

Quality Imports

Chuckling Reamers

High Speed Steel - Straight Shank



Series 533 — Straight Flute

Wire Gauge Sizes

Size	Decimal Equiv.	Flute Length	OAL	Import Price Each
				Straight Flute
1	.2280	1-1/2	6	18.14
2	.2210	1-1/2	6	18.14
3	.2130	1-1/4	5	18.14
4	.2090	1-1/4	5	18.14
5	.2055	1-1/4	5	18.14
6	.2040	1-1/4	5	18.14
7	.2010	1-1/4	5	18.14
8	.1990	1-1/4	5	18.14
9	.1960	1-1/4	5	18.14
10	.1935	1-1/4	5	18.14
11	.1910	1-1/4	5	18.14
12	.1890	1-1/8	4-1/2	18.14
13	.1850	1-1/8	4-1/2	16.70
14	.1820	1-1/8	4-1/2	16.70
15	.1800	1-1/8	4-1/2	16.70
16	.1770	1-1/8	4-1/2	16.70
17	.1730	1-1/8	4-1/2	16.70
18	.1695	1-1/8	4-1/2	16.70
19	.1660	1-1/8	4-1/2	16.70
20	.1610	1-1/8	4-1/2	16.70
21	.1590	1-1/8	4-1/2	16.70
22	.1570	1	4	15.27
23	.1540	1	4	15.27
24	.1520	1	4	15.27
25	.1495	1	4	15.27
26	.1470	1	4	15.27
27	.1440	1	4	15.27
28	.1405	1	4	15.27
29	.1360	1	4	15.27
30	.1285	7/8	3-1/2	12.66
31	.1200	7/8	3-1/2	13.31
32	.1160	7/8	3-1/2	13.31

REAMERS

**Quality Imports
for over
30 years!**

CHUCKING REAMERS

HSS - Taper Shank

Quality Imports



Series 536 — Straight Flute



Series 537 — Spiral Flute

Series 536 — Straight Flute • Series 537 — Spiral Flute

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each	
					Straight Flute	Spiral Flute
7/32	.2188	1-1/4	5	1	—	60.71
1/4	.2500	1-1/2	6	1	49.68	60.71
G	.2610	1-1/2	6	1	63.49	—
17/64	.2656	1-1/2	6	1	60.71	—
9/32	.2812	1-1/2	6	1	60.71	65.40
5/16	.3125	1-1/2	6	1	60.71	65.40
21/64	.3281	1-1/2	6	1	64.76	—
11/32	.3438	1-1/2	6	1	61.51	65.40
23/64	.3594	1-3/4	7	1	68.17	—
3/8	.3750	1-3/4	7	1	62.70	66.97
13/32	.4062	1-3/4	7	1	64.05	68.89
7/16	.4375	1-3/4	7	1	64.05	68.89
15/32	.4688	1-3/4	7	1	71.43	71.43
31/64	.4844	2	8	1	79.37	—
1/2	.5000	2	8	1	66.67	68.89
33/64	.5156	2	8	1	85.71	—
17/32	.5312	2	8	1	78.57	81.51
35/64	.5469	2	8	1	85.71	—
9/16	.5625	2	8	1	78.57	81.51
37/64	.5781	2	8	1	92.86	—
19/32	.5938	2	8	1	84.92	86.51
5/8	.6250	2-1/4	9	2	82.14	86.51
21/32	.6562	2-1/4	9	2	90.48	95.24
11/16	.6875	2-1/4	9	2	90.48	95.24
45/64	.7031	2-1/4	9	2	110.32	—
23/32	.7188	2-1/4	9	2	103.10	106.35
47/64	.7344	2-1/2	9-1/2	2	110.32	—
3/4	.7500	2-1/2	9-1/2	2	96.03	106.35
25/32	.7812	2-1/2	9-1/2	2	112.46	122.46
13/16	.8125	2-1/2	9-1/2	2	112.46	122.46
27/32	.8438	2-1/2	9-1/2	2	133.33	140.38
7/8	.8750	2-5/8	10	2	126.19	140.38
29/32	.9062	2-5/8	10	2	145.24	153.49
15/16	.9375	2-5/8	10	3	139.60	153.49
31/32	.9688	2-5/8	10	3	157.14	170.63
1	1.0000	2-3/4	10-1/2	3	153.97	170.63
1-1/32	1.0312	2-3/4	10-1/2	3	188.57	208.73
1-1/16	1.0625	2-3/4	10-1/2	3	173.02	188.89
1-1/8	1.1250	2-7/8	11	3	187.30	209.05
1-5/32	1.1562	2-7/8	11	3	228.57	252.38
1-3/16	1.1875	2-7/8	11	3	209.92	227.46
1-1/4	1.2500	3	11-1/2	4	227.30	250.00
1-5/16	1.3125	3	11-1/2	4	254.37	273.81
1-3/8	1.3750	3-1/4	12	4	274.60	296.03
1-7/16	1.4375	3-1/4	12	4	295.24	323.02
1-1/2	1.5000	3-1/2	12-1/2	4	317.46	342.06
1-3/4	1.7500	4	13-1/2	4	469.05	492.06
2	2.0000	4	14-1/2	4	583.33	611.11

EXPANSION CHUCKING REAMERS

High Speed Steel

Quality Imports



Series 531 — Straight Shank



Series 532 — Taper Shank

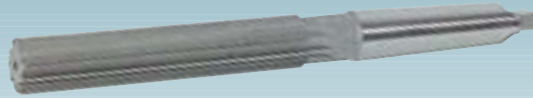
Series 531 — Straight Shank • Series 532 — Taper Shank

Size	Decimal Equiv.	Flute Length	OAL	Import Price Each		
				Straight Shank	Morse Taper No.	Taper Shank
11/32	.3438	3/4	6-3/4	128.57	—	—
3/8	.3750	3/4	7	121.86	1	140.27
13/32	.4062	3/4	7	126.92	1	146.00
7/16	.4375	7/8	7	131.90	1	151.68
15/32	.4688	7/8	7	136.75	1	157.40
1/2	.5000	1	8	141.70	1	162.95
17/32	.5312	1	8	146.62	1	168.57
9/16	.5625	1-1/8	8	151.59	1	174.35
19/32	.5938	1-1/8	8	156.49	1	180.00
5/8	.6250	1-1/4	9	161.38	2	185.73
21/32	.6562	1-1/4	9	165.97	2	190.48
11/16	.6875	1-1/4	9	170.60	2	196.19
23/32	.7188	1-1/4	9	175.24	2	196.35
3/4	.7500	1-3/8	9-1/2	179.84	2	206.94
25/32	.7812	1-3/8	9-1/2	186.51	2	214.51
13/16	.8125	1-3/8	9-1/2	192.90	2	221.87
27/32	.8438	1-3/8	9-1/2	199.57	2	229.54
7/8	.8750	1-1/2	10	206.03	2	236.95
29/32	.9062	1-1/2	10	212.76	2	244.76
15/16	.9375	1-1/2	10	219.30	3	252.33
31/32	.9688	1-1/2	10	222.29	3	259.10
1	1.0000	1-5/8	10-1/2	225.63	3	259.10
1-1/32	1.0312	1-5/8	10-1/2	251.98	3	289.68
1-1/16	1.0625	1-5/8	10-1/2	251.98	3	289.86
1-3/32	1.0938	1-3/4	10-1/2	268.25	3	315.87
1-1/8	1.1250	1-3/4	11	278.83	3	320.62
1-5/32	1.1562	1-5/8	10-1/2	305.08	3	350.79
1-3/16	1.1875	1-3/4	11	305.08	3	350.84
1-7/32	1.2188	1-7/8	11	341.27	4	388.89
1-1/4	1.2500	1-7/8	11-1/2	331.65	4	381.49
1-5/16	1.3125	1-7/8	11-1/2	345.06	4	396.86
1-3/8	1.3750	2	12	357.14	4	412.24
1-7/16	1.4375	2	12	371.49	4	427.40
1-1/2	1.5000	2-1/8	12-1/2	384.90	4	442.76
1-9/16	1.5625	2-1/8	12-1/2	416.98	4	444.05
1-5/8	1.6250	2-1/4	13	433.33	4	448.89
1-11/16	1.6875	2-1/4	13	455.56	4	488.89
1-3/4	1.7500	2-3/8	13-1/2	474.60	5	513.49
1-13/16	1.8125	2-3/8	13-1/2	492.86	5	546.67
1-7/8	1.8750	2-1/2	14	519.84	5	569.05
1-15/16	1.9375	2-1/2	14	573.02	5	644.44
2	2.0000	2-1/2	14	585.71	5	677.78
2-1/16	2.0125	2-3/4	14-1/2	—	5	697.62
2-1/8	2.1250	2-3/4	14-1/2	—	5	704.44
2-1/4	2.2500	2-3/4	14-1/2	—	5	784.44
2-3/8	2.3750	2-3/4	15	—	5	893.33
2-1/2	2.5000	3	15	—	5	947.62
3	3.0000	3	16	—	5	1182.54

JOBBER REAMERS

High Speed Steel - Taper Shank

Quality Imports



Series 600 — Straight Flute • Series 603 — Spiral Flute

Size	Decimal Equiv.	Flute Length	OAL	Morse Taper No.	Import Price Each	
					Straight Flute	Spiral Flute
1/4	.2500	2	5-3/16	1	86.59	99.57
9/32	.2812	2	5-3/16	1	91.19	—
5/16	.3125	2-1/4	5-1/2	1	90.16	103.68
11/32	.3438	2-1/4	5-1/2	1	95.92	—
3/8	.3750	2-1/2	5-13/16	1	104.30	—
13/32	.4062	2-1/2	5-13/16	1	108.86	—
7/16	.4375	2-3/4	6-1/8	1	117.78	135.44
15/32	.4688	2-3/4	6-1/8	1	110.03	—
1/2	.5000	3	6-7/16	1	117.78	135.44
17/32	.5312	3	6-7/16	1	121.60	—
9/16	.5625	3-1/4	6-3/4	1	133.33	—
19/32	.5938	3-1/4	6-3/4	1	136.35	—
5/8	.6250	3-1/2	7-9/16	2	138.92	—
21/32	.6562	3-1/2	7-9/16	2	147.59	175.21
11/16	.6875	3-7/8	8	2	161.90	186.19
23/32	.7188	3-7/8	8	2	133.95	—
3/4	.7500	4-3/16	8-3/8	2	161.90	186.19
25/32	.7812	4-3/16	8-3/8	2	153.40	—
13/16	.8125	4-9/16	8-13/16	2	181.83	209.10
27/32	.8438	4-7/8	9-13/16	2	165.05	—
7/8	.8750	4-7/8	9-13/16	2	203.49	—
15/16	.9375	5-1/8	10	3	214.29	—
1	1.0000	5-7/16	10-3/8	3	232.70	282.48
1-1/16	1.0625	5-5/8	10-5/8	3	247.54	—
1-1/8	1.1250	5-13/16	10-7/8	3	277.94	301.59
1-3/16	1.1875	6	11-1/8	3	309.52	325.40
1-1/4	1.2500	6-1/8	12-9/16	4	317.46	—
1-5/16	1.3125	6-1/4	12-11/16	4	333.33	—
1-3/8	1.3750	6-5/16	12-13/16	4	357.14	—
1-7/16	1.4375	6-7/16	13	4	445.16	—
1-1/2	1.5000	6-1/2	13-1/8	4	393.65	452.70

We also offer special sizes and cutting tool alteration services.

TAPER PIPE / TAPER PIN REAMERS



Taper Pipe Reamers

High Speed Steel



Series 680 — Straight Flute • Series 680S — Spiral Flute

Size	Diameter		Flute Length	OAL	Shank Size	Import Price Each	
	Small End	Large End				Straight Flute	Spiral Flute
1/16	.2450	.2910	3/4	2	—	30.79	36.89
1/8	.3160	.3620	3/4	2-1/8	.4375	30.80	36.89
1/4	.4060	.4720	1-1/16	2-7/16	.5625	39.16	46.19
3/8	.5400	.6060	1-1/16	2-9/16	.7000	41.76	50.38
1/2	.6650	.7510	1-3/8	3-1/8	.6875	55.33	66.56
3/4	.8760	.9620	1-3/8	3-1/4	.9063	76.48	91.36
1	1.1030	1.2120	1-3/4	3-3/4	1.1250	121.80	129.11
1-1/4	1.4440	1.5530	1-3/4	4	1.3125	201.14	210.10
1-1/2	1.6840	1.7930	1-3/4	4-1/4	1.5000	267.96	255.78
2	2.1590	2.2680	1-3/4	4-1/2	1.8750	359.31	339.30
2-1/2	2.5610	2.7220	2-5/8	5-1/2	2.2050	599.87	565.50
3	3.2020	3.3800	2-3/4	6	2.6250	816.06	769.96

Taper Pin Reamers

High Speed Steel



Series TR850 — Straight Flute



Series TR875 — Spiral Flute



Series TR800 — Helical Flute

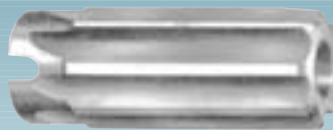
Size	Diameter		Flute Length	OAL	Shank Size	Price Each			Import Price Each		
	Small End	Large End				Straight Flute	Spiral Flute	Helical Flute	Straight Flute	Spiral Flute	Helical Flute
7/0	.0497	.0666	13/16	1-13/16	5/64	64.89	67.32	60.77	66.29	67.60	67.60
6/0	.0611	.0806	15/16	1-15/16	3/32	64.89	67.32	56.68	52.20	53.24	53.24
5/0	.0719	.0966	1-3/16	2-3/16	7/64	59.11	64.90	58.80	45.68	46.32	46.32
4/0	.0869	.1142	1-5/16	2-5/16	1/8	59.11	64.89	58.80	41.50	42.41	42.41
3/0	.1029	.1302	1-5/16	2-5/16	9/64	59.11	64.89	53.06	36.93	34.58	37.84
2/0	.1137	.1462	1-9/16	2-9/16	5/32	52.89	56.68	53.72	33.14	31.06	34.58
0	.1287	.1638	1-11/16	2-15/16	11/64	50.90	54.19	55.02	31.32	29.37	32.62
1	.1447	.1798	1-11/16	2-15/16	3/16	49.27	55.02	55.84	33.14	31.06	32.62
2	.1605	.2008	1-15/16	3-3/16	13/64	49.27	55.02	63.23	33.14	31.06	34.58
3	.1813	.2294	2-5/16	3-11/16	15/64	49.27	55.02	65.36	33.14	31.06	34.58
4	.2071	.2604	2-9/16	4-1/16	17/64	55.02	59.97	73.57	36.93	34.58	37.84
5	.2409	.2994	2-13/16	4-5/16	5/16	59.11	63.98	50.62	41.11	38.50	42.28
6	.2773	.3540	3-11/16	5-7/16	23/64	71.44	78.82	94.44	52.20	48.93	54.02
7	.3297	.4220	4-7/16	6-5/16	13/32	91.96	99.69	116.59	67.86	63.69	70.21
8	.3971	.5050	5-3/16	7-3/16	7/16	117.72	128.91	136.82	98.66	92.39	101.53
9	.4805	.6066	6-1/16	8-5/16	9/16	142.88	155.54	150.29	126.32	118.49	130.50
10	.5799	.7216	6-13/16	9-5/16	5/8	156.84	172.43	190.82	148.24	139.11	153.21
11	.7060	.8780	8-1/4	11-1/4	11/16	167.21	183.93	202.29	—	—	—
12	.8420	1.0500	10	13-5/8	3/4	258.69	284.54	313.16	—	—	—
13	1.0090	1.2590	12	16	1-1/16	501.76	551.93	845.90	—	—	—
14	1.2500	1.5420	14	18-1/4	1-3/8	811.10	892.19	979.69	—	—	—

SHELL REAMERS AND ARBORS

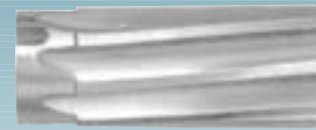
Quality Imports

Shell Reamers

High Speed Steel



Series 910 — Straight Flute



Series 911 — Spiral Flute

Size	OAL	Hole Diameter	Import Price Each	
			Straight Flute	Spiral Flute
3/4	2-1/4	3/8	172.22	198.15
13/16	2-1/2	1/2	180.00	207.41
7/8	2-1/2	1/2	183.33	212.96
29/32	2-1/2	1/2	202.78	—
15/16	2-1/2	1/2	189.81	220.37
1	2-1/2	1/2	194.44	226.57
1-1/64	2-3/4	5/8	217.59	—
1-1/16	2-3/4	5/8	210.56	243.52
1-3/32	2-3/4	5/8	231.48	—
1-1/8	2-3/4	5/8	223.28	253.70
1-3/16	2-3/4	5/8	231.48	263.89
1-1/4	2-3/4	5/8	235.19	273.98
1-9/32	3	5/8	270.00	—
1-5/16	3	3/4	249.26	285.74
1-11/32	3	3/4	290.74	—
1-3/8	3	3/4	265.28	302.96
1-13/32	3	3/4	292.59	—
1-7/16	3	3/4	291.30	320.37
1-15/32	3	3/4	314.39	—
1-1/2	3	3/4	295.37	338.70
1-9/16	3	3/4	326.15	379.63
1-19/32	3	3/4	361.11	—
1-5/8	3	3/4	348.80	414.17
1-21/32	3-1/2	1	361.11	—
1-11/16	3-1/2	1	383.15	454.81
1-3/4	3-1/2	1	406.48	481.02
1-23/32	3-1/2	1	459.26	—
1-13/16	3-1/2	1	433.33	515.33
1-25/32	3-1/2	1	472.22	—
1-27/32	3-1/2	1	500.00	—
1-7/8	3-1/2	1	462.04	546.30
1-29/32	3-1/2	1	546.30	—
1-15/16	3-1/2	1	490.74	582.59
1-31/32	3-1/2	1	514.81	—

Size	OAL	Hole Diameter	Import Price Each	
			Straight Flute	Spiral Flute
2	3-1/2	1	509.26	599.07
2-1/16	3-3/4	1-1/4	540.00	654.07
2-1/8	3-3/4	1-1/4	582.59	685.78
2-3/16	3-3/4	1-1/4	612.50	729.80
2-1/4	3-3/4	1-1/4	639.44	750.00
2-5/16	3-3/4	1-1/4	657.41	814.81
2-3/8	3-3/4	1-1/4	672.22	825.00
2-7/16	3-3/4	1-1/4	752.50	883.33
2-1/2	3-3/4	1-1/4	767.59	883.33
2-9/16	4	1-1/2	800.00	887.04
2-5/8	4	1-1/2	851.85	920.00
2-11/16	4	1-1/2	905.00	952.50
2-3/4	4	1-1/2	950.00	1032.41
2-13/16	4	1-1/2	1005.00	1109.26
2-7/8	4	1-1/2	1062.50	1147.41
2-15/16	4	1-1/2	1121.30	1203.70
3	4	1-1/2	1177.50	1270.00
3-1/16	4-1/2	1-3/4	1492.50	1547.50
3-1/8	4-1/2	1-3/4	1805.00	1824.07
3-3/16	4-1/2	1-3/4	1864.81	1920.37
3-1/4	4-1/2	1-3/4	1925.00	2014.81
3-5/16	4-1/2	1-3/4	1990.74	2087.04
3-3/8	4-1/2	1-3/4	2057.41	2162.50
3-7/16	4-1/2	1-3/4	2117.59	2222.22
3-1/2	4-1/2	1-3/4	2175.00	2282.41
3-9/16	5	2	2233.33	2342.50
3-5/8	5	2	2287.04	2400.00
3-11/16	5	2	2344.44	2462.50
3-3/4	5	2	2407.41	2522.22
3-13/16	5	2	2500.00	2616.67
3-7/8	5	2	2585.19	2712.96
3-15/16	5	2	2662.96	2798.15
4	5	2	2750.00	2883.33

Shell Reamer Arbors

Hardend and Ground



Series SRAS — Straight Shank

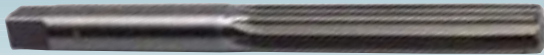


Series SRAT — Taper Shank

Size	Fits Reamer Sizes		Arbor Dia.	OAL	Straight Shank		Taper Shank	
	Smallest	Largest			Shank Size	Import Price Each	Morse Taper No.	Import Price Each
4	21/32	25/32	3/8	9	1/2	240.74	2	287.04
5	13/16	1-1/32	1/2	9-1/2	5/8	268.52	2	205.56
6	1-1/16	1-9/32	5/8	10	3/4	296.30	3	222.22
7	1-5/16	1-21/32	3/4	11	7/8	324.07	3	244.44
8	1-11/16	2	1	12	1-1/8	361.11	4	272.22
9	2-1/16	2-1/2	1-1/4	13	1-3/8	435.19	4	305.56
10	2-9/16	3	1-1/2	14	1-5/8	558.64	5	350.00
11	3-1/16	3-1/2	1-3/4	15	2	787.04	5	490.74
12	3-9/16	4	2	16	2-1/8	1101.85	5	683.33

Quality Imports

High Speed Steel



Series 500 — Straight Flute



Series 503 — Spiral Flute

Size	Decimal Equiv.	Flute Length	OAL	Import Price Each	
				Straight Flute	Spiral Flute

3/64	.0469	1	2	—	—
1/16	.0625	1	2	—	—
5/64	.0781	1	2	—	—
3/32	.0938	1-1/4	2-1/2	—	—
7/64	.1094	1-1/4	2-1/2	—	—
1/8	.1250	1-1/2	3	33.41	41.27
9/64	.1406	1-5/8	3-1/4	—	—
5/32	.1560	1-5/8	3-1/4	32.76	35.62
11/64	.1719	1-3/4	3-1/2	32.76	—
3/16	.1875	1-3/4	3-1/2	32.76	35.62
7/32	.2188	1-7/8	3-3/4	35.62	38.38
15/64	.2344	2	4	—	—
1/4	.2500	2	4	35.62	38.37
9/32	.2812	2-1/8	4-1/4	38.37	40.84
19/64	.2969	2-1/4	4-1/2	—	—
5/16	.3125	2-1/4	4-1/2	38.37	40.84
11/32	.3438	2-3/8	4-3/4	43.46	49.07
23/64	.3594	2-1/2	5	—	—
3/8	.3750	2-1/2	5	43.46	49.07
25/64	.3906	2-5/8	5-1/4	—	—
13/32	.4062	2-5/8	5-1/4	52.50	54.29
27/64	.4219	2-3/4	5-1/2	—	—
7/16	.4375	2-3/4	5-1/2	46.32	54.29
29/64	.4531	2-7/8	5-3/4	—	—
15/32	.4688	2-7/8	5-3/4	54.29	60.03
31/64	.4844	3	6	—	—
1/2	.5000	3	6	54.29	60.03
17/32	.5312	3-1/8	6-1/4	58.99	74.24
35/64	.5469	3-1/4	6-1/2	—	—
9/16	.5625	3-1/4	6-1/2	58.99	65.51
37/64	.5781	3-3/8	6-3/4	—	—
19/32	.5938	3-3/8	6-3/4	77.66	80.17
39/64	.6094	3-1/2	7	—	—
5/8	.6250	3-1/2	7	62.64	70.73
41/64	.6406	3-11/16	7-3/8	—	—

Size	Decimal Equiv.	Flute Length	OAL	Import Price Each	
				Straight Flute	Spiral Flute

21/32	.6562	3-11/16	7-3/8	76.91	86.67
43/64	.6719	3-7/8	7-3/4	—	—
11/16	.6875	3-7/8	7-3/4	67.86	76.48
45/64	.7031	4-1/16	8-1/8	—	—
23/32	.7188	4-1/16	8-1/8	83.41	92.59
47/64	.7344	4-3/16	8-3/8	—	—
3/4	.7500	4-3/16	8-3/8	73.60	81.69
49/64	.7656	4-3/16	8-3/8	—	—
25/32	.7812	4-3/8	8-3/4	89.62	98.80
51/64	.7969	4-9/16	9-1/8	—	—
13/16	.8125	4-9/16	9-1/8	89.62	87.18
53/64	.8281	4-9/16	9-1/8	—	—
27/32	.8438	4-11/16	9-3/8	98.80	107.67
7/8	.8750	4-7/8	9-3/4	87.18	95.00
57/64	.8906	5	10	—	—
29/32	.9062	5	10	110.92	123.06
59/64	.9219	5-1/8	10-1/4	—	—
15/16	.9375	5-1/8	10-1/4	110.92	108.58
31/32	.9688	5-5/16	10-3/8	120.39	134.00
1	1.0000	5-7/16	10-7/8	106.22	118.23
1-1/16	1.0625	5-5/8	11-1/4	134.00	146.12
1-1/8	1.1250	5-13/16	11-5/8	130.50	142.51
1-3/16	1.1875	6	12	166.53	181.92
1-1/4	1.2500	6-1/8	12-1/4	171.21	178.27
1-5/16	1.3125	6-1/4	12-1/2	199.96	220.37
1-3/8	1.3750	6-5/16	12-5/8	190.01	211.93
1-7/16	1.4375	6-7/16	12-7/8	236.93	261.49
1-1/2	1.5000	6-1/2	13	226.54	249.78
1-19/32	1.5938	6-1/2	13	—	—
1-11/16	1.6875	6-3/4	13-1/2	—	—
1-3/4	1.7500	6-3/4	13-1/2	—	—
1-13/16	1.8125	7	13-3/4	—	—
1-15/16	1.9375	7	14	—	—
2	2.0000	7	14	—	—
2-1/2	2.5000	7-1/2	15	—	—

Call for special
sizes not
shown in catalog

HAND EXPANSION REAMERS

Quality Imports

High Speed Steel



Series 750 — Straight Flute



Series 850 — Spiral Flute

Size	Decimal Equiv.	Flute Length	OAL	Import Price Each	
				Straight Flute	Spiral Flute
1/4	.2500	1-7/16	4-1/4	134.92	141.67
5/16	.3125	1-3/4	4-1/2	138.10	146.00
3/8	.3750	1-3/4	5	157.94	165.00
13/32	.4062	1-3/4	5	162.38	170.48
7/16	.4375	1-3/4	5	165.00	173.25
15/32	.4688	1-13/16	5-1/2	167.38	175.75
1/2	.5000	1-13/16	5-1/2	165.71	174.00
17/32	.5312	2-1/8	6	175.71	184.51
9/16	.5625	2-1/8	6	180.95	190.00
5/8	.6250	2-1/2	6-1/2	196.03	205.00
11/16	.6875	2-1/2	6-3/4	223.81	235.00
3/4	.7500	2-11/16	7-1/16	247.62	260.00
13/16	.8125	3-1/16	7-9/16	278.57	292.51
7/8	.8750	3-5/16	8	300.00	315.00
15/16	.9375	3-9/16	8-3/8	342.86	360.00
1	1.0000	3-3/4	8-7/8	365.08	383.33
1-1/16	1.0625	4	9-3/16	380.95	400.00
1-1/8	1.1250	4-1/8	9-1/2	412.70	433.33
1-3/16	1.1875	4-1/4	9-7/8	420.63	441.67
1-1/4	1.2500	4-3/8	10-1/4	431.75	453.33
1-5/16	1.3125	4-1/2	10-5/8	452.38	475.00
1-3/8	1.3750	4-9/16	11	492.06	516.67
1-7/16	1.4375	4-3/4	11-3/8	539.68	566.67
1-1/2	1.5000	4-13/16	11-5/8	619.05	650.00
1-9/16	1.5625	4-13/16	11-7/8	652.38	685.00
1-5/8	1.6250	4-7/8	12	669.84	703.33
1-3/4	1.7500	5	12-3/8	771.43	810.00
1-7/8	1.8750	5	12-3/4	841.27	883.33
2	2.0000	5	13-1/16	984.13	1033.33

ADJUSTABLE HAND REAMERS

Quality Imports

High Speed Steel



Series AHR

Size	Range of Adjustment	Blade Length	OAL	Import Price Each
8/A	1/4 to 9/32	1-11/32	3-1/4	60.66
7/A	9/32 to 5/16	1-11/32	3-1/2	60.66
6/A	5/16 to 11/32	1-1/2	4-1/8	53.41
5/A	11/32 to 3/8	1-1/2	4-3/8	53.41
4/A	3/8 to 13/32	1-1/2	4-3/4	56.07
3/A	13/32 to 7/16	1-1/2	5	61.87
2/A	7/16 to 15/32	1-5/8	5-1/4	61.87
A	15/32 to 17/32	1-5/8	5-1/2	65.98
B	17/32 to 19/32	1-13/16	5-3/4	65.98
C	19/32 to 21/32	2-1/16	6-1/2	68.63
D	21/32 to 23/32	2-3/16	6-3/4	71.78
E	23/32 to 25/32	2-1/2	7	75.40
F	25/32 to 27/32	2-5/8	7-3/8	77.58
G	27/32 to 15/16	3	8	82.17
H	15/16 to 1-1/16	3-1/4	9	86.52
I	1-1/16 to 1-3/16	3-3/8	10	109.96
J	1-3/16 to 1-11/32	3-7/8	11	130.99
K	1-11/32 to 1-1/2	4-1/4	12	158.06
L	1-1/2 to 1-13/16	4-7/16	14	232.00
M	1-13/16 to 2-7/32	5	16	315.86
N	2-7/32 to 2-3/4	4-13/16	18	533.60
O	2-3/4 to 3-11/32	5-3/16	20	725.24

REAMERS

**Quality Imports
for over
30 years!**

Quality Imports

High Speed Steel



Series BR850 — Type "C" Straight Flute



Series BR800 — Type "D" Spiral Flute

Size	Approx. Point Size	No. of Flutes	Flute Length	OAL	Morse Taper No.	Import Price Each	
						Straight Flute	Spiral Flute
9/32	5/32	4	4	7-1/4	1	—	—
11/32	5/32	4	4	7-1/4	2	—	—
7/16	1/4	5	4-3/8	8-1/4	2	22.52	55.86
15/32	1/4	5	5-1/8	9	2	62.90	62.03
1/2	9/32	5	5-1/8	9	2	62.90	62.03
33/64	9/32	5	5-1/8	9	2	—	—
17/32	9/32	5	5-1/8	9	2	66.03	66.03
9/16	11/32	5	5-1/8	9	2	66.03	66.03
37/64	3/8	5	5-1/8	9	2	—	—
5/8	3/8	5	6-1/8	10	2	76.21	76.21
11/16	25/64	5	7-1/8	11-3/4	3	91.36	—
3/4	7/16	5	7-3/8	12	3	98.40	98.40
25/32	1/2	5	7-3/8	12	3	—	—
13/16	1/2	5	7-3/8	12	3	106.74	106.74
7/8	9/16	5	7-3/8	12	3	118.49	118.49
29/32	5/8	5	7-3/8	12	3	—	—
15/16	5/8	5	7-3/8	12	3	121.89	121.89
1	11/16	5	7-3/8	12	3	135.46	135.46
1-1/32	3/4	5	7-3/8	12	3	—	—
1-1/16	3/4	5	7-3/8	12	3	148.77	148.77
1-1/8	13/16	5	7-3/8	12	3	165.73	165.73
1-5/32	7/8	5	7-3/8	12	3	—	—
1-3/16	7/8	5	7-3/8	12	3	184.52	184.52
1-7/32	15/16	4	7-3/8	13	4	—	—
1-1/4	15/16	5	7-3/8	13	4	194.44	194.44
1-9/32	1	5	7-3/8	13	4	—	—
1-5/16	1	5	7-3/8	13	4	223.16	223.16
1-11/32	1-1/8	4	7-3/8	13	4	—	—
1-3/8	1-1/8	5	7-3/8	13	4	282.27	282.27
1-13/32	1-3/16	4	7-3/8	13	4	—	—
1-7/16	1-3/16	5	7-3/8	13	4	303.59	303.59
1-1/2	1-1/4	5	7-3/8	13	4	344.09	344.09
1-17/32	1-3/8	4	7-3/8	13	4	—	—
1-9/16	1-3/8	4	7-3/8	13	4	409.77	409.77
1-5/8	1-3/8	5	7-3/8	13	4	409.77	409.77
1-11/16	1-11/16	5	7-3/8	13	4	—	435.87
1-3/4	1-11/16	5	7-3/8	13	5	—	527.22
1-7/8	1-11/16	4	7-3/8	13	5	—	527.22
2	1-11/16	6	7-3/8	13	5	—	610.74

Quality Imports

Straight Shank with 3-Equal Flats to Fit 1/2" Chuck

High Speed Steel

Size	Flute Length	OAL	Shank Size	Import Price Each
1/4	2-1/2	4-3/8	1/4*	—
5/16	2-3/4	4-5/8	5/16	62.42
3/8	2-3/4	4-5/8	3/8	62.42
7/16	3-1/2	5-3/8	7/16	62.42
1/2	4	5-7/8	1/2	70.03
9/16	4	5-7/8	1/2	73.69
39/64	4-1/2	6-3/8	1/2	—
5/8	4-1/2	6-3/8	1/2	84.96
11/16	4-1/2	6-3/8	1/2	101.70
3/4	5	6-7/8	1/2	109.62
13/16	5	6-7/8	1/2	—
7/8	5	6-7/8	1/2	131.84
15/16	5	6-7/8	1/2	135.81
1	5	6-7/8	1/2	150.72
1-1/16	5	6-7/8	1/2	165.64

* No Flats on Shank



Series CR925 — Spiral Flute

Hex Shank Style

High Speed Steel

Size	Flute Length	OAL	Hex Shank Size	Import Price Each
11/16	4-1/2	6-1/2	1-1/16	108.10
13/16	5	7	1-1/4	118.76
15/16	5	7	1-7/16	135.81
1-1/16	5	7	1-5/8	165.64



Series CR975

BURRS

Carbide Burrs- Standard Length.....	110–111
Carbide Burr Box Set	111
Miniature Carbide Burrs	111
Carbide Burrs- Extra Long.....	112
Carbide Burrs for Aluminum.....	112



CARBIDE BURRS

Standard Length



1/4" Shank, Double Cut, Solid Carbide Series CB

Cylindrical



Tool No.	Cutter Dia.	Length of Cut	Price Each
SA-11	1/8	1/2	26.50
SA-14	3/16	5/8	26.50
SA-1	1/4	5/8	18.75
SA-1L	1/4	1	38.75
SA-2	5/16	3/4	35.61
SA-3	3/8	3/4	25.00
SA-3L	3/8	1	45.30
SA-3XL	3/8	1-1/2	—
SA-4	7/16	1	55.27
SA-5	1/2	1	38.19
SA-6	5/8	1	48.15
SA-16	3/4	3/4	—
SA-7	3/4	1	79.17
SA-9	1	1	106.94

Cylindrical Ball End



Tool No.	Cutter Dia.	Length of Cut	Price Each
SC-11	1/8	1/2	30.77
SC-12	1/8	5/8	—
SC-14	3/16	5/8	30.77
SC-1	1/4	5/8	21.30
SC-1L	1/4	1	42.74
SC-2	5/16	3/4	38.75
SC-3	3/8	3/4	29.17
SC-3L	3/8	1	50.14
SC-4	7/16	1	60.68
SC-5	1/2	1	45.37
SC-6	5/8	1	58.33
SC-7	3/4	1	85.88
SC-9	1	1	182.91

Round Tree Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SF-11	1/8	1/2	0.00
SF-1	1/4	5/8	21.99
SF-3	3/8	3/4	28.01
SF-4	7/16	1	0.00
SF-13	1/2	3/4	60.11
SF-5	1/2	1	42.13
SF-6	5/8	1	58.33
SF-7	3/4	1	77.78
SF-14	3/4	1-1/4	134.76
SF-15	3/4	1-1/2	164.96

Cylindrical End Cut



Tool No.	Cutter Dia.	Length of Cut	Price Each
SB-11	1/8	1/2	28.77
SB-14	3/16	5/8	28.77
SB-1	1/4	5/8	20.83
SB-1L	1/4	1	43.59
SB-2	5/16	3/4	39.03
SB-3	3/8	3/4	30.09
SB-3L	3/8	1	50.14
SB-4	7/16	1	60.97
SB-5	1/2	1	41.90
SB-6	5/8	1	52.08
SB-16	3/4	3/4	—
SB-7	3/4	1	87.04
SB-9	1	1	117.59

Ball Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SD-11	1/8	1/8	28.21
SD-14	3/16	3/16	28.21
SD-1	1/4	1/4	21.30
SD-2	5/16	5/16	31.34
SD-3	3/8	3/8	22.22
SD-4	7/16	7/16	40.17
SD-5	1/2	1/2	33.80
SD-6	5/8	5/8	41.67
SD-7	3/4	3/4	55.32
SD-9	1	1	106.94

Pointed Tree Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SG-1	1/4	5/8	21.30
SG-2	5/16	3/4	40.17
SG-3	3/8	3/4	30.09
SG-13	1/2	3/4	58.97
SG-5	1/2	1	40.97
SG-6	5/8	1	58.33
SG-7	3/4	1	77.78
SG-15	3/4	1	164.96

60° Included Angle



Tool No.	Cutter Dia.	Length of Cut	Price Each
SJ-1	1/4	3/16	19.91
SJ-2	5/16	1/4	0.00
SJ-3	3/8	1/4	24.54
SJ-5	1/2	7/16	30.56
SJ-6	5/8	1/2	61.54
SJ-7	3/4	5/8	80.91
SJ-9	1	3/4	129.63

Flame Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SH-1	1/4	1/2	38.46
SH-2	5/16	3/4	35.04
SH-5	1/2	1-1/4	71.79
SH-6	5/8	1-7/16	123.08
SH-7	3/4	1-5/8	156.41

Oval Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SE-11	3/16	5/16	34.76
SE-1	1/4	3/8	23.38
SE-3	3/8	5/8	32.41
SE-5	1/2	7/8	44.91
SE-6	5/8	1	61.11
SE-7	3/4	1	83.80

CARBIDE BURRS

Std. Length (Con'd) / Box Sets / Mininature Sizes



1/4" Shank, Double Cut, Solid Carbide

Series CB

90° Included Angle



Cone Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SK-1	1/4	1/8	19.91
SK-2	5/16	3/16	—
SK-3	3/8	3/16	24.54
SK-5	1/2	1/4	30.56
SK-6	5/8	5/16	58.12
SK-7	3/4	3/8	80.91
SK-9	1	1/2	129.63

Tool No.	Cutter Dia.	Length of Cut	Price Each
SM-1	1/4	1/2	20.83
SM-2	1/4	3/4	22.22
SM-3	1/4	1	23.61
SM-4	3/8	5/8	53.56
SM-5	1/2	7/8	44.68
SM-6	5/8	1	89.17

MINIATURE CARBIDE BURRS

1/8" Shank, Double Cut Solid Carbide

1-1/2" Overall Length

Series CB

14° Included Angle



Tool No.	Cutter Dia.	Length of Cut	Price Each
SL-1	1/4	5/8	21.30
SL-2	5/16	7/8	44.16
SL-3	3/8	1-1/16	34.95
SL-4	1/2	1-1/8	40.05
SL-5	5/8	1-3/16	115.95
SL-6	5/8	1-5/16	79.17
SL-7	3/4	1-1/2	109.95

Inverted Cone Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SN-1	1/4	5/16	22.69
SN-2	3/8	3/8	47.01
SN-4	1/2	1/2	43.52
SN-6	5/8	3/4	84.62
SN-7	3/4	5/8	95.73

Carbide Burr Box Set

Double Cut, Series CB

Set Includes	Pieces Per Set	Set No.	Price Each
SA5, SC3, SC5, SD5, SF3, SF5, SG3, SL4	8	CBS8	377.78



Tool No.	Cutter Dia.	Length of Cut	Price Each
SA-41	1/16	1/4	11.16
SA-42	3/32	7/16	11.16
SA-43	1/8	9/16	11.16
SC-41	3/32	7/16	11.16
SC-42	1/8	9/16	11.16
SD-41	3/32	3/32	11.16
SD-42	1/8	1/8	11.16
SE-41	1/8	7/32	11.16
SF-41	1/8	1/4	11.16
SF-42	1/8	1/2	11.16
SG-41	1/8	1/4	11.16
SG-42	1/8	5/16	—
SG-43	1/8	3/8	11.16
SG-44	1/8	1/2	11.16
SH-41	1/8	1/4	11.16
SJ-42	1/8	3/32	11.16
SK-42	1/8	1/16	11.16
SL-41	1/8	3/8	11.16
SL-42	1/8	1/2	11.16
SM-41	1/8	11/32	11.16
SM-42	1/8	7/16	11.16
SM-43	1/8	5/8	11.16
SN-42	1/8	3/16	11.16
SA-51	1/4	1/2	19.28
SB-51	1/4	3/16	19.28
SC-51	1/4	1/2	19.28
SD-51	1/4	7/32	19.28
SE-51	1/4	3/8	19.28
SF-51	1/4	1/2	19.28
SG-51	1/4	1/2	19.28
SM-51	1/4	1/2	19.28
SN-51	1/4	1/4	19.28

BURRS

CARBIDE BURRS

Extra Long / Burrs for Aluminum



EXTRA LONG 1/4" Shank Double Cut Solid Carbide

Series CB-6 — 6" Overall Length

Cylindrical Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SA-1L6	1/4	1/2	48.14
SA-3L6	3/8	3/4	55.79
SA-5L6	1/2	1	77.95

Cylindrical Ball End



Tool No.	Cutter Dia.	Length of Cut	Price Each
SC-1L6	1/4	1/2	53.61
SC-3L6	3/8	3/4	60.44
SC-5L6	1/2	1	82.05

Ball Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SD-1L6	1/4	7/32	53.33
SD-3L6	3/8	5/16	56.07
SD-5L6	1/2	7/16	69.74

Oval Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SE-1L6	1/4	3/8	54.97
SE-3L6	3/8	5/8	62.36
SE-5L6	1/2	7/8	79.59

Round Tree Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SF-1L6	1/4	1/2	53.61
SF-3L6	3/8	3/4	59.90
SF-5L6	1/2	1	76.31

Pointed Tree Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SG-1L6	1/4	1/2	53.61
SG-3L6	3/8	3/4	61.54
SG-5L6	1/2	1	77.13

Flame Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SH-2L6	5/16	3/4	64.82
SH-5L6	1/2	1-1/4	79.59

14° Included Angle



Tool No.	Cutter Dia.	Length of Cut	Price Each
SL-1L6	1/4	5/8	53.61
SL-3L6	3/8	1-1/16	69.74
SL-4L6	1/2	1-1/8	82.05

CARBIDE BURRS FOR ALUMINUM 1/4" shank • Series CB-A

Cylindrical



Tool No.	Cutter Dia.	Length of Cut	Price Each
SA-1NF	1/4	3/4	44.58
SA-3NF	3/8	3/4	59.62
SA-5NF	1/2	1	84.51
SA-6NF	5/8	1	133.20
SA-7NF	3/4	1	177.78

Cylindrical Ball End



Tool No.	Cutter Dia.	Length of Cut	Price Each
SC-1NF	1/4	3/4	44.58
SC-3NF	3/8	3/4	59.62
SC-5NF	1/2	1	84.51
SC-6NF	5/8	1	133.20
SC-7NF	3/4	1	177.78

Ball Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SD-1NF	1/4	7/32	44.03
SD-3NF	3/8	5/16	48.96
SD-5NF	1/2	7/16	65.64
SD-6NF	5/8	9/16	114.05
SD-7NF	3/4	11/16	211.15

Oval Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SE-3NF	3/8	5/8	61.81
SE-5NF	1/2	7/8	79.86
SE-6NF	5/8	1	132.38
SE-7NF	3/4	1	189.81

Round Tree Shape



Tool No.	Cutter Dia.	Length of Cut	Price Each
SF-1NF	1/4	3/4	45.40
SF-3NF	3/8	3/4	60.17
SF-5NF	1/2	1	84.24
SF-6NF	5/8	1	118.97
SF-14NF	3/4	1-1/4	—

14° Included Angle



Tool No.	Cutter Dia.	Length of Cut	Price Each
SL-3NF	3/8	1-1/16	80.96
SL-4NF	1/2	1-1/8	106.67
SL-5NF	5/8	1-3/16	179.15
SL-6NF	5/8	1-5/16	202.94
SL-7NF	3/4	1-1/2	232.21

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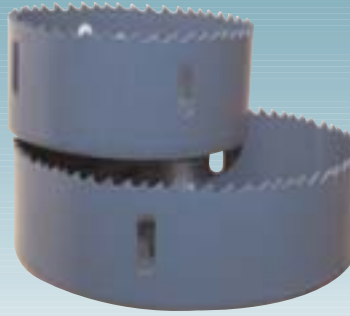
HOLES SAWS / MANDRELS



Hole Saws

1-1/8 Cutting Depth, Standard
Series HS100

Part No.	Diameter	Price Each
509	9/16	18.50
510	5/8	18.50
511	11/16	18.50
512	3/4	18.50
513	13/16	18.50
514	7/8	18.50
515	15/16	18.50
516	1	19.62
517	1-1/16	19.62
518	1-1/8	19.62
519	1-3/16	19.62
520	1-1/4	19.62
521	1-5/16	20.88
522	1-3/8	20.88
523	1-7/16	20.88
524	1-1/2	20.88
525	1-9/16	20.88
526	1-5/8	20.88
527	1-11/16	20.88
528	1-3/4	24.75
529	1-13/16	24.75
530	1-7/8	24.75
532	2	24.75
533	2-1/16	31.50
534	2-1/4	31.50
536	2-1/4	31.50
537	2-5/16	31.50
538	2-3/8	31.50
540	2-1/2	33.90
541	2-9/16	33.90
542	2-5/8	33.90
544	2-3/4	33.90
546	2-7/8	33.90
558	3	36.75
550	3-1/8	36.75
552	3-1/4	36.75
554	3-3/8	36.75
556	3-1/2	36.75
558	3-5/8	36.75
560	3-3/4	45.63
562	3-7/8	49.75
564	4	52.00
566	4-1/8	56.40
568	4-1/4	74.65
570	4-3/8	89.65
572	4-1/2	105.85
576	4-3/4	130.15
580	5	130.15
588	5-1/2	150.85
592	5-3/4	161.90
596	6	176.40



Pilot Pins Series HS100

Part No.	Dia	Length	Price Each
8534	1/4	3-1/4	7.99
8535	1/4	4-1/4	7.99

Hole Saw Kits Series HSK100

Part No.	Description	Price Each
9595	Handyman's Kit	143.50
	Diameters = 7/8, 1, 1-1/8, 1-1/4, 1-1/2	
9596	Journeyman's Kit	284.65
	Diameters = 3/4, 7/8, 1-1/8, 1-1/2, 1-3/4, 2, 2-1/4, 2-1/2	
9599	Industrial Kit	674.62
	Diameters = 1, 1-1/2, 1-1/4, 1-3/8, 1-3/4, 2, 2-1/4, 2-1/2, 3-1/4, 4	
9592	Plumber's Kit	210.50
	Diameters = 3/4, 7/8, 1-1/8, 1-1/2, 1-3/4, 4, 2-1/4	
9593	Electrician's Kit	218.50
	Contains 6 Bi-Metal Hole Saws Diameters = 7/8, 1-1/8, 1-3/8, 1-3/4, 2, 2-1/2	

Carbide Tipped Hole Saws 1-7/8 Cutting Depth, Deep Cuts Series HS100

Part No.	Diameter	Price Each
C12	3/4	23.70
C14	7/8	23.70
C16	1	27.00
C18	1-1/8	27.00
C20	1-1/4	31.00
C22	1-3/8	31.00
C24	1-1/2	34.50
C28	1-3/4	34.50
C32	2	37.50
C36	2-1/4	45.00
C40	2-1/2	50.00
C48	3	55.00
C56	3-1/2	70.00
C68	4-1/4	115.50



Mandrels Series HS 100

Part No.	Fits Hole Saws	Shank	For Chuck	Price Each
5514	9/16 to 1-3/16	1/4 RND	1/4	22.50
5518	9/16 to 1-3/16	7/16 HEX	1/2	25.00
5520	1-1/4 to 1-1/2	7/16 HEX	1/2	25.00
5545	1-1/4 to 6	7/16 HEX	1/2	36.40
5573	1-1/4 to 6	5/8 HEX	3/4	36.40
5515	9/16 to 1-3/16	1/4 UNIV	1/4	31.10
5516	1-1/4 to 2	1/4 UNIV	1/4	31.10
5519	9-16 to 1-3/16	3/8 HEX	1/2	25.50
5519 CT	9/16 to 1-3/16	3/8 HEX	1/2	75.25

CT=Carbide Tipped

Portable Band Saw Blades

Bi-Metal

Series BB-B44

Size: 44-7/8 x 1/2 x .020

Teeth Per Inch	Price Each	
	Box of 3	Bulk Pkg
14	17.00	16.25
18	17.00	16.25
24	17.00	16.25



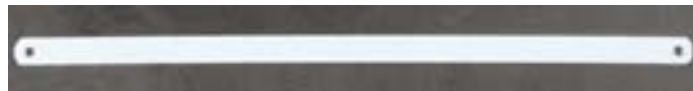
Hack Saw Blades

Bi-Metal

Series HS100-12

12" Long Blades

Teeth Per Inch	Price Each
	Box of 100
14	4.87
18	4.87
24	4.87
32	4.87



1/2" Reciprocating Saw Blades

Series RB-ULB



Blade Length	Teeth Per Inch	For Cutting	Price Each
4	10	Metal or Wood	6.11
6	14	Metal or Wood	7.69
8	10-14	Combo Metal & Wood	10.00
12	2-3	Metal or Wood	14.91
12	6	Metal or Wood	14.91

Quality Imports

Shop Rolls

Aluminum Oxide
Length = 50 Yards
Series TMM91



Width	Grit Size	Import Price Each
1"	40	44.19
1"	50	43.56
1"	60	42.22
1"	80	40.22
1"	100	40.22
1"	120	40.22
1"	150	40.22
1"	180	40.22
1"	220	40.22
1"	240	40.22
1"	280	40.22
1"	320	40.22
1"	400	40.22

Width	Grit Size	Import Price Each
1-1/2"	40	63.56
1-1/2"	50	62.22
1-1/2"	60	60.44
1-1/2"	80	57.56
1-1/2"	100	56.44
1-1/2"	120	56.44
1-1/2"	150	56.44
1-1/2"	180	56.44
1-1/2"	220	56.44
1-1/2"	240	56.44
1-1/2"	280	56.44
1-1/2"	400	56.44

Width	Grit Size	Import Price Each
2"	40	83.11
2"	50	81.78
2"	60	79.02
2"	80	75.30
2"	100	73.08
2"	150	73.08
2"	180	73.08
2"	220	73.08
2"	240	73.08
2"	280	73.08
2"	320	73.08
2"	400	73.08
2"	Crocus Cloth	184.89

Files

Half Round
Series-CF5000



Length	Type	Import Price Each
14"	Half Round, Bastard	24.10

Sold in packages of 12 only

SCREW EXTRACTORS



Series TSE500SP — Spiral Flute
Series TSE500S — Straight Flute

Size	For Extracting Screws & Bolts Sizes	Pipe Size	Price Each	
			Spiral Flute	Straight Flute
1	3/16 - 1/4	—	5.89	8.67
2	1/4 - 5/16	—	6.44	9.11
3	5/16 - 7/16	—	7.00	10.00
4	7/16 - 9/16	1/8	8.00	11.89
5	9/16 - 3/4	1/4	10.00	14.78
6	3/4 - 1	3/8	19.78	21.89
7	1 - 1-3/8	1/2	53.78	32.11
8	1-3/8 - 1-3/4	3/4	81.44	—
9	1-3/4 - 2-1/8	1	84.89	—
10	2-1/8 - 2-1/2	1-1/4	—	—
11	2-1/2 - 3	1-1/2	—	—
12	3 - 3-1/2	2	—	—



SET NO. TSE500SP-5S — \$35.00

5 Piece Set

Contains 1 piece of each:

Spiral Flute, #1 thru #5

Supplied in a vinyl pouch.

SET NO. TSE500S-5S — \$46.67

5 Piece Set

Contains 1 piece of each:

Straight Flute, #1 thru #5

Supplied in a vinyl pouch.



OTHER

Series TX-25



EXTREME DUTY TAPPING FLUID MIKE-O-CUT NO. 87

- Increases Productivity
- Extends Tool Life
- Provides Excellent Finish and Accurate Threads
- Will Not Evaporate

Mike-O-Cut No. 87 is an extreme duty tapping and drilling fluid. Considered environmentally safe. It is thick like honey and sticks to the tap throughout the operation. It is ideal for tapping and drilling stainless steel, carbon steel, inconel, monel, hastalloy, titanium, aluminum and other alloys and exotics.

Size	Part No.	Pkg Qty	Price Each
16 oz	D-1332-16	12	26.97
1 gallon	D-1333-14	4	148.78
5 gallon	D-1334-05	1	704.51



AEROSOL TAPPING FLUID TD FOAMY

- Superior Finish & Threads
- Extends Tool Life
- Excellent Foaming Action
- Use on All Metals

TD Foamy is an extreme duty tapping and drilling fluid designed for ease of application. This high performance product works well on ferrous and nonferrous materials and can be applied before or during the cutting operation. Its excellent foaming action penetrates deep into the cut to extend tap life and promote a superior finish.

Size (Net Wt.)	Part No.	Pkg Qty	Price Each
17oz	D-1502-20	12	29.74



THREAD CUTTING OILS MIKE-O-THREAD DARK AND LIGHT

- Superb Cutting Ability
- Penetrates Quickly
- Rapidly Cools Dies
- Fats and Sulfur Content Remain High
- Provides an Excellent Finish on Threads

Mike-O-Thread Dark and Light are premium quality, heavy viscosity cutting oils which provide smooth, clean and accurate thread cutting on all metals. Sulfurized and chlorinated extreme pressure additives provide excellent lubrication in severe cutting applications such as pipe threading, sawing, and other difficult slowspeed operations.

Size	Part No.	Pkg Qty	Price Each
------	----------	---------	------------

Dark

1 gallon	E-3003-14	4	51.46
5 gallon	E-3004-05	1	240.68
55 gallon	E-3005-55	1	1908.18

Light

1 gallon	E-2003-14	4	51.46
5 gallon	E-2004-05	1	240.68
55 gallon	E-2005-55	1	1908.18

MULTI-PURPOSE WAX LUBRICANT ASHBURN WAX STICK

- Safe for the Environment
- Replaces Petroleum Cutting Oils and Solvent Based Tapping Fluids
- Unaffected by Heat from Friction
- Improves Finish and Size
- Very Easy to Use



Ashburn Wax Stick is an innovative, multi-purpose lubricant which effectively removes heat and lubricates while withstanding tremendous pressures. It is often used as a replacement for tapping and cutting fluids. Wax Stick is ideal for sawing, drilling, tapping, pipe threading, and as a cement form release agent.

Size	Part No.	Pkg Qty	Price Each
1 lb	E-6001-01	24	26.54

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