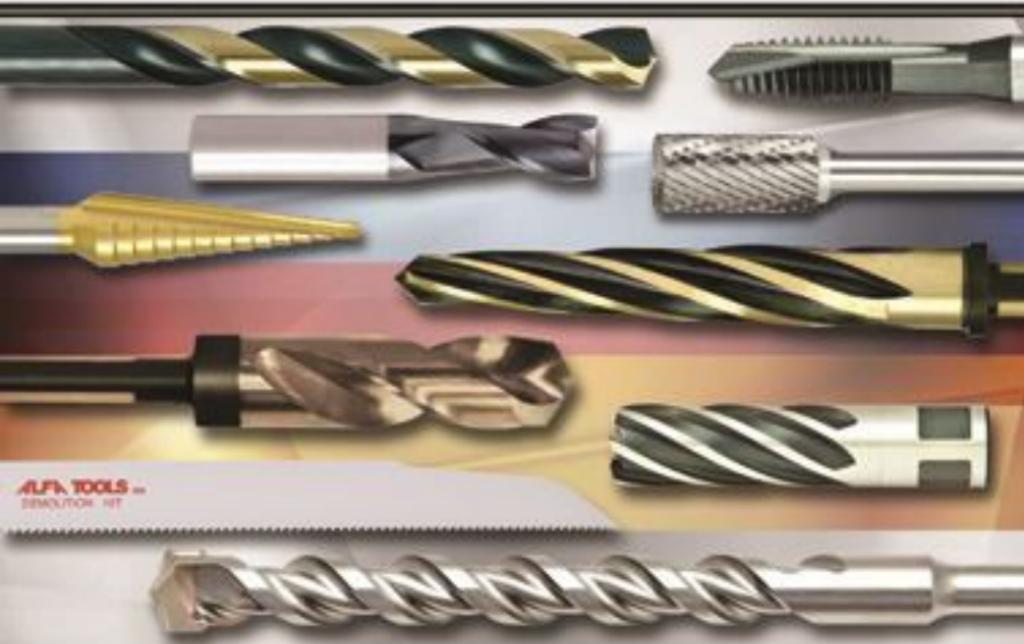


ALFA TOOLS®



ALFA TOOLS ...
DEMOLITION HIT

Product Catalog 15GEN

Quick Index



Drilling & Metal Cutting Tools

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A

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Our Abrasive Products are featured in a separate publication 15ABR

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Drills, Reamers Countersinks, Counterbores Annular Cutters, Accessories

A

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A

Drills, Reamers Countersinks, Counterbores Annular Cutters, Accessories

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A



Blitz Bits® - Mechanic's Length

MADE IN
U. S. A.

Premium High-Speed Steel

Heavy Duty
3-Flat Shank Design
(On 3/16" and Larger)
135° Split Point
Black Oxide & Gold Finish



Features:

- Engineered for heavy duty work, BLITZ BITS® are high performance drills for production as well as tough maintenance applications.
- Made from a premium grade of M-7 molybdenum high-speed steel, which has a special black and gold surface treatment to increase lubricity and reduce friction.
- The strong web construction provides greater strength and rigidity to drill in hard-to-drill materials like stainless steel and titanium alloys.
- The buttressed cutting edge, with an acute rake, makes the BLITZ BIT® cut cleanly and accurately with less effort. The extra clearance behind the side margin reduces friction, enabling balanced cutting action with closer hole tolerances, at higher speeds.

- Precision ground 135° split point is self-centering and reduces thrust.
- Designed for drilling the widest range of materials like mild steel, stainless steel and non-ferrous materials.
- The special 3-flat shank design provides a positive no-slip grip – ideal for cordless, keyless chuck and conventional power tools.
- Shorter overall length increases rigidity.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
*1/16	.0625	7/8	1-7/8	BBML74201
*5/64	.0781	1	2	BBML74202
*3/32	.0938	1-1/4	2-1/4	BBML74203
*7/64	.1094	1-5/16	2-3/8	BBML74204
*1/8	.1250	1-7/16	2-1/2	BBML74205
*9/64	.1406	1-9/16	2-5/8	BBML74206
*5/32	.1562	1-11/16	2-3/4	BBML74207
*11/64	.1719	1-13/16	2-7/8	BBML74208
3/16	.1875	1-7/8	3	BBML74209
13/64	.2031	1-15/16	3-1/8	BBML74210
7/32	.2188	2	3-1/4	BBML74211
15/64	.2344	2-1/16	3-3/8	BBML74212
1/4	.2500	2	3-1/2	BBML74213
17/64	.2656	2-1/8	3-5/8	BBML74214
9/32	.2812	2-1/4	3-3/4	BBML74215
19/64	.2969	2-3/8	3-7/8	BBML74216
5/16	.3125	2-1/2	4	BBML74217
21/64	.3281	2-9/16	4-1/16	BBML74218
11/32	.3438	2-5/8	4-1/8	BBML74219
23/64	.3594	2-11/16	4-3/16	BBML74220
3/8	.3750	2-11/16	4-1/8	BBML74221
25/64	.3906	2-3/4	4-5/16	BBML74222
13/32	.4062	2-13/16	4-3/8	BBML74223
27/64	.4219	2-7/8	4-7/16	BBML74224
7/16	.4375	2-15/16	4-1/2	BBML74225
29/64	.4531	3	4-5/8	BBML74226
15/32	.4688	3-1/8	4-3/4	BBML74227
31/64	.4844	3-1/4	4-7/8	BBML74228
1/2	.5000	3-3/8	5	BBML74229

1/16" to 5/16", 12 per envelope,
21/64" to 1/2", 6 per envelope

*sizes do not have flats on shank



SETS

QTY.	SIZES	ALFA USA
		STOCK #
13 Pc.	1/16" - 1/4" by 64ths	BBML74294
15 Pc.	1/16" - 1/2" by 32nds	BBML74293
21 Pc.	1/16" - 3/8" by 64ths	BBML74292
29 Pc.	1/16" - 1/2" by 64ths	BBML74290
29 Pc.	Drill Mug 1/16" - 1/2" by 64ths	BBML74290DM

Reduced Shank Drills on Page A40



Blitz Nitride® - Jobber Drills

**Nitrided Premium High-Speed Steel
For Extra Tough Performance**

MADE IN
U. S. A.

**Extra Heavy Duty
135° Split Point
Black Oxide & Silver Finish**



Features:

- Engineered for heavy duty work, BLITZ NITRIDE® bits are high performance drills for production as well as tough maintenance applications.
- Made from a premium grade of M-7 molybdenum high-speed steel, with a special **nitride treatment**, giving additional hardness to the cutting edge for tougher applications, and with a black and silver surface treatment to increase lubricity and reduce friction.
- The strong web construction provides greater strength and rigidity to drill in hard to drill materials like stainless steel and titanium alloys.
- The buttressed cutting edge, with an acute rake, makes the BLITZ NITRIDE® bits cut cleanly and accurately with less effort. The extra clearance behind the side margin reduces friction, enabling balanced cutting action with closer hole tolerances, at higher speeds.
- Precision ground 135° split point is self-centering and reduces thrust.
- Designed for drilling the widest range of materials including mild steel, stainless steel, titanium and nickel alloy steels and non-ferrous materials.

FRACTIONAL

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1/16	.0625	7/8	1-7/8	BBN74501
5/64	.0781	1	2	BBN74502
3/32	.0938	1-1/4	2-1/4	BBN74503
7/64	.1094	1-1/2	2-5/8	BBN74504
1/8	.1250	1-5/8	2-3/4	BBN74505
9/64	.1406	1-3/4	2-7/8	BBN74506
5/32	.1562	2	3-1/8	BBN74507
11/64	.1719	2-1/8	3-1/4	BBN74508
3/16	.1875	2-5/16	3-1/2	BBN74509
13/64	.2031	2-7/16	3-5/8	BBN74510
7/32	.2188	2-1/2	3-3/4	BBN74511
15/64	.2344	2-5/8	3-7/8	BBN74512
1/4	.2500	2-3/4	4	BBN74513
17/64	.2656	2-7/8	4-1/8	BBN74514
9/32	.2812	2-15/16	4-1/4	BBN74515
19/64	.2969	3-1/16	4-3/8	BBN74516
5/16	.3125	3-3/16	4-1/2	BBN74517
21/64	.3281	3-5/16	4-5/8	BBN74518
11/32	.3438	3-7/16	4-3/4	BBN74519
23/64	.3594	3-1/2	4-7/8	BBN74520
3/8	.3750	3-5/8	5	BBN74521
25/64	.3906	3-3/4	5-1/8	BBN74522
13/32	.4062	3-7/8	5-1/4	BBN74523
27/64	.4219	3-15/16	5-3/8	BBN74524
7/16	.4375	4-1/16	5-1/2	BBN74525
29/64	.4531	4-3/16	5-5/8	BBN74526
15/32	.4688	4-5/16	5-3/4	BBN74527
31/64	.4844	4-3/8	5-7/8	BBN74528
1/2	.5000	4-1/2	6	BBN74529

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope



SETS

QTY.	SIZES	ALFA USA
		STOCK #
13 Pc.	1/16" - 1/4" by 64ths	BBN74594
15 Pc.	1/16" - 1/2" by 32nds	BBN74593
21 Pc.	1/16" - 3/8" by 64ths	BBN74592
29 Pc.	1/16" - 1/2" by 64ths	BBN74590
29 Pc.	Drill Mug 1/16" - 1/2" by 64ths	BBN74590DM



Blitz Bits® - Jobber Drills

MADE IN
U. S. A.

Premium High-Speed Steel

Heavy Duty
135° Split Point
Black Oxide & Gold Finish



Features:

- Engineered for heavy duty work, BLITZ BITS® are high performance drills for production as well as tough maintenance applications.
- Made from a premium grade of M-7 molybdenum high speed steel, which has a special black and gold surface treatment to increase lubricity and reduce friction.
- The strong web construction provides greater strength and rigidity to drill in hard to drill materials like stainless steel and titanium alloys.

- The buttressed cutting edge, with an acute rake, makes the BLITZ BIT® cut cleanly and accurately with less effort. The extra clearance behind the side margin reduces friction, enabling balanced cutting action with closer hole tolerances, at higher speeds.
- Precision ground 135° split point is self-centering and reduces thrust.
- Designed for drilling the widest range of materials like mild steel, stainless steel and non-ferrous materials.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1/16	.0625	7/8	1-7/8	BB74101
5/64	.0781	1	2	BB74102
3/32	.0938	1-1/4	2-1/4	BB74103
7/64	.1094	1-1/2	2-5/8	BB74104
1/8	.1250	1-5/8	2-3/4	BB74105
9/64	.1406	1-3/4	2-7/8	BB74106
5/32	.1562	2	3-1/8	BB74107
11/64	.1719	2-1/8	3-1/4	BB74108
3/16	.1875	2-5/16	3-1/2	BB74109
13/64	.2031	2-7/16	3-5/8	BB74110
7/32	.2188	2-1/2	3-3/4	BB74111
15/64	.2344	2-5/8	3-7/8	BB74112
1/4	.2500	2-3/4	4	BB74113
17/64	.2656	2-7/8	4-1/8	BB74114
9/32	.2812	2-15/16	4-1/4	BB74115
19/64	.2969	3-1/16	4-3/8	BB74116
5/16	.3125	3-3/16	4-1/2	BB74117
21/64	.3281	3-5/16	4-5/8	BB74118
11/32	.3438	3-7/16	4-3/4	BB74119
23/64	.3594	3-1/2	4-7/8	BB74120
3/8	.3750	3-5/8	5	BB74121
25/64	.3906	3-3/4	5-1/8	BB74122
13/32	.4062	3-7/8	5-1/4	BB74123
27/64	.4219	3-15/16	5-3/8	BB74124
7/16	.4375	4-1/16	5-1/2	BB74125
29/64	.4531	4-3/16	5-5/8	BB74126
15/32	.4688	4-5/16	5-3/4	BB74127
31/64	.4844	4-3/8	5-7/8	BB74128
1/2	.5000	4-1/2	6	BB74129

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope



Sizes 1/16" to 1/2" are available carded.
See price list for details.



SETS

QTY.	SIZES	ALFA USA
		STOCK #
13 Pcs.	1/16" - 1/4" by 64ths	BB74194
15 Pcs.	1/16" - 1/2" by 32nds	BB74193
21 Pcs.	1/16" - 3/8" by 64ths	BB74192
29 Pcs.	1/16" - 1/2" by 64ths	BB74190
26 Pcs.	Letter A - Z	BB74197
60 Pcs.	Wire Gage #1 - #60	BB74191
115 Pcs.	1/16" - 1/2" by 64ths, A - Z, Wire Gage #1 - #60	BB74199
29 Pcs.	Drill Mug 1/16" - 1/2" by 64ths	BB74190DM

Reduced Shank Drills on Page A40



Blitz Bits® - Jobber Drills - Cont.

MADE IN
U. S. A.

Premium High-Speed Steel

Heavy Duty
135° Split Point
Black Oxide & Gold Finish



LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
A	.234	2-5/8	3-7/8	BB74201
B	.238	2-3/4	4	BB74202
C	.242	2-3/4	4	BB74203
D	.246	2-3/4	4	BB74204
E	.250	2-3/4	4	BB74205
F	.257	2-7/8	4-1/8	BB74206
G	.261	2-7/8	4-1/8	BB74207
H	.266	2-7/8	4-1/8	BB74208
I	.272	2-7/8	4-1/8	BB74209
J	.277	2-7/8	4-1/8	BB74210
K	.281	2-15/16	4-1/4	BB74211
L	.290	2-15/16	4-1/4	BB74212
M	.295	3-1/16	4-3/8	BB74213

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
N	.302	3-1/16	4-3/8	BB74214
O	.316	3-3/16	4-1/2	BB74215
P	.323	3-5/16	4-5/8	BB74216
Q	.332	3-7/16	4-3/4	BB74217
R	.339	3-7/16	4-3/4	BB74218
S	.348	3-1/2	4-7/8	BB74219
T	.358	3-1/2	4-7/8	BB74220
U	.368	3-5/8	5	BB74221
V	.377	3-5/8	5	BB74222
W	.386	3-3/4	5-1/8	BB74223
X	.397	3-3/4	5-1/8	BB74224
Y	.404	3-7/8	5-1/4	BB74225
Z	.413	3-7/8	5-1/4	BB74226

A to N, 12 per envelope, O to Z, 6 per envelope

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1	.2280	2-5/8	3-7/8	BB74301
2	.2210	2-5/8	3-7/8	BB74302
3	.2130	2-1/2	3-3/4	BB74303
4	.2090	2-1/2	3-3/4	BB74304
5	.2055	2-1/2	3-3/4	BB74305
6	.2040	2-1/2	3-3/4	BB74306
7	.2010	2-7/16	3-5/8	BB74307
8	.1990	2-7/16	3-5/8	BB74308
9	.1960	2-7/16	3-5/8	BB74309
10	.1935	2-7/16	3-5/8	BB74310
11	.1910	2-5/16	3-1/2	BB74311
12	.1890	2-5/16	3-1/2	BB74312
13	.1850	2-5/16	3-1/2	BB74313
14	.1820	2-3/16	3-3/8	BB74314
15	.1800	2-3/16	3-3/8	BB74315
16	.1770	2-3/16	3-3/8	BB74316
17	.1730	2-3/16	3-3/8	BB74317
18	.1695	2-1/8	3-1/4	BB74318
19	.1660	2-1/8	3-1/4	BB74319
20	.1610	2-1/8	3-1/4	BB74320
21	.1590	2-1/8	3-1/4	BB74321
22	.1570	2	3-1/8	BB74322
23	.1540	2	3-1/8	BB74323
24	.1520	2	3-1/8	BB74324
25	.1495	1-7/8	3	BB74325
26	.1470	1-7/8	3	BB74326
27	.1440	1-7/8	3	BB74327
28	.1405	1-3/4	2-7/8	BB74328
29	.1360	1-3/4	2-7/8	BB74329
30	.1285	1-5/8	2-3/4	BB74330

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
31	.1200	1-5/8	2-3/4	BB74331
32	.1160	1-5/8	2-3/4	BB74332
33	.1130	1-1/2	2-5/8	BB74333
34	.1110	1-1/2	2-5/8	BB74334
35	.1100	1-1/2	2-5/8	BB74335
36	.1065	1-7/16	2-1/2	BB74336
37	.1040	1-7/16	2-1/2	BB74337
38	.1015	1-7/16	2-1/2	BB74338
39	.0995	1-3/8	2-3/8	BB74339
40	.0980	1-3/8	2-3/8	BB74340
41	.0960	1-3/8	2-3/8	BB74341
42	.0935	1-1/4	2-1/4	BB74342
43	.0890	1-1/4	2-1/4	BB74343
44	.0860	1-1/8	2-1/8	BB74344
45	.0820	1-1/8	2-1/8	BB74345
46	.0810	1-1/8	2-1/8	BB74346
47	.0785	1	2	BB74347
48	.0760	1	2	BB74348
49	.0730	1	2	BB74349
50	.0700	1	2	BB74350
51	.0670	1	2	BB74351
52	.0635	7/8	1-7/8	BB74352
*53	.0595	7/8	1-7/8	BB74353
*54	.0550	7/8	1-7/8	BB74354
*55	.0520	7/8	1-7/8	BB74355
*56	.0465	3/4	1-3/4	BB74356
*57	.0430	3/4	1-3/4	BB74357
*58	.0420	11/16	1-5/8	BB74358
*59	.0410	11/16	1-5/8	BB74359
*60	.0400	11/16	1-5/8	BB74360

1 to 60, 12 per envelope

* #53 - #60 drills do not have a split point

General Purpose Jobber Drills - Alfa USA

Super High-Speed Steel

Jobber Length

118° Point

Black Oxide Or Bright Finish



MADE IN
U. S. A.

- Features:**
- An excellent general purpose drill with a conventional 118° point angle.
 - Designed for drilling in a wide range of materials, equipment and operating conditions.

- For black oxide drills, typical applications include drilling production parts, maintenance jobs and portable drilling.
- Bright finish provides good chip ejection in low carbon or soft materials.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				BLACK OXIDE	BRIGHT FINISH
1/64	.0156	3/16	3/4	J150097	J150097B
1/32	.0312	1/2	1-3/8	J150098	J150098B
3/64	.0469	3/4	1-3/4	J150099	J150099B
1/16	.0625	7/8	1-7/8	J150101	J150101B
5/64	.0781	1	2	J150102	J150102B
3/32	.0938	1-1/4	2-1/4	J150103	J150103B
7/64	.1094	1-1/2	2-5/8	J150104	J150104B
1/8	.1250	1-5/8	2-3/4	J150105	J150105B
9/64	.1406	1-3/4	2-7/8	J150106	J150106B
5/32	.1562	2	3-1/8	J150107	J150107B
11/64	.1719	2-1/8	3-1/4	J150108	J150108B
3/16	.1875	2-5/16	3-1/2	J150109	J150109B
13/64	.2031	2-7/16	3-5/8	J150110	J150110B
7/32	.2188	2-1/2	3-3/4	J150111	J150111B
15/64	.2344	2-5/8	3-7/8	J150112	J150112B
1/4	.2500	2-3/4	4	J150113	J150113B
17/64	.2656	2-7/8	4-1/8	J150114	J150114B
9/32	.2812	2-15/16	4-1/4	J150115	J150115B
19/64	.2969	3-1/16	4-3/8	J150116	J150116B
5/16	.3125	3-3/16	4-1/2	J150117	J150117B
21/64	.3281	3-5/16	4-5/8	J150118	J150118B
11/32	.3438	3-7/16	4-3/4	J150119	J150119B
23/64	.3594	3-1/2	4-7/8	J150120	J150120B
3/8	.3750	3-5/8	5	J150121	J150121B
25/64	.3906	3-3/4	5-1/8	J150122	J150122B
13/32	.4062	3-7/8	5-1/4	J150123	J150123B
27/64	.4219	3-15/16	5-3/8	J150124	J150124B
7/16	.4375	4-1/16	5-1/2	J150125	J150125B
29/64	.4531	4-3/16	5-5/8	J150126	J150126B
15/32	.4688	4-5/16	5-3/4	J150127	J150127B
31/64	.4844	4-3/8	5-7/8	J150128	J150128B
1/2	.5000	4-1/2	6	J150129	J150129B

**Jobber Drills over 1/2" diameter have straight cylindrical shanks.
For 1/2" Reduced Shank Drills, see Silver & Deming drills on pages A42-44.**

33/64	.5156	4-13/16	6-5/8	J150130	-
17/32	.5312	4-13/16	6-5/8	J150131	-
35/64	.5469	4-13/16	6-5/8	J150132	-
9/16	.5625	4-13/16	6-5/8	J150133	-
37/64	.5781	4-13/16	6-5/8	J150134	-
19/32	.5938	5-3/16	7-1/8	J150135	-
39/64	.6094	5-3/16	7-1/8	J150136	-
5/8	.6250	5-3/16	7-1/8	J150137	-
41/64	.6406	5-3/16	7-1/8	J150138	-
21/32	.6562	5-3/16	7-1/8	J150139	-
43/64	.6719	5-5/8	7-5/8	J150140	-
11/16	.6875	5-5/8	7-5/8	J150141	-

1/64" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope
33/64" to 11/16", 1 per pack

Sizes 1/16" to 1/2" are available carded.
See price list for details.

Reduced Shank Drills on Page A41

LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				BLACK OXIDE	BRIGHT FINISH
A	.234	2-5/8	3-7/8	J160201	J160201B
B	.238	2-3/4	4	J160202	J160202B
C	.242	2-3/4	4	J160203	J160203B
D	.246	2-3/4	4	J160204	J160204B
E	.250	2-3/4	4	J160205	J160205B
F	.257	2-7/8	4-1/8	J160206	J160206B
G	.261	2-7/8	4-1/8	J160207	J160207B
H	.266	2-7/8	4-1/8	J160208	J160208B
I	.272	2-7/8	4-1/8	J160209	J160209B
J	.277	2-7/8	4-1/8	J160210	J160210B
K	.281	2-15/16	4-1/4	J160211	J160211B
L	.290	2-15/16	4-1/4	J160212	J160212B
M	.295	3-1/16	4-3/8	J160213	J160213B
N	.302	3-1/16	4-3/8	J160214	J160214B
O	.316	3-3/16	4-1/2	J160215	J160215B
P	.323	3-5/16	4-5/8	J160216	J160216B
Q	.332	3-7/16	4-3/4	J160217	J160217B
R	.339	3-7/16	4-3/4	J160218	J160218B
S	.348	3-1/2	4-7/8	J160219	J160219B
T	.358	3-1/2	4-7/8	J160220	J160220B
U	.368	3-5/8	5	J160221	J160221B
V	.377	3-5/8	5	J160222	J160222B
W	.386	3-3/4	5-1/8	J160223	J160223B
X	.397	3-3/4	5-1/8	J160224	J160224B
Y	.404	3-7/8	5-1/4	J160225	J160225B
Z	.413	3-7/8	5-1/4	J160226	J160226B

A to N, 12 per envelope, O to Z, 6 per envelope



SETS

QTY.	SIZES	ALFA USA	
		STOCK #	
13 Pcs.	1/16" - 1/4" by 64ths	J150194	J150194B
15 Pcs.	1/16" - 1/2" by 32nds	J150193	J150193B
21 Pcs.	1/16" - 3/8" by 64ths	J150192	J150192B
29 Pcs.	1/16" - 1/2" by 64ths	J150190	J150190B
26 Pcs.	Letter A - Z	J150197	J150197B
60 Pcs.	Wire Gage #1 - #60	J150191	J150191B
20 Pcs.	Wire Gage #61 - #80	J150189	J150189B
115 Pcs.	1/16" - 1/2" by 64ths, A - Z, Wire Gage #1 - #60	J150199	J150199B
29 Pcs.	Drill Mug 1/16" - 1/2" by 64ths	J150190DM	J150190BDM

General Purpose Jobber Drills - Alfa USA - Cont.

Super High-Speed Steel

Jobber Length

118° Point

Black Oxide Or Bright Finish



MADE IN
U. S. A.

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				BRIGHT FINISH	STOCK #
1	.2280	2-5/8	3-7/8	J160101	J160101B
2	.2210	2-5/8	3-7/8	J160102	J160102B
3	.2130	2-1/2	3-3/4	J160103	J160103B
4	.2090	2-1/2	3-3/4	J160104	J160104B
5	.2055	2-1/2	3-3/4	J160105	J160105B
6	.2040	2-1/2	3-3/4	J160106	J160106B
7	.2010	2-7/16	3-5/8	J160107	J160107B
8	.1990	2-7/16	3-5/8	J160108	J160108B
9	.1960	2-7/16	3-5/8	J160109	J160109B
10	.1935	2-7/16	3-5/8	J160110	J160110B
11	.1910	2-5/16	3-1/2	J160111	J160111B
12	.1890	2-5/16	3-1/2	J160112	J160112B
13	.1850	2-5/16	3-1/2	J160113	J160113B
14	.1820	2-3/16	3-3/8	J160114	J160114B
15	.1800	2-3/16	3-3/8	J160115	J160115B
16	.1770	2-3/16	3-3/8	J160116	J160116B
17	.1730	2-3/16	3-3/8	J160117	J160117B
18	.1695	2-1/8	3-1/4	J160118	J160118B
19	.1660	2-1/8	3-1/4	J160119	J160119B
20	.1610	2-1/8	3-1/4	J160120	J160120B
21	.1590	2-1/8	3-1/4	J160121	J160121B
22	.1570	2	3-1/8	J160122	J160122B
23	.1540	2	3-1/8	J160123	J160123B
24	.1520	2	3-1/8	J160124	J160124B
25	.1495	1-7/8	3	J160125	J160125B
26	.1470	1-7/8	3	J160126	J160126B
27	.1440	1-7/8	3	J160127	J160127B
28	.1405	1-3/4	2-7/8	J160128	J160128B
29	.1360	1-3/4	2-7/8	J160129	J160129B
30	.1285	1-5/8	2-3/4	J160130	J160130B
31	.1200	1-5/8	2-3/4	J160131	J160131B
32	.1160	1-5/8	2-3/4	J160132	J160132B
33	.1130	1-1/2	2-5/8	J160133	J160133B
34	.1110	1-1/2	2-5/8	J160134	J160134B
35	.1100	1-1/2	2-5/8	J160135	J160135B
36	.1065	1-7/16	2-1/2	J160136	J160136B
37	.1040	1-7/16	2-1/2	J160137	J160137B
38	.1015	1-7/16	2-1/2	J160138	J160138B
39	.0995	1-3/8	2-3/8	J160139	J160139B
40	.0980	1-3/8	2-3/8	J160140	J160140B

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				BLACK OXIDE	BRIGHT FINISH
41	.0960	1-3/8	2-3/8	J160141	J160141B
42	.0935	1-1/4	2-1/4	J160142	J160142B
43	.0890	1-1/4	2-1/4	J160143	J160143B
44	.0860	1-1/8	2-1/8	J160144	J160144B
45	.0820	1-1/8	2-1/8	J160145	J160145B
46	.0810	1-1/8	2-1/8	J160146	J160146B
47	.0785	1	2	J160147	J160147B
48	.0760	1	2	J160148	J160148B
49	.0730	1	2	J160149	J160149B
50	.0700	1	2	J160150	J160150B
51	.0670	1	2	J160151	J160151B
52	.0635	7/8	1-7/8	J160152	J160152B
53	.0595	7/8	1-7/8	J160153	J160153B
54	.0550	7/8	1-7/8	J160154	J160154B
55	.0520	7/8	1-7/8	J160155	J160155B
56	.0465	3/4	1-3/4	J160156	J160156B
57	.0430	3/4	1-3/4	J160157	J160157B
58	.0420	11/16	1-5/8	J160158	J160158B
59	.0410	11/16	1-5/8	J160159	J160159B
60	.0400	11/16	1-5/8	J160160	J160160B
61	.0390	11/16	1-5/8	J160161	J160161B
62	.0380	5/8	1-1/2	J160162	J160162B
63	.0370	5/8	1-1/2	J160163	J160163B
64	.0360	5/8	1-1/2	J160164	J160164B
65	.0350	5/8	1-1/2	J160165	J160165B
66	.0330	1/2	1-3/8	J160166	J160166B
67	.0320	1/2	1-3/8	J160167	J160167B
68	.0310	1/2	1-3/8	J160168	J160168B
69	.0292	1/2	1-3/8	J160169	J160169B
70	.0280	3/8	1-1/4	J160170	J160170B
71	.0260	3/8	1-1/4	J160171	J160171B
72	.0250	5/16	1-1/8	J160172	J160172B
73	.0240	5/16	1-1/8	J160173	J160173B
74	.0225	1/4	1	J160174	J160174B
75	.0210	1/4	1	J160175	J160175B
76	.0200	3/16	7/8	J160176	J160176B
77	.0180	3/16	7/8	J160177	J160177B
78	.0160	3/16	7/8	J160178	J160178B
79	.0145	1/8	3/4	J160179	J160179B
80	.0135	1/8	3/4	J160180	J160180B

MINIATURE DRILLS – IDEAL FOR DRILLING: Fuel injector nozzles, aerosol valves, surgical needles, and other applications requiring small, accurate holes.

81	.0130	3/32	3/4	J160181	-
82	.0125	3/32	3/4	J160182	-
83	.0120	3/32	3/4	J160183	-
84	.0115	3/32	3/4	J160184	-
85	.0110	3/32	3/4	J160185	-
86	.0105	3/32	3/4	J160186	-
87	.0100	5/64	3/4	J160187	-
88	.0095	5/64	3/4	J160188	-

89	.0091	5/64	3/4	J160189	-
90	.0087	5/64	3/4	J160190	-
91	.0083	5/64	3/4	J160191	-
92	.0079	1/16	3/4	J160192	-
93	.0075	1/16	3/4	J160193	-
94	.0071	1/16	3/4	J160194	-
95	.0067	1/16	3/4	J160195	-
96	.0063	1/16	3/4	J160196	-
97	.0059	1/16	3/4	J160197	-

1 to 97, 12 per envelope

Jobber Drills

A

M2 High-Speed Steel

Jobber Length
118° Point
Black Oxide

**Features:**

- General purpose economy drill with a conventional 118° point angle.
- Designed for drilling in a wide range of materials, equipment and operating conditions.

- For black oxide drills, typical applications include drilling production parts, maintenance jobs and portable drilling.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
1/16	.0625	7/8	1-7/8	J250101
5/64	.0781	1	2	J250102
3/32	.0938	1-1/4	2-1/4	J250103
7/64	.1094	1-1/2	2-5/8	J250104
1/8	.1250	1-5/8	2-3/4	J250105
9/64	.1406	1-3/4	2-7/8	J250106
5/32	.1562	2	3-1/8	J250107
11/64	.1719	2-1/8	3-1/4	J250108
3/16	.1875	2-5/16	3-1/2	J250109
13/64	.2031	2-7/16	3-5/8	J250110
7/32	.2188	2-1/2	3-3/4	J250111
15/64	.2344	2-5/8	3-7/8	J250112
1/4	.2500	2-3/4	4	J250113
17/64	.2656	2-7/8	4-1/8	J250114
9/32	.2812	2-15/16	4-1/4	J250115
19/64	.2969	3-1/16	4-3/8	J250116
5/16	.3125	3-3/16	4-1/2	J250117
21/64	.3281	3-5/16	4-5/8	J250118
11/32	.3438	3-7/16	4-3/4	J250119
23/64	.3594	3-1/2	4-7/8	J250120
3/8	.3750	3-5/8	5	J250121

1/64" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope
 33/64" to 11/16", 1 per pack

Sizes 1/16" to 1/2" are available carded.
 See price list for details.

Reduced Shank Drills
 on Page A40



SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
25/64	.3906	3-3/4	5-1/8	J250122
13/32	.4062	3-7/8	5-1/4	J250123
27/64	.4219	3-15/16	5-3/8	J250124
7/16	.4375	4-1/16	5-1/2	J250125
29/64	.4531	4-3/16	5-5/8	J250126
15/32	.4688	4-5/16	5-3/4	J250127
31/64	.4844	4-3/8	5-7/8	J250128
1/2	.5000	4-1/2	6	J250129

*Jobber Drills over 1/2" diameter have straight cylindrical shanks.
 For 1/2" Reduced Shank Drills, see Silver & Deming drills on pages A42-44.*

33/64	.5156	4-13/16	6-5/8	J250130
17/32	.5312	4-13/16	6-5/8	J250131
35/64	.5469	4-13/16	6-5/8	J250132
9/16	.5625	4-13/16	6-5/8	J250133
37/64	.5781	4-13/16	6-5/8	J250134
19/32	.5938	5-3/16	7-1/8	J250135
39/64	.6094	5-3/16	7-1/8	J250136
5/8	.6250	5-3/16	7-1/8	J250137
41/64	.6406	5-3/16	7-1/8	J250138
21/32	.6562	5-3/16	7-1/8	J250139
43/64	.6719	5-5/8	7-5/8	J250140
11/16	.6875	5-5/8	7-5/8	J250141

**SETS**

QTY.	SIZES	ECO PRO
		STOCK #
13 Pcs.	1/16" - 1/4" by 64ths	J250194
15 Pcs.	1/16" - 1/2" by 32nds	J250193
21 Pcs.	1/16" - 3/8" by 64ths	J250192
29 Pcs.	1/16" - 1/2" by 64ths	J250190
26 Pcs.	Letter A - Z	J250197
60 Pcs.	Wire Gage #1 - #60	J250191
115 Pcs.	1/16" - 1/2" by 64ths, A - Z, Wire Gage #1 - #60	J250199
29 Pcs.	Drill Mug 1/16" - 1/2" by 64ths	J250190DM

M2 High-Speed Steel

Jobber Length
118° Point
Black Oxide



LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
A	.234	2-5/8	3-7/8	J260201
B	.238	2-3/4	4	J260202
C	.242	2-3/4	4	J260203
D	.246	2-3/4	4	J260204
E	.250	2-3/4	4	J260205
F	.257	2-7/8	4-1/8	J260206
G	.261	2-7/8	4-1/8	J260207
H	.266	2-7/8	4-1/8	J260208
I	.272	2-7/8	4-1/8	J260209
J	.277	2-7/8	4-1/8	J260210
K	.281	2-15/16	4-1/4	J260211
L	.290	2-15/16	4-1/4	J260212
M	.295	3-1/16	4-3/8	J260213

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
N	.302	3-1/16	4-3/8	J260214
O	.316	3-3/16	4-1/2	J260215
P	.323	3-5/16	4-5/8	J260216
Q	.332	3-7/16	4-3/4	J260217
R	.339	3-7/16	4-3/4	J260218
S	.348	3-1/2	4-7/8	J260219
T	.358	3-1/2	4-7/8	J260220
U	.368	3-5/8	5	J260221
V	.377	3-5/8	5	J260222
W	.386	3-3/4	5-1/8	J260223
X	.397	3-3/4	5-1/8	J260224
Y	.404	3-7/8	5-1/4	J260225
Z	.413	3-7/8	5-1/4	J260226

A to N, 12 per envelope, O to Z, 6 per envelope

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
1	.2280	2-5/8	3-7/8	J260101
2	.2210	2-5/8	3-7/8	J260102
3	.2130	2-1/2	3-3/4	J260103
4	.2090	2-1/2	3-3/4	J260104
5	.2055	2-1/2	3-3/4	J260105
6	.2040	2-1/2	3-3/4	J260106
7	.2010	2-7/16	3-5/8	J260107
8	.1990	2-7/16	3-5/8	J260108
9	.1960	2-7/16	3-5/8	J260109
10	.1935	2-7/16	3-5/8	J260110
11	.1910	2-5/16	3-1/2	J260111
12	.1890	2-5/16	3-1/2	J260112
13	.1850	2-5/16	3-1/2	J260113
14	.1820	2-3/16	3-3/8	J260114
15	.1800	2-3/16	3-3/8	J260115
16	.1770	2-3/16	3-3/8	J260116
17	.1730	2-3/16	3-3/8	J260117
18	.1695	2-1/8	3-1/4	J260118
19	.1660	2-1/8	3-1/4	J260119
20	.1610	2-1/8	3-1/4	J260120
21	.1590	2-1/8	3-1/4	J260121
22	.1570	2	3-1/8	J260122
23	.1540	2	3-1/8	J260123
24	.1520	2	3-1/8	J260124
25	.1495	1-7/8	3	J260125
26	.1470	1-7/8	3	J260126
27	.1440	1-7/8	3	J260127
28	.1405	1-3/4	2-7/8	J260128
29	.1360	1-3/4	2-7/8	J260129
30	.1285	1-5/8	2-3/4	J260130
31	.1200	1-5/8	2-3/4	J260131
32	.1160	1-5/8	2-3/4	J260132
33	.1130	1-1/2	2-5/8	J260133
34	.1110	1-1/2	2-5/8	J260134
35	.1100	1-1/2	2-5/8	J260135
36	.1065	1-7/16	2-1/2	J260136
37	.1040	1-7/16	2-1/2	J260137
38	.1015	1-7/16	2-1/2	J260138
39	.0995	1-3/8	2-3/8	J260139
40	.0980	1-3/8	2-3/8	J260140

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
41	.0960	1-3/8	2-3/8	J260141
42	.0935	1-1/4	2-1/4	J260142
43	.0890	1-1/4	2-1/4	J260143
44	.0860	1-1/8	2-1/8	J260144
45	.0820	1-1/8	2-1/8	J260145
46	.0810	1-1/8	2-1/8	J260146
47	.0785	1	2	J260147
48	.0760	1	2	J260148
49	.0730	1	2	J260149
50	.0700	1	2	J260150
51	.0670	1	2	J260151
52	.0635	7/8	1-7/8	J260152
53	.0595	7/8	1-7/8	J260153
54	.0550	7/8	1-7/8	J260154
55	.0520	7/8	1-7/8	J260155
56	.0465	3/4	1-3/4	J260156
57	.0430	3/4	1-3/4	J260157
58	.0420	11/16	1-5/8	J260158
59	.0410	11/16	1-5/8	J260159
60	.0400	11/16	1-5/8	J260160
61	.0390	11/16	1-5/8	J260161
62	.0380	5/8	1-1/2	J260162
63	.0370	5/8	1-1/2	J260163
64	.0360	5/8	1-1/2	J260164
65	.0350	5/8	1-1/2	J260165
66	.0330	1/2	1-3/8	J260166
67	.0320	1/2	1-3/8	J260167
68	.0310	1/2	1-3/8	J260168
69	.0292	1/2	1-3/8	J260169
70	.0280	3/8	1-1/4	J260170
71	.0260	3/8	1-1/4	J260171
72	.0250	5/16	1-1/8	J260172
73	.0240	5/16	1-1/8	J260173
74	.0225	1/4	1	J260174
75	.0210	1/4	1	J260175
76	.0200	3/16	7/8	J260176
77	.0180	3/16	7/8	J260177
78	.0160	3/16	7/8	J260178
79	.0145	1/8	3/4	J260179
80	.0135	1/8	3/4	J260180

1 to 80, 12 per envelope

TiN Coated Jobber Drills

Super High-Speed Steel

MADE IN
U. S. A.

Jobber Length
118° Point
Titanium Nitride Coated
Gold Finish



Features:

- Titanium Nitride coating (TiN) is a gold colored ceramic coating applied by physical vapor deposit (PVD), ensuring high hardness with low friction.
- The super hard surface with high lubricity increases tool life.

- Ideal for production work or repetitive drilling in hard metals, hardened stainless and other difficult to drill materials.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1/16	.0625	7/8	1-7/8	J150101TN
5/64	.0781	1	2	J150102TN
3/32	.0938	1-1/4	2-1/4	J150103TN
7/64	.1094	1-1/2	2-5/8	J150104TN
1/8	.1250	1-5/8	2-3/4	J150105TN
9/64	.1406	1-3/4	2-7/8	J150106TN
5/32	.1562	2	3-1/8	J150107TN
11/64	.1719	2-1/8	3-1/4	J150108TN
3/16	.1875	2-5/16	3-1/2	J150109TN
13/64	.2031	2-7/16	3-5/8	J150110TN
7/32	.2188	2-1/2	3-3/4	J150111TN
15/64	.2344	2-5/8	3-7/8	J150112TN
1/4	.2500	2-3/4	4	J150113TN
17/64	.2656	2-7/8	4-1/8	J150114TN
9/32	.2812	2-15/16	4-1/4	J150115TN
19/64	.2969	3-1/16	4-3/8	J150116TN
5/16	.3125	3-3/16	4-1/2	J150117TN
21/64	.3281	3-5/16	4-5/8	J150118TN
11/32	.3438	3-7/16	4-3/4	J150119TN
23/64	.3594	3-1/2	4-7/8	J150120TN
3/8	.3750	3-5/8	5	J150121TN
25/64	.3906	3-3/4	5-1/8	J150122TN
13/32	.4062	3-7/8	5-1/4	J150123TN
27/64	.4219	3-15/16	5-3/8	J150124TN
7/16	.4375	4-1/16	5-1/2	J150125TN
29/64	.4531	4-3/16	5-5/8	J150126TN
15/32	.4688	4-5/16	5-3/4	J150127TN
31/64	.4844	4-3/8	5-7/8	J150128TN
1/2	.5000	4-1/2	6	J150129TN

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope

Sizes 1/16" to 1/2" are available carded.
See price list for details.



SETS

QTY.	SIZES	ALFA USA
		STOCK #
13 Pc.	1/16" - 1/4" by 64ths	J150194TN
15 Pc.	1/16" - 1/2" by 32nds	J150193TN
21 Pc.	1/16" - 3/8" by 64ths	J150192TN
29 Pc.	1/16" - 1/2" by 64ths	J150190TN
26 Pc.	Letter A - Z	J150197TN
60 Pc.	Wire Gage #1 - #60	J150191TN
115 Pc.	1/16" - 1/2" by 64ths, A - Z, Wire Gage #1 - #60	J150199TN
29 Pc.	Drill Mug 1/16" - 1/2" by 64ths	J150190TNDM

See Pages A16 to A17 for 135° Split Point Heavy Duty TiN Coated Drills

TiN Coated Jobber Drills - Cont.

Super High-Speed Steel

Jobber Length

118° Point

Titanium Nitride Coated

Gold Finish



MADE IN
U. S. A.

NEW!

LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
A	.234	2-5/8	3-7/8	J160201TN
B	.238	2-3/4	4	J160202TN
C	.242	2-3/4	4	J160203TN
D	.246	2-3/4	4	J160204TN
E	.250	2-3/4	4	J160205TN
F	.257	2-7/8	4-1/8	J160206TN
G	.261	2-7/8	4-1/8	J160207TN
H	.266	2-7/8	4-1/8	J160208TN
I	.272	2-7/8	4-1/8	J160209TN
J	.277	2-7/8	4-1/8	J160210TN
K	.281	2-15/16	4-1/4	J160211TN
L	.290	2-15/16	4-1/4	J160212TN
M	.295	3-1/16	4-3/8	J160213TN

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
N	.302	3-1/16	4-3/8	J160214TN
O	.316	3-3/16	4-1/2	J160215TN
P	.323	3-5/16	4-5/8	J160216TN
Q	.332	3-7/16	4-3/4	J160217TN
R	.339	3-7/16	4-3/4	J160218TN
S	.348	3-1/2	4-7/8	J160219TN
T	.358	3-1/2	4-7/8	J160220TN
U	.368	3-5/8	5	J160221TN
V	.377	3-5/8	5	J160222TN
W	.386	3-3/4	5-1/8	J160223TN
X	.397	3-3/4	5-1/8	J160224TN
Y	.404	3-7/8	5-1/4	J160225TN
Z	.413	3-7/8	5-1/4	J160226TN

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1	.2280	2-5/8	3-7/8	J160101TN
2	.2210	2-5/8	3-7/8	J160102TN
3	.2130	2-1/2	3-3/4	J160103TN
4	.2090	2-1/2	3-3/4	J160104TN
5	.2055	2-1/2	3-3/4	J160105TN
6	.2040	2-1/2	3-3/4	J160106TN
7	.2010	2-7/16	3-5/8	J160107TN
8	.1990	2-7/16	3-5/8	J160108TN
9	.1960	2-7/16	3-5/8	J160109TN
10	.1935	2-7/16	3-5/8	J160110TN
11	.1910	2-5/16	3-1/2	J160111TN
12	.1890	2-5/16	3-1/2	J160112TN
13	.1850	2-5/16	3-1/2	J160113TN
14	.1820	2-3/16	3-3/8	J160114TN
15	.1800	2-3/16	3-3/8	J160115TN
16	.1770	2-3/16	3-3/8	J160116TN
17	.1730	2-3/16	3-3/8	J160117TN
18	.1695	2-1/8	3-1/4	J160118TN
19	.1660	2-1/8	3-1/4	J160119TN
20	.1610	2-1/8	3-1/4	J160120TN
21	.1590	2-1/8	3-1/4	J160121TN
22	.1570	2	3-1/8	J160122TN
23	.1540	2	3-1/8	J160123TN
24	.1520	2	3-1/8	J160124TN
25	.1495	1-7/8	3	J160125TN
26	.1470	1-7/8	3	J160126TN
27	.1440	1-7/8	3	J160127TN
28	.1405	1-3/4	2-7/8	J160128TN
29	.1360	1-3/4	2-7/8	J160129TN
30	.1285	1-5/8	2-3/4	J160130TN

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
31	.1200	1-5/8	2-3/4	J160131TN
32	.1160	1-5/8	2-3/4	J160132TN
33	.1130	1-1/2	2-5/8	J160133TN
34	.1110	1-1/2	2-5/8	J160134TN
35	.1100	1-1/2	2-5/8	J160135TN
36	.1065	1-7/16	2-1/2	J160136TN
37	.1040	1-7/16	2-1/2	J160137TN
38	.1015	1-7/16	2-1/2	J160138TN
39	.0995	1-3/8	2-3/8	J160139TN
40	.0980	1-3/8	2-3/8	J160140TN
41	.0960	1-3/8	2-3/8	J160141TN
42	.0935	1-1/4	2-1/4	J160142TN
43	.0890	1-1/4	2-1/4	J160143TN
44	.0860	1-1/8	2-1/8	J160144TN
45	.0820	1-1/8	2-1/8	J160145TN
46	.0810	1-1/8	2-1/8	J160146TN
47	.0785	1	2	J160147TN
48	.0760	1	2	J160148TN
49	.0730	1	2	J160149TN
50	.0700	1	2	J160150TN
51	.0670	1	2	J160151TN
52	.0635	7/8	1-7/8	J160152TN
53	.0595	7/8	1-7/8	J160153TN
54	.0550	7/8	1-7/8	J160154TN
55	.0520	7/8	1-7/8	J160155TN
56	.0465	3/4	1-3/4	J160156TN
57	.0430	3/4	1-3/4	J160157TN
58	.0420	11/16	1-5/8	J160158TN
59	.0410	11/16	1-5/8	J160159TN
60	.0400	11/16	1-5/8	J160160TN

1 to 60, 12 per envelope

TiN Coated Jobber Drills

A

Heavy Duty Jobber Drills - Alfa USA

Super High-Speed Steel NAS 907, Type B

MADE IN
U. S. A.

**Jobber Length
135° Split Point
Black Oxide Or
Bright Finish**



Features:

- Ideal for portable or machine drilling in low-tensile strength alloy steels and for other applications.
- These drills meet all aircraft manufacturing standards and feature a heavy duty 135° split point for self-centering and quick penetration.
- Heavy duty web geometry provides added rigidity to resist tensional strain when drilling up to three times the drill diameter.
- Suitable for cotter pin hole drilling and cross hole drilling in heads of bolts.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				BLACK OXIDE	BRIGHT FINISH
1/16	.0625	7/8	1-7/8	S150101	S150101B
5/64	.0781	1	2	S150102	S150102B
3/32	.0938	1-1/4	2-1/4	S150103	S150103B
7/64	.1094	1-1/2	2-5/8	S150104	S150104B
1/8	.1250	1-5/8	2-3/4	S150105	S150105B
9/64	.1406	1-3/4	2-7/8	S150106	S150106B
5/32	.1562	2	3-1/8	S150107	S150107B
11/64	.1719	2-1/8	3-1/4	S150108	S150108B
3/16	.1875	2-5/16	3-1/2	S150109	S150109B
13/64	.2031	2-7/16	3-5/8	S150110	S150110B
7/32	.2188	2-1/2	3-3/4	S150111	S150111B
15/64	.2344	2-5/8	3-7/8	S150112	S150112B
1/4	.2500	2-3/4	4	S150113	S150113B
17/64	.2656	2-7/8	4-1/8	S150114	S150114B
9/32	.2812	2-15/16	4-1/4	S150115	S150115B
19/64	.2969	3-1/16	4-3/8	S150116	S150116B
5/16	.3125	3-3/16	4-1/2	S150117	S150117B
21/64	.3281	3-5/16	4-5/8	S150118	S150118B
11/32	.3438	3-7/16	4-3/4	S150119	S150119B
23/64	.3594	3-1/2	4-7/8	S150120	S150120B
3/8	.3750	3-5/8	5	S150121	S150121B
25/64	.3906	3-3/4	5-1/8	S150122	S150122B
13/32	.4062	3-7/8	5-1/4	S150123	S150123B
27/64	.4219	3-15/16	5-3/8	S150124	S150124B
7/16	.4375	4-1/16	5-1/2	S150125	S150125B
29/64	.4531	4-3/16	5-5/8	S150126	S150126B
15/32	.4688	4-5/16	5-3/4	S150127	S150127B
31/64	.4844	4-3/8	5-7/8	S150128	S150128B
1/2	.5000	4-1/2	6	S150129	S150129B

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope

Sizes 1/16" to 1/2" are available carded.
See price list for details.



SETS

QTY.	SIZES	ALFA USA	
		STOCK #	
13 Pcs.	1/16" - 1/4" by 64ths	S150194	S150194B
15 Pcs.	1/16" - 1/2" by 32nds	S150193	S150193B
21 Pcs.	1/16" - 3/8" by 64ths	S150192	S150192B
29 Pcs.	1/16" - 1/2" by 64ths	S150190	S150190B
26 Pcs.	Letter A - Z	S150197	S150197B
*60 Pcs.	Wire Gage #1 - #60	S150191	S150191B
*115 Pcs.	1/16" - 1/2" by 64ths, A - Z, Wire Gage #1 - #60	S150199	S150199B
29 Pcs.	Drill Mug 1/16" - 1/2" by 64ths	S150190DM	S150190BDM

* #53 - #60 drills do not have a split point

Reduced Shank Drills on Page A41

Heavy Duty Jobber Drills - Alfa USA - Cont.

Super High-Speed Steel NAS 907, Type B

MADE IN
U. S. A.

**Jobber Length
135° Split Point
Black Oxide Or
Bright Finish**



SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				STOCK #	BRIGHT FINISH
A	.234	2-5/8	3-7/8	S160201	S160201B
B	.238	2-3/4	4	S160202	S160202B
C	.242	2-3/4	4	S160203	S160203B
D	.246	2-3/4	4	S160204	S160204B
E	.250	2-3/4	4	S160205	S160205B
F	.257	2-7/8	4-1/8	S160206	S160206B
G	.261	2-7/8	4-1/8	S160207	S160207B
H	.266	2-7/8	4-1/8	S160208	S160208B
I	.272	2-7/8	4-1/8	S160209	S160209B
J	.277	2-7/8	4-1/8	S160210	S160210B
K	.281	2-15/16	4-1/4	S160211	S160211B
L	.290	2-15/16	4-1/4	S160212	S160212B
M	.295	3-1/16	4-3/8	S160213	S160213B

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				STOCK #	BRIGHT FINISH
N	.302	3-1/16	4-3/8	S160214	S160214B
O	.316	3-3/16	4-1/2	S160215	S160215B
P	.323	3-5/16	4-5/8	S160216	S160216B
Q	.332	3-7/16	4-3/4	S160217	S160217B
R	.339	3-7/16	4-3/4	S160218	S160218B
S	.348	3-1/2	4-7/8	S160219	S160219B
T	.358	3-1/2	4-7/8	S160220	S160220B
U	.368	3-5/8	5	S160221	S160221B
V	.377	3-5/8	5	S160222	S160222B
W	.386	3-3/4	5-1/8	S160223	S160223B
X	.397	3-3/4	5-1/8	S160224	S160224B
Y	.404	3-7/8	5-1/4	S160225	S160225B
Z	.413	3-7/8	5-1/4	S160226	S160226B

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				STOCK #	BRIGHT FINISH
1	.2280	2-5/8	3-7/8	S160101	S160101B
2	.2210	2-5/8	3-7/8	S160102	S160102B
3	.2130	2-1/2	3-3/4	S160103	S160103B
4	.2090	2-1/2	3-3/4	S160104	S160104B
5	.2055	2-1/2	3-3/4	S160105	S160105B
6	.2040	2-1/2	3-3/4	S160106	S160106B
7	.2010	2-7/16	3-5/8	S160107	S160107B
8	.1990	2-7/16	3-5/8	S160108	S160108B
9	.1960	2-7/16	3-5/8	S160109	S160109B
10	.1935	2-7/16	3-5/8	S160110	S160110B
11	.1910	2-5/16	3-1/2	S160111	S160111B
12	.1890	2-5/16	3-1/2	S160112	S160112B
13	.1850	2-5/16	3-1/2	S160113	S160113B
14	.1820	2-3/16	3-3/8	S160114	S160114B
15	.1800	2-3/16	3-3/8	S160115	S160115B
16	.1770	2-3/16	3-3/8	S160116	S160116B
17	.1730	2-3/16	3-3/8	S160117	S160117B
18	.1695	2-1/8	3-1/4	S160118	S160118B
19	.1660	2-1/8	3-1/4	S160119	S160119B
20	.1610	2-1/8	3-1/4	S160120	S160120B
21	.1590	2-1/8	3-1/4	S160121	S160121B
22	.1570	2	3-1/8	S160122	S160122B
23	.1540	2	3-1/8	S160123	S160123B
24	.1520	2	3-1/8	S160124	S160124B
25	.1495	1-7/8	3	S160125	S160125B
26	.1470	1-7/8	3	S160126	S160126B
27	.1440	1-7/8	3	S160127	S160127B
28	.1405	1-3/4	2-7/8	S160128	S160128B
29	.1360	1-3/4	2-7/8	S160129	S160129B
30	.1285	1-5/8	2-3/4	S160130	S160130B

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				STOCK #	BRIGHT FINISH
31	.1200	1-5/8	2-3/4	S160131	S160131B
32	.1160	1-5/8	2-3/4	S160132	S160132B
33	.1130	1-1/2	2-5/8	S160133	S160133B
34	.1110	1-1/2	2-5/8	S160134	S160134B
35	.1100	1-1/2	2-5/8	S160135	S160135B
36	.1065	1-7/16	2-1/2	S160136	S160136B
37	.1040	1-7/16	2-1/2	S160137	S160137B
38	.1015	1-7/16	2-1/2	S160138	S160138B
39	.0995	1-3/8	2-3/8	S160139	S160139B
40	.0980	1-3/8	2-3/8	S160140	S160140B
41	.0960	1-3/8	2-3/8	S160141	S160141B
42	.0935	1-1/4	2-1/4	S160142	S160142B
43	.0890	1-1/4	2-1/4	S160143	S160143B
44	.0860	1-1/8	2-1/8	S160144	S160144B
45	.0820	1-1/8	2-1/8	S160145	S160145B
46	.0810	1-1/8	2-1/8	S160146	S160146B
47	.0785	1	2	S160147	S160147B
48	.0760	1	2	S160148	S160148B
49	.0730	1	2	S160149	S160149B
50	.0700	1	2	S160150	S160150B
51	.0670	1	2	S160151	S160151B
52	.0635	7/8	1-7/8	S160152	S160152B
*53	.0595	7/8	1-7/8	S160153	S160153B
*54	.0550	7/8	1-7/8	S160154	S160154B
*55	.0520	7/8	1-7/8	S160155	S160155B
*56	.0465	3/4	1-3/4	S160156	S160156B
*57	.0430	3/4	1-3/4	S160157	S160157B
*58	.0420	11/16	1-5/8	S160158	S160158B
*59	.0410	11/16	1-5/8	S160159	S160159B
*60	.0400	11/16	1-5/8	S160160	S160160B

1 to 60, 12 per envelope

* #53 - #60 drills do not have a split point

M2 High-Speed Steel
NAS 907, Type B
Jobber Length
135° Split Point
Black Oxide
**FRACTIONAL**

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
1/16	.0625	7/8	1-7/8	S250101
5/64	.0781	1	2	S250102
3/32	.0938	1-1/4	2-1/4	S250103
7/64	.1094	1-1/2	2-5/8	S250104
1/8	.1250	1-5/8	2-3/4	S250105
9/64	.1406	1-3/4	2-7/8	S250106
5/32	.1562	2	3-1/8	S250107
11/64	.1719	2-1/8	3-1/4	S250108
3/16	.1875	2-5/16	3-1/2	S250109
13/64	.2031	2-7/16	3-5/8	S250110
7/32	.2188	2-1/2	3-3/4	S250111
15/64	.2344	2-5/8	3-7/8	S250112
1/4	.2500	2-3/4	4	S250113
17/64	.2656	2-7/8	4-1/8	S250114
9/32	.2812	2-15/16	4-1/4	S250115
19/64	.2969	3-1/16	4-3/8	S250116
5/16	.3125	3-3/16	4-1/2	S250117
21/64	.3281	3-5/16	4-5/8	S250118
11/32	.3438	3-7/16	4-3/4	S250119
23/64	.3594	3-1/2	4-7/8	S250120
3/8	.3750	3-5/8	5	S250121
25/64	.3906	3-3/4	5-1/8	S250122
13/32	.4062	3-7/8	5-1/4	S250123
27/64	.4219	3-15/16	5-3/8	S250124
7/16	.4375	4-1/16	5-1/2	S250125
29/64	.4531	4-3/16	5-5/8	S250126
15/32	.4688	4-5/16	5-3/4	S250127
31/64	.4844	4-3/8	5-7/8	S250128
1/2	.5000	4-1/2	6	S250129

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope


 Sizes 1/16" to 1/2" are available carded.
 See price list for details.

- Ideal for portable or machine drilling in low-tensile strength alloy steels and for other applications.
- These drills meet all aircraft manufacturing standards and feature a heavy duty 135° split point for self-centering and quick penetration.
- Heavy duty web geometry provides added rigidity to resist tensional strain when drilling up to three times the drill diameter.

**SETS**

QTY.	SIZES	ECO PRO
		STOCK #
13 Pcs.	1/16" - 1/4" by 64ths	S250194
15 Pcs.	1/16" - 1/2" by 32nds	S250193
21 Pcs.	1/16" - 3/8" by 64ths	S250192
29 Pcs.	1/16" - 1/2" by 64ths	S250190
26 Pcs.	Letter A - Z	S250197
*60 Pcs.	Wire Gage #1 - #60	S250191
*115 Pcs.	1/16" - 1/2" by 64ths, A - Z, Wire Gage #1 - #60	S250199
29 Pcs.	Drill Mug 1/16" - 1/2" by 64ths	S250190DM

* #53 - #60 drills do not have a split point

ECO PRO® Heavy Duty Jobber Drills - Cont.
**M2 High-Speed Steel
NAS 907, Type B**

**Jobber Length
135° Split Point
Black Oxide**


LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
A	.234	2-5/8	3-7/8	S260201
B	.238	2-3/4	4	S260202
C	.242	2-3/4	4	S260203
D	.246	2-3/4	4	S260204
E	.250	2-3/4	4	S260205
F	.257	2-7/8	4-1/8	S260206
G	.261	2-7/8	4-1/8	S260207
H	.266	2-7/8	4-1/8	S260208
I	.272	2-7/8	4-1/8	S260209
J	.277	2-7/8	4-1/8	S260210
K	.281	2-15/16	4-1/4	S260211
L	.290	2-15/16	4-1/4	S260212
M	.295	3-1/16	4-3/8	S260213

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
N	.302	3-1/16	4-3/8	S260214
O	.316	3-3/16	4-1/2	S260215
P	.323	3-5/16	4-5/8	S260216
Q	.332	3-7/16	4-3/4	S260217
R	.339	3-7/16	4-3/4	S260218
S	.348	3-1/2	4-7/8	S260219
T	.358	3-1/2	4-7/8	S260220
U	.368	3-5/8	5	S260221
V	.377	3-5/8	5	S260222
W	.386	3-3/4	5-1/8	S260223
X	.397	3-3/4	5-1/8	S260224
Y	.404	3-7/8	5-1/4	S260225
Z	.413	3-7/8	5-1/4	S260226

A to N, 12 per envelope, O to Z, 6 per envelope

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
1	.2280	2-5/8	3-7/8	S260101
2	.2210	2-5/8	3-7/8	S260102
3	.2130	2-1/2	3-3/4	S260103
4	.2090	2-1/2	3-3/4	S260104
5	.2055	2-1/2	3-3/4	S260105
6	.2040	2-1/2	3-3/4	S260106
7	.2010	2-7/16	3-5/8	S260107
8	.1990	2-7/16	3-5/8	S260108
9	.1960	2-7/16	3-5/8	S260109
10	.1935	2-7/16	3-5/8	S260110
11	.1910	2-5/16	3-1/2	S260111
12	.1890	2-5/16	3-1/2	S260112
13	.1850	2-5/16	3-1/2	S260113
14	.1820	2-3/16	3-3/8	S260114
15	.1800	2-3/16	3-3/8	S260115
16	.1770	2-3/16	3-3/8	S260116
17	.1730	2-3/16	3-3/8	S260117
18	.1695	2-1/8	3-1/4	S260118
19	.1660	2-1/8	3-1/4	S260119
20	.1610	2-1/8	3-1/4	S260120
21	.1590	2-1/8	3-1/4	S260121
22	.1570	2	3-1/8	S260122
23	.1540	2	3-1/8	S260123
24	.1520	2	3-1/8	S260124
25	.1495	1-7/8	3	S260125
26	.1470	1-7/8	3	S260126

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
27	.1440	1-7/8	3	S260127
28	.1405	1-3/4	2-7/8	S260128
29	.1360	1-3/4	2-7/8	S260129
30	.1285	1-5/8	2-3/4	S260130
31	.1200	1-5/8	2-3/4	S260131
32	.1160	1-5/8	2-3/4	S260132
33	.1130	1-1/2	2-5/8	S260133
34	.1110	1-1/2	2-5/8	S260134
35	.1100	1-1/2	2-5/8	S260135
36	.1065	1-7/16	2-1/2	S260136
37	.1040	1-7/16	2-1/2	S260137
38	.1015	1-7/16	2-1/2	S260138
39	.0995	1-3/8	2-3/8	S260139
40	.0980	1-3/8	2-3/8	S260140
41	.0960	1-3/8	2-3/8	S260141
42	.0935	1-1/4	2-1/4	S260142
43	.0890	1-1/4	2-1/4	S260143
44	.0860	1-1/8	2-1/8	S260144
45	.0820	1-1/8	2-1/8	S260145
46	.0810	1-1/8	2-1/8	S260146
47	.0785	1	2	S260147
48	.0760	1	2	S260148
49	.0730	1	2	S260149
50	.0700	1	2	S260150
51	.0670	1	2	S260151
52	.0635	7/8	1-7/8	S260152

1 to 60, 12 per envelope

TiN Coated Jobber Drills - Heavy Duty

Super High-Speed Steel

**Jobber Length
135° Split Point
Titanium Nitride Coated
Gold Finish**



MADE IN
U. S. A.

Features:

- Titanium Nitride coating (TiN) is a gold colored ceramic coating applied by physical vapor deposit (PVD), ensuring high hardness with low friction.
- The super hard surface with high lubricity increases tool life.

- Ideal for production work or repetitive drilling in hard metals, hardened stainless and other difficult to drill materials.
- 135° self-centering split point reduces thrust.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1/16	.0625	7/8	1-7/8	S150101TN
5/64	.0781	1	2	S150102TN
3/32	.0938	1-1/4	2-1/4	S150103TN
7/64	.1094	1-1/2	2-5/8	S150104TN
1/8	.1250	1-5/8	2-3/4	S150105TN
9/64	.1406	1-3/4	2-7/8	S150106TN
5/32	.1562	2	3-1/8	S150107TN
11/64	.1719	2-1/8	3-1/4	S150108TN
3/16	.1875	2-5/16	3-1/2	S150109TN
13/64	.2031	2-7/16	3-5/8	S150110TN
7/32	.2188	2-1/2	3-3/4	S150111TN
15/64	.2344	2-5/8	3-7/8	S150112TN
1/4	.2500	2-3/4	4	S150113TN
17/64	.2656	2-7/8	4-1/8	S150114TN
9/32	.2812	2-15/16	4-1/4	S150115TN
19/64	.2969	3-1/16	4-3/8	S150116TN
5/16	.3125	3-3/16	4-1/2	S150117TN
21/64	.3281	3-5/16	4-5/8	S150118TN
11/32	.3438	3-7/16	4-3/4	S150119TN
23/64	.3594	3-1/2	4-7/8	S150120TN
3/8	.3750	3-5/8	5	S150121TN
25/64	.3906	3-3/4	5-1/8	S150122TN
13/32	.4062	3-7/8	5-1/4	S150123TN
27/64	.4219	3-15/16	5-3/8	S150124TN
7/16	.4375	4-1/16	5-1/2	S150125TN
29/64	.4531	4-3/16	5-5/8	S150126TN
15/32	.4688	4-5/16	5-3/4	S150127TN
31/64	.4844	4-3/8	5-7/8	S150128TN
1/2	.5000	4-1/2	6	S150129TN

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope

 Sizes 1/16" to 1/2" are available carded.
See price list for details.



SETS

QTY.	SIZES	ALFA USA
		STOCK #
13 Pc.	1/16" - 1/4" by 64ths	S150194TN
15 Pc.	1/16" - 1/2" by 32nds	S150193TN
21 Pc.	1/16" - 3/8" by 64ths	S150192TN
29 Pc.	1/16" - 1/2" by 64ths	S150190TN
26 Pc.	Letter A - Z	S150197TN
*60 Pc.	Wire Gage #1 - #60	S150191TN
*115 Pc.	1/16" - 1/2" by 64ths, A - Z, Wire Gage #1 - #60	S150199TN
29 Pc.	Drill Mug 1/16" - 1/2" by 64ths	S150190TNDM

* #53 - #60 drills do not have a split point

TiN Coated Jobber Drills - Heavy Duty - Cont.

Super High-Speed Steel

**Jobber Length
135° Split Point
Titanium Nitride Coated
Gold Finish**



MADE IN
U. S. A.

NEW!

LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
A	.234	2-5/8	3-7/8	S160201TN
B	.238	2-3/4	4	S160202TN
C	.242	2-3/4	4	S160203TN
D	.246	2-3/4	4	S160204TN
E	.250	2-3/4	4	S160205TN
F	.257	2-7/8	4-1/8	S160206TN
G	.261	2-7/8	4-1/8	S160207TN
H	.266	2-7/8	4-1/8	S160208TN
I	.272	2-7/8	4-1/8	S160209TN
J	.277	2-7/8	4-1/8	S160210TN
K	.281	2-15/16	4-1/4	S160211TN
L	.290	2-15/16	4-1/4	S160212TN
M	.295	3-1/16	4-3/8	S160213TN

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
N	.302	3-1/16	4-3/8	S160214TN
O	.316	3-3/16	4-1/2	S160215TN
P	.323	3-5/16	4-5/8	S160216TN
Q	.332	3-7/16	4-3/4	S160217TN
R	.339	3-7/16	4-3/4	S160218TN
S	.348	3-1/2	4-7/8	S160219TN
T	.358	3-1/2	4-7/8	S160220TN
U	.368	3-5/8	5	S160221TN
V	.377	3-5/8	5	S160222TN
W	.386	3-3/4	5-1/8	S160223TN
X	.397	3-3/4	5-1/8	S160224TN
Y	.404	3-7/8	5-1/4	S160225TN
Z	.413	3-7/8	5-1/4	S160226TN

A to N, 12 per envelope, O to Z, 6 per envelope

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1	.2280	2-5/8	3-7/8	S160101TN
2	.2210	2-5/8	3-7/8	S160102TN
3	.2130	2-1/2	3-3/4	S160103TN
4	.2090	2-1/2	3-3/4	S160104TN
5	.2055	2-1/2	3-3/4	S160105TN
6	.2040	2-1/2	3-3/4	S160106TN
7	.2010	2-7/16	3-5/8	S160107TN
8	.1990	2-7/16	3-5/8	S160108TN
9	.1960	2-7/16	3-5/8	S160109TN
10	.1935	2-7/16	3-5/8	S160110TN
11	.1910	2-5/16	3-1/2	S160111TN
12	.1890	2-5/16	3-1/2	S160112TN
13	.1850	2-5/16	3-1/2	S160113TN
14	.1820	2-3/16	3-3/8	S160114TN
15	.1800	2-3/16	3-3/8	S160115TN
16	.1770	2-3/16	3-3/8	S160116TN
17	.1730	2-3/16	3-3/8	S160117TN
18	.1695	2-1/8	3-1/4	S160118TN
19	.1660	2-1/8	3-1/4	S160119TN
20	.1610	2-1/8	3-1/4	S160120TN
21	.1590	2-1/8	3-1/4	S160121TN
22	.1570	2	3-1/8	S160122TN
23	.1540	2	3-1/8	S160123TN
24	.1520	2	3-1/8	S160124TN
25	.1495	1-7/8	3	S160125TN
26	.1470	1-7/8	3	S160126TN
27	.1440	1-7/8	3	S160127TN
28	.1405	1-3/4	2-7/8	S160128TN
29	.1360	1-3/4	2-7/8	S160129TN
30	.1285	1-5/8	2-3/4	S160130TN

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
31	.1200	1-5/8	2-3/4	S160131TN
32	.1160	1-5/8	2-3/4	S160132TN
33	.1130	1-1/2	2-5/8	S160133TN
34	.1110	1-1/2	2-5/8	S160134TN
35	.1100	1-1/2	2-5/8	S160135TN
36	.1065	1-7/16	2-1/2	S160136TN
37	.1040	1-7/16	2-1/2	S160137TN
38	.1015	1-7/16	2-1/2	S160138TN
39	.0995	1-3/8	2-3/8	S160139TN
40	.0980	1-3/8	2-3/8	S160140TN
41	.0960	1-3/8	2-3/8	S160141TN
42	.0935	1-1/4	2-1/4	S160142TN
43	.0890	1-1/4	2-1/4	S160143TN
44	.0860	1-1/8	2-1/8	S160144TN
45	.0820	1-1/8	2-1/8	S160145TN
46	.0810	1-1/8	2-1/8	S160146TN
47	.0785	1	2	S160147TN
48	.0760	1	2	S160148TN
49	.0730	1	2	S160149TN
50	.0700	1	2	S160150TN
51	.0670	1	2	S160151TN
52	.0635	7/8	1-7/8	S160152TN
*53	.0595	7/8	1-7/8	S160153TN
*54	.0550	7/8	1-7/8	S160154TN
*55	.0520	7/8	1-7/8	S160155TN
*56	.0465	3/4	1-3/4	S160156TN
*57	.0430	3/4	1-3/4	S160157TN
*58	.0420	11/16	1-5/8	S160158TN
*59	.0410	11/16	1-5/8	S160159TN
*60	.0400	11/16	1-5/8	S160160TN

1 to 60, 12 per envelope

* #53 - #60 drills do not have a split point

TiN Tipped Jobber Drills - Heavy Duty

Super High-Speed Steel

Jobber Length

135° Split Point

Titanium Nitride Coated Tips



Features:

- Titanium Nitride (TiN) coated tip creates high surface hardness to the "working" surface of the drill providing lubricity and improved tool life.

- Reduces friction and improves chip flow at higher speeds and feeds, creating a superior hole finish.
- Ideal for production work or repetitive drilling in a wide range of materials including steel, stainless steel, titanium, nickel & aluminum.

FRACTIONAL

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
*1/16	.0625	7/8	1-7/8	S40101TT
*5/64	.0781	1	2	S40102TT
*3/32	.0938	1-1/4	2-1/4	S40103TT
*7/64	.1094	1-1/2	2-5/8	S40104TT
1/8	.1250	1-5/8	2-3/4	S40105TT
9/64	.1406	1-3/4	2-7/8	S40106TT
5/32	.1563	2	3-1/8	S40107TT
11/64	.1719	2-1/8	3-1/4	S40108TT
3/16	.1875	2-5/16	3-1/2	S40109TT
13/64	.2031	2-7/16	3-5/8	S40110TT
7/32	.2188	2-1/2	3-3/4	S40111TT
15/64	.2344	2-5/8	3-7/8	S40112TT
1/4	.2500	2-3/4	4	S40113TT
17/64	.2656	2-7/8	4-1/8	S40114TT
9/32	.2813	2-15/16	4-1/4	S40115TT

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope

* 1/16" - 7/64 drills do not have a split point

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
1	.2280	2-5/8	3-7/8	S40201TT
2	.2210	2-5/8	3-7/8	S40202TT
3	.2130	2-1/2	3-3/4	S40203TT
4	.2090	2-1/2	3-3/4	S40204TT
5	.2055	2-1/2	3-3/4	S40205TT
6	.2040	2-1/2	3-3/4	S40206TT
7	.2010	2-7/16	3-5/8	S40207TT
8	.1990	2-7/16	3-5/8	S40208TT
9	.1960	2-7/16	3-5/8	S40209TT
10	.1935	2-7/16	3-5/8	S40210TT
11	.1910	2-5/16	3-1/2	S40211TT
12	.1890	2-5/16	3-1/2	S40212TT
13	.1850	2-5/16	3-1/2	S40213TT
14	.1820	2-3/16	3-3/8	S40214TT
15	.1800	2-3/16	3-3/8	S40215TT
16	.1770	2-3/16	3-3/8	S40216TT
17	.1730	2-3/16	3-3/8	S40217TT
18	.1695	2-1/8	3-1/4	S40218TT
19	.1660	2-1/8	3-1/4	S40219TT
20	.1610	2-1/8	3-1/4	S40220TT
21	.1160	1-5/8	2-3/4	S40221TT
22	.1590	2-1/8	3-1/4	S40222TT
23	.1570	2	3-1/8	S40223TT
24	.1540	2	3-1/8	S40224TT
25	.1520	2	3-1/8	S40225TT
26	.1495	1-7/8	3	S40226TT
27	.1470	1-7/8	3	S40227TT
28	.1440	1-7/8	3	S40228TT
29	.1405	1-3/4	2-7/8	S40229TT
30	.1360	1-3/4	2-7/8	S40230TT

1 to 60, 12 per envelope

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO
				STOCK #
31	.1285	1-5/8	2-3/4	S40231TT
*32	.1200	1-5/8	2-3/4	S40232TT
*33	.1130	1-1/2	2-5/8	S40233TT
*34	.1110	1-1/2	2-5/8	S40234TT
*35	.1100	1-1/2	2-5/8	S40235TT
*36	.1065	1-7/16	2-1/2	S40236TT
*37	.1040	1-7/16	2-1/2	S40237TT
*38	.1015	1-7/16	2-1/2	S40238TT
*39	.0995	1-3/8	2-3/8	S40239TT
*40	.0980	1-3/8	2-3/8	S40240TT
*41	.0960	1-3/8	2-3/8	S40241TT
*42	.0935	1-1/4	2-1/4	S40242TT
*43	.0890	1-1/4	2-1/4	S40243TT
*44	.0860	1-1/8	2-1/8	S40244TT
*45	.0820	1-1/8	2-1/8	S40245TT
*46	.0810	1-1/8	2-1/8	S40246TT
*47	.0785	1	2	S40247TT
*48	.0760	1	2	S40248TT
*49	.0730	1	2	S40249TT
*50	.0700	1	2	S40250TT
*51	.0670	1	2	S40251TT
*52	.0635	7/8	1-7/8	S40252TT
*53	.0595	7/8	1-7/8	S40253TT
*54	.0550	7/8	1-7/8	S40254TT
*55	.0520	7/8	1-7/8	S40255TT
*56	.0465	3/4	1-3/4	S40256TT
*57	.0430	3/4	1-3/4	S40257TT
*58	.0420	11/16	1-5/8	S40258TT
*59	.0410	11/16	1-5/8	S40259TT
*60	.0400	11/16	1-5/8	S40260TT

* #32 - #60 drills do not have a split point

SETS

QTY.	SIZES	ECO PRO
		STOCK #
13 Pc.	1/16" - 1/4" by 64ths	S40194TT
15 Pc.	1/16" - 1/2" by 32nds	S40193TT
21 Pc.	1/16" - 3/8" by 64ths	S40192TT
29 Pc.	1/16" - 1/2" by 64ths	S40190TT
60 Pc.	#1 - #60	S40191TT
29 Pc.	Drill Mug 1/16" - 1/2" by 64ths	S40190TTDM



• ECO PRO drills are made outside the United States to ALFA TOOLS' specifications.



3-Flatted Shank Jobber Drills - Heavy Duty

**High-Speed Steel
Right Hand Cut**

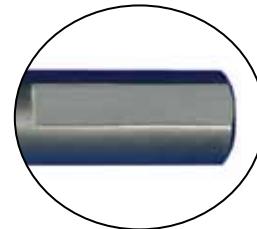
MADE IN
U. S. A.

**3-Flat Shank Design
(On 3/16" and Larger)
135° Split Point
Black Oxide Finish**



Features:

- 3 flats on shank make drills suitable for positive chucking in keyless and regular chucks.
- 135° split point enables instantaneous penetration.
- Drills specially designed for Contractor / MRO use of cordless and handheld machines in difficult working conditions.



FRACTIONAL

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
*1/16	.0625	7/8	1-7/8	SFL50101
*5/64	.0781	1	2	SFL50102
*3/32	.0938	1-1/4	2-1/4	SFL50103
*7/64	.1094	1-1/2	2-5/8	SFL50104
*1/8	.1250	1-5/8	2-3/4	SFL50105
*9/64	.1406	1-3/4	2-7/8	SFL50106
*5/32	.1562	2	3-1/8	SFL50107
*11/64	.1719	2-1/8	3-1/4	SFL50108
3/16	.1875	2-5/16	3-1/2	SFL50109
13/64	.2031	2-7/16	3-5/8	SFL50110
7/32	.2188	2-1/2	3-3/4	SFL50111
15/64	.2344	2-5/8	3-7/8	SFL50112
1/4	.2500	2-3/4	4	SFL50113
17/64	.2656	2-7/8	4-1/8	SFL50114
9/32	.2812	2-15/16	4-1/4	SFL50115
19/64	.2969	3-1/16	4-3/8	SFL50116
5/16	.3125	3-3/16	4-1/2	SFL50117
21/64	.3281	3-5/16	4-5/8	SFL50118
11/32	.3438	3-7/16	4-3/4	SFL50119
23/64	.3594	3-1/2	4-7/8	SFL50120
3/8	.3750	3-5/8	5	SFL50121
25/64	.3906	3-3/4	5-1/8	SFL50122
13/32	.4062	3-7/8	5-1/4	SFL50123
27/64	.4219	3-15/16	5-3/8	SFL50124
7/16	.4375	4-1/16	5-1/2	SFL50125
29/64	.4531	4-3/16	5-5/8	SFL50126
15/32	.4688	4-5/16	5-3/4	SFL50127
31/64	.4844	4-3/8	5-7/8	SFL50128
1/2	.5000	4-1/2	6	SFL50129

1/16" to 5/16", 12 per envelope,
21/64" to 1/2", 6 per envelope

*sizes do not have flats on shank



SETS

QTY.	SIZES	ALFA USA
		STOCK #
13 Pc.	1/16" - 1/4" by 64ths	SFL50194
15 Pc.	1/16" - 1/2" by 32nds	SFL50193
21 Pc.	1/16" - 3/8" by 64ths	SFL50192
29 Pc.	1/16" - 1/2" by 64ths	SFL50190
29 Pc.	Drill Mug 1/16" - 1/2" by 64ths	SFL50190DM

Cobalt M42 Jobber Drills

Heavy Duty
NAS 907, Type J Standards

MADE IN
U. S. A.



Jobber Length
135° Split Point
Straw Gold Finish

Features:

- Manufactured from heat-resistant cobalt M42 high-speed steel, these drills maintain their cutting ability at temperatures exceeding 1000°F.
- Their heat-resistant and heavy duty design enables use in the harder, high-tensile strength steels like stainless steel, titanium, armor plate, inconel and other difficult-to-machine materials.
- 135° self-centering split point reduces thrust.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
*1/64	.0156	3/16	3/4	CO50097
*1/32	.0312	1/2	1-3/8	CO50098
*3/64	.0469	3/4	1-3/4	CO50099
1/16	.0625	7/8	1-7/8	CO50101
5/64	.0781	1	2	CO50102
3/32	.0938	1-1/4	2-1/4	CO50103
7/64	.1094	1-1/2	2-5/8	CO50104
1/8	.1250	1-5/8	2-3/4	CO50105
9/64	.1406	1-3/4	2-7/8	CO50106
5/32	.1562	2	3-1/8	CO50107
11/64	.1719	2-1/8	3-1/4	CO50108
3/16	.1875	2-5/16	3-1/2	CO50109
13/64	.2031	2-7/16	3-5/8	CO50110
7/32	.2188	2-1/2	3-3/4	CO50111
15/64	.2344	2-5/8	3-7/8	CO50112
1/4	.2500	2-3/4	4	CO50113
17/64	.2656	2-7/8	4-1/8	CO50114
9/32	.2812	2-15/16	4-1/4	CO50115
19/64	.2969	3-1/16	4-3/8	CO50116
5/16	.3125	3-3/16	4-1/2	CO50117
21/64	.3281	3-5/16	4-5/8	CO50118
11/32	.3438	3-7/16	4-3/4	CO50119
23/64	.3594	3-1/2	4-7/8	CO50120
3/8	.3750	3-5/8	5	CO50121
25/64	.3906	3-3/4	5-1/8	CO50122
13/32	.4062	3-7/8	5-1/4	CO50123
27/64	.4219	3-15/16	5-3/8	CO50124
7/16	.4375	4-1/16	5-1/2	CO50125
29/64	.4531	4-3/16	5-5/8	CO50126
15/32	.4688	4-5/16	5-3/4	CO50127
31/64	.4844	4-3/8	5-7/8	CO50128
1/2	.5000	4-1/2	6	CO50129

Jobber Drills over 1/2" diameter have straight cylindrical shanks.
For 1/2" Reduced Shank Drills, see Silver & Deming drills on page A44.

33/64	.5156	4-13/16	6-5/8	CO50130
17/32	.5312	4-13/16	6-5/8	CO50131
35/64	.5469	4-13/16	6-5/8	CO50132
9/16	.5625	4-13/16	6-5/8	CO50133
37/64	.5781	4-13/16	6-5/8	CO50134
19/32	.5938	5-3/16	7-1/8	CO50135
39/64	.6094	5-3/16	7-1/8	CO50136
5/8	.6250	5-3/16	7-1/8	CO50137
41/64	.6406	5-3/16	7-1/8	CO50138
21/32	.6562	5-3/16	7-1/8	CO50139
43/64	.6719	5-5/8	7-5/8	CO50140
11/16	.6875	5-5/8	7-5/8	CO50141

1/64" to 5/16", 12 per envelope
21/64" to 1/2", 6 per envelope
33/64" and above, 1 per pack

*Smaller sizes than 1/16" have 135° points, not split.



Sizes 1/16" to 1/2" are available carded.
See price list for details.

LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
A	.234	2-5/8	3-7/8	CO60201
B	.238	2-3/4	4	CO60202
C	.242	2-3/4	4	CO60203
D	.246	2-3/4	4	CO60204
E	.250	2-3/4	4	CO60205
F	.257	2-7/8	4-1/8	CO60206
G	.261	2-7/8	4-1/8	CO60207
H	.266	2-7/8	4-1/8	CO60208
I	.272	2-7/8	4-1/8	CO60209
J	.277	2-7/8	4-1/8	CO60210
K	.281	2-15/16	4-1/4	CO60211
L	.290	2-15/16	4-1/4	CO60212
M	.295	3-1/16	4-3/8	CO60213
N	.302	3-1/16	4-3/8	CO60214
O	.316	3-3/16	4-1/2	CO60215
P	.323	3-5/16	4-5/8	CO60216
Q	.332	3-7/16	4-3/4	CO60217
R	.339	3-7/16	4-3/4	CO60218
S	.348	3-1/2	4-7/8	CO60219
T	.358	3-1/2	4-7/8	CO60220
U	.368	3-5/8	5	CO60221
V	.377	3-5/8	5	CO60222
W	.386	3-3/4	5-1/8	CO60223
X	.397	3-3/4	5-1/8	CO60224
Y	.404	3-7/8	5-1/4	CO60225
Z	.413	3-7/8	5-1/4	CO60226

A to N, 12 per envelope, O to Z, 6 per envelope



SETS

QTY.	SIZES	ALFA USA
		STOCK #
13 Pcs.	1/16" - 1/4" by 64ths	CO50194
15 Pcs.	1/16" - 1/2" by 32nds	CO50193
19 Pcs.	1.0 mm - 10.0 mm by .5 mm	COM50198A
21 Pcs.	1/16" - 3/8" by 64ths	CO50192
25 Pcs.	1.0 mm - 13.0 mm by .5 mm	COM50198
29 Pcs.	1/16" - 1/2" by 64ths	CO50190
26 Pcs.	Letter A - Z	CO50197
60 Pcs.	Wire Gage #1 - #60	CO50191
115 Pcs.	1/16" - 1/2" by 64ths, A - Z, Wire Gage #1 - #60	CO50199
29 Pcs.	Drill Mug 1/16" - 1/2" by 64ths	CO50190DM

Cobalt M42 Jobber Drills - Cont.

Heavy Duty
NAS 907, Type J Standards

MADE IN
U. S. A.

Jobber Length
135° Split Point
Straw Gold Finish



WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1	.2280	2-5/8	3-7/8	CO60101
2	.2210	2-5/8	3-7/8	CO60102
3	.2130	2-1/2	3-3/4	CO60103
4	.2090	2-1/2	3-3/4	CO60104
5	.2055	2-1/2	3-3/4	CO60105
6	.2040	2-1/2	3-3/4	CO60106
7	.2010	2-7/16	3-5/8	CO60107
8	.1990	2-7/16	3-5/8	CO60108
9	.1960	2-7/16	3-5/8	CO60109
10	.1935	2-7/16	3-5/8	CO60110
11	.1910	2-5/16	3-1/2	CO60111
12	.1890	2-5/16	3-1/2	CO60112
13	.1850	2-5/16	3-1/2	CO60113
14	.1820	2-3/16	3-3/8	CO60114
15	.1800	2-3/16	3-3/8	CO60115
16	.1770	2-3/16	3-3/8	CO60116
17	.1730	2-3/16	3-3/8	CO60117
18	.1695	2-1/8	3-1/4	CO60118
19	.1660	2-1/8	3-1/4	CO60119
20	.1610	2-1/8	3-1/4	CO60120
21	.1590	2-1/8	3-1/4	CO60121
22	.1570	2	3-1/8	CO60122
23	.1540	2	3-1/8	CO60123
24	.1520	2	3-1/8	CO60124
25	.1495	1-7/8	3	CO60125
26	.1470	1-7/8	3	CO60126
27	.1440	1-7/8	3	CO60127
28	.1405	1-3/4	2-7/8	CO60128
29	.1360	1-3/4	2-7/8	CO60129
30	.1285	1-5/8	2-3/4	CO60130
31	.1200	1-5/8	2-3/4	CO60131
32	.1160	1-5/8	2-3/4	CO60132
33	.1130	1-1/2	2-5/8	CO60133
34	.1110	1-1/2	2-5/8	CO60134
35	.1100	1-1/2	2-5/8	CO60135
36	.1065	1-7/16	2-1/2	CO60136
37	.1040	1-7/16	2-1/2	CO60137
38	.1015	1-7/16	2-1/2	CO60138
39	.0995	1-3/8	2-3/8	CO60139
40	.0980	1-3/8	2-3/8	CO60140

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
41	.0960	1-3/8	2-3/8	CO60141
42	.0935	1-1/4	2-1/4	CO60142
43	.0890	1-1/4	2-1/4	CO60143
44	.0860	1-1/8	2-1/8	CO60144
45	.0820	1-1/8	2-1/8	CO60145
46	.0810	1-1/8	2-1/8	CO60146
47	.0785	1	2	CO60147
48	.0760	1	2	CO60148
49	.0730	1	2	CO60149
50	.0700	1	2	CO60150
51	.0670	1	2	CO60151
52	.0635	7/8	1-7/8	CO60152
*53	.0595	7/8	1-7/8	CO60153
*54	.0550	7/8	1-7/8	CO60154
*55	.0520	7/8	1-7/8	CO60155
*56	.0465	3/4	1-3/4	CO60156
*57	.0430	3/4	1-3/4	CO60157
*58	.0420	11/16	1-5/8	CO60158
*59	.0410	11/16	1-5/8	CO60159
*60	.0400	11/16	1-5/8	CO60160
*61	.0390	11/16	1-5/8	CO60161
*62	.0380	5/8	1-1/2	CO60162
*63	.0370	5/8	1-1/2	CO60163
*64	.0360	5/8	1-1/2	CO60164
*65	.0350	5/8	1-1/2	CO60165
*66	.0330	1/2	1-3/8	CO60166
*67	.0320	1/2	1-3/8	CO60167
*68	.0310	1/2	1-3/8	CO60168
*69	.0292	1/2	1-3/8	CO60169
*70	.0280	3/8	1-1/4	CO60170
*71	.0260	3/8	1-1/4	CO60171
*72	.0250	5/16	1-1/8	CO60172
*73	.0240	5/16	1-1/8	CO60173
*74	.0225	1/4	1	CO60174
*75	.0210	1/4	1	CO60175
*76	.0200	3/16	7/8	CO60176
*77	.0180	3/16	7/8	CO60177
*78	.0160	3/16	7/8	CO60178
*79	.0145	1/8	3/4	CO60179
*80	.0135	1/8	3/4	CO60180

* #53 - #80 drills do not have a split point

METRIC (ISO Length)

SIZE MM	FLUTE LENGTH MM	OAL MM	STOCK #
1.00	12	34	CO51914
1.50	18	40	CO51915
2.00	24	49	CO51916
2.50	30	57	CO51917
3.00	33	61	CO51918
3.50	39	70	CO51919
4.00	43	75	CO51920
4.50	47	80	CO51921
5.00	52	86	CO51922
5.50	57	93	CO51923
6.00	57	93	CO51924
6.50	63	101	CO51925
7.00	69	109	CO51926

SIZE MM	FLUTE LENGTH MM	OAL MM	STOCK #
7.50	69	109	CO51927
8.00	75	117	CO51928
8.50	75	117	CO51929
9.00	81	125	CO51930
9.50	81	125	CO51931
10.00	87	133	CO51932
10.50	87	133	CO51933
11.00	94	142	CO51934
11.50	94	142	CO51935
12.00	101	151	CO51936
12.50	101	151	CO51937
13.00	101	151	CO51938

1.00 to 8.00, 12 per envelope, 8.50 to 13.00, 6 per envelope

Metric Jobber Drills

Super High-Speed Steel

**Jobber Length
118° Point
Black Oxide**



- Features:**
- Designed for general purpose drilling in a wide range of materials, equipment and operating conditions.
 - Typical applications include drilling production parts, maintenance jobs and portable drilling.
 - Drills are surface treated with a black oxide finish for added lubricity and improved chip flow.

ALFA USA

ECO PRO®

Metric Jobber Drills

A

SIZE MM	DECIMAL EQUIV.	FLUTE LENGTH		OVERALL LENGTH		ALFA USA STOCK #
		MM	INCHES	MM	INCHES	
0.50	0.0197	5	3/16	22	7/8	MJ151904
0.55	0.0217	6	1/4	25	1	—
0.60	0.0236	8	5/16	29	1-1/8	MJ151906
0.65	0.0256	10	3/8	32	1-1/4	—
0.70	0.0276	10	3/8	32	1-1/4	MJ151908
0.75	0.0295	13	1/2	35	1-3/8	MJ151909
0.80	0.0315	13	1/2	35	1-3/8	MJ151910
0.85	0.0335	16	5/8	38	1-1/2	MJ151911
0.90	0.0354	16	5/8	38	1-1/2	MJ151912
0.95	0.0374	16	5/8	38	1-1/2	—
1.00	0.0394	18	11/16	41	1-5/8	MJ151914
1.05	0.0413	18	11/16	41	1-5/8	MJ151915
1.10	0.0433	19	3/4	44	1-3/4	MJ151916
1.15	0.0453	19	3/4	44	1-3/4	MJ151917
1.20	0.0472	22	7/8	48	1-7/8	MJ151918
1.25	0.0492	22	7/8	48	1-7/8	MJ151919
1.30	0.0512	22	7/8	48	1-7/8	MJ151920
1.35	0.0531	22	7/8	48	1-7/8	MJ151921
1.40	0.0551	22	7/8	48	1-7/8	MJ151922
1.45	0.0571	22	7/8	48	1-7/8	MJ151923
1.50	0.0591	22	7/8	48	1-7/8	MJ151924
1.55	0.0610	22	7/8	48	1-7/8	MJ151925
1.60	0.0630	22	7/8	48	1-7/8	MJ151926
1.65	0.0650	25	1	51	2	MJ151927
1.70	0.0669	25	1	51	2	MJ151928
1.75	0.0689	25	1	51	2	MJ151929
1.80	0.0709	25	1	51	2	MJ151930
1.85	0.0728	25	1	51	2	MJ151931
1.90	0.0748	25	1	51	2	MJ151932
1.95	0.0768	25	1	51	2	MJ151933
2.00	0.0787	25	1	51	2	MJ151934
2.05	0.0807	29	1-5/32	54	2-1/8	MJ151935
2.10	0.0827	29	1-5/32	54	2-1/8	MJ151936
2.15	0.0846	29	1-5/32	54	2-1/8	MJ151937
2.20	0.0866	32	1-1/4	57	2-1/4	MJ151938
2.25	0.0886	32	1-1/4	57	2-1/4	—
2.30	0.0906	32	1-1/4	57	2-1/4	MJ151940
2.35	0.0925	32	1-1/4	57	2-1/4	—
2.40	0.0945	35	1-3/8	60	2-23/64	MJ151942
2.45	0.0965	35	1-3/8	60	2-23/64	—
2.50	0.0984	35	1-3/8	60	2-23/64	MJ151944
2.55	0.1003	—	—	57	—	—
2.60	0.1024	37	1-29/64	64	2-1/2	MJ151946
2.70	0.1063	37	1-29/64	64	2-1/2	MJ151947
2.75	0.1083	38	1-1/2	67	2-5/8	—
2.80	0.1102	38	1-1/2	67	2-5/8	MJ151949
2.90	0.1142	41	1-5/8	70	2-3/4	MJ151950
3.00	0.1181	41	1-5/8	70	2-3/4	MJ151951
3.10	0.1220	41	1-5/8	70	2-3/4	MJ151952
3.20	0.1260	41	1-5/8	70	2-3/4	MJ151953
3.25	0.1280	41	1-5/8	70	2-3/4	MJ151954
3.30	0.1299	45	1-3/4	73	2-7/8	MJ151955
3.40	0.1339	45	1-3/4	73	2-7/8	MJ151956
3.50	0.1378	45	1-3/4	73	2-7/8	MJ151957
3.60	0.1417	48	1-7/8	76	3	MJ151958
3.70	0.1457	48	1-7/8	76	3	MJ151959
3.75	0.1476	48	1-7/8	76	3	MJ151960
3.80	0.1496	48	1-7/8	76	3	MJ151961
3.90	0.1535	51	2	79	3-1/8	MJ151962
4.00	0.1575	54	2-1/8	83	3-1/4	MJ151963
4.10	0.1614	54	2-1/8	83	3-1/4	MJ151964

.50 to 8.00, 12 per envelope, 8.10 to 13.00, 6 per envelope



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• ECO PRO drills are made outside the United States to ALFA TOOLS' specifications.

Metric Jobber Drills - Cont.

Super High-Speed Steel

**Jobber Length
118° Point
Black Oxide**



ALFA USA

ECO PRO®

SIZE MM	DECIMAL EQUIV.	FLUTE LENGTH		OVERALL LENGTH		ALFA USA STOCK #	ECO PRO STOCK #
		MM	INCHES	MM	INCHES		
4.20	0.1654	54	2-1/8	83	3-1/4	MJ151965	MJ251965
4.25	0.1673	54	2-1/8	83	3-1/4	-	MJ251966
4.30	0.1693	54	2-1/8	83	3-1/4	MJ151967	MJ251967
4.40	0.1732	56	2-13/64	86	3-3/8	-	MJ251968
4.50	0.1772	56	2-13/64	86	3-3/8	MJ151969	MJ251969
4.60	0.1811	56	2-13/64	86	3-3/8	MJ151970	MJ251970
4.70	0.1850	59	2-21/64	89	3-1/2	MJ151971	MJ251971
4.75	0.1870	59	2-21/64	89	3-1/2	-	MJ251972
4.80	0.1890	59	2-21/64	89	3-1/2	MJ151973	MJ251973
4.90	0.1929	62	2-7/16	92	3-5/8	MJ151974	MJ251974
5.00	0.1969	62	2-7/16	92	3-5/8	MJ151975	MJ251975
5.10	0.2008	62	2-7/16	92	3-5/8	MJ151976	MJ251976
5.20	0.2047	64	2-1/2	95	3-3/4	MJ151977	MJ251977
5.25	0.2067	64	2-1/2	95	3-3/4	-	MJ251978
5.30	0.2087	64	2-1/2	95	3-3/4	MJ151979	MJ251979
5.40	0.2126	64	2-1/2	95	3-3/4	MJ151980	MJ251980
5.50	0.2165	64	2-1/2	95	3-3/4	MJ151981	MJ251981
5.60	0.2205	67	2-5/8	98	3-7/8	MJ151982	MJ251982
5.70	0.2244	67	2-5/8	98	3-7/8	MJ151983	MJ251983
5.75	0.2264	67	2-5/8	98	3-7/8	MJ151984	MJ251984
5.80	0.2283	67	2-5/8	98	3-7/8	MJ151985	MJ251985
5.90	0.2323	67	2-5/8	98	3-7/8	MJ151986	MJ251986
6.00	0.2362	70	2-3/4	102	4	MJ151987	MJ251987
6.10	0.2402	70	2-3/4	102	4	MJ151988	MJ251988
6.20	0.2441	70	2-3/4	102	4	MJ151989	MJ251989
6.25	0.2461	70	2-3/4	102	4	MJ151990	MJ251990
6.30	0.2480	70	2-3/4	102	4	MJ151991	MJ251991
6.40	0.2520	73	2-7/8	105	4-1/8	MJ151992	MJ251992
6.50	0.2559	73	2-7/8	105	4-1/8	MJ151993	MJ251993
6.60	0.2598	73	2-7/8	105	4-1/8	MJ151994	MJ251994
6.70	0.2638	73	2-7/8	105	4-1/8	MJ151995	MJ251995
6.75	0.2657	73	2-7/8	105	4-1/8	MJ151996	MJ251996
6.80	0.2677	73	2-7/8	105	4-1/8	MJ151997	MJ251997
6.90	0.2717	73	2-7/8	105	4-1/8	MJ151998	MJ251998
7.00	0.2756	73	2-7/8	105	4-1/8	MJ151999	MJ251999
7.10	0.2795	75	2-61/64	108	4-1/4	MJ152000	MJ252000
7.20	0.2835	75	2-61/64	108	4-1/4	MJ152001	MJ252001
7.25	0.2854	75	2-61/64	108	4-1/4	MJ152002	MJ252002
7.30	0.2874	75	2-61/64	108	4-1/4	MJ152003	MJ252003
7.40	0.2913	78	3	111	4-3/8	MJ152004	MJ252004
7.50	0.2953	78	3	111	4-3/8	MJ152005	MJ252005
7.60	0.2992	78	3	111	4-3/8	MJ152006	MJ252006
7.70	0.3031	81	3-3/16	114	4-1/2	MJ152007	MJ252007
7.75	0.3051	81	3-3/16	114	4-1/2	-	MJ252008
7.80	0.3071	81	3-3/16	114	4-1/2	MJ152009	MJ252009
7.90	0.3110	81	3-3/16	114	4-1/2	MJ152010	MJ252010
8.00	0.3150	81	3-3/16	114	4-1/2	MJ152011	MJ252011
8.10	0.3189	84	3-5/16	117	4-9/16	MJ152012	MJ252012
8.20	0.3228	84	3-5/16	117	4-9/16	MJ152013	MJ252013
8.25	0.3248	84	3-5/16	117	4-5/8	-	MJ252014
8.30	0.3268	84	3-5/16	117	4-9/16	MJ152015	MJ252015
8.40	0.3307	87	3-27/64	121	4-3/4	MJ152016	MJ252016
8.50	0.3346	87	3-27/64	121	4-3/4	MJ152017	MJ252017
8.60	0.3386	87	3-27/64	121	4-3/4	MJ152018	MJ252018
8.70	0.3425	87	3-27/64	121	4-3/4	MJ152019	MJ252019
8.75	0.3445	89	3-1/2	124	4-7/8	-	MJ252020
8.80	0.3465	89	3-1/2	124	4-7/8	MJ152021	MJ252021
8.90	0.3504	89	3-1/2	124	4-7/8	-	MJ252022
9.00	0.3543	89	3-1/2	124	4-7/8	MJ152023	MJ252023
9.10	0.3583	89	3-1/2	124	4-7/8	MJ152024	MJ252024
9.20	0.3622	92	3-5/8	127	5	MJ152025	MJ252025

.50 to 8.00, 12 per envelope, 8.10 to 13.00, 6 per envelope



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Metric Jobber Drills

A

Metric Jobber Drills - Cont.

Super High-Speed Steel

**Jobber Length
118° Point
Black Oxide**



ALFA USA

ECO PRO®

SIZE MM	DECIMAL EQUIV.	FLUTE LENGTH		OVERALL LENGTH		ALFA USA STOCK #
		MM	INCHES	MM	INCHES	
9.25	0.3642	92	3-5/8	127	5	-
9.30	0.3661	92	3-5/8	127	5	MJ152027
9.40	0.3701	92	3-5/8	127	5	MJ152028
9.50	0.3740	92	3-5/8	127	5	MJ152029
9.60	0.3780	95	3-3/4	130	5-1/8	MJ152030
9.70	0.3819	95	3-3/4	130	5-1/8	MJ152031
9.75	0.3839	95	3-3/4	130	5-1/8	-
9.80	0.3858	95	3-3/4	130	5-1/8	MJ152033
9.90	0.3898	95	3-3/4	130	5-1/8	MJ152034
10.00	0.3937	95	3-3/4	130	5-1/8	MJ152035
10.50	0.4134	98	3-7/8	133	5-15/64	MJ152036
11.00	0.4331	103	4-1/16	140	5-1/2	MJ152037
11.50	0.4528	106	4-7/32	143	5-5/8	MJ152038
12.00	0.4724	111	4-3/8	150	5-7/8	MJ152039
12.50	0.4921	114	4-1/2	152	6	MJ152040
13.00	0.5118	114	4-1/2	152	6	MJ152041

Jobber Drills over 13mm diameter have straight cylindrical shanks.

For 1/2" Reduced Shank Drills, see drills on page A42.

13.10	0.5187	114	4-1/2	152	6	-
13.20	0.5197	122	4-13/16	168	6-5/8	-
13.30	0.5236	122	4-13/16	168	6-5/8	-
13.40	0.5276	122	4-13/16	168	6-5/8	-
13.50	0.5315	122	4-13/16	168	6-5/8	-
13.60	0.5354	122	4-13/16	168	6-5/8	-
13.70	0.5394	122	4-13/16	168	6-5/8	-
13.75	0.5413	122	4-13/16	168	6-5/8	-
13.80	0.5433	122	4-13/16	168	6-5/8	-
13.90	0.5472	122	4-13/16	168	6-5/8	-
14.00	0.5512	122	4-13/16	168	6-5/8	-
14.25	0.5610	122	4-13/16	168	6-5/8	-
14.50	0.5709	122	4-13/16	168	6-5/8	-
14.75	0.5807	132	5-3/16	181	7-1/8	-
15.00	0.5906	132	5-3/16	181	7-1/8	-
15.25	0.6004	132	5-3/16	181	7-1/8	-
15.50	0.6102	132	5-3/16	181	7-1/8	-
15.75	0.6201	132	5-3/16	181	7-1/8	-
16.00	0.6299	132	5-3/16	181	7-1/8	-
16.25	0.6398	132	5-3/16	181	7-1/8	-
16.50	0.6496	132	5-3/16	181	7-1/8	-
16.75	0.6594	143	5-5/8	194	7-5/8	-
17.00	0.6693	143	5-5/8	194	7-5/8	-
17.25	0.6791	143	5-5/8	194	7-5/8	-
17.50	0.6890	143	5-5/8	194	7-5/8	-
17.75	0.6988	143	5-5/8	194	7-5/8	-
18.00	0.7087	143	5-5/8	194	7-5/8	-
18.25	0.7185	143	5-5/8	194	7-5/8	-
18.50	0.7283	143	5-5/8	194	7-5/8	-
18.75	0.7382	143	5-5/8	194	7-5/8	-
19.00	0.7480	143	5-5/8	194	7-5/8	-
19.25	0.7579	143	5-5/8	194	7-5/8	-
19.50	0.7677	143	5-5/8	194	7-5/8	-
19.75	0.7776	143	5-5/8	194	7-5/8	-
20.00	0.7874	143	5-5/8	194	7-5/8	-

8.10 to 13.00, 6 per envelope, 13.10 to 20, 1 per pack

ALFA USA

SETS

ECO PRO®

QTY.	SIZES	ALFA USA	ECO PRO STOCK #
		STOCK #	
19 Pcs.	1.0 mm - 10.0 mm by .5 mm	MJ150198A	
25 Pcs.	1.0 mm - 13.0 mm by .5 mm	MJ150198	



QTY.	SIZES	ECO PRO	STOCK #
		STOCK #	
19 Pcs.	1.0 mm - 10.0 mm by .5 mm		MJ250198A
25 Pcs.	1.0 mm - 13.0 mm by .5 mm		MJ250198



• ALFA USA drills are made in the United States.

ECO PRO

• ECO PRO drills are made outside the United States to ALFA TOOLS' specifications.



Pilot-Point® Jobber Drills

High-Speed Pilot-Point® Drills

**Jobber Length
Parabolic Flute
3 Flats On Shank
Straw Gold Finish**



FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
3/16	.1875	2-5/16	3-1/2	JD50109BD
13/64	.2031	2-7/16	3-5/8	JD50110BD
7/32	.2188	2-1/2	3-3/4	JD50111BD
15/64	.2344	2-5/8	3-7/8	JD50112BD
1/4	.2500	2-3/4	4	JD50113BD
17/64	.2656	2-7/8	4-1/8	JD50114BD
9/32	.2812	2-15/16	4-1/4	JD50115BD
19/64	.2969	3-1/16	4-3/8	JD50116BD
5/16	.3125	3-3/16	4-1/2	JD50117BD
21/64	.3281	3-5/16	4-5/8	JD50118BD
11/32	.3438	3-7/16	4-3/4	JD50119BD
23/64	.3594	3-1/2	4-7/8	JD50120BD
3/8	.3750	3-5/8	5	JD50121BD

3/16" to 5/16", 12 per envelope, 21/64" to 3/8", 6 per envelope

Features:

- Drills up to four times faster than regular point drill bits.
- Drills precise, smooth holes without burrs.
- Minimizes walking – no center punch required.
- No binding or lock-up at break-through.
- Requires half the force of regular point drill bits.



3/8" SHANK

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
25/64	.3906	3-3/4	5-1/8	RS51851BD
13/32	.4062	3-7/8	5-1/4	RS51853BD
27/64	.4219	3-15/16	5-3/8	RS51855BD
7/16	.4375	4-1/16	5-1/2	RS51857BD
29/64	.4531	4-3/16	5-5/8	RS51859BD
15/32	.4688	4-5/16	5-3/4	RS51861BD
31/64	.4844	4-3/8	5-7/8	RS51863BD
1/2	.5000	4-1/2	6	RS51865BD

25/64" to 1/2", 6 per envelope

These items are available carded.
See price list for details.

HSS BULLET PILOT-POINT® DRILL SET

IN METAL INDEX

QTY.	SIZES	STOCK #
29 Pcs.	1/16" - 1/2" by 64ths	RS50186BD

Sizes 1/16" - 11/64" are 135° Split Pt.

Sizes 25/64" to 1/2" have 3/8" Shank

Pilot-Point® Jobber Drills

A



Cobalt Pilot-Point® Jobber Drills

**Jobber Length
Parabolic Flute
3 Flats On Shank
Gold Finish**



FRACTIONAL

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
3/16	.1875	2-5/16	3-1/2	JDCO50109BD
13/64	.2031	2-7/16	3-5/8	JDCO50110BD
7/32	.2188	2-1/2	3-3/4	JDCO50111BD
15/64	.2344	2-5/8	3-7/8	JDCO50112BD
1/4	.2500	2-3/4	4	JDCO50113BD
5/16	.3125	3-3/16	4-1/2	JDCO50117BD
3/8	.3750	3-5/8	5	JDCO50121BD

3/16" to 5/16", 12 per envelope, 3/8", 6 per envelope

Features:



- Manufactured from heat-resistant cobalt M42 high-speed steel to maintain cutting ability at temperatures exceeding 1000° F.
- For use in drilling stainless steel / hardened alloys.
- Drills precise, smooth holes without burrs.
- Requires half the force of regular point drill bits.



3/8" SHANK

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
7/16	.4375	4-1/16	5-1/2	RSCO51857BD
1/2	.5000	4-1/2	6	RSCO51865BD

6 per envelope

Left Hand Jobber Drills

Super High-Speed Steel Left Hand Spiral



MADE IN
U. S. A.

**Jobber Length
118° Point
Bright Finish**

- Features:**
- Designed for use in left hand rotation.
 - General purpose drill construction.
 - Excellent for screw extractor applications.

- Features a left hand helix for screw machine applications where spindles rotate counter-clockwise.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1/16	.0625	7/8	1-7/8	JDL50101
5/64	.0781	1	2	JDL50102
3/32	.0938	1-1/4	2-1/4	JDL50103
7/64	.1094	1-1/2	2-5/8	JDL50104
1/8	.1250	1-5/8	2-3/4	JDL50105
9/64	.1406	1-3/4	2-7/8	JDL50106
5/32	.1562	2	3-1/8	JDL50107
11/64	.1719	2-1/8	3-1/4	JDL50108
3/16	.1875	2-5/16	3-1/2	JDL50109
13/64	.2031	2-7/16	3-5/8	JDL50110
7/32	.2188	2-1/2	3-3/4	JDL50111
15/64	.2344	2-5/8	3-7/8	JDL50112
1/4	.2500	2-3/4	4	JDL50113
17/64	.2656	2-7/8	4-1/8	JDL50114
9/32	.2812	2-15/16	4-1/4	JDL50115

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
19/64	.2969	3-1/16	4-3/8	JDL50116
5/16	.3125	3-3/16	4-1/2	JDL50117
21/64	.3281	3-5/16	4-5/8	JDL50118
11/32	.3438	3-7/16	4-3/4	JDL50119
23/64	.3594	3-1/2	4-7/8	JDL50120
3/8	.3750	3-5/8	5	JDL50121
25/64	.3906	3-3/4	5-1/8	JDL50122
13/32	.4062	3-7/8	5-1/4	JDL50123
27/64	.4219	3-15/16	5-3/8	JDL50124
7/16	.4375	4-1/16	5-1/2	JDL50125
29/64	.4531	4-3/16	5-5/8	JDL50126
15/32	.4688	4-5/16	5-3/4	JDL50127
31/64	.4844	4-3/8	5-7/8	JDL50128
1/2	.5000	4-1/2	6	JDL50129

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope



WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1	.2280	2-5/8	3-7/8	JDL60101
2	.2210	2-5/8	3-7/8	JDL60102
3	.2130	2-1/2	3-3/4	JDL60103
4	.2090	2-1/2	3-3/4	JDL60104
5	.2055	2-1/2	3-3/4	JDL60105
6	.2040	2-1/2	3-3/4	JDL60106
7	.2010	2-7/16	3-5/8	JDL60107
8	.1990	2-7/16	3-5/8	JDL60108
9	.1960	2-7/16	3-5/8	JDL60109
10	.1935	2-7/16	3-5/8	JDL60110
11	.1910	2-5/16	3-1/2	JDL60111
12	.1890	2-5/16	3-1/2	JDL60112
13	.1850	2-5/16	3-1/2	JDL60113
14	.1820	2-3/16	3-3/8	JDL60114
15	.1800	2-3/16	3-3/8	JDL60115
16	.1770	2-3/16	3-3/8	JDL60116
17	.1730	2-3/16	3-3/8	JDL60117
18	.1695	2-1/8	3-1/4	JDL60118
19	.1660	2-1/8	3-1/4	JDL60119
20	.1610	2-1/8	3-1/4	JDL60120
21	.1590	2-1/8	3-1/4	JDL60121
22	.1570	2	3-1/8	JDL60122
23	.1540	2	3-1/8	JDL60123
24	.1520	2	3-1/8	JDL60124
25	.1495	1-7/8	3	JDL60125
26	.1470	1-7/8	3	JDL60126
27	.1440	1-7/8	3	JDL60127
28	.1405	1-3/4	2-7/8	JDL60128
29	.1360	1-3/4	2-7/8	JDL60129
30	.1285	1-5/8	2-3/4	JDL60130
31	.1200	1-5/8	2-3/4	JDL60131
32	.1160	1-5/8	2-3/4	JDL60132
33	.1130	1-1/2	2-5/8	JDL60133
34	.1110	1-1/2	2-5/8	JDL60134
35	.1100	1-1/2	2-5/8	JDL60135
36	.1065	1-7/16	2-1/2	JDL60136
37	.1040	1-7/16	2-1/2	JDL60137
38	.1015	1-7/16	2-1/2	JDL60138
39	.0995	1-3/8	2-3/8	JDL60139
40	.0980	1-3/8	2-3/8	JDL60140

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
41	.0960	1-3/8	2-3/8	JDL60141
42	.0935	1-1/4	2-1/4	JDL60142
43	.0890	1-1/4	2-1/4	JDL60143
44	.0860	1-1/8	2-1/8	JDL60144
45	.0820	1-1/8	2-1/8	JDL60145
46	.0810	1-1/8	2-1/8	JDL60146
47	.0785	1	2	JDL60147
48	.0760	1	2	JDL60148
49	.0730	1	2	JDL60149
50	.0700	1	2	JDL60150
51	.0670	1	2	JDL60151
52	.0635	7/8	1-7/8	JDL60152
53	.0595	7/8	1-7/8	JDL60153
54	.0550	7/8	1-7/8	JDL60154
55	.0520	7/8	1-7/8	JDL60155
56	.0465	3/4	1-3/4	JDL60156
57	.0430	3/4	1-3/4	JDL60157
58	.0420	11/16	1-5/8	JDL60158
59	.0410	11/16	1-5/8	JDL60159
60	.0400	11/16	1-5/8	JDL60160



SETS

QTY.	SIZES	ALFA USA
		STOCK #
13 Pcs.	1/16" - 1/4" by 64ths	JDL50194
15 Pcs.	1/16" - 1/2" by 32nds	JDL50193
21 Pcs.	1/16" - 3/8" by 64ths	JDL50192
29 Pcs.	1/16" - 1/2" by 64ths	JDL50190
60 Pcs.	#1 - #60	JDL50191

1 to 60, 12 per envelope

Left Hand Jobber Drills - Cobalt M42

Heavy Duty
NAS 907, Type J Standards
Left Hand Spiral



MADE IN

 U. S. A.

Jobber Length
135° Split Point
Straw Gold Finish

- Features:**
- Features a left hand helix for screw machine applications where spindles rotate counter-clockwise.
 - Manufactured from heat-resistant cobalt M42 high-speed steel, these drills maintain their cutting ability at temperatures exceeding 1000°F.

- Heat-resistant and heavy duty design enables use in the harder, high-tensile strength steels like stainless steel, titanium, armor plate, inconel and other difficult-to-machine materials.

FRACTIONAL

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1/16	.0625	7/8	1-7/8	JDLCO93101
5/64	.0781	1	2	JDLCO93102
3/32	.0938	1-1/4	2-1/4	JDLCO93103
7/64	.1094	1-1/2	2-5/8	JDLCO93104
1/8	.1250	1-5/8	2-3/4	JDLCO93105
9/64	.1406	1-3/4	2-7/8	JDLCO93106
5/32	.1562	2	3-1/8	JDLCO93107
11/64	.1719	2-1/8	3-1/4	JDLCO93108
3/16	.1875	2-5/16	3-1/2	JDLCO93109
13/64	.2031	2-7/16	3-5/8	JDLCO93110
7/32	.2188	2-1/2	3-3/4	JDLCO93111
15/64	.2344	2-5/8	3-7/8	JDLCO93112
1/4	.2500	2-3/4	4	JDLCO93113
17/64	.2656	2-7/8	4-1/8	JDLCO93114
9/32	.2812	2-15/16	4-1/4	JDLCO93115
19/64	.2969	3-1/16	4-3/8	JDLCO93116
5/16	.3125	3-3/16	4-1/2	JDLCO93117
21/64	.3281	3-5/16	4-5/8	JDLCO93118
11/32	.3438	3-7/16	4-3/4	JDLCO93119
23/64	.3594	3-1/2	4-7/8	JDLCO93120
3/8	.3750	3-5/8	5	JDLCO93121
25/64	.3906	3-3/4	5-1/8	JDLCO93122
13/32	.4062	3-7/8	5-1/4	JDLCO93123
27/64	.4219	3-15/16	5-3/8	JDLCO93124
7/16	.4375	4-1/16	5-1/2	JDLCO93125
29/64	.4531	4-3/16	5-5/8	JDLCO93126
15/32	.4688	4-5/16	5-3/4	JDLCO93127
31/64	.4844	4-3/8	5-7/8	JDLCO93128
1/2	.5000	4-1/2	6	JDLCO93129

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope



QTY.	SIZES	ALFA USA
		STOCK #
13 Pcs.	1/16" - 1/4" by 64ths	JDLCO93194
15 Pcs.	1/16" - 1/2" by 32nds	JDLCO93193
21 Pcs.	1/16" - 3/8" by 64ths	JDLCO93192
29 Pcs.	1/16" - 1/2" by 64ths	JDLCO93190

Carbide Tipped Jobber Drills

High-Speed Steel Body

**Heavy Duty
Jobber Length
118° Point
Bright Finish**



MADE IN
U. S. A.

Features:

- Carbide tipped drills resist abrasion and retain edge sharpness.
- Recommended for drilling in cast iron, aluminum castings, hard plastics and other abrasive nonferrous materials.
- Should not be used in soft materials.

Carbide Tipped Jobber Drills

A

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
7/64	.1094	1-5/8	2-3/4	T50104
1/8	.1250	1-5/8	2-3/4	T50105
9/64	.1406	1-3/4	2-7/8	T50106
5/32	.1562	2	3-1/8	T50107
11/64	.1719	2-1/8	3-1/4	T50108
3/16	.1875	2-5/16	3-1/2	T50109
13/64	.2031	2-7/16	3-5/8	T50110
7/32	.2188	2-1/2	3-3/4	T50111
15/64	.2344	2-5/8	3-7/8	T50112
1/4	.2500	2-3/4	4	T50113
17/64	.2656	2-7/8	4-1/8	T50114
9/32	.2812	2-15/16	4-1/4	T50115
19/64	.2969	3-1/16	4-3/8	T50116

1 per pack

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
5/16	.3125	3-3/16	4-1/2	T50117
21/64	.3281	3-5/16	4-5/8	T50118
11/32	.3438	3-7/16	4-3/4	T50119
23/64	.3594	3-1/2	4-7/8	T50120
3/8	.3750	3-5/8	5	T50121
25/64	.3906	3-3/4	5-1/8	T50122
13/32	.4062	3-7/8	5-1/4	T50123
27/64	.4219	3-15/16	5-3/8	T50124
7/16	.4375	4-1/16	5-1/2	T50125
29/64	.4531	4-3/16	5-5/8	T50126
15/32	.4688	4-5/16	5-3/4	T50127
31/64	.4844	4-3/8	5-7/8	T50128
1/2	.5000	4-1/2	6	T50129

1 per pack

LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
A	.234	2-5/8	3-7/8	T60201
B	.238	2-3/4	4	T60202
C	.242	2-3/4	4	T60203
D	.246	2-3/4	4	T60204
E	.250	2-3/4	4	T60205
F	.257	2-7/8	4-1/8	T60206
G	.261	2-7/8	4-1/8	T60207
H	.266	2-7/8	4-1/8	T60208
I	.272	2-7/8	4-1/8	T60209
J	.277	2-7/8	4-1/8	T60210
K	.281	2-15/16	4-1/4	T60211
L	.290	2-15/16	4-1/4	T60212
M	.295	3-1/16	4-3/8	T60213

1 per pack

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
N	.302	3-1/16	4-3/8	T60214
O	.316	3-3/16	4-1/2	T60215
P	.323	3-5/16	4-5/8	T60216
Q	.332	3-7/16	4-3/4	T60217
R	.339	3-7/16	4-3/4	T60218
S	.348	3-1/2	4-7/8	T60219
T	.358	3-1/2	4-7/8	T60220
U	.368	3-5/8	5	T60221
V	.377	3-5/8	5	T60222
W	.386	3-3/4	5-1/8	T60223
X	.397	3-3/4	5-1/8	T60224
Y	.404	3-7/8	5-1/4	T60225
Z	.413	3-7/8	5-1/4	T60226

1 per pack

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1	.2280	2-5/8	3-7/8	T60101
2	.2210	2-5/8	3-7/8	T60102
3	.2130	2-1/2	3-3/4	T60103
4	.2090	2-1/2	3-3/4	T60104
5	.2055	2-1/2	3-3/4	T60105
6	.2040	2-1/2	3-3/4	T60106
7	.2010	2-7/16	3-5/8	T60107
8	.1990	2-7/16	3-5/8	T60108
9	.1960	2-7/16	3-5/8	T60109
10	.1935	2-7/16	3-5/8	T60110
11	.1910	2-5/16	3-1/2	T60111
12	.1890	2-5/16	3-1/2	T60112
13	.1850	2-5/16	3-1/2	T60113
14	.1820	2-3/16	3-3/8	T60114
15	.1800	2-3/16	3-3/8	T60115
16	.1770	2-3/16	3-3/8	T60116

1 per pack

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
17	.1730	2-3/16	3-3/8	T60117
18	.1695	2-1/8	3-1/4	T60118
19	.1660	2-1/8	3-1/4	T60119
20	.1610	2-1/8	3-1/4	T60120
21	.1590	2-1/8	3-1/4	T60121
22	.1570	2	3-1/8	T60122
23	.1540	2	3-1/8	T60123
24	.1520	2	3-1/8	T60124
25	.1495	1-7/8	3	T60125
26	.1470	1-7/8	3	T60126
27	.1440	1-7/8	3	T60127
28	.1405	1-3/4	2-7/8	T60128
29	.1360	1-3/4	2-7/8	T60129
30	.1285	1-5/8	2-3/4	T60130
31	.1200	1-5/8	2-3/4	T60131
32	.1160	1-5/8	2-3/4	T60132

Carbide Tipped Die Drills

High-Speed Steel Body Right Hand Cut



MADE IN
U. S. A.

Straight Flute 118° Point

Features:

- Also known as a "Hard Steel Drill".
- Recommended for drilling hardened and case hardened steel over 45RC hardness.
- Can produce a reamer finish.
- Drill body diameter is smaller than the carbide tip to prevent material galling.

FRACTIONAL

NEW!

CUTTING DIA.	DECIMAL EQUIV.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
3/16	.1875	11/64	1-1/2	3-1/2	CDD10209
13/64	.2031	3/16	1-3/4	3-3/4	CDD10210
7/32	.2188	13/64	1-3/4	3-3/4	CDD10211
15/64	.2344	7/32	2	4	CDD10212
1/4	.2500	15/64	2	4	CDD10213
17/64	.2656	1/4	2-1/4	4-1/4	CDD10214
9/32	.2812	17/64	2-1/4	4-1/4	CDD10215
19/64	.2969	9/32	2-1/2	4-1/2	CDD10216
5/16	.3125	19/64	2-1/2	4-1/2	CDD10217
21/64	.3281	5/16	2-3/4	4-3/4	CDD10218
11/32	.3438	21/64	2-3/4	4-3/4	CDD10219
23/64	.3594	11/32	3	5	CDD10220
3/8	.3750	23/64	3	5	CDD10221
25/64	.3906	3/8	3	5-1/4	CDD10222
13/32	.4062	25/64	3	5-1/4	CDD10223
27/64	.4219	13/32	3	5-1/2	CDD10224
7/16	.4375	27/64	3	5-1/2	CDD10225

CUTTING DIA.	DECIMAL EQUIV.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
29/64	.4531	7/16	3-1/4	5-3/4	CDD10226
15/32	.4688	29/64	3-1/4	5-3/4	CDD10227
31/64	.4844	15/32	3-1/2	6	CDD10228
1/2	.5000	15/32	3-1/2	6	CDD10229
17/32	.5312	1/2	3-1/2	6	CDD10231
9/16	.5625	17/32	3-1/2	6	CDD10233
19/32	.5938	9/16	4	7	CDD10235
5/8	.6250	19/32	4	7	CDD10237
21/32	.6562	5/8	4-1/2	7-1/2	CDD10239
11/16	.6875	21/32	4-1/2	7-1/2	CDD10241
23/32	.7188	11/16	4-3/4	8	CDD10243
3/4	.7500	23/32	4-3/4	8	CDD10245
13/16	.8125	25/32	4-3/4	8	CDD10247
7/8	.8750	27/32	4-3/4	8	CDD10249
15/16	.9375	29/32	4-3/4	8	CDD10251
1	1.0000	31/32	4-3/4	8	CDD10253

1 per pack

Drill Blanks

Super High-Speed Steel Hardened & Ground, Bright Finish



Tolerance:

Up to 1/4" +.0000" - .0005"
1/4" to 25/64" +.0000" - .0009"
Over 13/32" +.0000" - .0010"

Features:

- Used as stock for small tools, drill blanks are often used as gauges to check hole size and drill bushing size or as guide pins for die sets.

FRACTIONAL

SIZE	OVERALL LENGTH	STOCK #
1/16	1-7/8	DB50101
5/64	2	DB50102
3/32	2-1/4	DB50103
7/64	2-5/8	DB50104
1/8	2-3/4	DB50105
9/64	2-7/8	DB50106
5/32	3-1/8	DB50107
11/64	3-1/4	DB50108
3/16	3-1/2	DB50109
13/64	3-5/8	DB50110
7/32	3-3/4	DB50111
15/64	3-7/8	DB50112
1/4	4	DB50113

SIZE	OVERALL LENGTH	STOCK #
17/64	4-1/8	DB50114
9/32	4-1/4	DB50115
19/64	4-3/8	DB50116
5/16	4-1/2	DB50117
21/64	4-5/8	DB50118
11/32	4-3/4	DB50119
23/64	4-7/8	DB50120
3/8	5	DB50121
25/64	5-1/8	DB50122
13/32	5-1/4	DB50123
27/64	5-3/8	DB50124
7/16	5-1/2	DB50125
29/64	5-5/8	DB50126

SIZE	OVERALL LENGTH	STOCK #
15/32	5-3/4	DB50127
31/64	5-7/8	DB50128
1/2	6	DB50129
9/16	6	DB50133
5/8	6	DB50137
11/16	6	DB50141
3/4	6	DB50145
13/16	6	DB50149
7/8	6	DB50153
15/16	6	DB50157
1	6	DB50161

1 per pack

Wire Gage & Letter Sizes are available. Details on request.

Screw Machine Length Drills

**Super High-Speed Steel
NAS 907, Type C**



MADE IN
U. S. A.

**Heavy Duty
135° Split Point
(Above 1/2" 118° Point)
Black Oxide**

- Features:**
- Manufactured to National Aerospace Standard 907, Type C.
 - Heavy duty construction and shorter length, performs well in stationary and portable drilling.
 - Shorter flute and overall length increases the rigidity resulting in less deflection, better hole accuracy and longer tool life.
 - 135° split point is self-centering and reduces thrust.
 - Designed for drilling in a broad range of materials in the iron and steel families.

Screw Machine Length

A

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
135° POINT				
3/64	.0469	1/2	1-3/8	SM50200
1/16	.0625	5/8	1-5/8	SM50201
5/64	.0781	11/16	1-11/16	SM50202
3/32	.0938	3/4	1-3/4	SM50203
7/64	.1094	13/16	1-13/16	SM50204
1/8	.1250	7/8	1-7/8	SM50205
9/64	.1406	15/16	1-15/16	SM50206
5/32	.1562	1	2-1/16	SM50207
11/64	.1719	1-1/16	2-1/8	SM50208
3/16	.1875	1-1/8	2-3/16	SM50209
13/64	.2031	1-3/16	2-1/4	SM50210
7/32	.2188	1-1/4	2-3/8	SM50211
15/64	.2344	1-5/16	2-7/16	SM50212
1/4	.2500	1-3/8	2-1/2	SM50213
17/64	.2656	1-7/16	2-5/8	SM50214
9/32	.2812	1-1/2	2-11/16	SM50215
19/64	.2969	1-9/16	2-3/4	SM50216
5/16	.3125	1-5/8	2-13/16	SM50217
21/64	.3281	1-11/16	2-15/16	SM50218
11/32	.3438	1-11/16	3	SM50219
23/64	.3594	1-3/4	3-1/16	SM50220
3/8	.3750	1-13/16	3-1/8	SM50221
25/64	.3906	1-7/8	3-1/4	SM50222
13/32	.4062	1-15/16	3-5/16	SM50223
27/64	.4219	2	3-3/8	SM50224
7/16	.4375	2-1/16	3-7/16	SM50225
29/64	.4531	2-1/8	3-9/16	SM50226
15/32	.4688	2-1/8	3-5/8	SM50227
31/64	.4844	2-3/16	3-11/16	SM50228
1/2	.5000	2-1/4	3-3/4	SM50229

3/64" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope,
33/64" to 2", 1 per pack

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
118° POINT				
33/64	.5156	2-3/8	3-7/8	SM50230
17/32	.5312	2-3/8	3-7/8	SM50231
35/64	.5469	2-1/2	4	SM50232
9/16	.5625	2-1/2	4	SM50233
37/64	.5781	2-5/8	4-1/8	SM50234
19/32	.5938	2-5/8	4-1/8	SM50235
39/64	.6094	2-3/4	4-1/4	SM50236
5/8	.6250	2-3/4	4-1/4	SM50237
41/64	.6406	2-7/8	4-1/2	SM50238
21/32	.6562	2-7/8	4-1/2	SM50239
43/64	.6719	2-7/8	4-5/8	SM50240
11/16	.6875	2-7/8	4-5/8	SM50241
45/64	.7031	3	4-3/4	SM50242
23/32	.7188	3	4-3/4	SM50243
47/64	.7344	3-1/8	5	SM50244
3/4	.7500	3-1/8	5	SM50245
49/64	.7656	3-1/4	5-1/8	SM50246
25/32	.7812	3-1/4	5-1/8	SM50247
51/64	.7969	3-3/8	5-1/4	SM50248
13/16	.8125	3-3/8	5-1/4	SM50249
53/64	.8281	3-1/2	5-3/8	SM50250
27/32	.8438	3-1/2	5-3/8	SM50251
55/64	.8594	3-1/2	5-1/2	SM50252
7/8	.8750	3-1/2	5-1/2	SM50253
57/64	.8906	3-5/8	5-5/8	SM50254
29/32	.9062	3-5/8	5-5/8	SM50255
59/64	.9219	3-3/4	5-3/4	SM50256
15/16	.9375	3-3/4	5-3/4	SM50257
61/64	.9531	3-7/8	5-7/8	SM50258
31/32	.9688	3-7/8	5-7/8	SM50259
63/64	.9844	4	6	SM50260
1	1.0000	4	6	SM50261
1-1/16	1.0625	4	6-1/4	SM50262
1-1/8	1.1250	4	6-3/8	SM50263
1-3/16	1.1875	4-1/4	6-5/8	SM50264
1-1/4	1.2500	4-3/8	6-3/4	SM50265

SETS

QTY.	SIZES	ALFA USA
		STOCK #
13 Pcs.	1/16" - 1/4" by 64ths	SM50294
29 Pcs.	1/16" - 1/2" by 64ths	SM50290
26 Pcs.	Letter Sizes A - Z	SM50297
60 Pcs.	Wire Gage #1 - #60	SM50291

Note Sizes:

33/64" to 1" have Straight Shank
1-1/16" to 1-1/4" have 1" Shank Dia.
1-5/16" to 1-1/2" have 1-1/4" Shank Dia.
1-9/16" to 2" have 1-1/2" Shank Dia.



Screw Machine Length Drills - Cont.

**Super High-Speed Steel
NAS 907, Type C**

MADE IN
U. S. A.

**Heavy Duty
135° Split Point
Black Oxide**



LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
A	.234	1-5/16	2-7/16	SM60401
B	.238	1-3/8	2-1/2	SM60402
C	.242	1-3/8	2-1/2	SM60403
D	.246	1-3/8	2-1/2	SM60404
E	.250	1-3/8	2-1/2	SM60405
F	.257	1-7/16	2-5/8	SM60406
G	.261	1-7/16	2-5/8	SM60407
H	.266	1-1/2	2-11/16	SM60408
I	.272	1-1/2	2-11/16	SM60409
J	.277	1-1/2	2-11/16	SM60410
K	.281	1-1/2	2-11/16	SM60411
L	.290	1-9/16	2-3/4	SM60412
M	.295	1-9/16	2-3/4	SM60413

A to N, 12 per envelope, O to Z, 6 per envelope

WIRE GAGE

Expanded

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1	.2280	1-5/16	2-7/16	SM60301
2	.2210	1-5/16	2-7/16	SM60302
3	.2130	1-1/4	2-3/8	SM60303
4	.2090	1-1/4	2-3/8	SM60304
5	.2055	1-1/4	2-3/8	SM60305
6	.2040	1-1/4	2-3/8	SM60306
7	.2010	1-3/16	2-1/4	SM60307
8	.1990	1-3/16	2-1/4	SM60308
9	.1960	1-3/16	2-1/4	SM60309
10	.1935	1-3/16	2-1/4	SM60310
11	.1910	1-3/16	2-1/4	SM60311
12	.1890	1-3/16	2-1/4	SM60312
13	.1850	1-1/8	2-3/16	SM60313
14	.1820	1-1/8	2-3/16	SM60314
15	.1800	1-1/8	2-3/16	SM60315
16	.1770	1-1/8	2-3/16	SM60316
17	.1730	1-1/8	2-3/16	SM60317
18	.1695	1-1/16	2-1/8	SM60318
19	.1660	1-1/16	2-1/8	SM60319
20	.1610	1-1/16	2-1/8	SM60320
21	.1590	1-1/16	2-1/8	SM60321
22	.1570	1-1/16	2-1/8	SM60322
23	.1540	1	2-1/16	SM60323
24	.1520	1	2-1/16	SM60324
25	.1495	1	2-1/16	SM60325
26	.1470	1	2-1/16	SM60326
27	.1440	1	2-1/16	SM60327
28	.1405	15/16	1-15/16	SM60328
29	.1360	15/16	1-15/16	SM60329
30	.1285	15/16	1-15/16	SM60330

1 to 60, 12 per pack

* #53 - #60 drills do not have a split point

METRIC (ISO Length)



SIZE MM	FLUTE LENGTH MM	OVERALL LENGTH MM	STOCK #
*1.00	6	26	SMM74401
2.00	12	38	SMM74410
2.50	14	43	SMM74415
3.00	16	46	SMM74420
3.50	20	52	SMM74425
4.00	22	55	SMM74430
4.50	24	58	SMM74435
5.00	26	62	SMM74440

1.00 to 8.00, 12 per envelope,
8.50 to 12.50, 6 per envelope.

*Not split point

SIZE MM	FLUTE LENGTH MM	OVERALL LENGTH MM	STOCK #
5.50	28	66	SMM74445
6.00	28	66	SMM74450
6.50	31	70	SMM74455
7.00	34	74	SMM74460
7.50	34	74	SMM74465
8.00	37	79	SMM74470
8.50	37	79	SMM74475
9.00	40	84	SMM74480

SIZE MM	FLUTE LENGTH MM	OVERALL LENGTH MM	STOCK #
9.50	40	84	SMM74485
10.00	43	89	SMM74490
10.50	43	89	SMM74495
11.00	47	95	SMM74500
11.50	47	95	SMM74505
12.00	51	102	SMM74510
12.50	51	102	SMM74515

Screw Machine Length

A



Blitz Bits® - Screw Machine Length

Premium High-Speed Steel



MADE IN
U. S. A.

Heavy Duty
135° Split Point
Black Oxide & Gold Finish

Blitz Bits® - Screw Machine Length

A

- Features:**
- Heavy duty construction and shorter length are good for stationary and portable drilling.
 - Shorter flute and overall length increases the rigidity resulting in less deflection, better hole accuracy and longer tool life.
 - The buttressed cutting edge, with an acute rake, makes the BLITZ BIT® cut cleanly and accurately with less effort. The extra clearance behind the side margin reduces friction, enabling balanced cutting action with closer hole tolerances, at higher speeds.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1/16	.0625	5/8	1-5/8	BBSM50201
5/64	.0781	11/16	1-11/16	BBSM50202
3/32	.0938	3/4	1-3/4	BBSM50203
7/64	.1094	13/16	1-13/16	BBSM50204
1/8	.1250	7/8	1-7/8	BBSM50205
9/64	.1406	15/16	1-15/16	BBSM50206
5/32	.1562	1	2-1/16	BBSM50207
11/64	.1719	1-1/16	2-1/8	BBSM50208
3/16	.1875	1-1/8	2-3/16	BBSM50209
13/64	.2031	1-3/16	2-1/4	BBSM50210
7/32	.2188	1-1/4	2-3/8	BBSM50211
15/64	.2344	1-5/16	2-7/16	BBSM50212
1/4	.2500	1-3/8	2-1/2	BBSM50213
17/64	.2656	1-7/16	2-5/8	BBSM50214
9/32	.2812	1-1/2	2-11/16	BBSM50215

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
19/64	.2969	1-9/16	2-3/4	BBSM50216
5/16	.3125	1-5/8	2-13/16	BBSM50217
21/64	.3281	1-11/16	2-15/16	BBSM50218
11/32	.3438	1-11/16	3	BBSM50219
23/64	.3594	1-3/4	3-1/16	BBSM50220
3/8	.3750	1-13/16	3-1/8	BBSM50221
25/64	.3906	1-7/8	3-1/4	BBSM50222
13/32	.4062	1-15/16	3-5/16	BBSM50223
27/64	.4219	2	3-3/8	BBSM50224
7/16	.4375	2-1/16	3-7/16	BBSM50225
29/64	.4531	2-1/8	3-9/16	BBSM50226
15/32	.4688	2-1/8	3-5/8	BBSM50227
31/64	.4844	2-3/16	3-11/16	BBSM50228
1/2	.5000	2-1/4	3-3/4	BBSM50229

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1	.2280	1-5/16	2-7/16	BBSM60301
2	.2210	1-5/16	2-7/16	BBSM60302
3	.2130	1-1/4	2-3/8	BBSM60303
4	.2090	1-1/4	2-3/8	BBSM60304
5	.2055	1-1/4	2-3/8	BBSM60305
6	.2040	1-1/4	2-3/8	BBSM60306
7	.2010	1-3/16	2-1/4	BBSM60307
8	.1990	1-3/16	2-1/4	BBSM60308
9	.1960	1-3/16	2-1/4	BBSM60309
10	.1935	1-3/16	2-1/4	BBSM60310
11	.1910	1-3/16	2-1/4	BBSM60311
12	.1890	1-3/16	2-1/4	BBSM60312
13	.1850	1-1/8	2-3/16	BBSM60313
14	.1820	1-1/8	2-3/16	BBSM60314
15	.1800	1-1/8	2-3/16	BBSM60315
16	.1770	1-1/8	2-3/16	BBSM60316
17	.1730	1-1/8	2-3/16	BBSM60317
18	.1695	1-1/16	2-1/8	BBSM60318
19	.1660	1-1/16	2-1/8	BBSM60319
20	.1610	1-1/16	2-1/8	BBSM60320

12 per envelope

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
21	.1590	1-1/16	2-1/8	BBSM60321
22	.1570	1-1/16	2-1/8	BBSM60322
23	.1540	1	2-1/16	BBSM60323
24	.1520	1	2-1/16	BBSM60324
25	.1495	1	2-1/16	BBSM60325
26	.1470	1	2-1/16	BBSM60326
27	.1440	1	2-1/16	BBSM60327
28	.1405	15/16	1-15/16	BBSM60328
29	.1360	15/16	1-15/16	BBSM60329
30	.1285	15/16	1-15/16	BBSM60330
31	.1200	7/8	1-7/8	BBSM60331
32	.1160	7/8	1-7/8	BBSM60332
33	.1130	7/8	1-7/8	BBSM60333
34	.1110	7/8	1-7/8	BBSM60334
35	.1100	7/8	1-7/8	BBSM60335
36	.1065	13/16	1-13/16	BBSM60336
37	.1040	13/16	1-13/16	BBSM60337
38	.1015	13/16	1-13/16	BBSM60338
39	.0995	13/16	1-13/16	BBSM60339
40	.0980	13/16	1-13/16	BBSM60340



SETS

QTY.	SIZES	ALFA USA
		STOCK #
13 Pc.	Metal Index 1/16" - 1/4" by 64ths	BBSM50194
29 Pc.	Metal Index 1/16" - 1/2" by 64ths	BBSM50190

Cobalt Screw Machine Length Drills

Cobalt M42 High-Speed Steel NAS 907, Type J



MADE IN
U. S. A.

**Heavy Duty,
135° Split Point,
Straw Gold Finish**

Features: • Manufactured from heat-resistant cobalt M42 high-speed steel, these drills maintain their cutting ability at temperatures exceeding 1000°F. • Heat-resistant and heavy duty design enables use in the harder, high-tensile strength steels like stainless steel, titanium, armor plate, inconel and other difficult-to-machine materials.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				STOCK #	
1/16	.0625	5/8	1-5/8	SMCO50201	
5/64	.0781	11/16	1-11/16	SMCO50202	
3/32	.0938	3/4	1-3/4	SMCO50203	
7/64	.1094	13/16	1-13/16	SMCO50204	
1/8	.1250	7/8	1-7/8	SMCO50205	
9/64	.1406	15/16	1-15/16	SMCO50206	
5/32	.1562	1	2-1/16	SMCO50207	
11/64	.1719	1-1/16	2-1/8	SMCO50208	
3/16	.1875	1-1/8	2-3/16	SMCO50209	
13/64	.2031	1-3/16	2-1/4	SMCO50210	
7/32	.2188	1-1/4	2-3/8	SMCO50211	
15/64	.2344	1-5/16	2-7/16	SMCO50212	
1/4	.2500	1-3/8	2-1/2	SMCO50213	
17/64	.2656	1-7/16	2-5/8	SMCO50214	
9/32	.2812	1-1/2	2-11/16	SMCO50215	

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				STOCK #	
19/64	.2969	1-9/16	2-11/16	SMCO50216	
5/16	.3125	1-5/8	2-13/16	SMCO50217	
21/64	.3281	1-11/16	2-15/16	SMCO50218	
11/32	.3438	1-11/16	3	SMCO50219	
23/64	.3594	1-3/4	3-1/16	SMCO50220	
3/8	.3750	1-13/16	3-1/8	SMCO50221	
25/64	.3906	1-7/8	3-1/4	SMCO50222	
13/32	.4062	1-15/16	3-5/16	SMCO50223	
27/64	.4219	2	3-3/8	SMCO50224	
7/16	.4375	2-1/16	3-7/16	SMCO50225	
29/64	.4531	2-1/8	3-9/16	SMCO50226	
15/32	.4688	2-1/8	3-5/8	SMCO50227	
31/64	.4844	2-13/16	3-11/16	SMCO50228	
1/2	.5000	2-1/4	3-3/4	SMCO50229	

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope

LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				STOCK #	
A	.234	1-5/16	2-7/16	SMCO60401	
B	.238	1-3/8	2-1/2	SMCO60402	
C	.242	1-3/8	2-1/2	SMCO60403	
D	.246	1-3/8	2-1/2	SMCO60404	
E	.250	1-3/8	2-1/2	SMCO60405	
F	.257	1-7/16	2-5/8	SMCO60406	
G	.261	1-7/16	2-5/8	SMCO60407	
H	.266	1-1/2	2-11/16	SMCO60408	
I	.272	1-1/2	2-11/16	SMCO60409	
J	.277	1-1/2	2-11/16	SMCO60410	
K	.281	1-1/2	2-11/16	SMCO60411	
L	.290	1-9/16	2-3/4	SMCO60412	
M	.295	1-9/16	2-3/4	SMCO60413	

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				STOCK #	
N	.302	1-5/8	2-13/16	SMCO60414	
O	.316	1-11/16	2-15/16	SMCO60415	
P	.323	1-11/16	2-15/16	SMCO60416	
Q	.332	1-11/16	3	SMCO60417	
R	.339	1-11/16	3	SMCO60418	
S	.348	1-3/4	3-1/16	SMCO60419	
T	.358	1-3/4	3-1/16	SMCO60420	
U	.368	1-13/16	3-1/8	SMCO60421	
V	.377	1-7/8	3-1/4	SMCO60422	
W	.386	1-7/8	3-1/4	SMCO60423	
X	.397	1-15/16	3-5/16	SMCO60424	
Y	.404	1-15/16	3-5/16	SMCO60425	
Z	.413	2	3-3/8	SMCO60426	

A to N, 12 per envelope, O to Z, 6 per envelope

WIRE GAGE

Expanded

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				STOCK #	
1	.2280	1-5/16	2-7/16	SMCO60301	
2	.2210	1-5/16	2-7/16	SMCO60302	
3	.2130	1-1/4	2-3/8	SMCO60303	
4	.2090	1-1/4	2-3/8	SMCO60304	
5	.2055	1-1/4	2-3/8	SMCO60305	
6	.2040	1-1/4	2-3/8	SMCO60306	
7	.2010	1-3/16	2-1/4	SMCO60307	
8	.1990	1-3/16	2-1/4	SMCO60308	
9	.1960	1-3/16	2-1/4	SMCO60309	
10	.1935	1-3/16	2-1/4	SMCO60310	
11	.1910	1-3/16	2-1/4	SMCO60311	
12	.1890	1-3/16	2-1/4	SMCO60312	
13	.1850	1-1/8	2-3/16	SMCO60313	
14	.1820	1-1/8	2-3/16	SMCO60314	
15	.1800	1-1/8	2-3/16	SMCO60315	
16	.1770	1-1/8	2-3/16	SMCO60316	
17	.1730	1-1/8	2-3/16	SMCO60317	
18	.1695	1-1/16	2-1/8	SMCO60318	
19	.1660	1-1/16	2-1/8	SMCO60319	
20	.1610	1-1/16	2-1/8	SMCO60320	
21	.1590	1-1/16	2-1/8	SMCO60321	
22	.1570	1-1/16	2-1/8	SMCO60322	
23	.1540	1	2-1/16	SMCO60323	
24	.1520	1	2-1/16	SMCO60324	
25	.1495	1	2-1/16	SMCO60325	
26	.1470	1	2-1/16	SMCO60326	
27	.1440	1	2-1/16	SMCO60327	
28	.1405	15/16	1-15/16	SMCO60328	
29	.1360	15/16	1-15/16	SMCO60329	
30	.1285	15/16	1-15/16	SMCO60330	

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				STOCK #	
31	.1200	7/8	1-7/8	SMCO60331	
32	.1160	7/8	1-7/8	SMCO60332	
33	.1130	7/8	1-7/8	SMCO60333	
34	.1110	7/8	1-7/8	SMCO60334	
35	.1100	7/8	1-7/8	SMCO60335	
36	.1065	13/16	1-13/16	SMCO60336	
37	.1040	13/16	1-13/16	SMCO60337	
38	.1015	13/16	1-13/16	SMCO60338	
39	.0995	13/16	1-13/16	SMCO60339	
40	.0980	13/16	1-13/16	SMCO60340	
41	.0960	13/16	1-13/16	SMCO60341	
42	.0935	3/4	1-3/4	SMCO60342	
43	.0890	3/4	1-3/4	SMCO60343	
44	.0860	3/4	1-3/4	SMCO60344	
45	.0820	3/4	1-3/4	SMCO60345	
46	.0810	3/4	1-3/4	SMCO60346	
47	.0785	3/4	1-3/4	SMCO60347	
48	.0760	11/16	1-11/16	SMCO60348	
49	.0730	11/16	1-11/16	SMCO60349	
50	.0700	11/16	1-11/16	SMCO60350	
51	.0670	11/16	1-11/16	SMCO60351	
52	.0635	11/16	1-11/16	SMCO60352	
*53	.0595	5/8	1-5/8	SMCO60353	
*54	.0550	5/8	1-5/8	SMCO60354	
*55	.0520	5/8	1-5/8	SMCO60355	
*56	.0465	1/2	1-3/8	SMCO60356	
*57	.0430	1/2	1-3/8	SMCO60357	
*58	.0420	1/2	1-3/8	SMCO60358	
*59	.0410	1/2	1-3/8	SMCO60359	
*60	.0400	1/2	1-3/8	SMCO60360	

12 per envelope

* #53 - #60 drills do not have a split point

Aircraft Extension Drills

**High-Speed Steel
NAS 907, Type B**

MADE IN

U. S. A.



**135° Split Point
With Jobber Flute Length
Black Oxide**

Features:

- For drilling applications where extra length for reach is required.
- Flute length is the same as a standard jobber drill.
- 135° split point is self-centering and reduces thrust.

6" OVERALL LENGTH

FRACTIONAL

WIRE GAGE – Cont.

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OAL	STOCK #	
				ENVELOPED	POUCHED
*3/64	.0469	3/4	6	AE60600	AE60600P
1/16	.0625	7/8	6	AE60601	AE60601P
5/64	.0781	1	6	AE60602	AE60602P
3/32	.0938	1-1/4	6	AE60603	AE60603P
7/64	.1094	1-1/2	6	AE60604	AE60604P
1/8	.1250	1-5/8	6	AE60605	AE60605P
9/64	.1406	1-3/4	6	AE60606	AE60606P
5/32	.1562	2	6	AE60607	AE60607P
11/64	.1719	2-1/8	6	AE60608	AE60608P
3/16	.1875	2-5/16	6	AE60609	AE60609P
13/64	.2031	2-7/16	6	AE60610	AE60610P
7/32	.2188	2-1/2	6	AE60611	AE60611P
15/64	.2344	2-5/8	6	AE60612	AE60612P
1/4	.2500	2-3/4	6	AE60613	AE60613P
17/64	.2656	2-7/8	6	AE60614	AE60614P
9/32	.2812	2-15/16	6	AE60615	AE60615P
19/64	.2969	3-1/16	6	AE60616	AE60616P
5/16	.3125	3-3/16	6	AE60617	AE60617P
21/64	.3281	3-5/16	6	AE60618	AE60618P
11/32	.3438	3-7/16	6	AE60619	AE60619P
23/64	.3594	3-1/2	6	AE60620	AE60620P
3/8	.3750	3-5/8	6	AE60621	AE60621P
25/64	.3906	3-3/4	6	AE60622	AE60622P
13/32	.4062	3-7/8	6	AE60623	AE60623P
27/64	.4219	3-15/16	6	AE60624	AE60624P
7/16	.4375	4-1/16	6	AE60625	AE60625P
29/64	.4531	4-3/16	6	AE60626	AE60626P
15/32	.4688	4-5/16	6	AE60627	AE60627P
31/64	.4844	4-3/8	6	AE60628	AE60628P
1/2	.5000	4-1/2	6	AE60629	AE60629P

LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
A	.234	2-5/8	6	AE60685
B	.238	2-3/4	6	AE60686
C	.242	2-3/4	6	AE60687
D	.246	2-3/4	6	AE60688
E	.250	2-3/4	6	AE60689
F	.257	2-7/8	6	AE60690

WIRE GAGE

1	.2280	2-5/8	6	AE60641
2	.2210	2-5/8	6	AE60642
3	.2130	2-1/2	6	AE60643
4	.2090	2-1/2	6	AE60644
5	.2055	2-1/2	6	AE60645
6	.2040	2-1/2	6	AE60646
7	.2010	2-7/16	6	AE60647
8	.1990	2-7/16	6	AE60648
9	.1960	2-7/16	6	AE60649

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
10	.1935	2-7/16	6	AE60650
11	.1910	2-5/16	6	AE60651
12	.1890	2-5/16	6	AE60652
13	.1850	2-5/16	6	AE60653
14	.1820	2-3/16	6	AE60654
15	.1800	2-3/16	6	AE60655
16	.1770	2-3/16	6	AE60656
17	.1730	2-3/16	6	AE60657
18	.1695	2-1/8	6	AE60658
19	.1660	2-1/8	6	AE60659
20	.1610	2-1/8	6	AE60660
21	.1590	2-1/8	6	AE60661
22	.1570	2	6	AE60662
23	.1540	2	6	AE60663
24	.1520	2	6	AE60664
25	.1495	1-7/8	6	AE60665
26	.1470	1-7/8	6	AE60666
27	.1440	1-7/8	6	AE60667
28	.1405	1-3/4	6	AE60668
29	.1360	1-3/4	6	AE60669
30	.1285	1-5/8	6	AE60670
31	.1200	1-5/8	6	AE60671
32	.1160	1-5/8	6	AE60672
33	.1130	1-1/2	6	AE60673
34	.1110	1-1/2	6	AE60674
35	.1100	1-1/2	6	AE60675
36	.1065	1-7/16	6	AE60676
37	.1040	1-7/16	6	AE60677
38	.1015	1-7/16	6	AE60678
39	.0995	1-3/8	6	AE60679
40	.0980	1-3/8	6	AE60680
41	.0960	1-3/8	6	AE60681
42	.0935	1-1/4	6	AE60682
43	.0890	1-1/4	6	AE60683
44	.0860	1-1/8	6	AE60684
45	.0820	1-1/8	6	AE60685A
46	.0810	1-1/8	6	AE60686A
47	.0785	1	6	AE60687A
48	.0760	1	6	AE60688A
49	.0730	1	6	AE60689A
50	.0700	1	6	AE60690A
51	.0670	1	6	AE60691
52	.0635	7/8	6	AE60692
*53	.0595	7/8	6	AE60693
*54	.0550	7/8	6	AE60694
*55	.0520	7/8	6	AE60695
*56	.0465	3/4	6	AE60696
*57	.0430	3/4	6	AE60697
*58	.0420	11/16	6	AE60698
*59	.0410	11/16	6	AE60699
*60	.0400	11/16	6	AE60700

*Not split point

3/64" to 1/4", 12 per envelope, 17/64" to 1/2", 6 per envelope,
A to F, 6 per envelope, #1 - #60, 12 per envelope

Aircraft Extension Drills - Cont.

**High-Speed Steel
NAS 907, Type B**

MADE IN
U. S. A.

**135° Split Point
With Jobber Flute Length
Black Oxide**



Features:

- For drilling applications where extra length for reach is required.
- Flute length is the same as a standard jobber drill.
- 135° split point is self-centering and reduces thrust.

12" OVERALL LENGTH

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OAL	STOCK #	
				ENVELOPED	POUCHED
*3/64	.0469	3/4	12	AE60700A	-
1/16	.0625	7/8	12	AE60701	AE60701P
5/64	.0781	1	12	AE60702	AE60702P
3/32	.0938	1-1/4	12	AE60703	AE60703P
7/64	.1094	1-1/2	12	AE60704	AE60704P
1/8	.1250	1-5/8	12	AE60705	AE60705P
9/64	.1406	1-3/4	12	AE60706	AE60706P
5/32	.1562	2	12	AE60707	AE60707P
11/64	.1719	2-1/8	12	AE60708	AE60708P
3/16	.1875	2-5/16	12	AE60709	AE60709P
13/64	.2031	2-7/16	12	AE60710	AE60710P
7/32	.2188	2-1/2	12	AE60711	AE60711P
15/64	.2344	2-5/8	12	AE60712	AE60712P
1/4	.2500	2-3/4	12	AE60713	AE60713P
17/64	.2656	2-7/8	12	AE60714	AE60714P
9/32	.2812	2-15/16	12	AE60715	AE60715P
19/64	.2969	3-1/16	12	AE60716	AE60716P
5/16	.3125	3-3/16	12	AE60717	AE60717P
21/64	.3281	3-5/16	12	AE60718	AE60718P
11/32	.3438	3-7/16	12	AE60719	AE60719P
23/64	.3594	3-1/2	12	AE60720	AE60720P
3/8	.3750	3-5/8	12	AE60721	AE60721P
25/64	.3906	3-3/4	12	AE60722	AE60722P
13/32	.4062	3-7/8	12	AE60723	AE60723P
27/64	.4219	3-15/16	12	AE60724	AE60724P
7/16	.4375	4-1/16	12	AE60725	AE60725P
29/64	.4531	4-3/16	12	AE60726	AE60726P
15/32	.4688	4-5/16	12	AE60727	AE60727P
31/64	.4844	4-3/8	12	AE60728	AE60728P
1/2	.5000	4-1/2	12	AE60729	AE60729P

LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
A	.234	2-5/8	12	AE60786
B	.238	2-3/4	12	AE60787
C	.242	2-3/4	12	AE60788
D	.246	2-3/4	12	AE60789
E	.250	2-3/4	12	AE60790
F	.257	2-7/8	12	AE60791

WIRE GAGE

1	.2280	2-5/8	12	AE60741
2	.2210	2-5/8	12	AE60742
3	.2130	2-1/2	12	AE60743
4	.2090	2-1/2	12	AE60744
5	.2055	2-1/2	12	AE60745
6	.2040	2-1/2	12	AE60746
7	.2010	2-7/16	12	AE60747
8	.1990	2-7/16	12	AE60748
9	.1960	2-7/16	12	AE60749

WIRE GAGE – Cont.

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
10	.1935	2-7/16	12	AE60750
11	.1910	2-5/16	12	AE60751
12	.1890	2-5/16	12	AE60752
13	.1850	2-5/16	12	AE60753
14	.1820	2-3/16	12	AE60754
15	.1800	2-3/16	12	AE60755
16	.1770	2-3/16	12	AE60756
17	.1730	2-3/16	12	AE60757
18	.1695	2-1/8	12	AE60758
19	.1660	2-1/8	12	AE60759
20	.1610	2-1/8	12	AE60760
21	.1590	2-1/8	12	AE60761
22	.1570	2	12	AE60762
23	.1540	2	12	AE60763
24	.1520	2	12	AE60764
25	.1495	1-7/8	12	AE60765
26	.1470	1-7/8	12	AE60766
27	.1440	1-7/8	12	AE60767
28	.1405	1-3/4	12	AE60768
29	.1360	1-3/4	12	AE60769
30	.1285	1-5/8	12	AE60770
31	.1200	1-5/8	12	AE60771
32	.1160	1-5/8	12	AE60772
33	.1130	1-1/2	12	AE60773
34	.1110	1-1/2	12	AE60774
35	.1100	1-1/2	12	AE60775
36	.1065	1-7/16	12	AE60776
37	.1040	1-7/16	12	AE60777
38	.1015	1-7/16	12	AE60778
39	.0995	1-3/8	12	AE60779
40	.0980	1-3/8	12	AE60780
41	.0960	1-3/8	12	AE60781
42	.0935	1-1/4	12	AE60782
43	.0890	1-1/4	12	AE60783
44	.0860	1-1/8	12	AE60784
45	.0820	1-1/8	12	AE60785
46	.0810	1-1/8	12	AE60786A
47	.0785	1	12	AE60787A
48	.0760	1	12	AE60788A
49	.0730	1	12	AE60789A
50	.0700	1	12	AE60790A
51	.0670	1	12	AE60791A
52	.0635	7/8	12	AE60792
*53	.0595	7/8	12	AE60793
*54	.0550	7/8	12	AE60794
*55	.0520	7/8	12	AE60795
*56	.0465	3/4	12	AE60796
*57	.0430	3/4	12	AE60797
*58	.0420	11/16	12	AE60798
*59	.0410	11/16	12	AE60799
*60	.0400	11/16	12	AE60800

*Not split point

3/64" to 1/4", 6 per envelope, 17/64" to 1/2", 3 per envelope,
A to F, 6 per envelope, #1 - #60, 6 per envelope,

Cobalt Aircraft Extension Drills

**Cobalt High-Speed Steel
NAS 907, Type J**



**135° Split Point
With Jobber Flute Length
Straw Gold Finish**

- Features:**
- Manufactured to National Aerospace Standard 907.
 - Made of heat-resistant Cobalt high-speed steel, these drills are ideal for drilling in tough, high-tensile strength materials, where extra length for reach is required.
 - 135° split point is self-centering and reduces thrust.

6" OVERALL LENGTH

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OAL	STOCK #	
				ENVELOPED	POUCHED
*1/16	.0625	7/8	6	AECO60601	AECO60601P
5/64	.0781	1	6	AECO60602	AECO60602P
3/32	.0938	1-1/4	6	AECO60603	AECO60603P
7/64	.1094	1-1/2	6	AECO60604	AECO60604P
1/8	.1250	1-5/8	6	AECO60605	AECO60605P
9/64	.1406	1-3/4	6	AECO60606	AECO60606P
5/32	.1562	2	6	AECO60607	AECO60607P
11/64	.1719	2-1/8	6	AECO60608	AECO60608P
3/16	.1875	2-5/16	6	AECO60609	AECO60609P
13/64	.2031	2-7/16	6	AECO60610	AECO60610P
7/32	.2188	2-1/2	6	AECO60611	AECO60611P
15/64	.2344	2-5/8	6	AECO60612	AECO60612P
1/4	.2500	2-3/4	6	AECO60613	AECO60613P

12" OVERALL LENGTH

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OAL	STOCK #	
				ENVELOPED	POUCHED
1/16	.0625	7/8	12	AECO60701	AECO60701P
5/64	.0781	1	12	AECO60702	AECO60702P
3/32	.0938	1-1/4	12	AECO60703	AECO60703P
7/64	.1094	1-1/2	12	AECO60704	AECO60704P
1/8	.1250	1-5/8	12	AECO60705	AECO60705P
9/64	.1406	1-3/4	12	AECO60706	AECO60706P
5/32	.1562	2	12	AECO60707	AECO60707P
11/64	.1719	2-1/8	12	AECO60708	AECO60708P
3/16	.1875	2-5/16	12	AECO60709	AECO60709P
13/64	.2031	2-7/16	12	AECO60710	AECO60710P
7/32	.2188	2-1/2	12	AECO60711	AECO60711P
15/64	.2344	2-5/8	12	AECO60712	AECO60712P
1/4	.2500	2-3/4	12	AECO60713	AECO60713P

WIRE GAGE

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1	.2280	2-5/8	6	AECO60631
2	.2210	2-5/8	6	AECO60632
3	.2130	2-1/2	6	AECO60633
4	.2090	2-1/2	6	AECO60634
5	.2055	2-1/2	6	AECO60635
6	.2040	2-1/2	6	AECO60636
7	.2010	2-7/16	6	AECO60637
8	.1990	2-7/16	6	AECO60638
9	.1960	2-7/16	6	AECO60639
10	.1935	2-7/16	6	AECO60640
11	.1910	2-5/16	6	AECO60641
12	.1890	2-5/16	6	AECO60642
13	.1850	2-5/16	6	AECO60643
14	.1820	2-3/16	6	AECO60644
15	.1800	2-3/16	6	AECO60645
16	.1770	2-3/16	6	AECO60646
17	.1730	2-3/16	6	AECO60647
18	.1695	2-1/8	6	AECO60648
19	.1660	2-1/8	6	AECO60649
20	.1610	2-1/8	6	AECO60650
21	.1590	2-1/8	6	AECO60651
22	.1570	2	6	AECO60652
23	.1540	2	6	AECO60653
24	.1520	2	6	AECO60654
25	.1495	1-7/8	6	AECO60655
26	.1470	1-7/8	6	AECO60656
27	.1440	1-7/8	6	AECO60657
28	.1405	1-3/4	6	AECO60658
29	.1360	1-3/4	6	AECO60659
30	.1285	1-5/8	6	AECO60660
31	.1200	1-5/8	6	AECO60661
32	.1160	1-5/8	6	AECO60662
33	.1130	1-1/2	6	AECO60663
34	.1110	1-1/2	6	AECO60664
35	.1100	1-1/2	6	AECO60665
36	.1065	1-7/16	6	AECO60666
37	.1040	1-7/16	6	AECO60667
38	.1015	1-7/16	6	AECO60668
39	.0995	1-3/8	6	AECO60669
40	.0980	1-3/8	6	AECO60670

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1	.2280	2-5/8	12	AECO60731
2	.2210	2-5/8	12	AECO60732
3	.2130	2-1/2	12	AECO60733
4	.2090	2-1/2	12	AECO60734
5	.2055	2-1/2	12	AECO60735
6	.2040	2-1/2	12	AECO60736
7	.2010	2-7/16	12	AECO60737
8	.1990	2-7/16	12	AECO60738
9	.1960	2-7/16	12	AECO60739
10	.1935	2-7/16	12	AECO60740
11	.1910	2-5/16	12	AECO60741
12	.1890	2-5/16	12	AECO60742
13	.1850	2-5/16	12	AECO60743
14	.1820	2-3/16	12	AECO60744
15	.1800	2-3/16	12	AECO60745
16	.1770	2-3/16	12	AECO60746
17	.1730	2-3/16	12	AECO60747
18	.1695	2-1/8	12	AECO60748
19	.1660	2-1/8	12	AECO60749
20	.1610	2-1/8	12	AECO60750
21	.1590	2-1/8	12	AECO60751
22	.1570	2	12	AECO60752
23	.1540	2	12	AECO60753
24	.1520	2	12	AECO60754
25	.1495	1-7/8	12	AECO60755
26	.1470	1-7/8	12	AECO60756
27	.1440	1-7/8	12	AECO60757
28	.1405	1-3/4	12	AECO60758
29	.1360	1-3/4	12	AECO60759
30	.1285	1-5/8	12	AECO60760
31	.1200	1-5/8	12	AECO60761
32	.1160	1-5/8	12	AECO60762
33	.1130	1-1/2	12	AECO60763
34	.1110	1-1/2	12	AECO60764
35	.1100	1-1/2	12	AECO60765
36	.1065	1-7/16	12	AECO60766
37	.1040	1-7/16	12	AECO60767
38	.1015	1-7/16	12	AECO60768
39	.0995	1-3/8	12	AECO60769
40	.0980	1-3/8	12	AECO60770

1/16" to 1/4", 6 per envelope, #1 to #40, 6 per envelope

1/16" to 1/4", 6 per envelope, #1 to #40, 6 per envelope

Extra Long Drills

High-Speed Steel



**Straight Shank,
118° Point
Black Oxide Finish**

- Features:**
- For general purpose drilling in deep hole applications.
 - Designed to perform in a broad range of materials in the iron and steel families.
 - Due to the extra long lengths, these tools feature a heavy-duty construction to assure good performance.

8" OVERALL LENGTH

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/8	.1250	5-1/2	8	LB60205
9/64	.1406	5-1/2	8	LB60206
5/32	.1562	5-1/2	8	LB60207
11/64	.1719	5-1/2	8	LB60208
3/16	.1875	5-1/2	8	LB60209
13/64	.2031	5-1/2	8	LB60210
7/32	.2188	5-1/2	8	LB60211
15/64	.2344	5-1/2	8	LB60212
1/4	.2500	5-1/2	8	LB60213
17/64	.2656	5-1/2	8	LB60214
9/32	.2812	5-1/2	8	LB60215
19/64	.2969	5-1/2	8	LB60216
5/16	.3125	5-1/2	8	LB60217
21/64	.3281	5-1/2	8	LB60218
11/32	.3438	5-1/2	8	LB60219
23/64	.3594	5-1/2	8	LB60220
3/8	.3750	5-1/2	8	LB60221
25/64	.3906	5-1/2	8	LB60222
13/32	.4062	5-1/2	8	LB60223
27/64	.4219	5-1/2	8	LB60224
7/16	.4375	5-1/2	8	LB60225
29/64	.4531	5-1/2	8	LB60226
15/32	.4688	5-1/2	8	LB60227
31/64	.4844	5-1/2	8	LB60228
1/2	.5000	5-1/2	8	LB60229

1/8" to 5/16", 6 per pack, 21/64" to 1/2", 3 per pack

12" OVERALL LENGTH

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/8	.1250	9	12	LB60251
5/32	.1562	9	12	LB60253
3/16	.1875	9	12	LB60255
7/32	.2188	9	12	LB60257
1/4	.2500	9	12	LB60259
9/32	.2812	9	12	LB60261
5/16	.3125	9	12	LB60263
11/32	.3438	9	12	LB60265
3/8	.3750	9	12	LB60267
13/32	.4062	9	12	LB60269
7/16	.4375	9	12	LB60271
15/32	.4688	9	12	LB60273
1/2	.5000	9	12	LB60275
*9/16	.5625	9	12	LB60277
*5/8	.6250	9	12	LB60279

1/8" to 5/16", 6 per pack, 11/32" to 1/2", 3 per pack, 9/16" to 5/8", 1 per pack

*These sizes are straight shank

18" OVERALL LENGTH

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/4	.2500	13	18	LB60909
9/32	.2812	13	18	LB60911
5/16	.3125	13	18	LB60913
11/32	.3438	13	18	LB60915
3/8	.3750	13	18	LB60917
13/32	.4062	13	18	LB60919
7/16	.4375	13	18	LB60921
15/32	.4688	13	18	LB60923
1/2	.5000	13	18	LB60925
*9/16	.5625	13	18	LB60927
*5/8	.6250	13	18	LB60929

1 per pack

*These sizes are straight shank

12" Long Drills with 1/2" Shank

High-Speed Steel

Features:

1/2" Reduced Shank 3 Flat Shank Design

118° Point Bright Finish

- 1/2" reduced shank for use where chuck capacity is limited to 1/2".
- For general purpose drilling in deep hole applications.
- Designed to perform in a broad range of materials in the iron and steel families.



12" OVERALL LENGTH

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
*7/16	.4375	9	12	LB60940
1/2	.5000	9	12	LB60941
9/16	.5625	9	12	LB60942
5/8	.6250	9	12	LB60943
11/16	.6875	9	12	LB60944
3/4	.7500	9	12	LB60945
13/16	.8125	9	12	LB60946
7/8	.8750	9	12	LB60947
1	1.0000	9	12	LB60948
1-1/16	1.0625	9	12	LB60949
1-1/8	1.1250	9	12	LB60950
1-1/4	1.2500	9	12	LB60951

1 per pack

*Has 7/16" Shank

Taper Length Drills

Premium High-Speed Steel

**Straight Shank,
118° Standard Point**



FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/16	.0625	1-3/4	3	TL50301
5/64	.0781	2	3-3/4	TL50302
3/32	.0938	2-1/4	4-1/4	TL50303
7/64	.1094	2-1/2	4-5/8	TL50304
1/8	.1250	2-3/4	5-1/8	TL50305
9/64	.1406	3	5-3/8	TL50306
5/32	.1562	3	5-3/8	TL50307
11/64	.1719	3-3/8	5-3/4	TL50308
3/16	.1875	3-3/8	5-3/4	TL50309
13/64	.2031	3-5/8	6	TL50310
7/32	.2188	3-5/8	6	TL50311
15/64	.2344	3-3/4	6-1/8	TL50312
1/4	.2500	3-3/4	6-1/8	TL50313
17/64	.2656	3-7/8	6-1/4	TL50314
9/32	.2812	3-7/8	6-1/4	TL50315
19/64	.2969	4	6-3/8	TL50316
5/16	.3125	4	6-3/8	TL50317
21/64	.3281	4-1/8	6-1/2	TL50318
11/32	.3438	4-1/8	6-1/2	TL50319
23/64	.3594	4-1/4	6-3/4	TL50320
3/8	.3750	4-1/4	6-3/4	TL50321
25/64	.3906	4-3/8	7	TL50322
13/32	.4062	4-3/8	7	TL50323
27/64	.4219	4-5/8	7-1/4	TL50324
7/16	.4375	4-5/8	7-1/4	TL50325
29/64	.4531	4-3/4	7-1/2	TL50326
15/32	.4688	4-3/4	7-1/2	TL50327
31/64	.4844	4-3/4	7-3/4	TL50328
1/2	.5000	4-3/4	7-3/4	TL50329
33/64	.5156	4-3/4	8	TL50330
17/32	.5312	4-3/4	8	TL50331

Features:

- For general purpose drilling in operations that require a length longer than jobber drill length.
- Designed to perform well in a wide range of materials in the iron and steel families.



Taper Length Drills

A

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
35/64	.5469	4-7/8	8-1/4	TL50332
9/16	.5625	4-7/8	8-1/4	TL50333
37/64	.5781	4-7/8	8-3/4	TL50334
19/32	.5938	4-7/8	8-3/4	TL50335
39/64	.6094	4-7/8	8-3/4	TL50336
5/8	.6250	4-7/8	8-3/4	TL50337
41/64	.6406	5-1/8	9	TL50338
21/32	.6562	5-1/8	9	TL50339
43/64	.6719	5-3/8	9-1/4	TL50340
11/16	.6875	5-3/8	9-1/4	TL50341
45/64	.7031	5-5/8	9-1/2	TL50342
23/32	.7188	5-5/8	9-1/2	TL50343
47/64	.7344	5-7/8	9-3/4	TL50344
3/4	.7500	5-7/8	9-3/4	TL50345
49/64	.7656	6	9-7/8	TL50346
25/32	.7812	6	9-7/8	TL50347
51/64	.7969	6-1/8	10	TL50348
13/16	.8125	6-1/8	10	TL50349
53/64	.8281	6-1/8	10	TL50350
27/32	.8438	6-1/8	10	TL50351
55/64	.8594	6-1/8	10	TL50352
7/8	.8750	6-1/8	10	TL50353
57/64	.8906	6-1/8	10	TL50354
29/32	.9062	6-1/8	10	TL50355
59/64	.9219	6-1/8	10-3/4	TL50356
15/16	.9375	6-1/8	10-3/4	TL50357
61/64	.9531	6-3/8	11	TL50358
31/32	.9688	6-3/8	11	TL50359
63/64	.9844	6-3/8	11	TL50360
1	1.0000	6-3/8	11	TL50361

1/16" to 1/4", 12 per pack, 17/64" to 1/2", 6 per pack
33/64" and above, 1 per pack

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1	.2280	3-3/4	6-1/8	TL51301
2	.2210	3-3/4	6-1/8	TL51302
3	.2130	3-5/8	6	TL51303
4	.2090	3-5/8	6	TL51304
5	.2055	3-5/8	6	TL51305
6	.2040	3-5/8	6	TL51306
7	.2010	3-5/8	6	TL51307
8	.1990	3-5/8	6	TL51308
9	.1960	3-5/8	6	TL51309
10	.1935	3-5/8	6	TL51310
11	.1910	3-5/8	6	TL51311
12	.1890	3-5/8	6	TL51312
13	.1850	3-3/8	5-3/4	TL51313
14	.1820	3-3/8	5-3/4	TL51314
15	.1800	3-3/8	5-3/4	TL51315

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
16	.1770	3-3/8	5-3/4	TL51316
17	.1730	3-3/8	5-3/4	TL51317
18	.1695	3-3/8	5-3/4	TL51318
19	.1660	3-3/8	5-3/4	TL51319
20	.1610	3-3/8	5-3/4	TL51320
21	.1590	3-3/8	5-3/4	TL51321
22	.1570	3-3/8	5-3/4	TL51322
23	.1540	3	5-3/8	TL51323
24	.1520	3	5-3/8	TL51324
25	.1495	3	5-3/8	TL51325
26	.1470	3	5-3/8	TL51326
27	.1440	3	5-3/8	TL51327
28	.1405	3	5-3/8	TL51328
29	.1360	3	5-3/8	TL51329
30	.1285	3	5-3/8	TL51330

1 to 60, 12 per envelope

SETS

QTY.	SIZES	STOCK #
16 Pc.	Metal Index 33/64" - 3/4" by 64ths	TL50391
16 Pc.	49/64" - 1" by 64ths	TL50392
29 Pc.	1/16" - 1/2" by 64ths	TL50393



Continued

Taper Length Drills – Cont.

Premium High-Speed Steel

**Straight Shank,
118° Standard Point**



WIRE GAGE



SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
31	.1200	2-3/4	5-1/8	TL51331
32	.1160	2-3/4	5-1/8	TL51332
33	.1130	2-3/4	5-1/8	TL51333
34	.1110	2-3/4	5-1/8	TL51334
35	.1100	2-3/4	5-1/8	TL51335
36	.1065	2-1/2	4-5/8	TL51336
37	.1040	2-1/2	4-5/8	TL51337
38	.1015	2-1/2	4-5/8	TL51338
39	.0995	2-1/2	4-5/8	TL51339
40	.0980	2-1/2	4-5/8	TL51340
41	.0960	2-1/2	4-5/8	TL51341
42	.0935	2-1/4	4-1/4	TL51342
43	.0890	2-1/4	4-1/4	TL51343
44	.0860	2-1/4	4-1/4	TL51344
45	.0820	2-1/4	4-1/4	TL51345

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
46	.0810	2-1/4	4-1/4	TL51346
47	.0785	2-1/4	4-1/4	TL51347
48	.0760	2	3-3/4	TL51348
49	.0730	2	3-3/4	TL51349
50	.0700	2	3-3/4	TL51350
51	.0670	2	3-3/4	TL51351
52	.0635	2	3-3/4	TL51352
53	.0595	1-3/4	3	TL51353
54	.0550	1-3/4	3	TL51354
55	.0520	1-3/4	3	TL51355
56	.0465	1-1/8	2-1/4	TL51356
57	.0430	1-1/8	2-1/4	TL51357
58	.0420	1-1/8	2-1/4	TL51358
59	.0410	1-1/8	2-1/4	TL51359
60	.0400	1-1/8	2-1/4	TL51360

1 to 60, 12 per envelope

Cobalt M42 Taper Length Drills

Heavy Duty



MADE IN
U. S. A.

**Straight Shank
135° Split Point**

- Features:**
- Manufactured from heat-resistant cobalt M42 High-Speed steel to maintain cutting ability at temperatures exceeding 1000° F.
 - 135° self-centering split point reduces thrust.
 - Heavy duty construction for drilling in tough alloy steels, forgings & castings.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/16	.0625	1-3/4	3	TLCO50301
5/64	.0781	2	3-3/4	TLCO50302
3/32	.0938	2-1/4	4-1/4	TLCO50303
7/64	.1094	2-1/2	4-5/8	TLCO50304
1/8	.1250	2-3/4	5-1/8	TLCO50305
9/64	.1406	3	5-3/8	TLCO50306
5/32	.1562	3	5-3/8	TLCO50307
11/64	.1719	3-3/8	5-3/4	TLCO50308
3/16	.1875	3-3/8	5-3/4	TLCO50309
13/64	.2031	3-5/8	6	TLCO50310
7/32	.2188	3-5/8	6	TLCO50311
15/64	.2344	3-3/4	6-1/8	TLCO50312
1/4	.2500	3-3/4	6-1/8	TLCO50313
17/64	.2656	3-7/8	6-1/4	TLCO50314
9/32	.2812	3-7/8	6-1/4	TLCO50315
19/64	.2969	4	6-3/8	TLCO50316
5/16	.3125	4	6-3/8	TLCO50317
21/64	.3281	4-1/8	6-1/2	TLCO50318
11/32	.3438	4-1/8	6-1/2	TLCO50319
23/64	.3594	4-1/4	6-3/4	TLCO50320
3/8	.3750	4-1/4	6-3/4	TLCO50321
25/64	.3906	4-3/8	7	TLCO50322
13/32	.4062	4-3/8	7	TLCO50323

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
27/64	.4219	4-5/8	7-1/4	TLCO50324
7/16	.4375	4-5/8	7-1/4	TLCO50325
29/64	.4531	4-3/4	7-1/2	TLCO50326
15/32	.4688	4-3/4	7-1/2	TLCO50327
31/64	.4844	4-3/4	7-3/4	TLCO50328
1/2	.5000	4-3/4	7-3/4	TLCO50329
33/64*	.5156	4-3/4	8	TLCO50330
17/32*	.5312	4-3/4	8	TLCO50331
35/64*	.5469	4-7/8	8-1/4	TLCO50332
9/16*	.5625	4-7/8	8-1/4	TLCO50333
37/64*	.5781	4-7/8	8-3/4	TLCO50334
19/32*	.5938	4-7/8	8-3/4	TLCO50335
39/64*	.6094	4-7/8	8-3/4	TLCO50336
5/8*	.6250	4-7/8	8-3/4	TLCO50337
41/64*	.6406	5-1/8	9	TLCO50338
21/32*	.6562	5-1/8	9	TLCO50339
43/64*	.6719	5-3/8	9-1/4	TLCO50340
11/16*	.6875	5-3/8	9-1/4	TLCO50341
45/64*	.7031	5-5/8	9-1/2	TLCO50342
23/32*	.7188	5-5/8	9-1/2	TLCO50343
47/64*	.7344	5-7/8	9-3/4	TLCO50344
3/4*	.7500	5-7/8	9-3/4	TLCO50345

1/16" to 1/4", 12 per envelope, 17/64" to 1/2", 6 per envelope
33/64" & above, 1 per pack *33/64" to 3/4" have notched point

SETS



QTY.	SIZES	STOCK #
16 Pc.	Metal Index 33/64" - 3/4" by 64ths	TLCO50391
29 Pc.	Metal Index 1/16" - 1/2" by 64ths	TLCO50393

1/4" Reduced Shank Drills

High-Speed Steel

MADE IN
U. S. A.



Economy Length

118° Point

Black Oxide Finish



FRACTIONAL

ALFA USA

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
5/16	.3125	2-1/2	4	RS51807A
3/8	.3750	2-1/2	4	RS51815A
7/16	.4375	2-1/2	4	RS51823A
1/2	.5000	2-1/2	4	RS51831A

6 per envelope

Intermediate Length

118° Split Point

Bright Finish



FRACTIONAL

ALFA USA

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
5/16	.3125	2-1/2	3-13/16	RS51835
3/8	.3750	2-7/8	4-1/4	RS51836
7/16	.4375	3-3/8	4-11/16	RS51837
1/2	.5000	3-5/8	5-1/16	RS51838

6 per envelope

Reduced Shank

A



Blitz Bits® - 3/8" Reduced Shank Drills

Engineered for heavy duty work, BLITZ BITS® are high performance drills for production as well as tough maintenance applications.

MADE IN
U. S. A.

Premium High-Speed Steel

Mechanic's Length

135° Split Point, 3 Flats On Shank

Black Oxide & Gold Finish



FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
27/64	.4219	2-7/8	4-7/16	BBML74224R
7/16	.4375	2-15/16	4-1/2	BBML74225R
29/64	.4531	3	4-5/8	BBML74226R
15/32	.4688	3-1/8	4-3/4	BBML74227R
31/64	.4844	3-1/4	4-7/8	BBML74228R
1/2	.5000	3-3/8	5	BBML74229R

6 per envelope, Note: 25/64" and 13/32" fit into a 3/8" capacity chuck.

Premium High-Speed Steel

Jobber Length

135° Split Point

Black Oxide & Gold Finish



FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
25/64	.3906	3-3/4	5-1/8	BFRS74122
13/32	.4062	3-7/8	5-1/4	BFRS74123
27/64	.4219	3-15/16	5-3/8	BFRS74124
7/16	.4375	4-1/16	5-1/2	BFRS74125
29/64	.4531	4-3/16	5-5/8	BFRS74126
15/32	.4688	4-5/16	5-3/4	BFRS74127
31/64	.4844	4-3/8	5-7/8	BFRS74128
1/2	.5000	4-1/2	6	BFRS74129

6 per envelope

These items are available carded. See price list for details.

SETS

QTY.	SIZES	ALFA USA
		STOCK #
15 Pc.	1/16" - 1/2" by 32nds	BBML74293R
29 Pc.	1/16" - 1/2" by 64ths	BBML74290R



See page A80 for 29 Pc. Drill Mug Set

SETS

QTY.	SIZES	ALFA USA
		STOCK #
15 Pc.	1/16" - 1/2" by 32nds	BFRS74193
29 Pc.	1/16" - 1/2" by 64ths	BB74186

3/8" Reduced Shank Drills - Cont.

High-Speed Steel

Jobber Length

118° Point

Black Oxide Finish



MADE IN
U. S. A.

- Features:**
- General purpose drill with a conventional 118° point angle.
 - Designed for drilling in a wide range of materials, equipment and operating conditions.
 - Typical applications include drilling production parts, maintenance jobs and portable drilling.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
25/64	.3906	3-3/4	5-1/8	RS151851
13/32	.4062	3-7/8	5-1/4	RS151853
27/64	.4219	3-15/16	5-3/8	RS151855
7/16	.4375	4-1/16	5-1/2	RS151857
29/64	.4531	4-3/16	5-5/8	RS151859
15/32	.4688	4-5/16	5-3/4	RS151861
31/64	.4844	4-3/8	5-7/8	RS151863
1/2	.5000	4-1/2	6	RS151865

6 per envelope



These items are available carded.
See price list for details.



SETS

QTY.	SIZES	ALFA USA
		STOCK #
15 Pcs.	1/16" - 1/2" by 32nds	RS150193
29 Pcs.	1/16" - 1/2" by 64ths	RS150186

High-Speed Steel Heavy Duty

Jobber Length

135° Split Point

Black Oxide Finish



- Features:**
- Ideal for portable or machine drilling in low tensile strength alloy steels and for other applications.
 - Meets all aircraft manufacturing standards and features a heavy duty 135° split point for self-centering and quick penetration.
 - Heavy duty web geometry provides added rigidity to resist tensional strain when drilling up to three times the drill diameter.

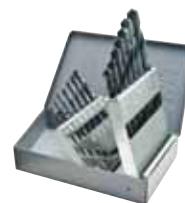
FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
25/64	.3906	3-3/4	5-1/8	RSS151851
13/32	.4062	3-7/8	5-1/4	RSS151853
27/64	.4219	3-15/16	5-3/8	RSS151855
7/16	.4375	4-1/16	5-1/2	RSS151857
29/64	.4531	4-3/16	5-5/8	RSS151859
15/32	.4688	4-5/16	5-3/4	RSS151861
31/64	.4844	4-3/8	5-7/8	RSS151863
1/2	.5000	4-1/2	6	RSS151865

6 per envelope



These items are available carded.
See price list for details.



SETS

QTY.	SIZES	ALFA USA
		STOCK #
15 Pcs.	1/16" - 1/2" by 32nds	RSS150193
29 Pcs.	1/16" - 1/2" by 64ths	RSS150186

Silver & Deming Drills

Super High-Speed Steel

**1/2" Reduced Shank,
Alfa USA, 118° Point
3 Flats On Shank
Black Oxide Finish**



FRACTIONAL

ALFA USA

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
33/64	.5156	3-1/8	6	SD50400
17/32	.5312	3-1/8	6	SD50401
35/64	.5469	3-1/8	6	SD50402
9/16	.5625	3-1/8	6	SD50403
37/64	.5781	3-1/8	6	SD50404
19/32	.5938	3-1/8	6	SD50405
39/64	.6094	3-1/8	6	SD50406
5/8	.6250	3-1/8	6	SD50407
41/64	.6406	3-1/8	6	SD50408
21/32	.6562	3-1/8	6	SD50409
43/64	.6719	3-1/8	6	SD50410
11/16	.6875	3-1/8	6	SD50411
45/64	.7031	3-1/8	6	SD50412
23/32	.7188	3-1/8	6	SD50413
47/64	.7344	3-1/8	6	SD50414
3/4	.7500	3-1/8	6	SD50415
49/64	.7656	3-1/8	6	SD50416A
25/32	.7812	3-1/8	6	SD50416
51/64	.7969	3-1/8	6	SD50417A
13/16	.8125	3-1/8	6	SD50417
53/64	.8281	3-1/8	6	SD50418A
27/32	.8438	3-1/8	6	SD50418
55/64	.8594	3-1/8	6	SD50419A
7/8	.8750	3-1/8	6	SD50419
57/64	.8906	3-1/8	6	SD50420A
29/32	.9062	3-1/8	6	SD50420
59/64	.9219	3-1/8	6	SD50421A
15/16	.9375	3-1/8	6	SD50421
61/64	.9531	3-1/8	6	SD50422A
31/32	.9688	3-1/8	6	SD50422
63/64	.9844	3-1/8	6	SD50423A
1	1.0000	3-1/8	6	SD50423
1-1/64	1.0156	3-1/8	6	SD50424A
1-1/32	1.0312	3-1/8	6	SD50424
1-3/64	1.0469	3-1/8	6	SD50425A
1-1/16	1.0625	3-1/8	6	SD50425
1-5/64	1.0781	3-1/8	6	SD50426A
1-3/32	1.0938	3-1/8	6	SD50426
1-7/64	1.1094	3-1/8	6	SD50427A
1-1/8	1.1250	3-1/8	6	SD50427
1-9/64	1.1406	3-1/8	6	SD50428A
1-5/32	1.1562	3-1/8	6	SD50428
1-11/64	1.1719	3-1/8	6	SD50429A
1-3/16	1.1875	3-1/8	6	SD50429
1-13/64	1.2031	3-1/8	6	SD50430A
1-7/32	1.2188	3-1/8	6	SD50430
1-15/64	1.2344	3-1/8	6	SD50431A
1-1/4	1.2500	3-1/8	6	SD50431
1-9/32	1.2812	3-1/8	6	SD50432
1-5/16	1.3125	3-1/8	6	SD50433
1-11/32	1.3438	3-1/8	6	SD50434
1-3/8	1.3750	3-1/8	6	SD50435
1-25/64	1.3906	3-1/8	6	SD50436A
1-13/32	1.4062	3-1/8	6	SD50436
1-7/16	1.4375	3-1/8	6	SD50437
1-15/32	1.4688	3-1/8	6	SD50438
1-1/2	1.5000	3-1/8	6	SD50439

1 per pack



• ALFA USA drills are made in the United States.



• ECO PRO drills are made outside the United States to ALFA TOOLS' specifications.

MADE IN
U. S. A.



Features:

- Silver and Deming drills are ideal for portable drilling and drill presses, where the maximum chuck capacity is 1/2".
- Precision ground for high degree of concentricity between shank and body diameter.
- Used extensively in machine shops, maintenance departments, garages and body shops.
- Also popular in screw machining centers where a short, rigid drill is desirable.

Not for enlarging existing holes.



SETS

ALFA USA

QTY.	SIZES	ALFA USA STOCK #
5 Pc.	Handy Roll 9/16", 5/8", 3/4", 7/8", 1"	SD50448R
8 Pc.	Molded Plastic Case 9/16" - 1" by 1/16ths	SD50449PL
8 Pc.	Metal Index 9/16" - 1" by 1/16ths	SD50449A
33 Pc.	Metal Stand 1/2" - 1" by 1/64ths	SD50450

QTY.	SIZES	ALFA USA STOCK #
5 Pc.	Handy Roll 9/16", 5/8", 3/4", 7/8", 1"	SD250448R
8 Pc.	Molded Plastic Case 9/16" - 1" by 1/16ths	SD250449PL
8 Pc.	Metal Index 9/16" - 1" by 1/16ths	SD250449A
33 Pc.	Metal Stand 1/2" - 1" by 1/64ths	SD250450



Sizes up to 1" are available carded.
See price list for details.



Blitz Bits® Silver & Deming Drills

Blitz Bits Heavy Duty Premium High-Speed Steel

**1/2" Reduced Shank,
118° Split Point
3 Flats On Shank,
Black & Gold Finish**



FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
33/64	.5156	3-1/8	6	SDBB50400
17/32	.5312	3-1/8	6	SDBB50401
35/64	.5469	3-1/8	6	SDBB50402
9/16	.5625	3-1/8	6	SDBB50403
37/64	.5781	3-1/8	6	SDBB50404
19/32	.5938	3-1/8	6	SDBB50405
39/64	.6094	3-1/8	6	SDBB50406
5/8	.6250	3-1/8	6	SDBB50407
41/64	.6406	3-1/8	6	SDBB50408
21/32	.6562	3-1/8	6	SDBB50409
43/64	.6719	3-1/8	6	SDBB50410
11/16	.6875	3-1/8	6	SDBB50411
45/64	.7031	3-1/8	6	SDBB50412
23/32	.7188	3-1/8	6	SDBB50413
47/64	.7344	3-1/8	6	SDBB50414
3/4	.7500	3-1/8	6	SDBB50415
49/64	.7656	3-1/8	6	SDBB50416A
25/32	.7812	3-1/8	6	SDBB50416
51/64	.7969	3-1/8	6	SDBB50417A
13/16	.8125	3-1/8	6	SDBB50417
53/64	.8281	3-1/8	6	SDBB50418A
27/32	.8438	3-1/8	6	SDBB50418
55/64	.8594	3-1/8	6	SDBB50419A
7/8	.8750	3-1/8	6	SDBB50419
57/64	.8906	3-1/8	6	SDBB50420A
29/32	.9062	3-1/8	6	SDBB50420
59/64	.9219	3-1/8	6	SDBB50421A
15/16	.9375	3-1/8	6	SDBB50421
61/64	.9531	3-1/8	6	SDBB50422A
31/32	.9688	3-1/8	6	SDBB50422
63/64	.9844	3-1/8	6	SDBB50423A
1	1.0000	3-1/8	6	SDBB50423
1-1/16	1.0625	3-1/8	6	SDBB50425
1-1/8	1.1250	3-1/8	6	SDBB50427
1-3/16	1.1875	3-1/8	6	SDBB50429
1-1/4	1.2500	3-1/8	6	SDBB50431
1-5/16	1.3125	3-1/8	6	SDBB50433
1-3/8	1.3750	3-1/8	6	SDBB50435
1-7/16	1.4375	3-1/8	6	SDBB50437
1-1/2	1.5000	3-1/8	6	SDBB50439

1 per pack



Sizes up to 1" are available carded.
See price list for details.

Features:

- Engineered for heavy duty work, BLITZ BITS are high performance drills for production and tough maintenance applications.
- Made from a premium grade of M-7 molybdenum high-speed steel, which has a special black and gold surface treatment to increase lubricity and reduce friction.
- Strong web construction provides greater strength and rigidity to drill in hard-to-drill materials like stainless steel and titanium alloys.
- Buttressed cutting edge, with an acute rake, makes the BLITZ BIT cut cleanly and accurately with less effort. The extra clearance behind the side margin reduces friction, enabling balanced cutting action with closer hole tolerances at higher speeds.
- Silver and Deming drills are ideal for portable drilling and drill presses, where the maximum chuck capacity is 1/2".

Not for enlarging existing holes.



SETS

QTY.	SIZES	ALFA USA
		STOCK #
8 Pcs.	Metal Index 9/16" - 1" by 1/16ths	SDBB50449A
8 Pcs.	Molded Plastic Case 9/16" - 1" by 1/16ths	SDBB50449PL
33 Pcs.	Metal Stand 1/2" - 1" by 1/64ths	SDBB50450

Cobalt M42 Silver & Deming Drills

**Heavy Duty
Super High-Speed Steel**

MADE IN

U. S. A.

**1/2" Reduced Shank,
118° Split Point
3 Flats On Shank,
Straw Gold Finish**



Features:

- Manufactured from heat-resistant cobalt M42 high-speed steel to maintain cutting ability at temperatures exceeding 1000°F.
- Silver and Deming drills are ideal for portable drilling and drill presses, where the maximum chuck capacity is 1/2".
- Used extensively in machine shops, maintenance departments, garages and body shops.
- Also popular in screw machining centers where a short, rigid drill is desirable.

Not for enlarging existing holes.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
33/64	.5156	3-1/8	6	SDCO50400
17/32	.5312	3-1/8	6	SDCO50401
35/64	.5469	3-1/8	6	SDCO50402
9/16	.5625	3-1/8	6	SDCO50403
37/64	.5781	3-1/8	6	SDCO50404
19/32	.5938	3-1/8	6	SDCO50405
39/64	.6094	3-1/8	6	SDCO50406
5/8	.6250	3-1/8	6	SDCO50407
41/64	.6406	3-1/8	6	SDCO50408
21/32	.6562	3-1/8	6	SDCO50409
43/64	.6719	3-1/8	6	SDCO50410
11/16	.6875	3-1/8	6	SDCO50411
45/64	.7031	3-1/8	6	SDCO50412
23/32	.7188	3-1/8	6	SDCO50413
47/64	.7344	3-1/8	6	SDCO50414
3/4	.7500	3-1/8	6	SDCO50415
49/64	.7656	3-1/8	6	SDCO50416A
25/32	.7812	3-1/8	6	SDCO50416
51/64	.7969	3-1/8	6	SDCO50417A
13/16	.8125	3-1/8	6	SDCO50417
53/64	.8281	3-1/8	6	SDCO50418A
27/32	.8438	3-1/8	6	SDCO50418
55/64	.8594	3-1/8	6	SDCO50419A
7/8	.8750	3-1/8	6	SDCO50419
57/64	.8906	3-1/8	6	SDCO50420A
29/32	.9062	3-1/8	6	SDCO50420
59/64	.9219	3-1/8	6	SDCO50421A
15/16	.9375	3-1/8	6	SDCO50421
61/64	.9531	3-1/8	6	SDCO50422A
31/32	.9688	3-1/8	6	SDCO50422
63/64	.9844	3-1/8	6	SDCO50423A
1	1.0000	3-1/8	6	SDCO50423
1-1/16	1.0625	3-1/8	6	SDCO50425
1-1/8	1.1250	3-1/8	6	SDCO50427
1-3/16	1.1875	3-1/8	6	SDCO50429
1-1/4	1.2500	3-1/8	6	SDCO50431
1-5/16	1.3125	3-1/8	6	SDCO50433
1-3/8	1.3750	3-1/8	6	SDCO50435
1-7/16	1.4375	3-1/8	6	SDCO50437
1-1/2	1.5000	3-1/8	6	SDCO50439

1 per pack



Sizes up to 1" are available carded.
See price list for details.



SETS

QTY.	SIZES	ALFA USA
		STOCK #
8 Pcs.	Metal Index 9/16" - 1" by 1/16ths	SDCO50449A
8 Pcs.	Molded Plastic Case 9/16" - 1" by 1/16ths	SDCO50449PL
33 Pcs.	Metal Stand 1/2" - 1" by 1/64ths	SDCO50450

Metric Silver & Deming Drills

Carbide Tipped S & D Drills

Super High-Speed Steel

**1/2" Reduced Shank
118° Point, Black Oxide**

Not for enlarging existing holes.

METRIC

SIZE MM	FLUTE LENGTH	OVERALL LENGTH	STOCK #
12.5	3"	6"	SDM50451
13.0	3"	6"	SDM50453
13.5	3"	6"	SDM50455
14.0	3"	6"	SDM50457
14.5	3"	6"	SDM50459
15.0	3"	6"	SDM50461
15.5	3"	6"	SDM50463
16.0	3"	6"	SDM50465
16.5	3"	6"	SDM50467
17.0	3"	6"	SDM50469
17.5	3"	6"	SDM50471
18.0	3"	6"	SDM50473
18.5	3"	6"	SDM50475
19.0	3"	6"	SDM50477
19.5	3"	6"	SDM50479
20.0	3"	6"	SDM50481
20.5	3"	6"	SDM50483
21.0	3"	6"	SDM50485
21.5	3"	6"	SDM50487
22.0	3"	6"	SDM50489
22.5	3"	6"	SDM50491
23.0	3"	6"	SDM50493
23.5	3"	6"	SDM50495
24.0	3"	6"	SDM50497
24.5	3"	6"	SDM50499
25.0	3"	6"	SDM50500
25.5	3"	6"	SDM50501
26.0	3"	6"	SDM50503
26.5	3"	6"	SDM50505
27.0	3"	6"	SDM50507
27.5	3"	6"	SDM50509
28.0	3"	6"	SDM50511
28.5	3"	6"	SDM50513
29.0	3"	6"	SDM50515
30.0	3"	6"	SDM50519
30.5	3"	6"	SDM50521
31.0	3"	6"	SDM50523

1 per pack



Right Hand Cut

**Silver & Deming
1/2" Reduced Shank
118° Point**

*Also called
"Bowling Ball" drills*



MADE IN
U. S. A.

Features:

- Recommended for drilling carbon blocks, hard plastics, bakelite, stone, composites, brick and asphalt.
- Not recommended where precise hole sizing is required.
- Not recommended for drilling steel.

All sizes
1/2"
(12.7 mm)
shank.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
17/32	.5312	3-7/8"	6"	SDC50401
35/64	.5469	3-7/8"	6"	SDC50402
9/16	.5625	3-7/8"	6"	SDC50403
37/64	.5781	3-7/8"	6"	SDC50404
19/32	.5938	3-7/8"	6"	SDC50405
39/64	.6094	3-7/8"	6"	SDC50406
5/8	.6250	3-7/8"	6"	SDC50407
41/64	.6406	3-7/8"	6"	SDC50408
21/32	.6562	3-7/8"	6"	SDC50409
43/64	.6719	3-7/8"	6"	SDC50410
11/16	.6875	3-7/8"	6"	SDC50411
45/64	.7031	3-7/8"	6"	SDC50412
23/32	.7188	3-7/8"	6"	SDC50413
47/64	.7344	3-7/8"	6"	SDC50414
3/4	.7500	3-7/8"	6"	SDC50415
49/64	.7656	3-7/8"	6"	SDC50416
25/32	.7812	3-7/8"	6"	SDC50417
51/64	.7969	3-7/8"	6"	SDC50418
13/16	.8125	3-7/8"	6"	SDC50419
53/64	.8281	3-7/8"	6"	SDC50420
27/32	.8438	3-7/8"	6"	SDC50421
55/64	.8594	3-7/8"	6"	SDC50422
7/8	.8750	3-7/8"	6"	SDC50423
57/64	.8906	3-7/8"	6"	SDC50424
29/32	.9062	3-7/8"	6"	SDC50425
59/64	.9219	3-7/8"	6"	SDC50426
15/16	.9375	3-7/8"	6"	SDC50427
61/64	.9531	3-7/8"	6"	SDC50428
31/32	.9688	3-7/8"	6"	SDC50429
63/64	.9844	3-7/8"	6"	SDC50430
1	1.0000	3-7/8"	6"	SDC50431
1-1/16	1.0625	3-7/8"	6"	SDC50432
1-1/8	1.1250	3-7/8"	6"	SDC50433
1-1/4	1.2500	3-7/8"	6"	SDC50434
1-3/8	1.3750	3-7/8"	6"	SDC50435

1 per pack

3/4" Silver & Deming Drills

High-Speed Steel

**3/4" Reduced Shank
118° Point, Black Oxide**

Not for enlarging existing holes.



Features: • Ideal for portable drilling and drill presses, where the maximum chuck capacity is 3/4".

- Used extensively in machine shops, maintenance departments, garages and body shops.
- Also popular in screw machining centers where a short, rigid drill is desirable.



FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1	1.0000	3"	6"	RS52423
1-1/16	1.0625	3"	6"	RS52425
1-1/8	1.1250	3"	6"	RS52427
1-3/16	1.8750	3"	6"	RS52429
1-1/4	1.2500	3"	6"	RS52431
1-5/16	1.3125	3"	6"	RS52433
1-3/8	1.3750	3"	6"	RS52435
1-7/16	1.4375	3"	6"	RS52437
1-1/2	1.5000	3"	6"	RS52439

1 per pack

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1-9/16	1.5625	3"	6"	RS52441
1-5/8	1.6250	3"	6"	RS52443
1-11/16	1.6875	3"	6"	RS52445
1-3/4	1.7500	3"	6"	RS52447
1-13/16	1.8125	3"	6"	RS52449
1-7/8	1.8750	3"	6"	RS52451
1-15/16	1.9375	3"	6"	RS52453
2	2.0000	3"	6"	RS52455

Taper Shank Drills

High-Speed Steel

**118° Point
Black Oxide Finish
Morse Taper Shank**



- Features:**
- Made to fit Morse tapered holders, taper shank drills are made to American National Standard dimensions.
 - Designed to give maximum performance in drilling many different materials, under a wide range of applications.

FRACTIONAL REGULAR TAPERS

SIZE	DECIMAL EQUIV.	MT	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/4	.2500	1	2-7/8	6-1/8	TS49993
17/64	.2656	1	3	6-1/4	TS49994
9/32	.2812	1	3	6-1/4	TS49995
19/64	.2969	1	3-1/8	6-3/8	TS49996
5/16	.3125	1	3-1/8	6-3/8	TS49997
21/64	.3281	1	3-1/4	6-1/2	TS49998
11/32	.3438	1	3-1/4	6-1/2	TS49999
23/64	.3594	1	3-1/2	6-3/4	TS50000
3/8	.3750	1	3-1/2	6-3/4	TS50001
25/64	.3906	1	3-5/8	7	TS50002
13/32	.4062	1	3-5/8	7	TS50003
27/64	.4219	1	3-7/8	7-1/4	TS50004
7/16	.4375	1	3-7/8	7-1/4	TS50005
29/64	.4531	1	4-1/8	7-1/2	TS50006
15/32	.4688	1	4-1/8	7-1/2	TS50007
31/64	.4844	1	4-3/8	8-1/4	TS50008
1/2	.5000	2	4-3/8	8-1/4	TS50009
33/64	.5156	2	4-5/8	8-1/2	TS50010
17/32	.5312	2	4-5/8	8-1/2	TS50011
35/64	.5469	2	4-7/8	8-3/4	TS50012
9/16	.5625	2	4-7/8	8-3/4	TS50013
37/64	.5781	2	4-7/8	8-3/4	TS50014
19/32	.5938	2	4-7/8	8-3/4	TS50015
39/64	.6094	2	4-7/8	8-3/4	TS50016
5/8	.6250	2	4-7/8	8-3/4	TS50017
41/64	.6406	2	5-1/8	9	TS50018
21/32	.6562	2	5-1/8	9	TS50019
43/64	.6719	2	5-3/8	9-1/4	TS50020
11/16	.6875	2	5-3/8	9-1/4	TS50021
45/64	.7031	2	5-5/8	9-1/2	TS50022
23/32	.7188	2	5-5/8	9-1/2	TS50023
47/64	.7344	2	5-7/8	9-3/4	TS50024
3/4	.7500	2	5-7/8	9-3/4	TS50025
49/64	.7656	2	6	9-7/8	TS50026
25/32	.7812	2	6	9-7/8	TS50027
51/64	.7969	3	6-1/8	10-3/4	TS50028
13/16	.8125	3	6-1/8	10-3/4	TS50029
53/64	.8281	3	6-1/8	10-3/4	TS50030
27/32	.8438	3	6-1/8	10-3/4	TS50031
55/64	.8594	3	6-1/8	10-3/4	TS50032
7/8	.8750	3	6-1/8	10-3/4	TS50033
57/64	.8906	3	6-1/8	10-3/4	TS50034
29/32	.9062	3	6-1/8	10-3/4	TS50035
59/64	.9219	3	6-1/8	10-3/4	TS50036
15/16	.9375	3	6-1/8	10-3/4	TS50037
61/64	.9531	3	6-3/8	11	TS50038
31/32	.9688	3	6-3/8	11	TS50039
63/64	.9844	3	6-3/8	11	TS50040
1	1.0000	3	6-3/8	11	TS50041
1-1/64	1.0156	3	6-1/2	11-1/8	TS50042

1 per pack

SETS

QTY.	SIZES	STOCK #
16 Pcs.	Metal Index 33/64" - 3/4" by 64ths	TS50098
16 Pcs.	Metal Index 49/64" - 1" by 64ths	TS50099



Taper Shank Drills - Cont.

High-Speed Steel



**118° Point
Black Oxide Finish
Morse Taper Shank**



FRACTIONAL SMALLER / LARGER TAPERS

SIZE	DECIMAL EQUIV.	MT	FLUTE LENGTH	OVERALL LENGTH	STOCK #
3/8	.3750	2	3-1/2	7-3/8	TS50001A
25/64	.3906	2	3-5/8	7-1/2	TS50002A
13/32	.4062	2	3-5/8	7-1/2	TS50003A
27/64	.4219	2	3-7/8	7-3/4	TS50004A
7/16	.4375	2	3-7/8	7-3/4	TS50005A
29/64	.4531	2	4-1/8	8	TS50006A
15/32	.4688	2	4-1/8	8	TS50007A
31/64	.4844	1	4-3/8	7-3/4	TS50008A
1/2	.5000	1	4-3/8	7-3/4	TS50009A
33/64	.5156	1	4-5/8	8	TS50010A
17/32	.5312	1	4-5/8	8	TS50011A
35/64	.5469	1	4-7/8	8-1/4	TS50012A
9/16	.5625	1	4-7/8	8-1/4	TS50013A
21/32	.6562	3	5-1/8	9-3/4	TS50019A
43/64	.6719	3	5-3/8	10	TS50020A
11/16	.6875	3	5-3/8	10	TS50021A
45/64	.7031	3	5-5/8	10-1/4	TS50022A
23/32	.7188	3	5-5/8	10-1/4	TS50023A
47/64	.7344	3	5-7/8	10-1/2	TS50024A
3/4	.7500	3	5-7/8	10-1/2	TS50025A
49/64	.7656	3	6	10-5/8	TS50026A
25/32	.7812	3	6	10-5/8	TS50027A
51/64	.7969	2	6-1/8	10	TS50028A
13/16	.8125	2	6-1/8	10	TS50029A
53/64	.8281	2	6-1/8	10	TS50030A
27/32	.8438	2	6-1/8	10	TS50031A
55/64	.8594	2	6-1/8	10	TS50032A

SIZE	DECIMAL EQUIV.	MT	FLUTE LENGTH	OVERALL LENGTH	STOCK #
7/8	.8750	2	6-1/8	10	TS50033A
57/64	.8906	2	6-1/8	10	TS50034A
29/32	.9062	2	6-1/8	10	TS50035A
1	1.0000	4	6-3/8	12	TS50041A
1	1.0000	2	6-3/8	12	TS50041B
1-1/32	1.0312	4	6-1/2	12-1/8	TS50043A
1-1/16	1.0625	4	6-5/8	12-1/4	TS50045A
1-5/64	1.0781	3	6-7/8	11-1/2	TS50046A
1-3/32	1.0938	3	6-7/8	11-1/2	TS50047A
1-7/64	1.1094	3	7-1/8	11-3/4	TS50048A
1-1/8	1.1250	3	7-1/8	11-3/4	TS50049A
1-9/64	1.1406	3	7-1/4	11-7/8	TS50050A
1-5/32	1.1562	3	7-1/4	11-7/8	TS50051A
1-11/64	1.1719	3	7-3/8	12	TS50052A
1-3/16	1.1875	3	7-3/8	12	TS50053A
1-13/64	1.2031	3	7-1/2	12-1/8	TS50054A
1-7/32	1.2188	3	7-1/2	12-1/8	TS50055A
1-15/64	1.2344	3	7-7/8	12-1/2	TS50056A
1-1/4	1.2500	3	7-7/8	12-1/2	TS50057A
1-5/8	1.6250	4	10	15-5/8	TS50077A
1-11/16	1.6875	4	10-1/8	15-3/4	TS50079A
1-3/4	1.7500	4	10-3/8	16-1/4	TS50081A
1-13/16	1.8125	4	10-3/8	16-1/4	TS50083A
1-7/8	1.8750	4	10-1/2	16-1/2	TS50085A
1-15/16	1.9375	4	10-5/8	16-5/8	TS50087A
2	2.0000	4	10-5/8	16-5/8	TS50089A

1 per pack

Hole Enlarging Core Drills

High-Speed Steel



**4 Flute, 3 Flats On Shank
Black & Gold Finish**



NEW!

Features:

- Specially made for enlarging and finishing existing holes.
- Ideal for use on truck frames, structurals and heavy lattice work.
- Black and gold surface treated body and clearance provides lubricity necessary for close tolerance construction work.

HOLE SIZE	DECIMAL EQUIV.	SHANK SIZE	MINIMUM STARTING HOLE SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
3/8	.3750	3/8	1/4	1-7/8	4-5/16	HED121
1/2	.5000	1/2	5/16	1-7/8	4-5/16	HED129
9/16	.5625	1/2	3/8	1-7/8	4-5/16	HED133
5/8	.6250	1/2	25/64	1-7/8	4-5/16	HED137
11/16	.6875	1/2	7/16	1-7/8	4-5/16	HED141
3/4	.7500	1/2	15/32	1-7/8	4-5/16	HED145
13/16	.8125	1/2	1/2	1-7/8	4-5/16	HED149
7/8	.8750	1/2	17/32	1-7/8	4-5/16	HED153
15/16	.9375	1/2	9/16	1-7/8	4-5/16	HED157
1	1.0000	1/2	5/8	1-7/8	4-5/16	HED161
1-1/16	1.0625	1/2	21/32	1-7/8	4-5/16	HED165

1 per pack

Solid Carbide Twist Drills

Micrograin Solid Carbide



MADE IN
U. S. A.

Heavy Duty 118° Split Point

- Features:**
- Solid carbide drills offer advantages of greater rigidity and closer tolerance in difficult-to-machine materials.
 - Withstands high drilling speeds, temperatures and continuous abrasion.

- For materials such as cast iron, aluminum casting, non-ferrous alloys, hard plastics, rubber, and other abrasive materials.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1/32	.0312	5/16	1-1/4	ST50099
3/64	.0469	3/4	1-1/2	ST50100
1/16	.0625	3/4	1-1/2	ST50101
5/64	.0781	7/8	1-3/4	ST50102
3/32	.0938	1	2	ST50103
7/64	.1094	1-1/4	2-1/4	ST50104
1/8	.1250	1-1/4	2-1/4	ST50105
9/64	.1406	1-3/8	2-1/2	ST50106
5/32	.1562	1-3/8	2-1/2	ST50107
11/64	.1719	1-5/8	2-3/4	ST50108
3/16	.1875	1-5/8	2-3/4	ST50109
13/64	.2031	1-3/4	3	ST50110
7/32	.2188	1-3/4	3	ST50111
15/64	.2344	2	3-1/4	ST50112
1/4	.2500	2	3-1/4	ST50113
17/64	.2656	2-1/8	3-1/2	ST50114

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
9/32	.2812	2-1/8	3-1/2	ST50115
19/64	.2969	2-3/8	3-3/4	ST50116
5/16	.3125	2-3/8	3-3/4	ST50117
21/64	.3281	2-1/2	4	ST50118
11/32	.3438	2-1/2	4	ST50119
23/64	.3594	2-3/4	4-1/4	ST50120
3/8	.3750	2-3/4	4-1/4	ST50121
25/64	.3906	2-7/8	4-1/2	ST50122
13/32	.4062	2-7/8	4-1/2	ST50123
27/64	.4219	2-7/8	4-1/2	ST50124
7/16	.4375	2-7/8	4-1/2	ST50125
29/64	.4531	3	4-3/4	ST50126
15/32	.4688	3	4-3/4	ST50127
31/64	.4844	3	4-3/4	ST50128
1/2	.5000	3	4-3/4	ST50129

1 per pack

LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
A	.234	2	3-1/4	ST60201
B	.238	2	3-1/4	ST60202
C	.242	2	3-1/4	ST60203
D	.246	2	3-1/4	ST60204
E	.250	2	3-1/4	ST60205
F	.257	2	3-1/4	ST60206
G	.261	2-1/8	3-1/2	ST60207
H	.266	2-1/8	3-1/2	ST60208
I	.272	2-1/8	3-1/2	ST60209
J	.277	2-1/8	3-1/2	ST60210
K	.281	2-1/8	3-1/2	ST60211
L	.290	2-1/8	3-1/2	ST60212
M	.295	2-3/8	3-3/4	ST60213

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
N	.302	2-3/8	3-3/4	ST60214
O	.316	2-3/8	3-3/4	ST60215
P	.323	2-3/8	3-3/4	ST60216
Q	.332	2-1/2	4	ST60217
R	.339	2-1/2	4	ST60218
S	.348	2-1/2	4	ST60219
T	.358	2-3/4	4-1/4	ST60220
U	.368	2-3/4	4-1/4	ST60221
V	.377	2-3/4	4-1/4	ST60222
W	.386	2-7/8	4-1/2	ST60223
X	.397	2-7/8	4-1/2	ST60224
Y	.404	2-7/8	4-1/2	ST60225
Z	.413	2-7/8	4-1/2	ST60226

1 per pack

Solid Carbide Twist Drills - Cont.

Micrograin Solid Carbide



MADE IN
U. S. A.

Heavy Duty 118° Split Point

Features:

- Solid carbide drills offer advantages of greater rigidity and closer tolerance in difficult-to-machine materials.
- Withstands high drilling speeds, temperatures and continuous abrasion.

- For materials such as cast iron, aluminum casting, non-ferrous alloys, hard plastics, rubber, and other abrasive materials.

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1	.2280	1-3/4	3	ST60101
2	.2210	1-3/4	3	ST60102
3	.2130	1-3/4	3	ST60103
4	.2090	1-3/4	3	ST60104
5	.2055	1-3/4	3	ST60105
6	.2040	1-3/4	3	ST60106
7	.2010	1-3/4	3	ST60107
8	.1990	1-3/4	3	ST60108
9	.1960	1-3/4	3	ST60109
10	.1935	1-5/8	2-3/4	ST60110
11	.1910	1-5/8	2-3/4	ST60111
12	.1890	1-5/8	2-3/4	ST60112
13	.1850	1-5/8	2-3/4	ST60113
14	.1820	1-5/8	2-3/4	ST60114
15	.1800	1-5/8	2-3/4	ST60115
16	.1770	1-5/8	2-3/4	ST60116
17	.1730	1-5/8	2-3/4	ST60117
18	.1695	1-5/8	2-3/4	ST60118
19	.1660	1-5/8	2-3/4	ST60119
20	.1610	1-3/8	2-1/2	ST60120
21	.1590	1-3/8	2-1/2	ST60121
22	.1570	1-3/8	2-1/2	ST60122
23	.1540	1-3/8	2-1/2	ST60123
24	.1520	1-3/8	2-1/2	ST60124
25	.1495	1-3/8	2-1/2	ST60125
26	.1470	1-3/8	2-1/2	ST60126
27	.1440	1-3/8	2-1/2	ST60127
28	.1405	1-3/8	2-1/2	ST60128
29	.1360	1-3/8	2-1/2	ST60129
30	.1285	1-1/4	2-1/4	ST60130

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
31	.1200	1-1/4	2-1/4	ST60131
32	.1160	1-1/4	2-1/4	ST60132
33	.1130	1-1/4	2-1/4	ST60133
34	.1110	1-1/4	2-1/4	ST60134
35	.1100	1-1/4	2-1/4	ST60135
36	.1065	1-1/4	2-1/4	ST60136
37	.1040	1-1/4	2-1/4	ST60137
38	.1015	1-1/4	2-1/4	ST60138
39	.0995	1-1/4	2-1/4	ST60139
40	.0980	1	2	ST60140
41	.0960	1	2	ST60141
42	.0935	1	2	ST60142
43	.0890	1	2	ST60143
44	.0860	1	2	ST60144
45	.0820	7/8	1-3/4	ST60145
46	.0810	7/8	1-3/4	ST60146
47	.0785	7/8	1-3/4	ST60147
48	.0760	7/8	1-3/4	ST60148
49	.0730	7/8	1-3/4	ST60149
50	.0700	7/8	1-3/4	ST60150
51	.0670	3/4	1-1/2	ST60151
52	.0635	3/4	1-1/2	ST60152
53	.0595	3/4	1-1/2	ST60153
54	.0550	3/4	1-1/2	ST60154
55	.0520	3/4	1-1/2	ST60155
56	.0465	3/4	1-1/2	ST60156
57	.0430	3/4	1-1/2	ST60157
58	.0420	3/4	1-1/2	ST60158
59	.0410	3/4	1-1/2	ST60159
60	.0400	3/4	1-1/2	ST60160

1 per pack

SETS

QTY.	SIZES	ALFA USA
		STOCK #
13 Pcs.	1/16" - 1/4" by 64ths	ST50194
15 Pcs.	1/16" - 1/2" by 32nds	ST50193



QTY.	SIZES	ALFA USA
		STOCK #
21 Pcs.	1/16" - 3/8" by 64ths	ST50192
29 Pcs.	1/16" - 1/2" by 64ths	ST50190

Solid Carbide Straight Flute Drills

**Micrograin
Solid Carbide**



MADE IN
U. S. A.

140° Split Point

- Features:**
- Recommended for drilling in hardened steel and abrasive materials.
 - The high rigidity of the drill enables it to drill a close tolerance hole.
 - Ideal for drilling materials with short, powdery chips.

FRACTIONAL

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1/32	.0313	1/2	1-1/2	SCSF30098
3/64	.0469	1/2	1-1/2	SCSF30099
1/16	.0625	5/8	1-5/8	SCSF30101
5/64	.0781	11/16	1-11/16	SCSF30102
3/32	.0938	3/4	1-3/4	SCSF30103
7/64	.1094	13/16	1-13/16	SCSF30104
1/8	.1250	7/8	1-7/8	SCSF30105
9/64	.1406	15/16	1-15/16	SCSF30106
5/32	.1563	1	2-1/16	SCSF30107
11/64	.1719	1-1/16	2-1/8	SCSF30108
3/16	.1875	1-1/8	2-3/16	SCSF30109
13/64	.2031	1-3/16	2-1/4	SCSF30110
7/32	.2188	1-1/4	2-3/8	SCSF30111
15/64	.2344	1-5/16	2-7/16	SCSF30112
1/4	.2500	1-3/8	2-1/2	SCSF30113
17/64	.2656	1-7/16	2-5/8	SCSF30114

1 per pack

WIRE GAGE

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1	.2280	1-5/16	2-7/16	SCSF30201
2	.2210	1-5/16	2-7/16	SCSF30202
3	.2130	1-1/4	2-3/8	SCSF30203
4	.2090	1-1/4	2-3/8	SCSF30204
5	.2055	1-1/4	2-3/8	SCSF30205
6	.2040	1-1/4	2-3/8	SCSF30206
7	.2010	1-3/16	2-1/4	SCSF30207
8	.1990	1-3/16	2-1/4	SCSF30208
9	.1960	1-3/16	2-1/4	SCSF30209
10	.1935	1-3/16	2-1/4	SCSF30210
11	.1910	1-3/16	2-1/4	SCSF30211
12	.1890	1-3/16	2-1/4	SCSF30212
13	.1850	1-1/8	2-3/16	SCSF30213
14	.1820	1-1/8	2-3/16	SCSF30214
15	.1800	1-1/8	2-3/16	SCSF30215
16	.1770	1-1/8	2-3/16	SCSF30216
17	.1730	1-1/8	2-3/16	SCSF30217
18	.1695	1-1/16	2-1/8	SCSF30218
19	.1660	1-1/16	2-1/8	SCSF30219
20	.1610	1-1/16	2-1/8	SCSF30220
21	.1590	1-1/16	2-1/8	SCSF30221
22	.1570	1-1/16	2-1/8	SCSF30222
23	.1540	1	2-1/16	SCSF30223
24	.1520	1	2-1/16	SCSF30224
25	.1495	1	2-1/16	SCSF30225
26	.1470	1	2-1/16	SCSF30226
27	.1440	1	2-1/16	SCSF30227
28	.1405	15/16	1-15/16	SCSF30228
29	.1360	15/16	1-15/16	SCSF30229
30	.1285	15/16	1-15/16	SCSF30230

1 per pack

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
31	.1200	7/8	1-7/8	SCSF30231
32	.1160	7/8	1-7/8	SCSF30232
33	.1130	7/8	1-7/8	SCSF30233
34	.1110	7/8	1-7/8	SCSF30234
35	.1100	7/8	1-7/8	SCSF30235
36	.1065	13/16	1-13/16	SCSF30236
37	.1040	13/16	1-13/16	SCSF30237
38	.1015	13/16	1-13/16	SCSF30238
39	.0995	13/16	1-13/16	SCSF30239
40	.0980	13/16	1-13/16	SCSF30240
41	.0960	13/16	1-13/16	SCSF30241
42	.0935	3/4	1-3/4	SCSF30242
43	.0890	3/4	1-3/4	SCSF30243
44	.0860	3/4	1-3/4	SCSF30244
45	.0820	3/4	1-3/4	SCSF30245
46	.0810	3/4	1-3/4	SCSF30246
47	.0785	3/4	1-3/4	SCSF30247
48	.0760	11/16	1-11/16	SCSF30248
49	.0730	11/16	1-11/16	SCSF30249
50	.0700	11/16	1-11/16	SCSF30250
51	.0670	11/16	1-11/16	SCSF30251
52	.0635	11/16	1-11/16	SCSF30252
53	.0595	1/2	1-1/2	SCSF30253
54	.0550	1/2	1-1/2	SCSF30254
55	.0520	1/2	1-1/2	SCSF30255
56	.0465	1/2	1-1/2	SCSF30256
57	.0430	1/2	1-1/2	SCSF30257
58	.0420	1/2	1-1/2	SCSF30258
59	.0410	1/2	1-1/2	SCSF30259
60	.0400	1/2	1-1/2	SCSF30260

Solid Carbide Straight Flute Drills - Cont.

**Micrograin
Solid Carbide**



MADE IN
U. S. A.

140° Split Point

- Features:**
- Recommended for drilling in hardened steel and abrasive materials.
 - The high rigidity of the drill enables it to drill a close tolerance hole.
 - Ideal for drilling materials with short, powdery chips.

LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
A	.2340	1-5/16	2-7/16	SCSF30301
B	.2380	1-3/8	2-1/2	SCSF30302
C	.2420	1-3/8	2-1/2	SCSF30303
D	.2460	1-3/8	2-1/2	SCSF30304
E	.2500	1-3/8	2-1/2	SCSF30305
F	.2570	1-7/16	2-5/8	SCSF30306
G	.2610	1-7/16	2-5/8	SCSF30307
H	.2660	1-1/2	2-11/16	SCSF30308
I	.2720	1-1/2	2-11/16	SCSF30309
J	.2770	1-1/2	2-11/16	SCSF30310
K	.2810	1-1/2	2-11/16	SCSF30311
L	.2900	1-9/16	2-3/4	SCSF30312
M	.2950	1-9/16	2-3/4	SCSF30313

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
N	.3020	1-5/8	2-13/16	SCSF30314
O	.3160	1-11/16	2-15/16	SCSF30315
P	.3230	1-11/16	2-15/16	SCSF30316
Q	.3320	1-11/16	3	SCSF30317
R	.3390	1-11/16	3	SCSF30318
S	.3480	1-3/4	3-1/16	SCSF30319
T	.3580	1-3/4	3-1/16	SCSF30320
U	.3680	1-13/16	3-1/8	SCSF30321
V	.3770	1-7/8	3-1/4	SCSF30322
W	.3860	1-7/8	3-1/4	SCSF30323
X	.3970	1-15/16	3-5/16	SCSF30324
Y	.4040	1-15/16	3-5/16	SCSF30325
Z	.4130	2	3-3/8	SCSF30326

1 per pack

**Solid Carbide Straight Flute Drills
Solid Carbide Three Fluted Drills**

A

Solid Carbide Three Fluted Drills

Solid Carbide

MADE IN
U. S. A.

150° Point



- Features:**
- 3 flute solid carbide drills can produce smooth straight cuts which may reduce the need for reaming.
 - The 150° self-centering point eliminates the need for spot drilling.
 - Can be used for core drilling.
 - Applications include titanium, cast iron, high silicon low alloy steel and non-ferrous metals.

FRACTIONAL

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1/8	0.1250	1-1/4	2-1/4	SCTF30805
9/64	0.1406	1-3/8	2-1/2	SCTF30806
5/32	0.1562	1-3/8	2-1/2	SCTF30807
11/64	0.1719	1-5/8	2-3/4	SCTF30808
3/16	0.1875	1-5/8	2-3/4	SCTF30809
13/64	0.2031	1-3/4	3	SCTF30810
7/32	0.2188	1-3/4	3	SCTF30811
15/64	0.2344	2	3-1/4	SCTF30812
1/4	0.2500	2	3-1/4	SCTF30813
17/64	0.2656	2-1/8	3-1/2	SCTF30814
9/32	0.2812	2-1/8	3-1/2	SCTF30815
19/64	0.2969	2-3/8	3-3/4	SCTF30816
5/16	0.3125	2-3/8	3-3/4	SCTF30817

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
21/64	0.3281	2-1/2	4	SCTF30818
11/32	0.3438	2-1/2	4	SCTF30819
23/64	0.3594	2-3/4	4-1/4	SCTF30820
3/8	0.3750	2-3/4	4-1/4	SCTF30821
25/64	0.3906	2-7/8	4-1/2	SCTF30822
13/32	0.4062	2-7/8	4-1/2	SCTF30823
27/64	0.4219	2-7/8	4-1/2	SCTF30824
7/16	0.4375	2-7/8	4-1/2	SCTF30825
29/64	0.4531	3	4-3/4	SCTF30826
15/32	0.4688	3	4-3/4	SCTF30827
31/64	0.4844	3	4-3/4	SCTF30828
1/2	0.5000	3	4-3/4	SCTF30829

1 per pack

A-51

Solid Carbide Screw Machine Drills

**Micrograin
Solid Carbide**



MADE IN
U. S. A.

Solid Carbide Screw Machine Drills

A

**Heavy Duty
135° Drill Point
Slow Helix**

- Features:**
- Slow helix.
 - Split point improves penetration.
 - Shorter flute and overall length increases rigidity, resulting in less deflection, better hole accuracy, and longer drill life.
 - Can withstand high drilling speeds and temperatures.
 - Suited for materials such as nickel and chrome alloys, steel weldments, titanium alloys and stainless steel.

FRACTIONAL

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1/16	.0625	5/8	1-5/8	SCSM70201
5/64	.0781	11/16	1-11/16	SCSM70202
3/32	.0938	3/4	1-3/4	SCSM70203
7/64	.1094	13/16	1-13/16	SCSM70204
1/8	.1250	7/8	1-7/8	SCSM70205
9/64	.1406	15/16	1-15/16	SCSM70206
5/32	.1562	1	2-1/16	SCSM70207
11/64	.1719	1-1/16	2-1/8	SCSM70208
3/16	.1875	1-1/8	2-3/16	SCSM70209
13/64	.2031	1-3/16	2-1/4	SCSM70210
7/32	.2188	1-1/4	2-3/8	SCSM70211
15/64	.2344	1-5/16	2-7/16	SCSM70212
1/4	.2500	1-3/8	2-1/2	SCSM70213
17/64	.2656	1-7/16	2-5/8	SCSM70214
9/32	.2812	1-1/2	2-11/16	SCSM70215

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
19/64	.2969	1-9/16	2-3/4	SCSM70216
5/16	.3125	1-5/8	2-13/16	SCSM70217
21/64	.3281	1-11/16	2-15/16	SCSM70218
11/32	.3438	1-11/16	3	SCSM70219
23/64	.3594	1-3/4	3-1/16	SCSM70220
3/8	.3750	1-13/16	3-1/8	SCSM70221
25/64	.3906	1-7/8	3-1/4	SCSM70222
13/32	.4062	1-15/16	3-5/16	SCSM70223
27/64	.4219	2	3-3/8	SCSM70224
7/16	.4375	2-1/16	3-7/16	SCSM70225
29/64	.4531	2-1/8	3-9/16	SCSM70226
15/32	.4688	2-1/8	3-5/8	SCSM70227
31/64	.4844	2-3/16	3-11/16	SCSM70228
1/2	.5000	2-1/4	3-3/4	SCSM70229

1 per pack

WIRE GAGE

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
1	.2280	1-5/16	2-7/16	SCSM70301
2	.2210	1-5/16	2-7/16	SCSM70302
3	.2130	1-1/4	2-3/8	SCSM70303
4	.2090	1-1/4	2-3/8	SCSM70304
5	.2055	1-1/4	2-3/8	SCSM70305
6	.2040	1-1/4	2-3/8	SCSM70306
7	.2010	1-3/16	2-1/4	SCSM70307
8	.1990	1-3/16	2-1/4	SCSM70308
9	.1960	1-3/16	2-1/4	SCSM70309
10	.1935	1-3/16	2-1/4	SCSM70310
11	.1910	1-3/16	2-1/4	SCSM70311
12	.1890	1-3/16	2-1/4	SCSM70312
13	.1850	1-1/8	2-3/16	SCSM70313
14	.1820	1-1/8	2-3/16	SCSM70314
15	.1800	1-1/8	2-3/16	SCSM70315
16	.1770	1-1/8	2-3/16	SCSM70316
17	.1730	1-1/8	2-3/16	SCSM70317
18	.1695	1-1/16	2-1/8	SCSM70318
19	.1660	1-1/16	2-1/8	SCSM70319
20	.1610	1-1/16	2-1/8	SCSM70320
21	.1590	1-1/16	2-1/8	SCSM70321
22	.1570	1-1/16	2-1/8	SCSM70322
23	.1540	1	2-1/16	SCSM70323
24	.1520	1	2-1/16	SCSM70324
25	.1495	1	2-1/16	SCSM70325
26	.1470	1	2-1/16	SCSM70326
27	.1440	1	2-1/16	SCSM70327
28	.1405	15/16	1-15/16	SCSM70328

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
29	.1360	15/16	1-15/16	SCSM70329
30	.1285	15/16	1-15/16	SCSM70330
31	.1200	7/8	1-7/8	SCSM70331
32	.1160	7/8	1-7/8	SCSM70332
33	.1130	7/8	1-7/8	SCSM70333
34	.1110	7/8	1-7/8	SCSM70334
35	.1100	7/8	1-7/8	SCSM70335
36	.1065	13/16	1-13/16	SCSM70336
37	.1040	13/16	1-13/16	SCSM70337
38	.1015	13/16	1-13/16	SCSM70338
39	.0995	13/16	1-13/16	SCSM70339
40	.0980	13/16	1-13/16	SCSM70340
41	.0960	13/16	1-13/16	SCSM70341
42	.0935	3/4	1-3/4	SCSM70342
43	.0890	3/4	1-3/4	SCSM70343
44	.0860	3/4	1-3/4	SCSM70344
45	.0820	3/4	1-3/4	SCSM70345
46	.0810	3/4	1-3/4	SCSM70346
47	.0785	3/4	1-3/4	SCSM70347
48	.0760	11/16	1-11/16	SCSM70348
49	.0730	11/16	1-11/16	SCSM70349
50	.0700	11/16	1-11/16	SCSM70350
51	.0670	11/16	1-11/16	SCSM70351
52	.0635	11/16	1-11/16	SCSM70352
53	.0595	1/2	1-1/2	SCSM70353
54	.0550	1/2	1-1/2	SCSM70354
55	.0520	1/2	1-1/2	SCSM70355
56	.0465	1/2	1-1/2	SCSM70356

1 per pack

Solid Carbide Screw Machine Drills - Cont.

Micrograin Solid Carbide

MADE IN
U. S. A.



Heavy Duty 135° Drill Point Slow Helix

- Features:**
- Slow helix.
 - Split point improves penetration.
 - Shorter flute and overall length increases rigidity, resulting in less deflection, better hole accuracy, and longer drill life.
 - Can withstand high drilling speeds and temperatures.
 - Suited for materials such as nickel and chrome alloys, steel weldments, titanium alloys and stainless steel.

LETTER

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
A	.234	1-5/16	2-7/16	SCSM70401
B	.238	1-3/8	2-1/2	SCSM70402
C	.242	1-3/8	2-1/2	SCSM70403
D	.246	1-3/8	2-1/2	SCSM70404
E	.250	1-3/8	2-1/2	SCSM70405
F	.257	1-7/16	2-5/8	SCSM70406
G	.261	1-7/16	2-5/8	SCSM70407
H	.266	1-1/2	2-11/16	SCSM70408
I	.272	1-1/2	2-11/16	SCSM70409
J	.277	1-1/2	2-11/16	SCSM70410
K	.281	1-1/2	2-11/16	SCSM70411
L	.290	1-9/16	2-3/4	SCSM70412
M	.295	1-9/16	2-3/4	SCSM70413

1 per pack

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
N	.302	1-5/8	2-13/16	SCSM70414
O	.316	1-11/16	2-15/16	SCSM70415
P	.323	1-11/16	2-15/16	SCSM70416
Q	.332	1-11/16	3	SCSM70417
R	.339	1-11/16	3	SCSM70418
S	.348	1-3/4	3-1/16	SCSM70419
T	.358	1-3/4	3-1/16	SCSM70420
U	.368	1-13/16	3-1/8	SCSM70421
V	.377	1-7/8	3-1/4	SCSM70422
W	.386	1-7/8	3-1/4	SCSM70423
X	.397	1-15/16	3-5/16	SCSM70424
Y	.404	1-15/16	3-5/16	SCSM70425
Z	.413	2	3-3/8	SCSM70426

Solid Carbide Spade Drills

Micrograin Solid Carbide

MADE IN
U. S. A.



118° Point

- Features:**
- Premium micrograin carbide.
 - Performs well in hard to machine materials, high temperature alloys, glass and plastics
 - Recommended for shallow hole drilling.
 - Drilling depth should not exceed 2 times the drill diameter.

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	WEB THICK AT POINT	POINT ANGLE	STOCK #
1/32	.0312	3/16	1-1/4	.010	6	SCSD0998
3/64	.0469	7/32	1-1/2	.012	10	SCSD0999
1/16	.0625	5/16	1-1/2	.015	10	SCSD1001
3/32	.0938	3/8	1-1/2	.016	12	SCSD1003
1/8	.1250	7/16	1-1/2	.020	14	SCSD1005
5/32	.1562	15/32	2	.025	16	SCSD1007
3/16	.1875	9/16	2	.028	18	SCSD1009
7/32	.2188	19/32	2	.030	18	SCSD1011
1/4	.2500	11/16	2	.035	18	SCSD1013
9/32	.2812	3/4	2-1/2	.038	18	SCSD1015
5/16	.3125	7/8	2-1/2	.040	18	SCSD1017
11/32	.3438	15/16	2-1/2	.042	18	SCSD1019
3/8	.3750	1	2-1/2	.046	18	SCSD1021
13/32	.4062	1	2-1/2	.048	20	SCSD1023
7/16	.4375	1-1/16	2-1/2	.050	20	SCSD1025
15/32	.4688	1-1/8	2-1/2	.055	21	SCSD1027
1/2	.5000	1-1/8	2-1/2	.060	21	SCSD1029

1 per pack

Solid Carbide Screw Machine Drills
Solid Carbide Spade Drills

A

ProBits™ Step Drills with Hex Shanks

**High-Speed Steel
Professional Quality**

**1/4" Hex Power Shank
2 Flutes
Bright Finish,
TiN Coated Or Cobalt**

Features:

- Eliminates "walking" and the need for centerpunching.
- Non-skid tip gives instant start even on curved surfaces.

**Alfa Tools
Patent #5466100**

Radius-Blended,
Multi-Diameter
Steps

Self-Starting
Tip

**Monolock®
QUICK CHANGE SYSTEM**

1/4" Hex Power Shank
For instant loading into
quick change adapter.

Two Flutes
Two cutting edges
assure true concentricity.



ProBits™ Step Drills

STYLE	NO. OF STEPS	SIZE RANGE	SHANK SIZE	OAL	BRIGHT FINISH		TiN COATED		COBALT	
					STOCK #	PACK	STOCK #	PACK	STOCK #	PACK
AH	13	1/8" - 1/2" in 1/32nds	1/4" Hex	3"	MBML13	MBML13C	MBML13TN	MBML13TNC	MBMLCO13	MBMLCO13C
BH	6	3/16" - 1/2" in 1/16ths	1/4" Hex	3-1/4"	MBML6	MBML6C	MBML6TN	MBML6TNC	MBMLCO6	MBMLCO6C
CH	9	1/4" - 3/4" in 1/16ths	1/4" Hex	2-13/16"	MBML9	MBML9C	MBML9TN	MBML9TNC	MBMLCO9	MBMLCO9C
KH	12	3/16" - 7/8" in 1/16ths	1/4" Hex	3"	MBML12	MBML12C	MBML12TN	MBML12TNC	—	—

1 per pack or card



Features:

- Hex Shank Step Drills are available in High-Speed Steel, TiN Coated High-Speed Steel and Heavy Duty Cobalt Steel.
- Packaged in hard body plastic case on a hang-up card.

SETS
In Plastic Case



PCS. PER SET	CONTENTS 1 Pc. Each	STOCK #
3	Style AH, BH, CH, HSS Bright Finish	MBML3W
3	Style AH, BH, CH, HSS TiN Coated	MBML3TNW
3	Style AH, BH, CH, Cobalt	MBMLCO3W

1/4" HEX SHANK ADAPTORS



Features:

- Converts Round Shank Bit into a Quick Change Bit

BARREL DIM.	OVERALL LENGTH	STOCK #
1/4"	3"	SA1014
5/16"	3"	SA1015
3/8"	3"	SA1016

6" ProBits™ EXTENSION

For long reach



HEX SHANK	OVERALL LENGTH	STOCK #
1/4"	6"	EXT61289

1 per pack

Step Drills Competitive Cross Reference

Size Range	No. of Steps	ALFA TOOLS	UNIBIT	LENOX	KLEIN	MAGNA	MILWAUKEE	GREENLEE
1/8" - 1/2"	13	AH	—	—	—	—	—	—
3/16" - 1/2"	6	BH	—	—	—	—	—	—
1/8" - 1/2"	13	A	1	VBI	59001	44685	48-89-9100	34401
3/16" - 1/2"	6	B	2	VB4	59005	44694	—	36402
1/4" - 3/4"	9	C	3	VB3	59003	44687	48-89-9105	—
1/2"	1	D	10	—	—	44690	48-89-9125	34410
7/8"	1	E	11	VB7	59008	44688	48-89-9115	344011
9/16" - 1"	8	F	20	VB2	59002	44686	48-89-9110	—
13/16" - 1-3/8"	10	G	21	VB12	59004	44695	—	—
3/8"	1	H	12	VB14	—	44689	48-89-9120	—
3/16" - 7/8"	12	K	4	—	—	44692	48-89-9130	34403
1/4" - 7/8" - 1-1/8"	3	M	9	VB11	59001	44691	48-89-9135	36413

ProBits RPM Chart

ProBit Style	Aluminum	Auto Body	Electrical Boxes	I-Beams	Sheet Metal	Stainless Elec. Boxes	Stainless Sinks
A	2,600	820	820	690	770	300	310
B	2,600	820	820	690	770	300	310
C	1,700	550	550	460	510	200	210
D	1,500	470	470	400	440	170	180
E	1,500	470	470	400	440	170	180
F	1,300	410	410	350	390	150	150
G	900	300	300	250	280	110	110
H	1,500	470	470	400	440	170	180
K	1,500	470	470	400	440	170	180
M	1,100	370	300	310	340	130	140

Suggested RPM's only

ProBits™ Step Drills

High-Speed Steel Professional Quality

SWISS
MADE

2 Flutes

Fractional Multi-Step Sizes Bright Finish Or TiN Coated

Features:

- Drill up to 13 different hole sizes with one bit.
- Balanced double flute eliminates chatter and vibration.
- Self starting tip for easier drilling; even on curved surfaces.
- Holes automatically deburred by the next cutting edge.
- 3 flats on shank prevent slipping in drill chuck.
- Cutting edges can be resharpened.



SCHEMATIC CONFIGURATION	STYLE	NO. OF STEPS	SIZE RANGE	SHANK SIZE	OAL	BRIGHT FINISH		TiN COATED	
						STOCK #		STOCK #	
						PACK	CARDED	PACK	CARDED
	A	13	1/8" - 1/2" in 1/32nds	1/4"	3"	MB52501	MB52501C	MB52501TN	MB52501TNC
	B	6	3/16" - 1/2" in 1/16ths	1/4"	3-1/4"	MB52502	MB52502C	MB52502TN	MB52502TNC
	C	9	1/4" - 3/4" in 1/16ths	3/8"	2-13/16"	MB52503	MB52503C	MB52503TN	MB52503TNC
	D	1	1/2"	1/4"	1-7/8"	MB52504	MB52504C	MB52504TN	MB52504TNC
	E	1	7/8"	3/8"	2-5/16"	MB52505	MB52505C	MB52505TN	MB52505TNC
	*F	8	9/16" - 1" in 1/16ths	3/8"	2-13/16"	MB52506	MB52506C	MB52506TN	MB52506TNC
	**G	10	13/16" - 1-3/8" in 1/32nds	1/2"	3"	MB52507	—	MB52507TN	—
	H	1	3/8"	1/4"	1-3/4"	MB52508	MB52508C	MB52508TN	MB52508TNC
	K	12	3/16" - 7/8" in 1/16ths	3/8"	3"	MB52511	MB52511C	MB52511TN	MB52511TNC
	M	3	1/4" - 7/8" - 1-1/8"	3/8"	3"	MB52513	—	MB52513TN	—

1 per pack or card

* For hole enlarging, require 1/2" or larger pilot holes.

**For hole enlarging, require 3/4" or larger pilot holes.

NOTE: 7/8" ProBit (styles E/K/M) are ideal for 1/2" conduit
1-1/8" ProBit (style M) is ideal for 3/4" conduit

SETS

PCS. PER SET	CONTENTS 1 Pc. Each	STOCK #
SET IN HANDY POUCH		
3	Style A, B, C, Bright Finish Style A, B, C, TiN Coated	MBS3 MBS3TN
SETS IN PLASTIC CASE		
3	Style A, B, C, Bright Finish Style A, B, C, TiN Coated	MBS13 MBS13TN
4	Style A, E, F, K, Bright Finish Style A, E, F, K, TiN Coated	MBS14 MBS14TN
3	Style A, C, F, Bright Finish Style A, C, F, TiN Coated	MBS15 MBS15TN
6	Style A, E, F, C, K, M, Bright Finish Style A, E, F, C, K, M, TiN Coated	MBS16 MBS16TN
4	Style C, H, K, M, Bright Finish Style C, H, K, M, TiN Coated	MBS17 MBS17TN

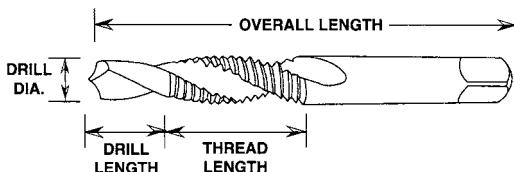


Combination Drill & Tap

Premium High-Speed Steel

MADE IN
U. S. A.

2 Flutes
135° Split Point
Bright Finish



Features:

- This combination tool drills and taps in a single pass, saving a complete set-up, no center drilling or punching required.
- Designed to drill and tap through holes up to 2X nominal diameter. The drill section must fully penetrate the material before tapping begins.
- Can be used on multi-spindle heads with reversing capability for tapping in most materials.

MACHINE SCREW & FRACTIONAL

SIZE	OVERALL LENGTH	DRILL LENGTH	DRILL SIZE	THREAD LENGTH	SHANK DIA.	LENGTH OF SQUARE	SIZE OF SQUARE	ALFA USA
								STOCK #
4-40 UNC	1-7/8	1/4	.0910	3/8	.1410	3/16	.110	DTH66101
4-48 UNF	1-7/8	1/4	.0945	3/8	.1410	3/16	.110	DTH66101A
5-40 UNC	1-15/16	9/32	.1040	13/32	.1410	3/16	.110	DTH66102
5-44 UNF	1-15/16	9/32	.1060	13/32	.1410	3/16	.110	DTH66102A
6-32 UNC	2	5/16	.1115	7/16	.1410	3/16	.110	DTH66103
6-40 UNF	2	5/16	.1170	7/16	.1410	3/16	.110	DTH66103A
8-32 UNC	2-1/8	3/8	.1375	1/2	.1680	1/4	.131	DTH66104
8-36 UNF	2-1/8	3/8	.1405	1/2	.1680	1/4	.131	DTH66104A
10-24 UNC	2-3/8	13/32	.1545	5/8	.1940	1/4	.152	DTH66105
10-32 UNF	2-3/8	13/32	.1635	5/8	.1940	1/4	.152	DTH66106
12-24 UNC	2-3/8	15/32	.1805	21/32	.2200	9/32	.165	DTH66106A
12-28 UNF	2-3/8	15/32	.1860	21/32	.2200	9/32	.165	DTH66106B
1/4-20 UNC	2-1/2	17/32	.2080	25/32	.2550	5/16	.191	DTH66107
1/4-28 UNF	2-1/2	17/32	.2200	25/32	.2550	5/16	.191	DTH66108
5/16-18 UNC	2-27/32	11/16	.2660	15/16	.3180	3/8	.238	DTH66109
5/16-24 UNF	2-27/32	11/16	.2770	15/16	.3180	3/8	.238	DTH66110
3/8-16 UNC	3-3/8	13/16	.3225	1-1/16	.3810	7/16	.286	DTH66111
3/8-24 UNF	3-3/8	13/16	.3395	1-1/16	.3810	7/16	.286	DTH66112
*7/16-14 UNC	3-3/4	1	.3770	1-1/4	.3230	13/32	.242	DTH66113
*7/16-20 UNF	3-3/4	1	.3955	1-1/4	.3230	13/32	.242	DTH66114
*1/2-13 UNC	4-1/16	1-1/8	.4350	1-3/8	.3670	7/16	.275	DTH66115
*1/2-20 UNF	4-1/16	1-1/8	.4580	1-3/8	.3670	7/16	.275	DTH66116

4 to 1/4", 12 per pack, 5/16" to 3/8", 6 per pack, 7/16" to 1/2", 3 per pack *110° Helical Point

DRILL & TAP SET

IN DELUXE METAL INDEX

SET QTY.	SIZES	ALFA USA
		STOCK #
16 Pcs.	Contains one each size: 6-32, 8-32, 10-24, 10-32, 12-24, 12-28, 1/4"-20, 1/4"-28, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"-20, 1/2"-13, 1/2"-20	DTH66120



DTH66120

Available TiN coated. Details on request.



Combination Drill & Tap

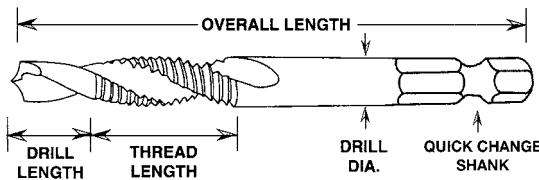
Premium High-Speed Steel

1/4" Hex Power Shank

2 Flutes

135° Split Point

Bright Finish



MACHINE SCREW & FRACTIONAL

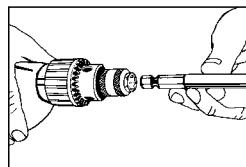
NEW!

SIZE	PITCH	OVERALL LENGTH	THREAD LENGTH	DRILL LENGTH	DRILL DIAMETER	STOCK #
6	32 NC	3	7/16	5/16	.112	DTML66103
8	32 NC	3-1/8	1/2	3/8	.138	DTML66104
10	24 NC	3-3/8	5/8	13/32	.155	DTML66105
10	32 NF	3-3/8	5/8	13/32	.164	DTML66106
12	24 NC	3-3/8	21/32	15/32	.180	DTML66106A
12	28 NF	3-3/8	21/32	15/32	.180	DTML66106B
1/4	20 NC	3-1/2	25/32	17/32	.208	DTML66107
1/4	28 NF	3-1/2	25/32	17/32	.220	DTML66108
5/16	18 NC	3-27/32	15/16	11/16	.266	DTML66109
5/16	24 NF	3-27/32	15/16	11/16	.277	DTML66110
3/8	16 NC	4-3/8	1-1/16	13/16	.322	DTML66111
3/8	24 NF	4-3/8	1-1/16	13/16	.340	DTML66112
7/16	14 NC	4-3/4	1-1/4	1	.377	DTML66113
7/16	20 NF	4-3/4	1-1/4	1	.395	DTML66114
1/2	13 NC	5-1/16	1-3/8	1-1/8	.435	DTML66115
1/2	20 NF	5-1/16	1-3/8	1-1/8	.458	DTML66116
5/8	11 NC	6-1/16	1-3/4	1-1/2	.548	DTML66117

6 to 1/4", 12 per pack, 5/16" to 3/8", 6 per pack, 7/16" to 1/2", 3 per pack, 5/8", 1 per pack



HSA51072
(Sold Separately)
See page A75



DRILL & TAP SET

IN DELUXE METAL INDEX

SET QTY.	SIZES	STOCK #
16 Pcs.	Contains one each size: 6-32, 8-32, 10-24, 10-32, 12-24, 12-28, 1/4"-20, 1/4"-28, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"-20, 1/2"-13, 1/2"-20	DTML66120



DTML66120

Available TiN coated. Details on request.

Hex Shank Drills

High-Speed Steel

1/4" Hex Shank Drills 135° Split Point



Monolock®
QUICK CHANGE SYSTEM

- Features:**
- High-Speed steel quickly penetrates wood, metal and plastic.
 - 1/4" hex shanks are designed for use in power tools with quick change chucks and adapters. They also provide added stability when used in standard chucks.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
*1/16	.0625	3/4	2-1/4	HSD51071
*5/64	.0781	7/8	2-3/8	HSD51071A
*3/32	.0938	1	2-1/2	HSD51072
*7/64	.1094	1-1/16	2-5/8	HSD51072A
1/8	.1250	1-1/4	2-3/4	HSD51073
9/64	.1406	1-3/8	2-7/8	HSD51073A
5/32	.1562	1-3/8	3	HSD51074
11/64	.1719	1-5/8	3	HSD51074A
3/16	.1875	1-5/8	3-1/8	HSD51075
13/64	.2031	1-3/4	3-1/4	HSD51075A
7/32	.2188	1-7/8	3-3/8	HSD51076
15/64	.2344	2	3-1/2	HSD51076A
1/4	.2500	2-1/8	3-5/8	HSD51077
17/64	.2656	1-7/16	2-5/8	HSD51084
9/32	.2812	1-1/2	2-11/16	HSD51085

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
19/64	.2969	1-9/16	2-3/4	HSD51086
5/16	.3125	1-5/8	2-13/16	HSD51087
21/64	.3281	1-11/16	2-15/16	HSD51088
11/32	.3438	1-11/16	3	HSD51089
23/64	.3594	1-3/4	3-1/4	HSD51090
3/8	.3750	1-13/16	3-1/8	HSD51091
25/64	.3906	1-7/8	3-1/4	HSD51092
13/32	.4062	1-15/16	3-5/16	HSD51093
27/64	.4219	2	3-3/8	HSD51094
7/16	.4375	2-1/16	3-7/16	HSD51095
29/64	.4531	2-1/8	3-9/16	HSD51096
15/32	.4688	2-1/8	3-5/8	HSD51097
31/64	.4844	2-3/16	3-11/16	HSD51098
1/2	.5000	2-1/4	3-3/4	HSD51099

1/16" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope

*Not Split Point

These items are available carded.
See price list for details.

HSD51081



HSD51083

1/4" HEX SHANK DRILL SETS

SET QTY.	SIZES	STOCK #
ON A HANG-UP CARD		
7 Pcs.	135° Split Point Set Includes sizes 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"	HSD51081

SET QTY.	SIZES	STOCK #
IN STEEL INDEX		
13 Pcs.	135° Split Point Set Includes sizes 1/16" - 1/4" by 64ths	HSD51083
29 Pcs.	135° Split Point Set Includes sizes 1/16" - 1/2" by 64ths	HSD51051

Spotting Drills

High-Speed Steel

118° Point Angle Bright Finish



Features:

- Used to locate the hole position for a larger drill.
- With short flutes and overall length and no body clearance, these drills have extreme rigidity and may be chucked close to the drill point for precise location.
- Ideal for shallow hole drilling.

DRILL SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/4	1	1-1/2	SCD52712
5/16	1	1-1/2	SCD52714
3/8	1	2	SCD52715
7/16	1	2	SCD52716
1/2	1	2	SCD52717
5/8	1-1/8	2-1/4	SCD52719
3/4	1-1/8	2-1/4	SCD52720
7/8	1-1/4	2-1/2	SCD52721
1	1-1/4	2-1/2	SCD52722

1 per pack

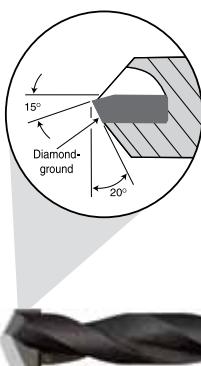
MegaDrill™ Multi-Purpose Drill Bits

Carbide Tipped For Rotary Drilling or Percussion

Black Oxide Finish

Highly effective drilling in a vast variety of materials:

- Hard Metals & Alloys
- Cast Iron
- Concrete, Brick & Granite
- Cement Board
- Ceramic Tile
- Marble & Stone
- Wood & Plastics
- Glass, Crystal & Mirror



Features:

- The **MEGADRILL™** multi-purpose drill bits are specially developed for drilling in a wide variety of materials.
- Each tip is individually diamond ground to give sharp cutting angles required for multi-purpose drilling and produces excellent hole quality.
- Ideal for cordless drills, corded drills and drill presses.
- No centerpunch needed. Eliminates "walking."



Made in
Germany

Can be used with and without percussion depending on the material:
Percussion must be used in concrete, brick, granite and stone.
Rotary must be used in metal, wood, marble, ceramic tile, glass & plastic.

FRACTIONAL

DRILL DIA.	DECIMAL EQUIV.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
					BULK	TUBE
1/8	.1250	1/8	1-1/2	3	MD1005	MD1005P
5/32	.1562	5/32	1-1/2	3	MD1007	MD1007P
3/16	.1875	3/16	1-3/4	3-1/2	MD1015	MD1015P
7/32	.2188	7/32	2	3-3/4	MD1017	MD1017P
1/4	.2500	1/4	2-1/4	4-1/4	MD1025	MD1025P
1/4	.2500	1/4	3	6	MD1026	MD1026P
9/32	.2812	9/32	2-1/4	4-3/8	MD1027	MD1027P
5/16	.3125	5/16	2-3/4	4-1/2	MD1035	MD1035P
11/32	.3438	11/32	2-3/4	5	MD1037	MD1037P
3/8	.3750	3/8	2-7/8	5-3/8	MD1045	MD1045P
13/32	.4062	13/32	3-1/2	6	MD1047	MD1047P
7/16	.4375	7/16	3-1/2	6	MD1055	MD1055P
15/32	.4688	3/8	3-3/4	6	MD1057	MD1057P
1/2	.5000	3/8	3-1/4	6	MD1065	MD1065P
9/16	.5625	3/8	3-1/2	6	MD1075	MD1075P
5/8	.6250	3/8	3-1/2	6	MD1076	MD1076P
3/4	.7500	3/8	4	6	MD1090	MD1090P



1/4" QUICK CHANGE SHANK

5/32	.1562	5/32	1-1/2	3	MDML1007	MDML1007T
3/16	.1875	3/16	1-3/4	3-1/2	MDML1015	MDML1015T
1/4	.2500	1/4	3	4-1/4	MDML1025	MDML1025T
5/16	.3125	5/16	2-3/4	4-1/2	MDML1035	MDML1035T
3/8	.3750	3/8	2-7/8	5-3/8	MDML1045	MDML1045T
1/2	.5000	3/8	3-1/4	6	MDML1065	MDML1065T

Bulk 1/8" to 5/16", 12 per pack, 11/32" to 1/2", 6 per pack, 9/16" and above, 1 per pack
Tube 1/8" to 3/4", 1 per tube



SETS

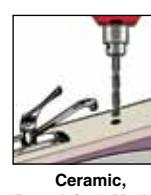
QTY.	SIZES	STOCK #
5 Pc.	In plastic case 1/8", 3/16", 1/4", 3/8", 1/2"	MD1098
13 Pc.	In metal index 1/8", 5/32", 3/16", 7/32", *1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	MD1099
5 Pc.	In plastic case 1/8", 3/16", 1/4", 3/8", 1/2"	MDML5



Hardened Steel &
Cast Iron



Concrete & Granite



Ceramic,
Porcelain &
Marble



Glass, Crystal &
Mirror



Wood & Plastics

Drilling Guide & Speeds

Material	Mode of Operation	RPM up to 1/4" Dia.	RPM 5/16" to 1/2" Dia.
Granite / Stone	With Rotary Percussion	1500	1000
Brick	Rotary or Rotary Percussion	1500	1000
Marble	Rotary or Rotary Percussion	1500	1000
Cast Stone	Rotary or Rotary Percussion	1500	1000
Concrete	Rotary or Rotary Percussion	1500	1000
Ceramic Tile	Rotary Only – Liquid coolant permitted.	1800	1200
Porcelain	Rotary Only – Liquid coolant permitted.	1200	800

Material	Mode of Operation	RPM up to 1/4" Dia.	RPM 5/16" to 1/2" Dia.
Baked Ceramic	Rotary Only – Liquid coolant permitted.	1200	800
Glass / Crystal	Rotary Only – Liquid coolant permitted.	800	600
Plastic / Acrylic	Rotary Only – Drill press.	800	600
Cast Iron / Steel	Rotary Only – Drill press, with oil coolant.	1000	800
Soft Wood	Rotary Only	2500	1000
Hard Wood	Rotary Only	1600	800

Spot Weld Drills

Premium High-Speed Steel



**Right Hand Cut
HSS & Cobalt Steel**



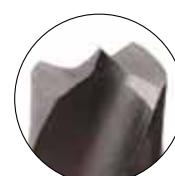
Features:

- Spot weld drills have been specially designed for drilling through spot welds on automotive panels. Pilot point and brad point spurs enable fast, clean holes.
- Used for fast, accurate removal of standard spot welds.
- Pilot centering point ensures precision drilling without the use of a guide bushing.
- Twin cutting spurs provide burr-free holes.

NEW!

FINISH	DRILL DIA.	SPOT WELD SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
HSS DRILLS					
BLACK STEAM TEMPERED	5/16 (8 mm) 3/8 (9.5 mm)	5/16 3/8	1-5/8 1-13/16	2-13/16 3-1/8	SWC516 SWC38
COBALT DRILLS					
STRAW GOLD	6 mm 8 mm 10 mm	1/4 5/16 3/8	1-1/4 1-9/16 1-7/16	2-9/16 2-7/8 3-7/8	SWC6SMCO SWC8SMCO SWC10SMCO
	COBALT EURO POINT DRILLS				
	8 mm Flat on Shank 10 mm Flat on Shank	1/4 3/8	3/4 1-3/8	1-3/4 3-3/8	SWC8CO SWC10CO

1 per pack



EURO POINT

Drills for Plastics - Acrylics

High-Speed Steel



**60° Precision Point
Bright Finish**

Features:

- High-speed steel, bright polished body, flute and point for maximum lubrication.
- Point is precision ground at 60° angle for gradual penetration to minimize cracking and chipping of plastic materials.
- 0° rake angle on the cutting edge eliminates grabbing as the drill comes through the plastic surface.

FRACTIONAL

DRILL SIZE	SHANK DIAMETER	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/8	1/8	1-5/8	2-3/4	PD70502
5/32	5/32	2	3-1/8	PD70506
3/16	3/16	2-5/16	3-1/2	PD70510
7/32	7/32	2-1/2	3-3/4	PD70512
1/4	1/4	2-3/4	4	PD70514
9/32	9/32	2-15/16	4-1/4	PD70516
5/16	5/16	3-3/16	4-3/8	PD70520
11/32	11/32	3-7/16	4-3/4	PD70522
3/8	3/8	3-5/8	5	PD70524
13/32	13/32	3-7/8	5-1/4	PD70526
7/16	7/16	4-1/16	5-1/2	PD70528
15/32	15/32	4-5/16	5-3/4	PD70530
1/2	1/2	4-1/2	6	PD70532

1/8" to 5/16", 12 per envelope, 11/32" to 1/2", 6 per envelope

Sheet Metal Body Drills



High-Speed Steel

**Heavy Duty
135° Split Point
Bright Finish, Black Oxide
Or TiN Coated**

Features:

- Sturdy construction with 135° self-centering point for ease of penetration.
- Used for drilling truck and auto bodies, or any thin sheet metal and aluminum.



SINGLE END

DRILL SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
				BRIGHT FINISH	BLACK OXIDE
7/64	.1094	1/2	1-7/8	SH50204SB	SH50204S
1/8	.1250	1/2	1-7/8	SH50205SB	SH50205S
9/64	.1406	1/2	2-1/16	SH50206SB	SH50206S
5/32	.1562	1/2	2-1/16	SH50207SB	SH50207S
3/16	.1875	1/2	2-3/16	SH50209SB	SH50209S
13/64	.2031	1/2	2	SH50210SB	SH50210S
7/32	.2188	1/2	2	SH50211SB	SH50211S
1/4	.2500	1/2	2-1/2	SH50213SB	SH50213S
#1	.2280	1/2	2	SH60301SB	SH60301S
#11	.1910	1/2	2	SH60311SB	SH60311S
#20	.1610	1/2	2	SH60320SB	SH60320S
#30	.1285	1/2	1-15/16	SH60330SB	SH60330S

12 per pack



DOUBLE END

DRILL SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #		
				BRIGHT FINISH	BLACK OXIDE	TiN COATED
7/64	.1094	1/2	1-7/8	SH50204DB	SH50204D	SH50204DTN
1/8	.1250	1/2	2	SH50205DB	SH50205D	SH50205DTN
9/64	.1406	1/2	2	SH50206DB	SH50206D	SH50206DTN
5/32	.1562	1/2	2-1/16	SH50207DB	SH50207D	SH50207DTN
3/16	.1875	1/2	2-3/16	SH50209DB	SH50209D	SH50209DTN
13/64	.2031	1/2	2-3/16	SH50210DB	SH50210D	SH50210DTN
7/32	.2188	1/2	2-3/8	SH50211DB	SH50211D	SH50211DTN
1/4	.2500	1/2	2-1/2	SH50213DB	SH50213D	SH50213DTN
#1	.2280	1/2	2-1/4	SH60301DB	SH60301D	SH60301DTN
#10	.1935	1/2	2-1/4	SH60310DB	SH60310D	SH60310DTN
#11	.1910	1/2	2-1/4	SH60311DB	SH60311D	SH60311DTN
#20	.1610	1/2	2-1/8	SH60320DB	SH60320D	SH60320DTN
#21	.1590	1/2	2	SH60321DB	SH60321D	SH60321DTN
#30	.1285	1/2	2	SH60330DB	SH60330D	SH60330DTN
#40	.0980	1/2	2	SH60340DB	SH60340D	SH60340DTN

12 per pack

Chuck Reamers

Premium High-Speed Steel



Chuck Reamers

A

Straight Shank Straight Flute

Features:

- Chucking reamers are designed for precision reaming in a wide range of materials, using a variety of equipment.
- Shorter and deeper flutes than hand reamers and are designed for machine reaming in most materials and equipment including screw machines, turret lathes and drill presses.

FRACTIONAL

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	NO. OF FLUTES	STOCK #
1/8	.1250	7/8	3-1/2	6	CR54007
9/64	.1406	1	4	6	CR54008
5/32	.1562	1	4	6	CR54009
11/64	.1719	1-1/8	4-1/2	6	CR54010
3/16	.1875	1-1/8	4-1/2	6	CR54011
13/64	.2031	1-1/4	5	6	CR54012
7/32	.2188	1-1/4	5	6	CR54013
15/64	.2344	1-1/2	6	6	CR54014
1/4	.2500	1-1/2	6	6	CR54015
17/64	.2656	1-1/2	6	6	CR54016
9/32	.2812	1-1/2	6	6	CR54017
19/64	.2969	1-1/2	6	6	CR54018
5/16	.3125	1-1/2	6	6	CR54019
21/64	.3281	1-1/2	6	6	CR54020
11/32	.3438	1-1/2	6	6	CR54021
23/64	.3594	1-3/4	7	6	CR54022
3/8	.3750	1-3/4	7	6	CR54023
25/64	.3906	1-3/4	7	6	CR54024
13/32	.4062	1-3/4	7	6	CR54025
27/64	.4219	1-3/4	7	6	CR54026
7/16	.4375	1-3/4	7	6	CR54027
29/64	.4531	1-3/4	7	6	CR54028
15/32	.4688	1-3/4	7	6	CR54029
31/64	.4844	2	8	6	CR54030
1/2	.5000	2	8	6	CR54031
17/32	.5312	2	8	6	CR54033
9/16	.5625	2	8	6	CR54035
19/32	.5938	2	8	6	CR54037
5/8	.6250	2-1/4	8	6	CR54039
21/32	.6562	2-1/4	8	6	CR54041
11/16	.6875	2-1/4	9	8	CR54042
23/32	.7188	2-1/4	9	8	CR54044
3/4	.7500	2-1/2	9-1/2	8	CR54046
25/32	.7812	2-1/2	9-1/2	8	CR54048
13/16	.8125	2-1/2	9-1/2	8	CR54050
27/32	.8438	2-1/2	9-1/2	8	CR54052
7/8	.8750	2-5/8	10	8	CR54054
29/32	.9062	2-5/8	10	8	CR54056
15/16	.9375	2-5/8	10	8	CR54058
31/32	.9688	2-5/8	10	8	CR54060
1	1.0000	2-3/4	10-1/2	8	CR54062
1-1/16	1.0625	2-3/4	10-1/2	10	CR54064
1-1/8	1.1250	2-7/8	11	10	CR54066
1-3/16	1.1875	2-7/8	11	10	CR54068
1-1/4	1.2500	3	11-1/2	10	CR54070
1-5/16	1.3125	3	11-1/2	10	CR54072
1-3/8	1.3750	3-1/4	12	10	CR54074
1-7/16	1.4375	3-1/4	12	10	CR54076
1-1/2	1.5000	3-1/2	12-1/2	10	CR54078
1-9/16	1.5625	3-1/2	12-1/2	10	CR54080
1-5/8	1.6250	3-1/2	13	10	CR54082
1-3/4	1.7500	4	13-1/2	10	CR54086
1-7/8	1.8750	4	14	10	CR54090
2	2.0000	4	14	10	CR54094

1 per pack

LETTER

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	NO. OF FLUTES	STOCK #
A	.2340	1-1/2	6	6	CR54151
B	.2380	1-1/2	6	6	CR54152
C	.2420	1-1/2	6	6	CR54153
D	.2460	1-1/2	6	6	CR54154
E	.2500	1-1/2	6	6	CR54155
F	.2570	1-1/2	6	6	CR54156
G	.2610	1-1/2	6	6	CR54157
H	.2660	1-1/2	6	6	CR54158
I	.2720	1-1/2	6	6	CR54159
J	.2770	1-1/2	6	6	CR54160
K	.2810	1-1/2	6	6	CR54161
L	.2900	1-1/2	6	6	CR54162
M	.2950	1-1/2	6	6	CR54163
N	.3020	1-1/2	6	6	CR54164
O	.3160	1-1/2	6	6	CR54165
P	.3230	1-1/2	6	6	CR54166
Q	.3320	1-1/2	6	6	CR54167
R	.3390	1-1/2	6	6	CR54168
S	.3480	1-3/4	7	6	CR54169
T	.3580	1-3/4	7	6	CR54170
U	.3680	1-3/4	7	6	CR54171
V	.3770	1-3/4	7	6	CR54172
W	.3860	1-3/4	7	6	CR54173
X	.3970	1-3/4	7	6	CR54174
Y	.4040	1-3/4	7	6	CR54175
Z	.4130	1-3/4	7	6	CR54176

1 per pack

WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	NO. OF FLUTES	STOCK #
1	.2280	1-1/2	6	6	CR54101
2	.2210	1-1/2	6	6	CR54102
3	.2130	1-1/4	5	6	CR54103
4	.2090	1-1/4	5	6	CR54104
5	.2055	1-1/4	5	6	CR54105
6	.2040	1-1/4	5	6	CR54106
7	.2010	1-1/4	5	6	CR54107
8	.1990	1-1/4	5	6	CR54108
9	.1960	1-1/4	5	6	CR54109
10	.1935	1-1/4	5	6	CR54110
11	.1910	1-1/4	5	6	CR54111
12	.1890	1-1/8	4-1/2	6	CR54112
13	.1850	1-1/8	4-1/2	6	CR54113
14	.1820	1-1/8	4-1/2	6	CR54114
15	.1800	1-1/8	4-1/2	6	CR54115
16	.1770	1-1/8	4-1/2	6	CR54116
17	.1730	1-1/8	4-1/2	6	CR54117
18	.1695	1-1/8	4-1/2	6	CR54118
19	.1660	1-1/8	4-1/2	6	CR54119
20	.1610	1-1/8	4-1/2	6	CR54120
21	.1590	1-1/8	4-1/2	6	CR54121
22	.1570	1	4	6	CR54122
23	.1549	1	4	4	CR54123
24	.1520	1	4	4	CR54124
25	.1490	1	4	4	CR54125
26	.1470	1	4	4	CR54126
27	.1440	1	4	4	CR54127
28	.1405	1	4	4	CR54128
29	.1360	1	4	4	CR54129
30	.1285	7/8	3-1/2	4	CR54130
31	.1200	7/8	3-1/2	4	CR54131
32	.1160	7/8	3-1/2	4	CR54132

1 per pack

Metric Chucking Reamers

Premium High-Speed Steel



**Straight Shank
Straight Flute**



- Features:**
- Chucking reamers are designed for precision reaming in a wide range of materials, using a variety of equipment.
 - Has shorter and deeper flutes than hand reamers and are designed for machine reaming in most materials and equipment including screw machines, turret lathes and drill presses.

METRIC

SIZE DIA. MM	FLUTE LENGTH MM	OVERALL LENGTH MM	NO. OF FLUTES	STOCK #
2.5	14	57	4	CR54701
3	15	61	4	CR54702
3.2	16	65	4	CR54703
3.5	18	70	4	CR54704
4	19	75	6	CR54705
4.5	21	80	6	CR54706
5	23	86	6	CR54707
6	26	93	6	CR54708
7	31	110	6	CR54709
8	33	117	6	CR54710
9	36	125	6	CR54711
10	38	133	6	CR54712
11	41	142	6	CR54713

SIZE DIA. MM	FLUTE LENGTH MM	OVERALL LENGTH MM	NO. OF FLUTES	STOCK #
12	44	151	6	CR54714
13	44	151	6	CR54715
14	47	160	6	CR54716
15	50	162	6	CR54717
16	52	170	8	CR54718
17	54	175	8	CR54719
18	56	182	8	CR54720
19	58	182	8	CR54721
20	60	195	8	CR54722
21	60	215	8	CR54723
22	60	225	8	CR54724
23	60	230	8	CR54725
24	60	240	8	CR54726

1 per pack

Chuckng Reamers

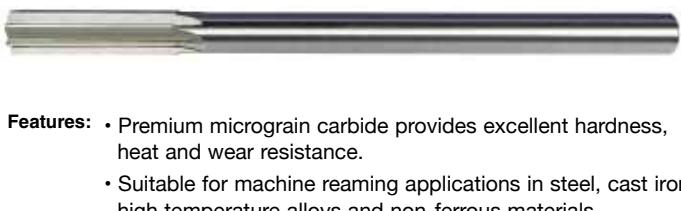
A

Solid Carbide Chucking Reamers

Solid Carbide



**Straight Shank
Straight Flute**



- Features:**
- Premium micrograin carbide provides excellent hardness, heat and wear resistance.
 - Suitable for machine reaming applications in steel, cast iron, high temperature alloys and non-ferrous materials.

FRACTIONAL

NEW!

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/16	.0625	3/8	1-1/2	CRC6001
5/64	.0781	1/2	1-3/4	CRC6002
3/32	.0938	1/2	2	CRC6003
7/64	.1094	5/8	2-1/4	CRC6004
1/8	.1250	5/8	2-1/4	CRC6005
9/64	.1406	3/4	2-1/4	CRC6006
5/32	.1562	3/4	2-1/4	CRC6007
11/64	.1719	7/8	2-3/4	CRC6008
3/16	.1875	7/8	2-3/4	CRC6009
13/64	.2031	1	3	CRC6010
7/32	.2188	1	3	CRC6011
15/64	.2344	1	3	CRC6012

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/4	.2500	1	3	CRC6013
17/64	.2656	1-1/8	3-1/4	CRC6014
9/32	.2812	1-1/8	3-1/4	CRC6015
19/64	.2969	1-1/8	3-1/4	CRC6016
5/16	.3125	1-1/8	3-1/4	CRC6017
21/64	.3281	1-1/4	3-1/2	CRC6018
11/32	.3438	1-1/4	3-1/2	CRC6019
23/64	.3594	1-1/4	3-1/2	CRC6020
3/8	.3750	1-1/4	3-1/2	CRC6021
13/32	.4062	1-1/4	3-1/2	CRC6022
7/16	.4375	1-3/8	4	CRC6023
1/2	.5000	1-1/2	4	CRC6024

1 per pack

A-63

Chuck Reamers Over / Under Size

High-Speed Steel



Straight Flute Right Hand Cut

Features: • Over Size and Under Size Chucking Reamers provide a slightly tighter or looser fit for common fractional size chucking reamers.

NEW!

INCH SIZE	OVERALL LENGTH	FLUTE LENGTH	SHANK DIA.	STOCK #
.1240	3-1/2	7/8	0.1190	CR99005
.1260	3-1/2	7/8	0.1190	CR99010
.1865	4-1/2	1-1/8	0.1805	CR99015
.1885	4-1/2	1-1/8	0.1805	CR99020
.2490	6	1-1/2	0.2405	CR99025
.2510	6	1-1/2	0.2405	CR99030
.3115	6	1-1/2	0.2792	CR99035

1 per pack



SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
.3135	6	1-1/2	0.2792	CR99040
.3740	7	1-3/4	0.3105	CR99045
.3760	7	1-3/4	0.3105	CR99050
.4365	7	1-3/4	0.3730	CR99055
.4385	7	1-3/4	0.3730	CR99060
.4990	8	2	0.4355	CR99065
.5010	8	2	0.4355	CR99070

DESCRIPTION	STOCK #
14 Pcs. Set – Includes one of each: .1240, .1260, .1865, .1885, .2490, .2510, .3115, .3135, .3740, .3760, .4365, .4385, .4990, .5010	CR99140

Bridge Reamers

High-Speed Steel



Taper Shank
Spiral Flute &
Straight Flute
Left Hand Helix
Right Hand Cut
Morse Taper Shank

- Features:**
- Commonly used in electric and pneumatic portable equipment, spiral flute bridge reamers are engineered for heavy duty work.
 - Specially designed for use in structural iron/steel bridge building, erection and ship construction in aligning bolt or rivet holes.
 - All sizes have five flutes for ease of penetration.

FRACTIONAL

NEW!

SIZE DIA.	POINT DIA.	FLUTE LENGTH	OVERALL LENGTH	MORSE TAPER #	STOCK #	
					SPIRAL FLUTE	STRAIGHT FLUTE
5/16	11/64	4-3/8	8-1/4	2	BR54505	BR66505
13/32	7/32	4-3/8	8-1/4	2	BR54506	BR66506
7/16	17/64	4-3/8	8-1/4	2	BR54507	BR66507
15/32	9/32	5-1/8	9	2	BR54508	BR66508
1/2	5/16	5-1/8	9	2	BR54509	BR66509
17/32	11/32	5-1/8	9	2	BR54510	BR66510
9/16	3/8	5-1/8	9	2	BR54511	BR66511
5/8	25/64	6-1/8	10	2	BR54512	BR66512
11/16	13/32	7-1/8	11-3/4	3	BR54513	BR66513
3/4	15/32	7-3/8	12	3	BR54514	BR66514
13/16	35/64	7-3/8	12	3	BR54515	BR66515
7/8	39/64	7-3/8	12	3	BR54516	BR66516
15/16	43/64	7-3/8	12	3	BR54517	BR66517
1	47/64	7-3/8	12	3	BR54518	BR66518
1-1/16	13/16	7-3/8	12	3	BR54519	BR66519
1-1/8	55/64	7-3/8	12	3	BR54520	BR66520
1-3/16	59/64	7-3/8	12	3	BR54521	BR66521
1-1/4	63/64	7-3/8	13	4	BR54522	BR66522
1-5/16	1-1/16	7-3/8	13	4	BR54523	BR66523
1-3/8	1-1/8	7-3/8	13	4	BR54524	BR66524
1-7/16	1-3/16	7-3/8	13	4	BR54525	BR66525
1-1/2	1-1/4	7-3/8	13	4	BR54526	BR66526
1-9/16	1-1/4	7-3/8	13	4	BR54527	BR66527
1-5/8	1-3/8	7-3/8	13	4	BR54528	BR66528
1-11/16	1-3/8	7-3/8	13	4	BR54529	–
1-3/4	1-7/16	7-3/8	13	4	BR54530	–
1-13/16	1-7/16	7-3/8	13	4	BR54531	–
1-7/8	1-1/2	7-3/8	13	4	BR54532	–
1-15/16	1-1/2	7-3/8	13	4	BR54533	–
2	1-3/4	7-3/8	13	4	BR54534	–

1 per pack

Hand Reamers

High-Speed Steel Square Drive



Features:

- Used by hand for precision sizing and finishing of a predrilled hole.
- Square shank can be held firmly in a tap handle, reamer wrench or vise.
- Ground with a starting chamfer to provide easy entry of the reamer into the hole.

Applications:

Straight flute hand reamer is recommended for most hand reaming applications.

Straight Shank Straight Flute Right Hand Cut



SIZE DIA.	FLUTE LENGTH	OVERALL LENGTH	NO. OF FLUTES	STOCK #
1/8	1-1/2	3	4	HR74301
5/32	1-5/8	3-1/4	6	HR74302
11/64	1-3/4	3-1/2	6	HR74303
3/16	1-3/4	3-1/2	6	HR74304
7/32	1-7/8	3-3/4	6	HR74305
1/4	2	4	6	HR74306
9/32	2-1/8	4-1/4	6	HR74307
5/16	2-1/4	4-1/2	6	HR74308
11/32	2-3/8	4-3/4	6	HR74309
3/8	2-1/2	5	6	HR74310
25/64	2-1/2	4-3/4	6	HR74311
13/32	2-5/8	5-1/4	6	HR74312
7/16	2-3/4	5-1/2	6	HR74313
15/32	2-7/8	5-3/4	6	HR74314
31/64	3	6	6	HR74315
1/2	3	6	6	HR74316
17/32	3-1/8	6-1/4	6	HR74317
9/16	3-1/4	6-1/2	6	HR74318
19/32	3-3/8	6-3/4	6	HR74319
5/8	3-1/2	7	6	HR74320
21/32	3-11/16	7-3/8	8	HR74321
11/16	3-7/8	7-3/4	8	HR74322
23/32	4-1/16	8-1/8	8	HR74323
3/4	4-3/16	8-3/8	8	HR74324
25/32	4-3/8	8-3/4	8	HR74325
13/16	4-9/16	9-1/8	8	HR74326
27/32	4-11/16	9-3/8	8	HR74327
7/8	4-7/8	9-3/4	8	HR74328
29/32	5	10	8	HR74329
15/16	5-1/8	10-1/4	8	HR74330
31/32	5-5/16	10-5/8	8	HR74331
1	5-7/16	10-7/8	8	HR74332
1-1/16	5-5/8	11-1/4	10	HR74333
1-1/8	5-13/16	11-5/8	10	HR74334
1-3/16	6	12	10	HR74335
1-1/4	6-1/8	12-1/4	10	HR74336
1-5/16	6-1/4	12-1/2	10	HR74337
1-3/8	6-5/16	12-5/8	12	HR74338
1-7/16	6-7/16	12-7/8	12	HR74339
1-1/2	6-1/2	13	12	HR74340

1 per pack

Applications:

Left hand spiral flute design is recommended for applications where there is an interrupted cut such as a keyway.

Straight Shank, Spiral Flute Left Hand Helix Right Hand Cut



SIZE DIA.	FLUTE LENGTH	OVERALL LENGTH	NO. OF FLUTES	STOCK #
1/8	1-1/2	3	4	HR74351
5/32	1-5/8	3-1/4	6	HR74352
3/16	1-3/4	3-1/2	6	HR74353
7/32	1-7/8	3-3/4	6	HR74354
1/4	2	4	6	HR74355
9/32	2-1/8	4-1/4	6	HR74356
5/16	2-1/4	4-1/2	6	HR74357
11/32	2-3/8	4-3/4	6	HR74358
3/8	2-1/2	5	6	HR74359
13/32	2-5/8	5-1/4	6	HR74360
7/16	2-3/4	5-1/2	6	HR74361
15/32	2-7/8	5-3/4	6	HR74362
31/64	3	6	6	HR74363
1/2	3	6	6	HR74364
17/32	3-1/8	6-1/4	6	HR74365
9/16	3-1/4	6-1/2	6	HR74366
19/32	3-3/8	6-3/4	6	HR74367
5/8	3-1/2	7	6	HR74368
21/32	3-11/16	7-3/8	8	HR74369
11/16	3-7/8	7-3/4	8	HR74370
23/32	4-1/16	8-1/8	8	HR74371
3/4	4-3/16	8-3/8	8	HR74372
25/32	4-3/8	8-3/4	8	HR74373
13/16	4-9/16	9-1/8	8	HR74374
27/32	4-11/16	9-3/8	8	HR74375
7/8	4-7/8	9-3/4	8	HR74376
29/32	5	10	8	HR74377
15/16	5-1/8	10-1/4	8	HR74378
31/32	5-5/16	10-5/8	8	HR74379
1	5-7/16	10-7/8	8	HR74380
1-1/16	5-5/8	11-1/4	10	HR74381
1-1/8	5-13/16	11-5/8	10	HR74382
1-3/16	6	12	10	HR74383
1-1/4	6-1/8	12-1/4	10	HR74384
1-5/16	6-1/8	12-1/2	10	HR74385
1-3/8	6-5/16	12-5/8	12	HR74386
1-7/16	6-7/16	12-7/8	12	HR74387
1-1/2	6-1/2	13	12	HR74388

1 per pack

Adjustable Hand Reamers

With High-Speed Steel Blades

Adjustable & Mechanic's Reamers



Features:

- For sizing and finishing of existing holes.
- Each reamer is adjustable to precisely fit a range of sizes, eliminating the need for single purpose, special diameter reamers.
- Used widely for automotive, aircraft maintenance and railway repair.
- For hand use only.

SIZE DIA.	RANGE	OVERALL LENGTH	STOCK #
8A	1/4 to 9/32	3-1/4	HR54601
7A	9/32 to 5/16	3-1/2	HR54603
6A	5/16 to 11/32	4-1/8	HR54605
5A	11/32 to 3/8	4-3/8	HR54607
4A	3/8 to 13/32	4-3/4	HR54609
3A	13/32 to 7/16	5	HR54611
2A	7/16 to 15/32	5-1/4	HR54613
A	15/32 to 17/32	5-1/2	HR54615
B	17/32 to 19/32	5-3/4	HR54617
C	19/32 to 21/32	6-1/2	HR54619
D	21/32 to 23/32	6-3/4	HR54621

1 per pack

SIZE DIA.	RANGE	OVERALL LENGTH	STOCK #
E	23/32 to 25/32	7	HR54623
F	25/32 to 27/32	7-3/8	HR54625
G	27/32 to 15/16	8	HR54627
H	15/16 to 1-1/16	9	HR54629
I	1-1/16 to 1-3/16	10	HR54631
J	1-3/16 to 1-11/32	11	HR54633
K	1-11/32 to 1-1/2	12	HR54635
L	1-1/2 to 1-13/16	14	HR54637
M	1-13/16 to 2-7/32	16	HR54639
N	2-7/32 to 2-3/4	18	HR54641
O	2-3/4 to 3-11/32	18	HR54643

Mechanic's Reamers

Premium High-Speed Steel



REPAIRMAN'S REAMERS

HARDENED & GROUNDED



Features:

- A popular steel reamer for removing burrs or enlarging small holes in soft metals, plastics and similar materials.

PLUMBER'S REAMERS

WITH 1/2" ROUND SHANK



Features:

- For removing burrs from pipe, conduit, etc., and enlarging holes in metals, plastics and other materials.
- Ideal for plumbers, steam-fitters and other mechanics.

SIZE RANGE	STOCK #	
	BULK	POUCHED
1/8" to 1/2"	MR54571	MR54571P
1/8" to 5/8"	MR54572	MR54572P
11/64" to 7/8"	MR54573	MR54573P
11/64" to 1-1/4"	MR54574	MR54574P

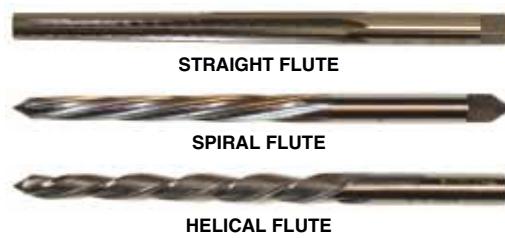
Bulk 1 per pack, Pouch 1 per pouch

SIZE RANGE	STOCK #	
	BULK	POUCHED
1/4" to 1-1/2"	MR54575	MR54575P
3/8" to 2"	MR54577	MR54577P

Bulk 1 per pack, Pouch 1 per pouch

Taper Pin Reamers

High-Speed Steel Right Hand



Features:

- Used for reaming holes into which standard taper pins will fit.
- Manufactured with a taper of 1/4" per foot.
- The straight flute design draws chips back toward power source.
- Spiral point used for hand reaming of difficult-to-ream materials.
- Helical flute reamers are suitable for use in machine reaming, because they throw chips forward.
- Suitable in a variety of normal ferrous, non-ferrous and non-metallic materials.

NEW!

SIZE	FLUTE LENGTH	OAL	SHANK DIA.	SMALL END DIA.	LARGE END DIA.	STOCK #		
						STRAIGHT FLUTE	SPIRAL FLUTE	HELICAL FLUTE
5/0	1-3/16	2-3/16	7/64	0.0719	0.0966	TPR3012	-	-
4/0	1-5/16	2-5/16	1/8	0.0869	0.1142	TPR3013	TPR4013	-
3/0	1-5/16	2-5/16	9/64	0.1029	0.1302	TPR3014	TPR4014	-
2/0	1-9/16	2-9/16	5/32	0.1137	0.1462	TPR3015	TPR4015	-
0	1-11/16	2-15/16	11/64	0.1287	0.1638	TPR3016	TPR4016	TPR5016
1	1-11/16	2-15/16	3/16	0.1447	0.1798	TPR3017	TPR4017	TPR5017
2	1-15/16	3-3/16	13/64	0.1605	0.2006	TPR3018	TPR4018	TPR5018
3	2-5/16	3-11/16	15/64	0.1813	0.2294	TPR3019	TPR4019	TPR5019
4	2-9/16	4-1/16	17/64	0.2071	0.2604	TPR3020	TPR4020	TPR5020
5	2-13/16	4-5/16	5/16	0.2409	0.2994	TPR3021	TPR4021	TPR5021
6	3-11/16	5-7/16	23/64	0.2773	0.3540	TPR3022	TPR4022	TPR5022
7	4-7/16	6-5/16	13/32	0.3297	0.4220	TPR3023	TPR4023	TPR5023
8	5-3/16	7-3/16	7/16	0.3971	0.5050	TPR3024	TPR4024	TPR5024
9	6-1/16	8-5/16	9/16	0.4805	0.6066	TPR3025	TPR4025	TPR5025
10	6-13/16	9-5/16	5/8	0.5799	0.7216	TPR3026	TPR4026	TPR5026
11	8-1/4	11-1/4	3/4	0.7060	0.8780	TPR3027	TPR4027	TPR5027
12	10	13-5/8	7/8	0.8420	1.0500	TPR3028	TPR4028	TPR5028
13	12	16	1-1/4	1.0090	1.2590	TPR3029	TPR4029	TPR5029
14	14	18-1/4	1-1/2	1.2500	1.5420	TPR3030	TPR4030	TPR5030

1 per pack

Structural Reamers

High-Speed Steel Left Hand Helix

Hex Nut Shank

Features:



- Specifically designed for enlarging and aligning existing holes in structural steel erection, automotive, truck / trailer manufacturing and maintenance work.
- Heavy hex nut shank reamers are engineered for use in either pneumatic rotary socket power tools (impact wrench) application or where only hand tools are available.
- Left hand helix enables quick chip removal.



REGULAR – GOLD FINISH



BLITZ – BLACK / GOLD FINISH

REAMER SIZE	WIDTH ACROSS FLATS	DIAMETER AT POINT DECIMAL EQUIVALENT	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
					REGULAR	BLITZ
11/16	1-1/4	0.3661	4-1/2	6-1/2	CR54571	CRB54571
13/16	1-7/16	0.5000	5	7	CR54572	CRB54572
15/16	1-5/8	0.6299	5	7	CR54573	CRB54573
1-1/16	1-13/16	0.7480	5	7	CR54574	CRB54574
1-3/16	2	0.8661	5	7	CR54575	CRB54575
1-5/16	2-3/16	0.9843	5	7	CR54576	CRB54576

1 per pack

Car Alignment Reamers

Car Alignment Reamers

A

High-Speed Steel Left Hand Helix

1/2" Straight Shank With 3 Flats On Shank Black & Gold Finish



BLITZ – BLACK & GOLD FINISH

CRB10055

MADE IN
U. S. A.



Specifically designed for enlarging and aligning existing holes in structural steel erection, automotive, truck / trailer manufacturing and maintenance work.

Features:

- Performs excellently in various types of metals – including stainless steel and tough alloys.
- Three flats on shank prevents slippage in three jaw chuck.
- Five flute.
- Deburr welded and punched holes.
- Built-in collar prevents overpenetration.
- Sizes .652 and .776 are primarily designed for shoulder bolts used on truck frames.



CR54555



5 PC. SETS
IN A HANDY ROLL

REAMER SIZE	DECIMAL EQUIV.	SHANK DIA.	POINT DIA.		FLUTE LENGTH	OVERALL LENGTH	STOCK #	
			ALFA USA	ECO PRO			ALFA USA	ECO PRO
1/4	.2500	1/2	—	5/32	2-1/2	4-3/8	—	CR54547
5/16	.3125	1/2	—	3/16	2-3/4	4-5/8	—	CR54548
3/8	.3750	3/8	13/64	15/64	3	5	CRB10049	CR54549
7/16	.4375	7/16	1/4	1/4	3-3/16	5-1/4	CRB10050	CR54550
1/2	.5000	1/2	1/4	5/16	3-5/8	5-15/16	CRB10051	CR54551
9/16	.5625	1/2	5/16	5/16	3-5/8	5-15/16	CRB10052	CR54552
5/8	.6250	1/2	3/8	5/16	4-1/4	6-9/16	CRB10053	CR54553
.652	.6520	1/2	3/8	5/16	4-1/4	6-9/16	CRB10053A	CR54553A
11/16	.6875	1/2	7/16	3/8	4-1/4	6-9/16	CRB10054	CR54554
3/4	.7500	1/2	1/2	1/2	4-9/16	7	CRB10055	CR54555
.776	.7760	1/2	1/2	1/2	4-9/16	7	CRB10055A	CR54555A
13/16	.8125	1/2	9/16	9/16	4-9/16	7	CRB10056	CR54556
7/8	.8750	1/2	5/8	5/8	4-9/16	7-1/4	CRB10057	CR54557
15/16	.9375	1/2	11/16	11/16	4-9/16	7-1/4	CRB10058	CR54558
1	1.0000	1/2	3/4	3/4	4-9/16	7-1/4	CRB10059	CR54559
1-1/16	1.0625	1/2	13/16	13/16	4-9/16	7-1/4	CRB10060	CR54560

1 per pack, 3/8" reamer has 3/8" shank, 7/16" reamer has 7/16" shank

Car Alignment Reamers

High-Speed Steel Left Hand Helix

Quick Change 7/16" Hex Shank Black & Gold Finish



7/16" HEX SHANK



Specifically designed for enlarging and aligning existing holes in structural steel erection, automotive, truck / trailer manufacturing and maintenance work.

Features:

- Performs excellently in various types of metals including stainless steel and tough alloys.
- Deburr welded and punched holes.
- Built-in collar prevents over-penetration.
- Can be used with a Quick Change or regular chuck.



REAMER SIZE	DECIMAL EQUIV.	SHANK DIA.	POINT DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
3/8	.3750	7/16	15/64	3	5	CRML54549
7/16	.4375	7/16	1/4	3-3/16	5-1/4	CRML54550
1/2	.5000	7/16	5/16	3-5/8	5-15/16	CRML54551
9/16	.5625	7/16	5/16	3-5/8	5-15/16	CRML54552
5/8	.6250	7/16	5/16	4-1/4	6-9/16	CRML54553
11/16	.6875	7/16	3/8	4-1/4	6-9/16	CRML54554
3/4	.7500	7/16	1/2	4-9/16	7	CRML54555
13/16	.8125	7/16	9/16	4-9/16	7	CRML54556
7/8	.8750	7/16	5/8	4-9/16	7-1/4	CRML54557
15/16	.9375	7/16	11/16	4-9/16	7-1/4	CRML54558
1	1.0000	7/16	3/4	4-9/16	7-1/4	CRML54559



5 PC. SETS
IN A HANDY ROLL

DESCRIPTION	STOCK #
Blitz Black & Gold Finish Set includes sizes: 3/8", 1/2", 9/16", 5/8" & 3/4"	CRML54565

1 per pack

Combined Drill & Countersinks (Center Drills)

High-Speed Steel

Plain Type 60° Included Angle



Features:

- Combined drill & countersinks are used for producing center holes in metal workpieces which requires machining between centers.
- Plain type is most commonly used.

ALFA USA **ECO PRO**

HIGH-SPEED STEEL

ASA NO.	DRILL DIA.	BODY DIA.	OVERALL LENGTH	STOCK #	
				ALFA USA	ECO-PRO
000	0.020	1/8	1-1/4	CDHK50448	CDH50448
00	0.025	1/8	1-1/4	CDHK50449	CDH50449
0	1/32	1/8	1-1/4	CDHK50450	CDH50450
1	3/64	1/8	1-1/4	CDHK50451	CDH50451
2	5/64	3/16	1-7/8	CDHK50452	CDH50452
3	7/64	1/4	2	CDHK50453	CDH50453
4	1/8	5/16	2-1/8	CDHK50454	CDH50454
5	3/16	7/16	2-3/4	CDHK50455	CDH50455
6	7/32	1/2	3	CDHK50456	CDH50456
7	1/4	5/8	3-1/4	CDHK50457	CDH50457
8	5/16	3/4	3-1/2	CDHK50458	CDH50458

000 to 4, 12 per pack, 5 to 6, 6 per pack, 7 to 8, 3 per pack

Metric sizes are available on request.

High-Speed Steel

Long Length Plain Type 60° Included Angle



Features:

- Plain type long length is used where extra reach is required.

ALFA USA **ECO PRO**

HIGH-SPEED STEEL

ASA NO.	DRILL DIA.	BODY DIA.	OVERALL LENGTH	STOCK #	
				ALFA USA	ECO-PRO
1	3/64	1/8	3	CDK50471	CD50471
1	3/64	1/8	4	CDK50472	CD50472
2	5/64	3/16	4	CDK50473	CD50473
2	5/64	3/16	5	CDK50474	CD50474
3	7/64	1/4	4	CDK50475	CD50475
3	7/64	1/4	5	CDK50476	CD50476
4	1/8	5/16	4	CDK50477	CD50477
4	1/8	5/16	5	CDK50478	CD50478
4	1/8	5/16	6	CDK50479	CD50479
5	3/16	7/16	5	CDK50480	CD50480
5	3/16	7/16	6	CDK50481	CD50481
6	7/32	1/2	5	CDK50482	CD50482
6	7/32	1/2	6	CDK50483	CD50483
7	1/4	5/8	6	CDK50484	CD50484
8	5/16	3/4	6	CDK50485	CD50485

1 to 4, 12 per pack, 5 to 8, 1 per pack

HSS COMBINED DRILL & COUNTERSINK SET

IN A WOOD STAND



SET QTY.	SIZE RANGE	STOCK #
		ALFA USA
5 Pcs.	Set Includes 1 each: Nos. 1, 2, 3, 4, 5	CDHK50465

Cobalt • Solid Carbide

Plain Type 60° Included Angle



Features:

- Used for making center holes in components.
- For workpieces requiring machining between centers.

ALFA USA **ALFA USA**

COBALT M42 SOLID CARBIDE

ASA NO.	DRILL DIA.	BODY DIA.	OVERALL LENGTH	STOCK #	
				ALFA USA	ALFA USA
000	0.020	1/8	1-1/4	CDCK50448	-
00	0.025	1/8	1-1/4	CDCK50449	-
0	1/32	1/8	1-1/4	CDCK50450	CDTC50450
1	3/64	1/8	1-1/4	CDCK50451	CDTC50451
2	5/64	3/16	1-7/8	CDCK50452	CDTC50452
3	7/64	1/4	2	CDCK50453	CDTC50453
4	1/8	5/16	2-1/8	CDCK50454	CDTC50454
5	3/16	7/16	2-3/4	CDCK50455	CDTC50455
6	7/32	1/2	3	CDCK50456	CDTC50456
7	1/4	5/8	3-1/4	CDCK50457	-
8	5/16	3/4	3-1/2	CDCK50458	-

1 per pack



• ALFA USA drills are made in the United States.



• ECO PRO drills are made outside the United States to ALFA TOOLS' specifications.

**TiN coating is available.
Details on request.**

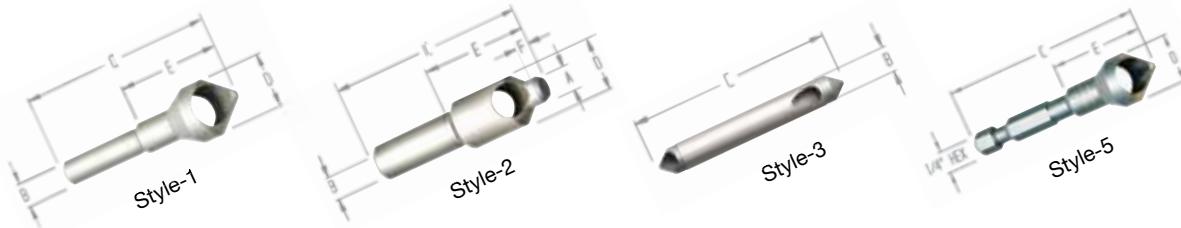
Countersink & Deburring Tools

High-Speed Steel

Fluteless Straight Shank

- Features:**
- High-speed steel tools offer unique designs and outstanding performance giving the workpiece an excellent finish.
 - Clean, chatterless cutting qualities.
 - Used in portable applications for multiple uses, including metal, plastic and wood

MADE IN
U. S. A.



82° COUNTERSINK & DEBURRING TOOLS

Countersinks

A

DIAMETER OF CUT		SCREW SIZE	A	SHANK DIA. B	OVERALL LENGTH C	D	E	F	STYLE	STOCK #	WELDON EQUIV.
MIN.	MAX.										
-	-	1/4	1/4	3/8	2	33/64	1	5/32	2	CD98710	CS8-1
-	-	1/4	17/64	3/8	2	33/64	1	5/32	2	CD98712	CS8-2
-	-	5/16	5/16	3/8	2-3/16	41/64	1-3/16	5/32	2	CD98714	CS10-1
-	-	5/16	21/64	3/8	2-3/16	41/64	1-3/16	5/32	2	CD98716	CS10-2
-	-	3/8	3/8	1/2	2-5/8	49/64	1-3/8	5/32	2	CD98718	CS12-1
-	-	3/8	25/64	1/2	2-5/8	49/64	1-3/8	5/32	2	CD98720	CS12-2
-	-	7/16	7/16	1/2	2-3/4	53/64	1-1/2	7/32	2	CD98722	CS14-1
-	-	7/16	29/64	1/2	2-3/4	53/64	1-1/2	7/32	2	CD98724	CS14-2
-	-	1/2	1/2	1/2	2-13/16	15/16	1-9/16	1/4	2	CD98726	CS16-1
-	-	1/2	33/64	1/2	2-13/16	15/16	1-9/16	1/4	2	CD98728	CS16-2
.073	15/64	-	-	1/4	1-3/4	-	-	-	3	CD98810	CS-3S
3/16	17/32	-	-	1/4	1-7/8	9/16	1	-	1	CD98820	CS-18
.307	25/32	-	-	1/2	2-5/8	13/16	1-3/8	-	1	CD98824	CS-26
.307	25/32	-	-	1/4	2-1/16	13/16	1-1/4	-	1	CD98822	CS-26A
.431	7/8	-	-	1/2	2-13/16	1-1/8	1-9/16	-	1	CD98826	CS-36
1/2	1-15/32	-	-	1/2	3-1/2	1-1/2	2-1/8	-	1	CD98828	CS-48
-	-	Nos. 4, 5	-	1/4	1-1/2	17/64	5/8	-	1	CD98812	CS-5S
-	-	No. 6	-	1/4	1-1/2	19/64	5/8	-	1	CD98814	CS-6S
-	-	No. 8	-	1/4	1-5/8	11/32	3/4	-	1	CD98816	CS-8S
-	-	No. 10	-	1/4	1-5/8	25/64	3/4	-	1	CD98818	CS-10S
1/4" HEX SHANK MONOLOCK®											
5/64	15/64	Nos. 2, 3, 4	-	Hex	1-27/32	1/4	3/4	-	5	CD98831	CS-3SH
1/8	11/32	Nos. 5, 6, 8	-	Hex	2	11/32	3/4	-	5	CD98832	CS-8SH
3/16	17/32	Nos. 10,12,14	-	Hex	2-5/16	9/16	1-1/16	-	5	CD98833	CS-18H

1 per pack

1/4" hex shanks are designed for use in power tools with quick change chucks and adapters.



SET

SET QTY.	SIZES	STOCK #
5 Pcs.	#0 - #4	CDT50510S



82° COUNTERSINK & DEBURRING TOOLS

SIZE	RANGE OF HOLE		SHANK DIA.	STOCK #	
	SMALL DIA.	LARGE DIA.		ENVELOPED	CARDED
0 (DE)	1/16	15/64	1/4	CDT50500	CDT50500C
1 (SE)	5/32	13/32	1/4	CDT50501	CDT50501C
2 (SE)	3/16	17/32	1/4	CDT50502	CDT50502C
3 (SE)	5/16	25/32	1/2	CDT50503	CDT50503C
4 (SE)	9/16	1-1/16	1/2	CDT50504	-
5 (SE)	5/8	1-15/32	1/2	CDT50505	-
6 (SE)	3/4	1-3/4	5/8	CDT50506	-
7 (SE)	1	2	5/8	CDT50507	-
8 (SE)	1-1/4	2-1/2	3/4	CDT50508	-

Bulk 0 to 3, 12 per pack, 4 and above, 1 per pack Card 0 to 3, 1 per card

Countersinks

High-Speed Steel • Right Hand Cut Straight Shank

- Features:**
- Large positive rake and single flute provide a smooth surface finish on many different materials.
 - Suitable for general purpose countersinking applications.

MADE IN
U. S. A.

Single Flute Countersink



ALFA USA SINGLE FLUTE NEW!

A BODY DIA.	B SHANK DIA.	C OVERALL LENGTH	ALFA USA STOCK #			
			82°	60°	90°	100°
1/8	1/8	1-1/4	CSF15001	CSF16001	CSF17001	CSF18001
3/16	3/16	1-3/8	CSF15002	CSF16002	CSF17002	CSF18002
1/4	1/4	1-1/2	CSF15003	CSF16003	CSF17003	CSF18003
3/8	1/4	1-3/4	CSF15004	CSF16004	CSF17004	CSF18004
1/2	1/4	2	CSF15005	CSF16005	CSF17005	CSF18005
5/8	3/8	2-1/4	CSF15006	CSF16006	CSF17006	CSF18006
3/4	1/2	2-5/8	CSF15007	CSF16007	CSF17007	CSF18007
1	1/2	2-3/4	CSF15008	CSF16008	CSF17008	CSF18008
1-1/4	1/2	2-3/4	CSF15009	CSF16009*	CSF17009	CSF18009
1-1/2	3/4	2-7/8	CSF15010	CSF16010*	CSF17010	CSF18010
1-3/4	3/4	3	CSF15011	CSF16011*	CSF17011	CSF18011
2	3/4	3-1/4	CSF15012	CSF16012*	CSF17012	CSF18012

1 per pack

*For 60°, OAL is 3", 3-1/4", 3-1/2" and 3-3/4".

ECO PRO SINGLE FLUTE



A BODY DIA.	B SHANK DIA.	C OVERALL LENGTH	ECO PRO STOCK #				
			82°	82°	60°	90°	100°
			ENVELOPED	CARDED			
3/16	3/16	1-1/2	CSF50521	CSF50521CD	CSF50521A	CSF50521B	CSF50521C
1/4	1/4	2	CSF50522	CSF50522CD	CSF50522A	CSF50522B	CSF50522C
5/16	1/4	2	CSF50523	CSF50523CD	CSF50523A	CSF50523B	CSF50523C
3/8	1/4	2	CSF50524	CSF50524CD	CSF50524A	CSF50524B	CSF50524C
1/2	1/4	2	CSF50525	CSF50525CD	CSF50525A	CSF50525B	CSF50525C
5/8	1/2	2-3/4	CSF50526	CSF50526CD	CSF50526A	CSF50526B	CSF50526C
3/4	1/2	2-3/4	CSF50527	CSF50527CD	CSF50527A	CSF50527B	CSF50527C
7/8	1/2	2-3/4	CSF50528	CSF50528CD	CSF50528A	CSF50528B	CSF50528C
1	1/2	2-3/4	CSF50529	CSF50529CD	CSF50529A	CSF50529B	CSF50529C
1-1/4	3/4	3-3/8	CSF50530	CSF50530CD	CSF50530A	CSF50530B	CSF50530C
1-1/2	3/4	3-1/2	CSF50531	CSF50531CD	CSF50531A	CSF50531B	CSF50531C
2	3/4	3-3/4	CSF50532	CSF50532CD	CSF50532A	CSF50532B	CSF50532C

1 per pack

1 per card

SETS

SET QTY.	SIZES	STOCK #			
		82°	60°	90°	100°
ALFA USA SINGLE FLUTE 					
5 Pcs.	1/4", 3/8", 1/2", 3/4", 1"	CSF15020	CSF16020	CSF17020	-
ECO PRO SINGLE FLUTE 					
5 Pcs.	1/4", 3/8", 1/2", 3/4", 1"	CSF50570	CSF50570A	CSF50570B	CSF50570C
9 Pcs.	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1"	CSF50571	CSF50571A	CSF50571B	CSF50571C
12 Pcs.	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 2"	CSF50572	CSF50572A	CSF50572B	CSF50572C



Countersinks

A

Countersinks - Cont.

Countersinks

A

High-Speed Steel

82°, 60° & 90° Point Angle

Straight Shank

THREE FLUTE

A BODY DIA.	B SHANK DIA.	C OVERALL LENGTH	STOCK #		
			82°	60°	90°
1/4	3/16	1-1/2	C3F50533	C3F50533A	C3F50533B
3/8	1/4	1-3/4	C3F50534	C3F50534A	C3F50534B
1/2	3/8	2	C3F50535	C3F50535A	C3F50535B
5/8	3/8	2-1/4	C3F50536	C3F50536A	C3F50536B
3/4	1/2	2-5/8	C3F50537	C3F50537A	C3F50537B
7/8	1/2	2-3/4	C3F50542	-	-
1	1/2	2-3/4	C3F50538	C3F50538A	C3F50538B
1-1/4	3/4	3	C3F50539	C3F50539A	C3F50539B
1-1/2	3/4	3	C3F50540	C3F50540A	C3F50540B
2	3/4	3-1/4	C3F50541	C3F50541A	C3F50541B

FOUR FLUTE

1/2	1/2	3-7/8	C4F50542	C4F50542A	C4F50542B
5/8	1/2	4	C4F50543	C4F50543A	C4F50543B
3/4	1/2	4-1/8	C4F50544	C4F50544A	C4F50544B
7/8	1/2	4-1/4	C4F50545	C4F50545A	C4F50545B
1	1/2	4-3/8	C4F50546	C4F50546A	C4F50546B

SIX FLUTE

1/4	1/4	2	C6F50547	C6F50547A	C6F50547B
5/16	1/4	2	C6F50548	C6F50548A	C6F50548B
3/8	1/4	2	C6F50549	C6F50549A	C6F50549B
1/2	1/4	2	C6F50550	C6F50550A	C6F50550B
5/8	1/2	2-3/4	C6F50551	C6F50551A	C6F50551B
3/4	1/2	2-3/4	C6F50552	C6F50552A	C6F50552B
7/8	1/2	2-3/4	C6F50553	C6F50553A	C6F50553B
1	1/2	2-3/4	C6F50554	C6F50554A	C6F50554B
1-1/4	3/4	3-3/8	C6F50555	C6F50555A	C6F50555B
1-1/2	3/4	3-1/2	C6F50556	C6F50556A	C6F50556B
1-3/4	1	4-1/4	C6F50557	C6F50557A	C6F50557B
2	1	4-3/8	C6F50558	C6F50558A	C6F50558B

1 per pack



MONOLOCK® FIVE FLUTE

BODY DIA.	SHANK DIA.	STOCK #	
		BULK	CARDED
3/8	1/4" Hex	C5F50561	C5F50561C
1/2	1/4" Hex	C5F50562	C5F50562C
5/8	1/4" Hex	C5F50563	C5F50563C
3/4	1/4" Hex	C5F50564	C5F50564C

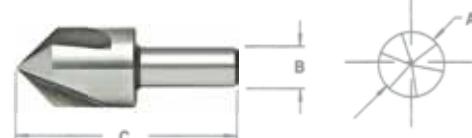
Bulk 1 per pack, Card 1 per card

SETS

SET QTY.	SIZES	STOCK #		
		82°	60°	90°
THREE FLUTE				
5 Pcs.	1/4", 3/8", 1/2", 3/4", 1"	C3F50573	C3F50573A	C3F50573B
SIX FLUTE				
8 Pcs.	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1"	C6F50574	C6F50574A	C6F50574B
10 Pcs.	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2"	C6F50575	C6F50575A	C6F50575B
MONOLOCK® FIVE FLUTE				
4 Pcs.	3/8", 1/2", 5/8", 3/4"	C5F50565	-	-



Three Flute Countersink/ Center Reamer



Four Flute Machine Countersink



Six Flute Chatterless Countersink



Five Flute 1/4" Hex Power Shank 82° Angle



Carbide Countersinks

High Performance Solid Carbide

**82°, 60° & 90° Point Angle
Straight Shank**

Available in Single, 3 and 6 Flutes

NEW!



Features:

- Wear-resistant, heat-resistant micrograin solid carbide provides increased tool life in production applications.
- Ideal for highly abrasive and hard to machine materials, e.g. cast iron, alloy steel and glass reinforced plastics. Not recommended for use in hardened steel.
- Suitable for chamfering, countersinking and deburring holes.



Countersinks • Counterbores

A

A BODY DIA.	B SHANK DIA.	C OVERALL LENGTH	STOCK #		
			82°	60°	90°
SINGLE FLUTE					
1/8	1/8	1-1/2	CC1F68220	CC1F66020	CC1F69020
3/16	3/16	2	CC1F68221	CC1F66021	CC1F69021
1/4	1/4	2	CC1F68222	CC1F66022	CC1F69022
3/8	1/4	2-5/8	CC1F68224	CC1F66024	CC1F69024
1/2	1/4	2-7/8	CC1F68225	CC1F66025	CC1F69025
5/8	3/8	3	CC1F68226	CC1F66026	CC1F69026
3/4	1/2	3	CC1F68227	CC1F66027	CC1F69027
1	1/2	2-3/4	CC1F68229	CC1F66029	CC1F69029
THREE FLUTE					
1/8	1/8	1-1/2	CC3F68231	CC3F66031	CC3F69031
3/16	3/16	2	CC3F68232	CC3F66032	CC3F69032
1/4	1/4	2	CC3F68233	CC3F66033	CC3F69033
3/8	1/4	2-5/8	CC3F68234	CC3F66034	CC3F69034
1/2	1/4	2-7/8	CC3F68235	CC3F66035	CC3F69035
5/8	3/8	3	CC3F68236	CC3F66036	CC3F69036
3/4	1/2	3	CC3F68237	CC3F66037	CC3F69037
1	1/2	2-3/4	CC3F68238	CC3F66038	CC3F69038
SIX FLUTE					
1/8	1/8	1-1/2	CC6F68245	CC6F66045	CC6F69045
3/16	3/16	2	CC6F68246	CC6F66046	CC6F69046
1/4	1/4	2	CC6F68247	CC6F66047	CC6F69047
3/8	1/4	2-5/8	CC6F68249	CC6F66049	CC6F69049
1/2	1/4	2-7/8	CC6F68250	CC6F66050	CC6F69050
5/8	3/8	3	CC6F68251	CC6F66051	CC6F69051
3/4	1/2	3	CC6F68252	CC6F66052	CC6F69052
1	1/2	2-3/4	CC6F68254	CC6F66054	CC6F69054

1 per pack

Cap Screw Counterbores

High-Speed Steel

**Solid Pilot
Three Flutes
Straight Shank**

- Features:
- Used to enlarge the end of a preformed hole to the head size of a cap screw.
 - Three flute counterbore reduces chatter and improves finish.



FRACTIONAL

CAP SCREW SIZE	PILOT DIA.	CUTTER DIA.	SHANK DIA.	OVERALL LENGTH	STOCK #
#5	.141	.221	3/16	3	CSC55651
#6	.150	.242	7/32	3	CSC55652
#8	11/64	19/64	1/4	3	CSC55653
#10	13/64	21/64	5/16	3-1/2	CSC55654
1/4	9/32	13/32	3/8	5	CSC55655
5/16	11/32	1/2	7/16	5	CSC55656
3/8	13/32	19/32	1/2	6	CSC55657
7/16	15/32	11/16	1/2	7	CSC55658
1/2	17/32	25/32	1/2	7-1/2	CSC55659
1/2	17/32	25/32	3/4	7-1/2	CSC55660
1/2	9/16	13/16	3/4	7-1/2	CSC55661
5/8	21/32	31/32	3/4	7-1/2	CSC55662
5/8	11/16	1	3/4	7-1/2	CSC55663
3/4	13/16	1-3/16	1	8	CSC55664
7/8	15/16	1-3/8	1	8	CSC55665
1	1-1/16	1-9/16	1	10	CSC55666

1 per pack

CAP SCREW SIZE MM	PILOT DIA. MM	CUTTER DIA. MM	SHANK DIA. MM	OVERALL LENGTH MM	STOCK #
M3	3.4	6	5.556	25.400	CSC55681
M4	4.5	8	7.938	25.400	CSC55682
M5	5.5	10	9.525	31.750	CSC55683
M6	6.6	11	11.112	34.925	CSC55684
M8	9	15	12.700	38.894	CSC55685
M10	11	18	12.700	44.450	CSC55686
M12	14	20	12.700	50.800	CSC55687

1 per pack

A-73

Drill Accessories



Sleeves & Keys

Morse Taper Shank Tools

DRILL SLEEVES

PRECISION MADE, HARDENED & GROUNDED



Features:

- Drill sleeves, also known as reducing sleeves, or shell sockets, are used to adapt taper shank tools where the drill shank is smaller than the machine spindle hole.

SIZE	MORSE TAPER		STOCK #
	INSIDE	OUTSIDE	
1 to 2	1	2	DS1601
1 to 3	1	3	DS1602
1 to 4	1	4	DS1603
1 to 5	1	5	DS1603A
2 to 3	2	3	DS1604
2 to 4	2	4	DS1605
2 to 5	2	5	DS1606
3 to 4	3	4	DS1607
3 to 5	3	5	DS1608
4 to 5	4	5	DS1609
4 to 6	4	6	DS1610
5 to 6	5	6	DS1611

1 per pack

EXTENSION SOCKETS

PRECISION MADE, HARDENED & GROUNDED



Features:

- Extension sockets are used to adapt taper shank tools where drill shank is larger than the machine spindle hole. They also provide additional reach necessary in some operations.

SIZE	MORSE TAPER		STOCK #
	INSIDE	OUTSIDE	
2 to 1	2	1	DS1651
1 to 2	1	2	DS1652
2 to 2	2	2	DS1653
3 to 2	3	2	DS1654
4 to 2	4	2	DS1655
1 to 3	1	3	DS1656
2 to 3	2	3	DS1657
3 to 3	3	3	DS1658
4 to 3	4	3	DS1659
1 to 4	1	4	DS1661
2 to 4	2	4	DS1662
3 to 4	3	4	DS1663
4 to 4	4	4	DS1664
5 to 4	5	4	DS1665
1 to 5	1	5	DS1665A
4 to 5	4	5	DS1667
5 to 5	5	5	DS1668
5 to 6	5	6	DS1671

1 per pack

DRILL DRIFTS

DROP FORGED / HARDENED



Style A

Style B

Features:

- Drifts are used to safely eject taper shank tools from the holder or machine spindles.

SIZE	FITS MORSE TAPER	STOCK #
STYLE "A"		
1	1 M.T.	DDK2001
2	2 M.T.	DDK2002
3	3 M.T.	DDK2003
4	4 M.T.	DDK2004
5	5 M.T.	DDK2005
STYLE "B"		
1	1 M.T.	DDK2011
2	2 M.T.	DDK2014
3	3 M.T.	DDK2013
4	4 M.T.	DDK2014
5	5 M.T.	DDK2015

1 per pack

MORSE TAPER ADAPTORS

For adapting most taper shank tools
to drills with 1/2" chuck.



Features:

- This unique adaptor was specially developed to make possible the use of a taper shank drill with a 3 jaw 1/2" chuck or collet.



MORSE TAPER HOLE	SHANK DIA.	OVERALL LENGTH	STOCK #
2	1/2	5-3/4	DS1692
3	1/2	6-1/2	DS1693
4	1/2	7-7/8	DS1694

1 per pack



Features:

- Quick Change chucks enable instantaneous changing of tooling in the workplace.
- Converts the power tool into a multi-function work arm, without the need for key tightening each tool – saving time and providing positive tool load.
- Monolock® chucks fit either directly into any adjustable jaw powerdrill chuck or a 1/4" hex power driver.
- Hex shank on the chuck prevents slippage within the power tool jaw chuck.
- All this is quickly achieved by actuating the chuck sleeve using two fingers.
- Simply insert the Monolock® chuck into your existing power drill chuck, tighten in place and you can insert and remove hex tools and bits in a snap.

HEX SHANK	SHANK SIZE	STOCK #
1/4"	3/8" Hex Converts a 3/8" power tool for 1/4" hex shank tools.	HSA51070
1/4"	1/4" Hex For the hobbyist.	HSA51071
1/4"	3/8" Hex Slim chuck to reach narrow areas.	HSA51072
3/8"	3/8" Hex For 3/8" hex shank tools.	HSA51073
7/16"	7/16" Hex For 7/16" hex shank tools.	HSA51074

1 per pack



ALL HEX POWER BIT EXTENSIONS

Features:

- Adds extra reach to any 1/4" hex shank bit, with or without power groove.
- Extension head will follow 5/8" and larger bits through hole.
- Takes all standard ANSI, DIN and JIS.
- Holds screwdriver bits 1" and larger.
- Replaces all magnetic / non-magnetic bit holders.

NEW!

HEX SHANK	OVERALL LENGTH	STOCK #
1/4"	3-1/2"	HSA51076
1/4"	8"	HSA51077
1/4"	12"	HSA51078

1 per pack



Portable Tool Chucks

KEYLESS HAND-TITE DRILL CHUCKS

SIZE CAPACITY				MOUNT SIZE	STOCK #	
MIN.		MAX.			JACOBS	LFA
3/64	0.040	3/8	0.375	3/8-24	JC30354	LFA52043
1/16	0.062	1/2	0.500	1/2-20	JC31038	LFA52252
1/16	0.062	1/2	0.500	3/8-24	JC31037	LFA52269



JC31038

LFA52252



JC30602

LFA42208

JC6232

LFA84659

KEYLESS HAND-TITE HAMMER DRILL CHUCKS

SIZE CAPACITY				MOUNT SIZE	STOCK #	
MIN.		MAX.			JACOBS	LFA
1/16	0.062	3/8	0.375	3/8-24	KG1	JC30247
5/64	0.078	1/2	0.500	3/8-24	KK	JC30598
5/64	0.078	1/2	0.500	1/2-20	KK	JC30602
					—	LFA53211

MULTI-CRAFT KEY-TYPE CHUCKS

SIZE CAPACITY				MOUNT SIZE	KEY #	STOCK #	
MIN.		MAX.				JACOBS	LFA
1/16	0.062	3/8	0.375	3/8-24	KG1	JC30247	LFA42086
5/64	0.078	1/2	0.500	3/8-24	KK	JC30598	LFA42204
5/64	0.078	1/2	0.500	1/2-20	KK	JC30602	LFA42208

PLAIN BEARING KEY-TYPE CHUCKS

SIZE CAPACITY				MOUNT SIZE	KEY #	STOCK #			
MIN.		MAX.				JACOBS	LFA		
TAPER MOUNTED - HEAVY DUTY									
1/8	0.125	5/8	0.625	3JT	K3	JC6223	LFA84635		
1/8	0.125	5/8	0.625	3JT	K3	JC6228	LFA45309		
3/16	0.180	13/16	0.750	3JT	K4/K3 ¹	JC6309	LFA45308		
THREAD MOUNTED - HEAVY DUTY									
1/8	0.125	5/8	0.625	5/8-16	K4/K3 ¹	JC6232	LFA84659		
THREAD MOUNTED - MEDIUM DUTY									
3/64	0.040	3/8	0.375	3/8-24	K2	JC6219	LFA82235		
3/64	0.040	3/8	0.375	1/2-20	K30/K32 ²	JC31090	LFA82518		
5/64	0.080	1/2	0.500	1/2-20	K32	JC6287	LFA43229		
5/64	0.080	1/2	0.500	3/8-24	K32	JC6283	LFA43380		

1. Jacobs K4 / LFA K3

2. Jacobs K30 / LFA K32

HEAVY DUTY CHUCKS

Jacobs Heavy duty chucks have thrust ball bearings.
LFA Heavy duty chucks use spiral Teflon sleeve bearings.

SIZE CAPACITY				MOUNT SIZE	KEY #	STOCK #	
MIN.		MAX.				JACOBS	LFA
3/64	0.040	3/8	0.375	2JT	K32	JC30215	LFA82556
3/64	0.040	1/2	0.500	3JT	K3	JC30221	LFA83638
1/8	0.125	5/8	0.625	3JT	K4/K3 ⁴	JC30227	LFA84556
1/8	0.125	3/4	0.750	4JT	K4	JC30233	LFA85977
3/8	0.375	1	1.000	5JT/4JT ³	K5/K4 ⁵	JC30239	LFA85960

3. Jacobs 5JT / LFA 4JT

4. Jacobs K4 / LFA K3

5. Jacobs K5 / LFA K4



JC30239



LFA85960

Adaptors • Keys • Drill Stop Collars

ADAPTOR CHUCKS

- Converts power tools to cordless screwdrivers and cordless screwdrivers to power tools.

SIZE CAPACITY	MOUNT SIZE	KEY #	STOCK #
1/4"	1/4" - 20	KG1	JC30248
1/4" Hex	3/8"	-	HSA51070

1 per pack



K2, K3, K30, K32



KK, KG1



MADE IN
U. S. A.



Accepts
1/4" Hex
Shank



Acetylene
Cylinder
Key



MK1



LEASH

CHUCK KEYS

- Handles constructed of soft steel to reduce risk of fracture.
- Nickel thumb grip handles increase leverage and comfort.

KEY #	PILOT SIZE	SUITABLE FOR		STOCK #	
		JACOBS CHUCK NO.	LFA CHUCK NO.	JACOBS	LFA
K2	1/4"	6219	82235	JC3649	CK2016
K3	5/16"	30221 / 6223 / 6228	83638 / 84635 / 45309	JC3651	CK2017
K30	15/64"	31090	82518	JC3664	CK2018
K32	1/4"	30215 / 6287 / 6283	82556 / 43229 / 43380	JC3666	CK2019
KK	9/32"	30598 / 30602	42204 / 42208	JC30052	CK2020
KG1	1/4"	30247	42086	JC14273	CK2021
K4	3/8"	30227 / 30233 6309 / 6232	84556 / 85977 / 45308 / 84659	JC3655	CK2027
K5	7/16"	30239	85960	JC3657	CK2028

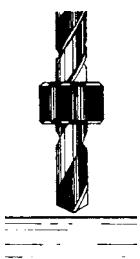
Fast, Easy & Accurate

- Precision machined from cold rolled steel. Cap pointed socket screw for securing to shaft. Zinc plated.

SHAFT COLLARS

INSIDE DIA.	OUTSIDE DIA.	WIDTH	SCREW SIZE	STOCK #
1/8"	3/8"	1/4"	#6-32	DC001
3/16"	1/2"	1/2"	#10-32	DC015
1/4"	5/8"	3/8"	#10-32	DC002
5/16"	5/8"	3/8"	#10-32	DC025
3/8"	3/4"	7/16"	1/4"-28	DC003
7/16"	7/8"	1/2"	1/4"-28	DC035
1/2"	7/8"	1/2"	1/4"-28	DC004
5/8"	1-1/8"	1/2"	1/4"-28	DC005
3/4"	1-1/4"	1/2"	5/16"-18	DC006
7/8"	1-3/8"	9/16"	5/16"-18	DC007
1"	1-1/2"	9/16"	5/16"-18	DC008
1-1/8"	1-3/4"	9/16"	5/16"-18	DC009
1-1/2"	2-1/4"	3/4"	3/8"-16	DC012

1/8" to 1", 6 per pack, 1-1/8" to 1-1/2", 3 per pack



ADJUSTABLE DRILL STOP COLLAR SET



Features:

- Takes the guesswork out of drilling.
- To use: Just slip the collar over drill bits; measure desired depth; then tighten set screw. Will drill to uniform depth every time.

SET QTY.	SIZES	STOCK #
7 Pcs.	1 each size: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	DC1699

1 per polybag

Jobber Drill Sets

Drill Sets

A

13 Pc. Set

1/16"- 1/4"
by 64ths
in metal index



JOBBER LENGTH

15 Pc. Set

1/16"- 1/2" by 32nds
in metal index



J150193

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HSS BLITZ® NITRIDE			
Black & Silver	135° Split Pt.	Alfa USA	BBN74594
HSS 3-FLATTED			
Black Oxide	135° Split Pt.	Alfa USA	SFL50194
HSS BLITZ BITS			
Black & Gold	135° Split Pt.	Alfa USA	BB74194
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150194
Bright Finish	118° Point	Alfa USA	J150194B
Black Oxide	135° Split Pt.	Alfa USA	S150194
Bright Finish	135° Split Pt.	Alfa USA	S150194B
Bright Finish	118° Pt. Left Hand	Alfa USA	JDL50194
Black Oxide	118° Point	Eco Pro	J250194
Black Oxide	135° Split Pt.	Eco Pro	S250194
HSS TiN COATED			
Gold Finish	118° Point	Alfa USA	J150194TN
Gold Finish	135° Split Pt.	Alfa USA	S150194TN
HSS TiN TIPPED			
TiN Tipped	135° Split Pt.	Eco Pro	S40194TT
COBALT			
Straw Gold	135° Split Pt.	Alfa USA	CO50194
Straw Gold	135° Sp Pt. Left Hand	Alfa USA	JDLC093194
SOLID CARBIDE			
Bright Finish	118° Point	Alfa USA	ST50194

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HSS BLITZ® NITRIDE			
Black & Silver	135° Split Pt.	Alfa USA	BBN74593
HSS 3-FLATTED			
Black Oxide	135° Split Pt.	Alfa USA	SFL50193
HSS BLITZ BITS			
Black & Gold	135° Split Pt.	Alfa USA	BB74193
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150193
Bright Finish	118° Point	Alfa USA	J150193B
Black Oxide	135° Split Pt.	Alfa USA	S150193
Bright Finish	135° Split Pt.	Alfa USA	S150193B
Bright Finish	118° Pt. Left Hand	Alfa USA	JDL50193
Black Oxide	118° Point	Eco Pro	J250193
Black Oxide	135° Split Pt.	Eco Pro	S250193
HSS TiN COATED			
Gold Finish	118° Point	Alfa USA	J150193TN
Gold Finish	135° Split Pt.	Alfa USA	S150193TN
HSS TiN TIPPED			
TiN Tipped	135° Split Pt.	Eco Pro	S40193TT
COBALT			
Straw Gold	135° Split Pt.	Alfa USA	CO50193
Straw Gold	135° Sp Pt. Left Hand	Alfa USA	JDLC093193
SOLID CARBIDE			
Bright Finish HD	118° Point	Alfa USA	ST50193

21 Pc. Set

1/16"- 3/8"
by 64ths
in metal index



COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HSS BLITZ® NITRIDE			
Black & Silver	135° Split Pt.	Alfa USA	BBN74592
HSS 3-FLATTED			
Black Oxide	135° Split Pt.	Alfa USA	SFL50192
HSS BLITZ BITS			
Black & Gold	135° Split Pt.	Alfa USA	BB74192
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150192
Bright Finish	118° Point	Alfa USA	J150192B
Black Oxide	135° Split Pt.	Alfa USA	S150192
Bright Finish	135° Split Pt.	Alfa USA	S150192B
Bright Finish	118° Pt. Left Hand	Alfa USA	JDL50192
Black Oxide	118° Point	Eco Pro	J250192
Black Oxide	135° Split Pt.	Eco Pro	S250192
HSS TiN COATED			
Gold Finish	118° Point	Alfa USA	J150192TN
Gold Finish	135° Split Pt.	Alfa USA	S150192TN
HSS TiN TIPPED			
TiN Tipped	135° Split Pt.	Eco Pro	S40192TT
COBALT			
Straw Gold	135° Split Pt.	Alfa USA	CO50192
Straw Gold	135° Sp Pt. Left Hand	Alfa USA	JDLC093192
SOLID CARBIDE			
Bright Finish	118° Point	Alfa USA	ST50192

26 Pc. Letter Size Set

A - Z
in metal index



COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HSS BLITZ BITS®			
Black & Gold	135° Split Pt.	Alfa USA	BB74197
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150197
Bright Finish	118° Point	Alfa USA	J150197B
Black Oxide	135° Split Pt.	Alfa USA	S150197
Bright Finish	135° Split Pt.	Alfa USA	S150197B
Black Oxide	118° Point	Eco Pro	J250197
Black Oxide	135° Split Pt.	Eco Pro	S250197
HSS TiN COATED			
Gold Finish	118° Point	Alfa USA	J150197TN
Gold Finish	135° Split Pt.	Alfa USA	S150197TN
COBALT			
Straw Gold	135° Split Pt.	Alfa USA	CO50197

Jobber Drill Sets - Cont.

29 Pc. Set

1/16" - 1/2" by 64ths

in metal index



J250190

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HSS BLITZ® NITRIDE			
Black & Silver	135° Split Pt.	Alfa USA	BBN74590
HSS 3-FLATTED			
Black Oxide	135° Split Pt.	Alfa USA	SFL50190
HSS BLITZ BITS			
Black & Gold	135° Split Pt.	Alfa USA	BB74190
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150190
Bright Finish	118° Point	Alfa USA	J150190B
Black Oxide	135° Split Pt.	Alfa USA	S150190
Bright Finish	135° Split Pt.	Alfa USA	S150190B
Bright Finish	118° Pt. Left Hand	Alfa USA	JDL50190
Black Oxide	118° Point	Eco Pro	J250190
Black Oxide	135° Split Pt.	Eco Pro	S250190
HSS TiN COATED			
Gold Finish	118° Point	Alfa USA	J150190TN
Gold Finish	135° Split Pt.	Alfa USA	S150190TN
HSS TiN TIPPED			
TiN Tipped	135° Split Pt.	Eco Pro	S40191TT
COBALT			
Straw Gold	135° Split Pt.	Alfa USA	CO50191
Straw Gold	135° Sp Pt. Left Hand	Alfa USA	JDLCO93190
SOLID CARBIDE			
Bright Finish	118° Point	Alfa USA	ST50190
HSS BULLET PILOT POINT			
1/16" - 1/2" by 64ths		Eco Pro*	RS50186BD
*Sizes 1/16" - 11/64" are 135° Split Pt. Bright			
*Sizes 25/64" to 1/2" have 3/8" Shank			

29 Pc. Set In Plastic Index

1/16" - 1/2"
by 64ths



S150190BPL

NEW!

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HIGH-SPEED STEEL			
Black Oxide	135° Split Pt.	Alfa USA	S150190PL
Bright Finish	135° Split Pt.	Alfa USA	S150190BPL

60 Pc. Wire Gage Set

#1 - #60

in metal index



COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HSS BLITZ BITS®			
Black & Gold	135° Split Pt.	Alfa USA	BB74191
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150191
Bright Finish	118° Point	Alfa USA	J150191B
Black Oxide	135° Split Pt.	Alfa USA	S150191
Bright Finish	135° Split Pt.	Alfa USA	S150191B
Bright Finish	118° Pt. Left Hand	Alfa USA	JDL50191
Black Oxide	118° Point	Eco Pro	J250191
Black Oxide	135° Split Pt.	Eco Pro	S250191
HSS TiN COATED			
Gold Finish	118° Point	Alfa USA	J150191TN
Gold Finish	135° Split Pt.	Alfa USA	S150191TN
HSS TiN TIPPED			
TiN Tipped	135° Split Pt.	Eco Pro	S40191TT
COBALT			
Straw Gold	135° Split Pt.	Alfa USA	CO50191

115 Pc. Set

1/16" - 1/2"

by 64ths,

#1 - #60,

A - Z

Letter Sizes

in metal index



CO50199

Drill Sets

A

20 Pc. Wire Gage Set

#61 - #80

in metal index



J150189

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150189
Bright Finish	118° Point	Alfa USA	J150189B

Jobber Drill Sets - Cont.

19 Pc. Metric Set

1.0 - 10.0mm
by .5mm
in metal index



MJ150198A

25 Pc. Metric Set

1.0 - 13.0mm
by .5mm
in metal index



COM50198

HIGH-SPEED STEEL

Black Oxide	118° Point	Alfa USA	MJ150198
Black Oxide	118° Point	Eco Pro	MJ250198

COBALT

Straw Gold	135° Split Pt.	Alfa USA	COM50198
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13 Pc. Dial-A-Drill Set

1/16" - 1/4"
by 64ths
in Dial-A-Drill Case



S150195DB

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150195D
Bright Finish	118° Point	Alfa USA	J150195DB
Black Oxide	135° Split Pt.	Alfa USA	S150195D
Bright Finish	135° Split Pt.	Alfa USA	S150195DB

21 Pc. Dial-A-Drill Set

1/16" - 3/8"
by 64ths
in Dial-A-Drill Case



J160195D

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J160195D
Bright Finish	118° Point	Alfa USA	J160195DB
Black Oxide	135° Split Pt.	Alfa USA	S160195D
Bright Finish	135° Split Pt.	Alfa USA	S160195DB

29 Pc. Drill Mug Set

1/16" - 1/2"
by 64ths
in handy holder



BBML74290DM

DRILL MUG

29 Pc. Drill Bit Index

MADE IN
 U. S. A.



- 4" diameter high-impact plastic resin storage index.
- Keeps drill bits secure, clean and accessible.
- Holds 29 drills from 1/16" to 1/2" in 1/64" increments.
- Drill sizes clearly marked to keep proper drill close at hand.
- Weather-resistant screwtop cap.
- Side-clip secures index to tool belts, work carts & tool boxes.
- Private label available.

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
BLITZ BITS® MECHANIC'S LENGTH			
Black & Gold	135° Split Pt.	Alfa USA	BBML74290DM
Black & Gold	135° Split Pt. 3 Flats, 3/8" Red. Shank	Alfa USA	BBML74290RDM
HSS BLITZ® NITRIIDE			
Black & Silver	135° Split Pt.	Alfa USA	BBN74590DM
HSS 3-FLATTED			
Black Oxide	135° Split Pt.	Alfa USA	SFL50190DM
HSS BLITZ BITS®			
Black & Gold	135° Split Pt.	Alfa USA	BB74190DM
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150190DM
Bright Finish	118° Point	Alfa USA	J150190BDM
Black Oxide	135° Split Pt.	Alfa USA	S150190DM
Bright Finish	135° Split Pt.	Alfa USA	S150190BDM
Black Oxide	118° Point	Eco Pro	J250190DM
Black Oxide	135° Split Pt.	Eco Pro	S250190DM
HSS TiN COATED			
Gold Finish	118° Point	Alfa USA	J150190TNDM
Gold Finish	135° Split Pt.	Alfa USA	S150190TNDM
HSS TiN TIPPED			
TiN Tipped	135° Split Pt.	Eco Pro	S40190TTDM
COBALT			
Straw Gold	135° Split Pt.	Alfa USA	CO50190DM

Reduced Shank Drill Sets

3/8" REDUCED SHANK MECHANIC'S LENGTH



BBML74290R

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HSS BLITZ BITS			
15 Pc. Set	1/16" - 1/2" by 32nds		
Black & Gold 135° Split Pt. Alfa USA BBML74293R			
29 Pc. Set	1/16" - 1/2" by 64ths		
Black & Gold 135° Split Pt. Alfa USA BBML74290R			

3/8" REDUCED SHANK JOBBER LENGTH



RS150193

15 Pc. Set

1/16" - 1/2"
by 32nds

in metal index

HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	RS150193
Black Oxide	135° Split Pt.	Alfa USA	RSS150193
HSS BLITZ BITS			
Black & Gold	135° Split Pt.	Alfa USA	BBRS74193

29 Pc. Set

1/16" - 1/2"
by 64ths

in metal index



RSCO50186

HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	RS150186
Black Oxide	135° Split Pt.	Alfa USA	RSS150186
HSS BLITZ BITS			
Black & Gold	135° Split Pt.	Alfa USA	BB74186

1/4" REDUCED SHANK JOBBER LENGTH

29 Pc. Set 1/16" - 1/2" by 64ths in metal index

HIGH-SPEED STEEL			
Black Oxide	118° Point	Eco Pro	RS250187

1/2" REDUCED SHANK SILVER & DEMING

8 Pc. Set

9/16" - 1"
by 1/16ths

3 Flats on Shank
in metal index



SDCO50449A

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	SD50449A
Black Oxide	118° Point	Eco Pro	SD250449A
HSS BLITZ BITS			
Black & Gold	118° Split Pt.	Alfa USA	SDBB50449A
COBALT			
Straw Gold	118° Split Pt.	Alfa USA	SDCO50449A

33 Pc. Set

1/2" - 1"
by 64ths

3 Flats on Shank
in metal stand



SD50450

HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	SD50450
Black Oxide	118° Point	Eco Pro*	SD250450
HSS BLITZ BITS			
Black & Gold	118° Point	Alfa USA	SDBB50450
COBALT			
Straw Gold	118° Split Pt.	Alfa USA	SDCO50450

8 Pc. Set

9/16" - 1"
by 1/16ths

3 Flats on Shank
in plastic case



HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	SD50449PL
Black Oxide	118° Point	Eco Pro	SD250449PL
HSS BLITZ BITS			
Black & Gold	118° Split Pt.	Alfa USA	SDBB50449PL
COBALT			
Straw Gold	118° Split Pt.	Alfa USA	SDCO50449PL

Drill Sets

Drill Sets

TAPER LENGTH DRILLS

16 Pc. Set

33/64" - 3/4"
by 64ths
in metal index



TLCO50393

SHANK TYPE POINT ANGLE STOCK

HIGH-SPEED STEEL

Straight Shank	118° Standard Point	TL50391
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COBALT

Straight Shank	135° Split Pt.	TLCO50391
----------------	----------------	-----------

16 Pc. Set

in metal index

49/64" - 1" by 64ths

HIGH-SPEED STEEL

Straight Shank	118° Standard Point	TL50392
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29 Pc. Set

in metal index

1/16" - 1/2" by 64ths

HIGH-SPEED STEEL

Straight Shank	118° Standard Point	TL50393
----------------	---------------------	---------

COBALT

Straight Shank	135° Split Pt.	TLCO50393
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TAPER SHANK DRILLS

16 Pc. Set

33/64" - 3/4"
by 64ths
in metal index



COATING / FINISH POINT ANGLE SHANK TYPE STOCK

HIGH-SPEED STEEL

Black Oxide	118° Point	Straight Shank	TS50098
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16 Pc. Set

49/64" - 1" by 64ths

in metal index

HIGH-SPEED STEEL

Black Oxide	118° Point	Straight Shank	TS50099
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SCREW MACHINE LENGTH DRILLS

13 Pc. Set

1/16" - 1/4"
by 64ths
in metal index



COATING / FINISH POINT ANGLE BRAND STOCK

HIGH-SPEED STEEL

Black Oxide	135° Split Pt.	Alfa USA	SM50294
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HSS BLITZ BITS

Black & Gold	135° Split Pt.	Alfa USA	BBSM50194
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26 Pc. Set

Letter Sizes

in metal index



HIGH-SPEED STEEL

Black Oxide	135° Split Pt.	Alfa USA	SM50297
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29 Pc. Set

1/16" - 1/2"

by 64ths

in metal index



HIGH-SPEED STEEL

Black Oxide	135° Split Pt.	Alfa USA	SM50290
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HSS BLITZ BITS

Black & Gold	135° Split Pt.	Alfa USA	BBSM50190
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60 Pc. Set

Wire Gage #1 - #60

in metal index



HIGH-SPEED STEEL

Black Oxide	135° Split Pt.	Alfa USA	SM50291
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Drill Sets - Cont.

MECHANIC'S LENGTH DRILLS



BBML74290

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HSS BLITZ BITS			
13 Pc. Set	1/16" - 1/4" by 64ths		
Black & Gold	135° Split Pt.	Alfa USA	BBML74294
15 Pc. Set	1/16" - 1/2" by 32nds		
Black & Gold	135° Split Pt.	Alfa USA	BBML74293
21 Pc. Set	1/16" - 3/8" by 64ths		
Black & Gold	135° Split Pt.	Alfa USA	BBML74292
29 Pc. Set	1/16" - 1/2" by 64ths		
Black & Gold	135° Split Pt.	Alfa USA	BBML74290

COMBINATION DRILL & TAP SET

16 Pc. Set

in deluxe metal index

6-32, 8-32, 10-24,
10-32, 12-24, 12-28,
1/4"-20, 1/4"-28,
5/16"-18, 5/16"-24,
3/8"-16, 3/8"-24,
7/16"-14, 7/16"-20,
1/2"-13, 1/2"-20



DTH66120

COATING / FINISH	DESCRIPTION	STOCK #
HIGH-SPEED STEEL		
Bright finish	118° Split Pt., 2 flute	DTH66120

Monolock® COMBINATION DRILL & TAP SET

16 Pc. Set

in deluxe metal index

6-32, 8-32, 10-24,
10-32, 12-24, 12-28,
1/4"-20, 1/4"-28,
5/16"-18, 5/16"-24,
3/8"-16, 3/8"-24,
7/16"-14, 7/16"-20,
1/2"-13, 1/2"-20



DTML66120

COATING / FINISH	DESCRIPTION	BRAND	STOCK #
HIGH-SPEED STEEL			
Bright finish	135° Split Pt., 2 flute	Monolock®	DTML66120



1/4" HEX SHANK DRILLS

7 Pc. Set

1/16", 3/32",
1/8", 5/32",
3/16", 7/32", 1/4"
on a hang-up card



HSD51081

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HIGH-SPEED STEEL			
Black Oxide	135° Split Pt.	Monolock®	HSD51081



1/4" HEX SHANK DRILLS

13 Pc. Set

1/16" - 1/4"
by 64ths
in metal index



HSD51083

HIGH-SPEED STEEL			
Black Oxide	135° Split Pt.	Monolock®	HSD51083
HIGH-SPEED STEEL			
Black Oxide 1/16" to 1/4" and Black & Gold 17/64" to 1/2" 1/4" Hex Shank	135° Split Pt.	Monolock®	HSD51051



1/4" hex shanks are designed for use in power tools
with quick change chucks and adapters.

Drill & Misc. Sets - Cont.

CAR ALIGNMENT REAMERS

5 Pc. Set

3/8", 1/2", 9/16",
5/8" and 3/4"

in handy roll



CR54565

ProBits™ STEP DRILL SETS 2 Flute Fractional Multi-Step Sizes



A

13 Pc. Set

1/8", 5/32", 3/16", 7/32",
1/4", 9/32", 5/16",
11/32", 3/8", 13/32",
7/16", 15/32", 1/2"

in metal index



MD1099

5 Pc. Set

1/8", 3/16", 1/4",
3/8", 1/2"
in plastic index



MD1098

HIGH-SPEED STEEL

Black Oxide Finish For Rotary & Rotary
Percussion Drilling MD1098

Black Oxide Finish For Rotary & Rotary
Percussion Drilling

MDML5

SET QTY.	DESCRIPTION	STOCK #
HIGH-SPEED STEEL		
3	A, B, C	handy pouch
3	A, B, C	plastic case
4	A, E, F, K	plastic case
3	A, C, F	plastic case
6	A, C, E, F, K, M	plastic case
4	C, H, K, M	plastic case
HSS TiN COATED		
3	A, B, C	handy pouch
3	A, B, C	plastic case
4	A, E, F, K	plastic case
3	A, C, F	plastic case
6	A, C, E, F, K, M	plastic case
4	C, H, K, M	plastic case



ProBits™ STEP DRILLS SETS WITH HEX SHANK

2 Flute Fractional Multi-Step Sizes Styles AH, BH, CH in handy plastic case



SET QTY.	DESCRIPTION	STOCK #
HIGH-SPEED STEEL		
3	Bright Finish 1/4" Hex Power Shank	MBML3W
HSS TiN COATED		
3	Gold Finish 1/4" Hex Power Shank	MBML3TNW
COBALT		
3	Straw Gold Finish 1/4" Hex Power Shank	MBMLCO3W



1/4" hex shanks are designed for use in power tools
with quick change chucks and adapters.

Countersink Sets

HSS COMBINED DRILLS & COUNTERSINKS

5 Pc. Set

Nos. 1, 2, 3, 4, 5
in a wood stand



MADE IN
U. S. A.

DESCRIPTION	STOCK #
HIGH-SPEED STEEL	
Plain type 60° Angle included	Alfa USA CDHK50465

COUNTERSINKS & DEBURRING TOOLS

5 Pc. Set

Sizes #0 - #4
in a wood stand



EU

DESCRIPTION	STOCK #
HIGH-SPEED STEEL	
82° Countersink & Deburring tools	Eco Pro CDT50510S

COUNTERSINKS

5 Pc.

Single Flute Set

Sizes 1/4", 3/8",
1/2", 3/4", 1"
in a wood stand



MADE IN
U. S. A.

EU

DESCRIPTION	STOCK #
HIGH-SPEED STEEL	
82° Countersink	Alfa USA CSF15020
60° Countersink	Alfa USA CSF16020
90° Countersink	Alfa USA CSF17020
82° Countersink	Eco Pro CSF50570
60° Countersink	Eco Pro CSF50570A
90° Countersink	Eco Pro CSF50570B
100° Countersink	Eco Pro CSF50570C

9 Pc.

Single Flute Set

Sizes 3/16", 1/4",
5/16", 3/8", 1/2",
5/8", 3/4", 7/8", 1"



EU

DESCRIPTION	STOCK #
HIGH-SPEED STEEL	
82° Countersink	Eco Pro CSF50571
60° Countersink	Eco Pro CSF50571A
90° Countersink	Eco Pro CSF50571B
100° Countersink	Eco Pro CSF50571C

12 Pc. Single Flute Set

Sizes 3/16", 1/4", 5/16",
3/8", 1/2", 5/8", 3/4", 7/8",
1", 1-1/4", 1-1/2", 2"



EU

DESCRIPTION	STOCK #
HIGH-SPEED STEEL	
82° Countersink	Eco Pro CSF50572
60° Countersink	Eco Pro CSF50572A
90° Countersink	Eco Pro CSF50572B
100° Countersink	Eco Pro CSF50572C

5 Pc.

Three Flute Set

Sizes 1/4", 3/8",
1/2", 3/4", 1"



EU

DESCRIPTION	STOCK #
HIGH-SPEED STEEL	
82° Countersink	Eco Pro C3F50573
60° Countersink	Eco Pro C3F50573A
90° Countersink	Eco Pro C3F50573B

8 Pc.

Six Flute Set

Sizes 1/4", 5/16",
3/8", 1/2", 5/8",
3/4", 7/8", 1"



EU

DESCRIPTION	STOCK #
HIGH-SPEED STEEL	
82° Countersink	Eco Pro C6F50574
60° Countersink	Eco Pro C6F50574A
90° Countersink	Eco Pro C6F50574B

10 Pc. Six Flute Set

Sizes 1/4", 5/16",
3/8", 1/2", 5/8",
3/4", 7/8", 1",
1-1/4", 1-1/2"



EU

DESCRIPTION	STOCK #
HIGH-SPEED STEEL	
82° Countersink	Eco Pro C6F50575
60° Countersink	Eco Pro C6F50575A
90° Countersink	Eco Pro C6F50575B

4 Pc. Five Flute Set

Sizes 3/8", 1/2", 5/8", 3/4"



EU

DESCRIPTION	STOCK #
HIGH-SPEED STEEL	
82° Countersink	Monolock Shank C5F50565

Monolock® QUICK CHANGE SYSTEM

Drill Dispensers (Complete with Drills)

MADE IN
U. S. A.



POINT-OF-PURCHASE STOCKING DISPENSER

Fractional Drills – 300 Pc. Assortment

In metal display case (12-3/4" W x 14" D x 14-1/4" H)

Features:

- Assortment is complete with clear, plexiglass front cover for high visibility and shatterproof durability.
- Case stocks **29 fractional sizes – 1/16" thru 1/2" by 64ths.** – each size in a separate compartment.
- Steel drill gauge on top assures correct sizing of drills.
- Lockable with own set of keys.

300 Pcs. Per Case – Fractional Display Cabinet Contains:

SIZE	QTY.	SIZE	QTY.	SIZE	QTY.	SIZE	QTY.	SIZE	QTY.
1/16"	24	5/32"	18	1/4"	24	11/32"	3	7/16"	3
5/64"	12	11/64"	12	17/64"	3	23/64"	3	29/64"	2
3/32"	24	3/16"	24	9/32"	3	3/8"	6	15/32"	2
7/64"	24	13/64"	6	19/64"	3	25/64"	3	31/64"	2
1/8"	48	7/32"	12	5/16"	6	13/32"	2	1/2"	3
9/64"	18	15/64"	6	21/64"	3	27/64"	2		

Display Only (Without Drills)

STOCK # DIHGDCF

Jobber Length

DESCRIPTION	STOCK #
GENERAL PURPOSE 118° POINT	
Black Oxide 118° Point	GDCF300
Bright Finish 118° Point	GDCF300B
HEAVY DUTY 135° SPLIT POINT	
Black Oxide HD	GDCSF300
Black Oxide HD 3-Flat Shank	GDCSFLF300
BLITZ BITS PREMIUM HEAVY DUTY	
Black & Gold HD 135° Split Pt.	GDCBBF300
TiN COATED	
Gold Finish 135° Split Pt.	GDCSF300TN
COBALT	
Straw Gold Finish HD 135° Split Pt.	GDCCOF300

Mechanic's Length

DESCRIPTION	STOCK #
BLITZ BITS PREMIUM HEAVY DUTY	
Black & Gold HD 135° Split Pt.	GDCBBMLF300



DISPENSER CABINETS WITH JOBBER DRILLS

Dimensions: 14-5/8" W x 7-3/8" D x 7-3/4" H • Metal Construction

DRILLS PER DISPENSER	DESCRIPTION	FINISH	STOCK #
FRACTIONAL SIZES			
276	Alfa USA, HSS General Purpose 118° Point	Black Oxide	DDJDF
Contains Fractional Size Drills: 12 each of sizes 1/16" to 5/16"; 6 each of 21/64" to 1/2" in Three Drawer Dispenser Cabinet	Alfa USA, HSS Heavy Duty 135° Split Point	Black Oxide	DDSPF
	Blitz Bits®, Heavy Duty 135° Split Point	Black/Gold	DDBBF
	Cobalt, Extra Heavy Duty 135° Split Point	Straw Gold	DDCOF

TOOLS INCLUDED

For empty cabinet
dispensers
See Page A87

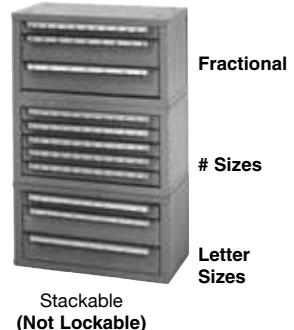


Master Drill Dispenser
(Lockable)

MASTER DISPENSER CABINET WITH FRACTIONAL, LETTER & WIRE GAGE SIZE JOBBER DRILLS

Dimensions: 26" W x 12" D x 12-1/2" H • Metal Four Drawer Dispenser Cabinet

1236 Fractional, Letter & Wire Gage Size Dispenser Cabinet Contains: 12 each of sizes 1/16" to 5/16"; 6 each of 21/64" to 1/2"; 12 each of sizes #1 to #60 12 each of sizes A to N; 6 each of sizes O to Z and Lockable Dispenser Cabinet	Alfa USA, HSS General Purpose 118° Point	Black Oxide	MDDJD
	Alfa USA, HSS Heavy Duty 135° Split Point	Black Oxide	MDDSPD
	Blitz Bits®, Heavy Duty 135° Split Point	Black/Gold	MDDBB
	Cobalt, Extra Heavy Duty 135° Split Point	Straw Gold	MDDCO



Fractional
Sizes
Letter Sizes
Stackable
(Not Lockable)

DISPENSER CABINET WITH BLITZ BITS®, MECHANIC'S LENGTH

Dimensions: 14-5/8" W x 7-3/8" D x 7-3/4" H • Metal Three Drawer Dispenser Cabinet

276 Contains Fractional Size Drills: 12 each of sizes 1/16" to 5/16"; 6 each of 21/64" to 1/2"	Blitz Bits®, Mechanic's Length 135° Split Point	Black/Gold	DDBBM
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Dispensers & Indexes (Without Tools)

METAL INDEXES & DISPENSER CABINETS - TOOLS NOT INCLUDED

MADE IN
U. S. A.

ASSORTED METAL INDEXES

- Industrial complete metal construction.
- Durable baked on powder coat finish for rigorous use.
- Large legible markings.

DESCRIPTION	STOCK #
DRILL INDEX FOR JOBBER LENGTH	
13 Pc. 1/16" - 1/4" by 64ths	DIH13
15 Pc. 1/16" - 1/2" by 32nds	DIH15
21 Pc. 1/16" - 3/8" by 64ths	DIH21
29 Pc. 1/16" - 1/2" by 64ths	DIH29
60 Pc. #1 - #60	DIH60
20 Pc. #61 - #80	DIH20
26 Pc. A - Z	DIH26
115 Pc. Master Set Fractional / Number / Letter	DIH115
25 Pc. Metric - 1mm - 13mm x .5mm	DIH25
PLASTIC DRILL MUG & INDEX	
29 Pc. Plastic Mug 1/16" - 1/2" by 64ths	DIH29DM
29 Pc. Plastic Drill Index 1/16" - 1/2" by 64ths	DIR29

DESCRIPTION	STOCK #
DRILL INDEX FOR SCREW MACHINE LENGTH	
29 Pc. 1/16" - 1/2" by 64ths	DIHSM29
DRILL INDEX FOR SILVER & DEMING	
8 Pc. 9/16" - 1" by 16ths	DIHSD8
DRILL INDEX FOR TAPER LENGTH & TAPER SHANK	
16 Pc. 33/64" - 3/4" by 64ths	DIHTS16A
16 Pc. 49/64" - 1" by 64ths	DIHTS16B
29 Pc. 1/16" - 1/2" by 64ths	DIHTL29
SCREW EXTRACTOR & DRILL INDEX	
10 Pc. index hold sizes: #1, #2, #3, #4, #5 Screw Extractors 5/64", 7/64", 5/32", 1/4", 19/64" Drills	DIADS10

DESCRIPTION	STOCK #
TAP & DRILL INDEX	
18 Pc. NC Plug Taps with Jobber Drills Slots fit 6-32 tap #36 drill 8-32 #29 10-24 #25 10-32 #21 1/4-20 #7 5/16-18 F 3/8-16 5/16 7/16-14 U 1/2-13 27/64	DIHTD18B
18 Pc. NF Plug Taps with Jobber Drills Slots fit 6-40 tap #33 drill 8-36 #29 10-24 #25 10-32 #21 1/4-28 #3 5/16-24 #1 3/8-24 Q 7/16-20 25/64 1/2-20 29/64	DIHTD18A
36 Pc. NC/NF Plug Taps with Jobber Drills Slots fit NC 6-32 tap #36 drill 8-32 #29 10-24 #25 12-24 #16 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64" Slots fit NF 6-40 tap #33 drill 8-36 #29 10-32 #21 12-28 #15 1/4"-28 #3 5/16"-24 #1 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64	DIHTD36



DRILL DISPENSER CABINETS

Dimensions: 14-5/8" W x 7-3/8" D x 7-3/4" H

- Cost effective tool management & storage.
- Heavy gauge steel cabinets & drawers with vinyl dividers.
- Stackable models with full drawer extensions.
- Baked epoxy finish for long life.



Drill Dispenser
DIHDF13000
Fractional

DIHDN13025
Sizes

DIHDL13050
Letter Sizes

Stackable
(Not Lockable)

DESCRIPTION	WEIGHT	STOCK #
FOR FRACTIONAL DRILLS 1/16" - 1/2" by 64ths Three drawers	10.25 lbs.	DIHDF13000
FOR NUMBER DRILLS #1 - #60 Five drawers	13.25 lbs.	DIHDN13025
FOR LETTER DRILLS A - Z Three drawers	10.25 lbs.	DIHDL13050
FOR METRIC DRILLS 1mm - 13mm x .5mm Three drawers	10.75 lbs.	DIHDM13075

MASTER DRILL DISPENSER

(Four Drawers)

Dimensions: 26" W x 12" D x 12-1/2" H

- Cost effective tool management & storage.
- Heavy gauge steel cabinet & drawers with vinyl dividers.
- Baked epoxy finish for long life.

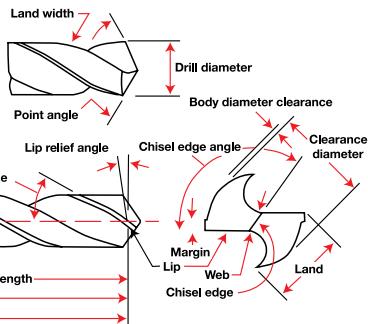
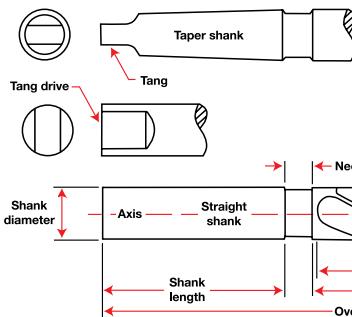


Master Drill Dispenser
DIHDM13175
(Lockable)
with ball bearing slides

DESCRIPTION	WEIGHT	STOCK #
Top drawer holds fractional sizes 1/16" - 1/2" by 64ths, Second drawer holds wire gauge sizes #1 - #60 Third drawer holds letter sizes A - Z Fourth drawer is undivided for misc. tools Lockable	50 lbs.	DIHDM13175

Drill Terminology

Taper Shank – in accordance with American National Standard B5.10. Machine Tapers



Axis: The imaginary straight line forming the longitudinal center line of the drill.

Back Taper: A slight decrease in diameter from front to back of the drill body.

Body: The portion of the drill extending from the shank or neck to the outer corners of the cutting lips.

Body Diameter Clearance: The portion of the land that has been cut away to prevent rubbing against the walls of the hole.

Chip Packing: The failure of chips to pass through the flute during the cutting action. Generally results in tool failure.

Chipping: The breakdown at a cutting lip or margin by loss of fragments broken away during the cutting action.

Chisel Edge: The edge at the end of the web that connects the cutting lips.

Chisel Edge Angle: The angle included between the chisel edge and the cutting lip, as viewed from the end of the drill.

Clearance: The space provided to eliminate undesirable contact between the drill and the work piece.

Clearance Diameter: The diameter over the cut away portion of the drill lands.

Cutting Lips: The cutting edges of a two flute drill, extending from the chisel edge to the periphery. In core drills, the cutting edges extending from the bottom of the chamfer to the periphery.

Drill Diameter: The diameter over the margins of the drill, measured at the point.

Flutes: Helical or straight grooves cut or formed in the body of the drill; these provide cutting lips, permit removal of chips, and allow cutting fluid to reach the cutting lips.

Flute Length: The length from the outer corners of the cutting lips to the extreme back end of the flutes. This includes the sweep of the tool used to generate the flutes. Does not indicate the useable length of the flutes.

Heel: The trailing edge of the land.

Helical Flutes: Flutes which are formed in a helical path around the axis.

Helix Angle: The angle made by the leading edge of the land with a plane containing the axis of the drill.

Land: The peripheral portion of the body between adjacent flutes.

Land Clearance: The preferred term is body diameter clearance; see above.

Land Width: The distance between the leading edge and the heel of the land, measured at a right angle to the leading edge.

Length of Twist: The preferred term is flute length; see left.

Lip Relief: The axial relief angle at the outer corner of the lip. It is measured by projection into a plane tangent to the periphery at the outer corner of the lip.

Margin: The cylindrical portion of the land which is not cut away to provide clearance.

Overall Length (OAL): The length from the extreme end of the shank to the outer corners of the cutting lips. Does not include the conical shank end often used on straight shank drills. Does not include the conical cutting point used on both straight and taper shank drills. In core drills, the overall length of drills with an external center on the cutting end is the same as for two flute drills. Drills with an internal center on the cutting end are measured from the extreme ends of the tool.

Point: The cutting end of a drill, made up of the ends of the lands and the web. Resembles a cone, but departs from a true cone to furnish clearance behind the cutting lips.

Point Angle: The angle included between the cutting lips, projected upon a plane parallel to the drill axis and the two cutting lips.

Relief: The result of the removal of tool material behind or adjacent to the cutting lip and leading edge of the land to provide clearance and prevent rubbing (also known as heel drag).

Shank: The part of the drill by which it is held and driven.

Straight Flutes: Flutes which form lands lying in an axial plane.

Straight Shank Drills: Drills with cylindrical shanks which may be the same or different diameter than the body of the drill. The shank may be made with or without driving flats, tang, grooves or threads.

Tang: The flattened end of a taper shank, intended to fit into a driving slot in a socket.

Tang Drive: Two opposite parallel driving flats on the extreme end of a straight shank.

Taper Shank Drills: Drills with conical shanks suitable for direct fitting into tapered holes in machine spindles, driving sleeves or sockets. Tapered shanks generally have a tang.

Twist Drill: A rotary end cutting tool with one or more cutting lips, having one or more helical or straight flutes for the passage of chips and the admission of a cutting fluid.

Web: The central portion of the body that joins the lands. The extreme end of the web forms the chisel edge on a two flute drill.

Web Thickness: The thickness of the web at the point, unless another specific location is indicated.

A

Hole Saws Annular Hole Cutters Mini RotaCutters

Hole Saws

Cobalt Bi-Metal Hole Saws / Kits	A90-91
Carbide Tipped Hole Saws	A92
Carbide Grit-Edge Hole Saws	A93
<small>NEW!</small> Carbide Tipped Multi-Purpose Hole Saws	A94
Hole Saw Arbors and Accessories	A95
<small>NEW!</small> Carbide Tipped Hole Cutters	A96-97

Annular Hole Cutters

RotaCutters®

<small>NEW!</small> HSS	A98
Sets and Displays	A98
Cobalt	A99
Carbide Tipped	A100
<small>NEW!</small> Cobalt Stack Cutters	A101
<small>NEW!</small> Cobalt Tri-Step Annular Cutters	A101
<small>NEW!</small> RotaCutter Accessories	A102

Mini RotaCutters®

<small>NEW!</small> Sheet Metal Hole Cutters, HSS / Kits	A103
Mini RotaCutter® Arbors and Accessories	A103
Replacement Components	A103



Cobalt Bi-Metal Hole Saws

Industrial Bi-Metal Cobalt Hole Saws

MADE IN
U. S. A.

Cobalt Bi-Metal Hole Saws

A



- Features:**
- High-speed cobalt steel teeth are electron beam welded to a steel body. This process enables teeth to cut faster and stay sharper than standard teeth.
 - High alloy steel body is shatter resistant for superior durability.
 - Bi-metal design bonds M3 cutting edge to fatigue resistant backer.
 - Positive rake teeth offer better chip clearance.
 - 4 / 6 variable pitch reduces vibration and heat generation for smooth cutting.
 - Cutting depth 1-1/2".
 - Cuts holes in wood, plywood, plastic, fiberboard, or any machinable metal, including: nail-embedded wood, pipe, stainless steel, etc.

FRACTIONAL

DIA. INCH	DIA. MM	USE ARBOR TYPE	PIPE TAP SIZE	PIPE ENT. SIZE	R.P.M.		STOCK #
					STEEL	IRON	
5/8	16	TYPE A HOSA62590	1/2 3/4 1	3/8 1/2 3/4	550	365	HOSA62502
3/4	19				460	300	HOSA62504
7/8	22				390	260	HOSA62506
1	25		1-1/4	1 1-1/4	350	235	HOSA62508
1-1/8	29				300	200	HOSA62510
1-1/4	32	TYPE B HOSA62591	1-1/2	1-1/4 1-1/2 2 2-1/2	275	180	HOSA62512
1-3/8	35				250	165	HOSA62514
1-1/2	38				230	150	HOSA62516
1-5/8	41				210	140	HOSA62518
1-3/4	44	TYPE B HOSA62591	2	2 2-1/2	195	130	HOSA62520
1-7/8	48				180	120	HOSA62522
2	51				170	115	HOSA62524
2-1/8	54				160	105	HOSA62526
2-1/4	57	TYPE B HOSA62591	2	2 2-1/2	150	100	HOSA62528
2-3/8	60				140	95	HOSA62530
2-1/2	64				135	90	HOSA62532
2-5/8	67				130	85	HOSA62534
2-3/4	70	TYPE B HOSA62591	3	2-1/2	125	80	HOSA62536
2-7/8	73				120	80	HOSA62538
3	76				115	75	HOSA62540
3-1/4	83				105	70	HOSA62544
3-1/2	89	TYPE B HOSA62591	3-1/2	4	95	65	HOSA62548
3-3/4	95				90	60	HOSA62552
4	102				85	55	HOSA62556
4-1/2	114				75	50	HOSA62560
5	127	TYPE B HOSA62591	4	4	65	45	HOSA62564
5-1/2	140				60	40	HOSA62568
6	152				55	35	HOSA62572

Pack: 1 per display box



For Arbors and Accessories,
see page A94.

Cobalt Bi-Metal Hole Saw Kits

Specialty Bi-Metal Variable Pitch Hole Saw Kits

MADE IN
U. S. A.



7 Pc. Mechanic's Kit

Stock # HOSA7

in strong molded plastic case

- Most used for applications in the automotive, construction and manufacturing industries.

Contains one hole saw each:
7/8", 1", 1-1/8", 1-1/4", 1-1/2"
Kit also includes 1 drill and 1 arbor.



8 Pc. Plumber's Kit

Stock # HOSA8P

in strong molded plastic case

- Designed for plumbers.
- This kit contains pipe tap sizes for pipe through 2".

Contains one hole saw each:
3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/4"
Kit also includes 2 arbors.



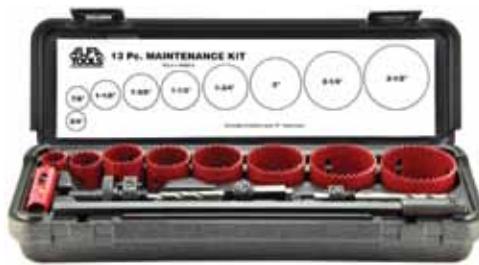
8 Pc. Electrician's Kit

Stock # HOSA8E

in strong molded plastic case

- Designed for electricians.
- This kit contains pipe entrance sizes for pipe and conduit through 2".

Contains one hole saw each:
7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2"
Kit also includes 2 arbors.



13 Pc. Maintenance Kit

Stock # HOSA13

in strong molded plastic case

- Designed for plumbers, electricians, industrial and general purpose maintenance.
- This kit contains 9 plumbing and electrical sizes for pipe and conduit through 2".

Contains one hole saw each:
**3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4",
2", 2-1/4" and 2-1/2"**
Kit also includes 3 arbors and 12" extension.

Bi-Metal Hole Saw Cutting Speeds in RPM

Size Inches	Mild Steel	Cast Iron	Tool & S.S.	Brass	Alum.
9/16"	580	400	300	790	900
5/8"	550	365	275	730	825
11/16"	500	330	250	665	750
3/4"	460	300	230	600	690
13/16"	425	280	210	560	635
7/8"	390	260	195	520	585
15/16"	370	245	185	495	555
1"	350	235	175	470	525
1-1/16"	325	215	160	435	480
1-1/8"	300	200	150	400	450
1-3/16"	285	190	145	380	425
1-1/4"	275	180	140	360	410
1-5/16"	260	175	135	345	390
1-3/8"	250	165	125	330	375
1-7/16"	240	160	120	315	360
1-1/2"	230	150	115	300	345

Size Inches	Mild Steel	Cast Iron	Tool & S.S.	Brass	Alum.
1-9/16"	220	145	110	290	330
1-5/8"	210	140	105	280	315
1-11/16"	205	135	100	270	305
1-3/4"	195	130	95	260	295
1-13/16"	190	125	95	250	285
1-7/8"	180	120	90	240	270
2"	170	115	85	230	255
2-1/16"	165	110	80	220	245
2-1/8"	160	105	80	210	240
2-1/4"	150	100	75	200	225
2-5/16"	145	100	75	195	225
2-3/8"	140	95	70	190	220
2-1/2"	135	90	65	180	205
2-9/16"	130	85	65	175	200
2-5/8"	130	85	65	170	195
2-3/4"	125	80	60	160	185
2-7/8"	120	80	60	160	180

Size Inches	Mild Steel	Cast Iron	Tool & S.S.	Brass	Alum.
3"	115	75	55	150	170
3-1/8"	110	70	55	140	165
3-1/4"	105	70	50	140	155
3-3/8"	100	65	50	130	150
3-1/2"	95	65	45	130	145
3-5/8"	95	60	45	120	140
3-3/4"	90	60	45	120	135
3-7/8"	90	60	45	120	135
4"	85	55	40	110	130
4-1/8"	80	55	40	110	120
4-1/4"	80	55	40	110	120
4-1/2"	75	50	35	100	105
4-3/4"	75	50	35	95	95
5"	65	45	30	90	90
5-1/2"	60	40	25	85	85
5-3/4"	55	35	25	75	75
6"	55	35	25	75	75

Carbide Tipped Hole Saws

Tungsten Carbide Tooth Tips

MADE IN

U. S. A.

Features:

- Tungsten Carbide Tipped teeth provide highest wear resistance and longer life.
- 3 teeth per inch for better chip clearance and faster cutting.
- Cutting depth 1-7/8".
- Designed for sawing holes in abrasive materials such as fiberglass, particle board, asbestos board, cast iron, formica and ceramic tile.

Carbide Tipped Hole Saws

A



Better chip clearance
and faster cutting.

FRACTIONAL

DIA. INCH	DIA. MM	USE ARBOR TYPE	PIPE TAP SIZE	PIPE ENT. SIZE	STOCK #
3/4	19			3/8	HOSA73204
7/8	22		3/4	1/2	HOSA73206
1	25	TYPE A HOSA62590	1	3/4	HOSA73208
1-1/8	29				HOSA73210
1-1/4	32				HOSA73212
1-3/8	35			1	HOSA73214
1-1/2	38		1-1/4		HOSA73216
1-5/8	41				HOSA73218
1-3/4	44				HOSA73220
1-7/8	48				HOSA73222
2	51		1-1/2		HOSA73224
2-1/8	54				HOSA73226
2-1/4	57				HOSA73228
2-3/8	60				HOSA73230
2-1/2	64		2		HOSA73232
2-5/8	67				HOSA73234
2-3/4	70				HOSA73236
2-7/8	73				HOSA73238
3	76				HOSA73240
3-1/4	83				HOSA73244
3-1/2	89				HOSA73248
3-3/4	95				HOSA73252
4	102				HOSA73256
4-1/4	108				HOSA73260
4-1/2	114			4	HOSA73264
4-3/4	121				HOSA73266
5	127				HOSA73268
5-1/2	140				HOSA73270
6	152				HOSA73272

Pack: 1 per display box



TYPE A



TYPE B

For Arbors and Accessories,
see page A94.

Carbide Grit-Edge Hole Saws

Tungsten Carbide Grains

Features:

- Tungsten carbide cutting edge.
- Cutting depth 1-1/2".
- 3/16" thick heavy duty backing plate.
- High heat and abrasion resistance.
- No teeth to dull or chip.
- Cuts extremely hard abrasive materials.
- Resists snagging.
- Eliminates need for drive plate.

Applications:

- Use for plumbing, construction, marine and aircraft applications.
- Recommended for cutting laminates, fiberglass, ceramic tile, marble and slate, cast iron and composites.

MADE IN
U. S. A.

FRACTIONAL

DIA.	USE ARBOR TYPE	PIPE TAP SIZE	PIPE ENT. SIZE	STOCK #
3/4"	TYPE E HOSA76061	1/2"	3/8"	HOSA76004
7/8"		3/4"	1/2"	HOSA76006
1"				HOSA76007
1-1/8"		1"	3/4"	HOSA76008
1-1/4"	TYPE F HOSA76062			HOSA76009
1-3/8"			1"	HOSA76010
1-1/2"		1-1/4"		HOSA76011
1-3/4"		1-1/2"		HOSA76012
1-7/8"	TYPE F HOSA76062			HOSA76013
2"			1-1/2"	HOSA76014
2-1/8"				HOSA76015
2-1/4"		2"		HOSA76016
2-3/8"	TYPE F HOSA76062			HOSA76017
2-1/2"			2"	HOSA76018
2-3/4"				HOSA76019
3"			2-1/2"	HOSA76020
3-1/4"	TYPE F HOSA76062		3"	HOSA76021
3-3/8"				HOSA76022
3-3/4"		3-1/2"		HOSA76023
4"				HOSA76024
4-1/2"			4"	HOSA76025
RECESSED LIGHTING HOLE SAWS				
6-3/8"	TYPE F HOSA76062			HOSA76040
6-5/8"				HOSA76041
6-7/8"				HOSA76042

1 per box



Carbide grit bonded to heavy steel body.



TYPE E

TYPE F

For Arbors and Accessories,
see page A94.

Carbide Grit® Hole Saw Operating Speeds

Hole Saw Size		Brick Ceramic	Slate	Reinforced Plastics	Fiber-Glass
Inches	MM				
5/8	16	620	1540	2140	920
3/4	19	510	1280	1790	770
-	20	470	1180	1660	715
7/8	22	430	1090	1530	660
1	25	380	960	1340	580
1-1/8	29	340	850	1190	510
1-1/4	32	310	770	1070	460
1-3/8	35	280	700	980	420
1-1/2	38	260	640	890	390
1-3/4	44	220	550	770	330
1-7/8	48	200	510	720	310
2	51	190	480	670	290

Hole Saw Size		Brick Ceramic	Slate	Reinforced Plastics	Fiber-Glass
Inches	MM				
2-1/8	54	180	450	630	280
2-1/4	57	170	430	600	270
2-3/8	60	160	400	570	250
2-1/2	64	150	380	540	230
2-3/4	70	140	350	500	210
3	76	130	320	450	190
3-1/4	83	120	295	415	180
3-3/8	86	115	285	400	175
3-3/4	95	102	255	350	160
4	102	95	240	330	150
4-1/2	114	82	215	290	125

Hole Saw Arbors & Accessories

Arbors Complete With Pilot Drills

MADE IN
U. S. A.

Features:

- Durable, heavy duty steel.
- Pilot drill included.
- Several shank sizes.

**ARBORS FOR BI-METAL, CARBIDE TIPPED & CARBIDE GRIT-EDGE HOLE SAWS**

DESCRIPTION	SHANK SIZE	THREAD SIZE	FITS HOLE SAWS	PILOT DRILL	CHUCK SIZE	STOCK #
Type A for Bi-Metal and Carbide Tipped Hole Saws	1/4" Round	1/2"-20	3/4" - 1-1/8"	HSS 1/4"	1/4"	HOSA62590
Type B for Bi-Metal and Carbide Tipped Hole Saws	7/16" Hex	5/8"-18	1-1/4" - 6"	HSS 1/4"	1/2"	HOSA62591
Type E for Carbide Grit Edge-Hole Saws	3/8" Hex	1/2"-20	3/4" - 1-1/8"	Carb. Tipped 1/4"	3/8" - 1/2"	HOSA76061
Type F for Carbide Grit-Edge Hole Saws	3/8" Hex	5/8"-18	1-1/4" - 6-7/8"	Carb. Tipped 1/4"	3/8" - 1/2"	HOSA76062

1 per pack

**1/4" Pilot Drills
For Use With Hole Saw Arbors****Features:**

- High-speed Steel Pilot Drills for use with Bi-Metal and Carbon Steel hole saws.
- Carbide Tipped Pilot Drills for use with Carbide Tipped and Carbide Grit-Edge hole saws.
- For general cutting in wood, plastics, metals.



DESCRIPTION	DIA.	OVERALL LENGTH	STOCK #	
			BULK	CARDED
HIGH-SPEED STEEL				
3 Whistle notches on shank for set screw	1/4"	4"	PD61801	PD61801C
3 Flats on shank	1/4"	4"	PD61802	PD61802C
CARBIDE TIPPED				
2 Flats on shank	1/4"	3-1/4"	PD61803	PD61803C

Bulk 12 per pack, Card 1 per card

**12" EXTENSION
for 7/16" Shank Arbors**

1 per pack

PD61810

Multi-Purpose Hole Saws

Carbide Tipped



Recommended for working on:

- Soft and hard wood
- Plywood
- Wood core plywood
- Chipboard (raw-veneered)
- Laminate
- Sandwich materials
- Plastics
- Acrylic glass
- Masonry
- Wall tiles
- Brick
- Plasterboard and blocks
- Heraklith boards
- Eternit
- Aerated concrete
- Solid bricks
- Roofing tiles
- Vertically perforated bricks
- Limestone



1 per pack

CARBIDE TIPPED HOLE SAW

For Multi-Purpose Hole Making.

NEW!

HOLE DIAMETER (Inch)	HOLE DIAMETER (Metric)	DEPTH OF CUT	NO. OF TEETH	STOCK #
3/4"	19	2-1/8	1	CTHS01
7/8"	22	2-1/8	1	CTHS02
1"	25	2-1/8	1	CTHS03
1-1/16"	27	2-1/8	1	CTHS04
1-3/16"	30	2-1/8	1	CTHS05
1-1/4"	32	2-1/8	2	CTHS06
1-3/8"	35	2-1/8	2	CTHS07
1-1/2"	38	2-1/8	2	CTHS08
1-9/16"	40	2-1/8	2	CTHS09
1-5/8"	41	2-1/8	2	CTHS10
1-3/4"	44	2-1/8	2	CTHS11
1-7/8"	48	2-1/8	2	CTHS12
2"	51	2-1/8	3	CTHS13
2-1/8"	54	2-1/8	3	CTHS14
2-1/4"	57	2-1/8	3	CTHS15
2-3/8"	60	2-1/8	3	CTHS16
2-1/2"	64	2-1/8	3	CTHS17
2-5/8"	67	2-1/8	3	CTHS18
2-3/4"	70	2-1/8	3	CTHS19
2-7/8"	73	2-1/8	3	CTHS20
3"	76	2-1/8	3	CTHS21



TYPE A



TYPE G



TYPE B



TYPE H

ARBORS FOR CARBIDE TIPPED, MULTI-PURPOSE HOLE SAWS

NEW!

DESCRIPTION	SHANK TYPE	THREAD SIZE	FITS HOLE SAWS	PILOT DRILL	CHUCK SIZE	STOCK #
Type A for Bi-Metal and Carbide Tipped Hole Saws	1/4" Round	1/2"-20	3/4" - 1-3/16"	HSS 1/4"	1/4"	HOSA62590
Type B for Bi-Metal and Carbide Tipped Hole Saws	7/16" Hex	5/8"-18	1-1/4" - 3"	HSS 1/4"	1/2"	HOSA62591
Type G for Carbide Tipped Hole Saws	SDS Plus	1/2"-20	3/4" - 1-3/16"	M2 HSS 1/4"	—	HOSASDS1
Type H for Carbide Tipped Hole Saws	SDS Plus	5/8"-18	1-1/4" - 3"	M2 HSS 1/4"	—	HOSASDS2

1 per pack



• ECO PRO Hole Saws are made outside the United States to ALFA TOOLS' specifications.

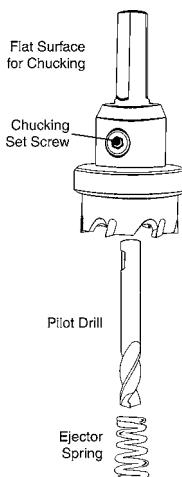
Carbide Tipped Hole Cutters

Industrial Quality For Professional Use



Carbide Tipped Hole Cutters

A



Features:

- For cutting construction steel plate, stainless steel, iron, aluminum, copper, cast iron and plastics.
- Ultra-hard tungsten carbide teeth have excellent wear and heat resistance.
- One piece construction requires no assembly and provides stable, accurate drilling.
- HSS Pilot drill and ejector spring are standard, ejects plug automatically after cutting.
- Safety collar stop prevents over-penetration of workpiece.
- Three-flatted shank for firm chucking.
- Cuts dry, use MEGACUT® cutting fluid for even cleaner, precise cuts.
- Produces burr-free holes.
- Depth of cut up to 3/16".

DEPTH OF CUT 3/16"

NEW!

DIA.	SHANK DIA.	STOCK #	DIA.	SHANK DIA.	STOCK #
9/16"	3/8"	CHC74350	1-13/16"	3/8"	CHC74370
5/8"	3/8"	CHC74351	1-7/8"	3/8"	CHC74371
11/16"	3/8"	CHC74352	1-15/16"	3/8"	CHC74372
3/4"	3/8"	CHC74353	2"	3/8"	CHC74373
13/16"	3/8"	CHC74354	2-1/16"	3/8"	CHC74374
7/8"	3/8"	CHC74355	2-1/8"	3/8"	CHC74375
15/16"	3/8"	CHC74356	2-3/16"	3/8"	CHC74376
1"	3/8"	CHC74357	2-1/4"	3/8"	CHC74377
1-1/16"	3/8"	CHC74358	2-5/16"	3/8"	CHC74378
1-1/8"	3/8"	CHC74359	2-3/8"	3/8"	CHC74379
1-3/16"	3/8"	CHC74360	2-7/16"	3/8"	CHC74380
1-1/4"	3/8"	CHC74361	2-1/2"	3/8"	CHC74381
1-5/16"	3/8"	CHC74362	2-9/16"	3/8"	CHC74382
1-3/8"	3/8"	CHC74363	2-5/8"	1/2"	CHC74383
1-7/16"	3/8"	CHC74364	2-11/16"	1/2"	CHC74384
1-1/2"	3/8"	CHC74365	2-3/4"	1/2"	CHC74385
1-9/16"	3/8"	CHC74366	2-13/16"	1/2"	CHC74386
1-5/8"	3/8"	CHC74367	2-7/8"	1/2"	CHC74387
1-11/16"	3/8"	CHC74368	2-15/16"	1/2"	CHC74388
1-3/4"	3/8"	CHC74369	3"	1/2"	CHC74389

1 per pack

3/16" DEPTH ACCESSORIES

DESCRIPTION	STOCK #
HSS Pilot Drill	CHC74390
Carbide Tipped Pilot Drill	CHC74391
Chuckng Screw	CHC74392
Ejector Spring	CHC74393

HSS Pilot Drills are provided standard. Carbide Tipped Pilot Drills are recommended for working with very hard materials including those with a ceramic coating.



16 PC. CARBIDE TIPPED HOLE CUTTERS

DISPLAY STOCK # CHC31616					
Contains					
Qty.	Size	Stock #	Qty.	Size	Stock #
1	9/16"	CHC74350	1	1-1/8"	CHC74359
1	5/8"	CHC74351	1	1-1/4"	CHC74361
1	11/16"	CHC74352	1	1-3/8"	CHC74363
1	3/4"	CHC74353	1	1-1/2"	CHC74365
1	13/16"	CHC74354	1	1-5/8"	CHC74367
1	7/8"	CHC74355	1	1-3/4"	CHC74369
1	15/16"	CHC74356	1	1-7/8"	CHC74371
1	1"	CHC74357	1	2"	CHC74373

Speed Recommendation

SIZE	STEEL (RPM)	STAINLESS STEEL (RPM)
9/16" to 13/16"	700-1000	300-700
7/8" to 1-3/16"	500-800	200-450
1-1/4" to 1-9/16"	300-600	175-315
1-5/8" to 2"	200-500	120-225
2-1/16" to 2-3/8"	200-400	95-195
2-7/16" to 3"	150-300	80-150

Carbide Tipped Hole Cutters - Cont.

Industrial Quality For Professional Use



Features:

- For cutting steel plate, iron, aluminum, copper, cast iron, stainless steel, fiberglass and plastics.
- Ultra-hard tungsten carbide teeth have excellent wear and heat resistance.
- One piece construction requires no assembly and provides stable, accurate drilling.
- HSS Pilot drill and ejector spring are standard, ejects plug automatically after cutting.
- Safety collar stop prevents over-penetration of workpiece.
- Three-flatted shanks for firm chucking.
- Cuts dry, use MEGACUT® cutting fluid for even cleaner, precise cuts.
- Produces burr-free holes.
- Depth of cut up to 1".

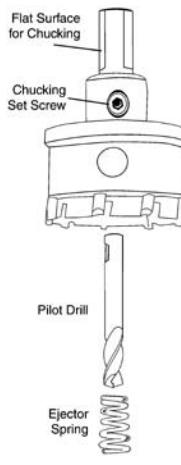
DEPTH OF CUT 1"

NEW!

DIA.	SHANK DIA.	STOCK #
9/16"	3/8"	CHC74450
5/8"	3/8"	CHC74451
11/16"	3/8"	CHC74452
3/4"	3/8"	CHC74453
13/16"	3/8"	CHC74454
7/8"	3/8"	CHC74455
15/16"	3/8"	CHC74456
1"	3/8"	CHC74457
1-1/16"	3/8"	CHC74458
1-1/8"	3/8"	CHC74459
1-3/16"	3/8"	CHC74460
1-1/4"	3/8"	CHC74461
1-5/16"	3/8"	CHC74462
1-3/8"	3/8"	CHC74463
1-7/16"	3/8"	CHC74464
1-1/2"	3/8"	CHC74465

DIA.	SHANK DIA.	STOCK #
1-9/16"	3/8"	CHC74466
1-5/8"	3/8"	CHC74467
1-11/16"	3/8"	CHC74468
1-3/4"	3/8"	CHC74469
1-13/16"	3/8"	CHC74470
1-7/8"	3/8"	CHC74471
1-15/16"	3/8"	CHC74472
2"	1/2"	CHC74473
2-1/8"	1/2"	CHC74475
2-1/4"	1/2"	CHC74477
2-3/8"	1/2"	CHC74479
2-1/2"	1/2"	CHC74481
2-5/8"	1/2"	CHC74483
2-3/4"	1/2"	CHC74485
2-7/8"	1/2"	CHC74487
3"	1/2"	CHC74489

1 per pack



16 PC. CARBIDE TIPPED HOLE CUTTERS

DISPLAY STOCK # CHC12316					
Contains					
Qty.	Size	Stock #	Qty.	Size	Stock #
1	9/16"	CHC74450	1	1-1/8"	CHC74459
1	5/8"	CHC74451	1	1-1/4"	CHC74461
1	11/16"	CHC74452	1	1-3/8"	CHC74463
1	3/4"	CHC74453	1	1-1/2"	CHC74465
1	13/16"	CHC74454	1	1-5/8"	CHC74467
1	7/8"	CHC74455	1	1-3/4"	CHC74469
1	15/16"	CHC74456	1	1-7/8"	CHC74471
1	1"	CHC74457	1	2"	CHC74473

1" DEPTH ACCESSORIES

DESCRIPTION	STOCK #
HSS Pilot Drill	CHC74490
Carbide Tipped Pilot Drill	CHC74491
Chucking Screw	CHC74392
Ejector Spring	CHC74393

HSS Pilot Drills are provided standard. Carbide Tipped Pilot Drills are recommended for working with very hard materials including those with a ceramic coating.

Annular Hole Cutter High-Speed Steel

Patented Chipbreaker Tooth Design
Patent # GB2278793 and GB23197393



3/4" Weldon Shank

Features:

- Manufactured from heat treated high-speed steel.
- Available in 1", 2" and 3" cutting depths.
- Designed for cutting large diameter holes accurately, cleanly and effortlessly.
- Annular cutting is instantaneous.
- Spring loaded pilot ejects the center as a slug of steel.
- Faster feed, lower thrust, longer tool life.

Applications:

- Steel fabrication and welding.
- Construction, bridge and highway maintenance.
- Mining.
- Truck and trailer manufacturing, ship building and railroad.
- Plant maintenance and elevator repair.

FRACTIONAL

NEW!

CUTTER DIA.	STOCK #		
	1" DEPTH OF CUT	2" DEPTH OF CUT	3" DEPTH OF CUT
7/16	RCHS84300	RCHS84350	-
1/2	RCHS84301	RCHS84351	-
9/16	RCHS84302	RCHS84352	-
5/8	RCHS84303	RCHS84353	-
11/16	RCHS84304	RCHS84354	-
3/4	RCHS84305	RCHS84355	-
13/16	RCHS84306	RCHS84356	RCHS84406
7/8	RCHS84307	RCHS84357	RCHS84407
15/16	RCHS84308	RCHS84358	RCHS84408
1	RCHS84309	RCHS84359	RCHS84409
1-1/16	RCHS84310	RCHS84360	RCHS84410
1-1/8	RCHS84311	RCHS84361	RCHS84411
1-3/16	RCHS84312	RCHS84362	RCHS84412
1-1/4	RCHS84313	RCHS84363	RCHS84413
1-5/16	RCHS84314	RCHS84364	RCHS84414
1-3/8	RCHS84315	RCHS84365	RCHS84415
1-7/16	RCHS84316	RCHS84366	RCHS84416
1-1/2	RCHS84317	RCHS84367	RCHS84417
1-9/16	RCHS84318	RCHS84368	RCHS84418
1-5/8	RCHS84319	RCHS84369	RCHS84419
1-3/4	RCHS84320	RCHS84370	RCHS84420
1-7/8	RCHS84321	RCHS84371	RCHS84421
1-15/16	RCHS84322	RCHS84372	RCHS84422
2	RCHS84323	RCHS84373	RCHS84423
2-1/8	RCHS84324	RCHS84375	RCHS84425
2-3/16	RCHS84326	RCHS84376	RCHS84426
2-1/4	RCHS84327	RCHS84377	RCHS84427

1 per pack

Also available TiN coated. Details on request.



SETS

SET QTY.	SIZES	STOCK #
IN STEEL INDEX		
7 Pcs.	1" depth x 9/16, 5/8, 11/16, 15/16, 7/8, 1. 1 Ejector Pilot	RCHS84346
IN WOOD BLOCK		
6 Pcs.	1" depth x 9/16, 11/16, 13/16, 15/16, 1-1/16. 1 Ejector Pilot	RCHS84347
6 Pcs.	2" depth x 9/16, 11/16, 13/16, 15/16, 1-1/4. 1 Ejector Pilot	RCHS84396



Ejector Pilots Sold Separately.

EJECTOR PILOTS



TYPE	LENGTH	SIZE	STOCK #
FOR 7/16" DIA. CUTTERS ONLY			
For 1" Depth of Cut	SHORT	3/16" x 3"	RC76006
For 2" Depth of Cut	LONG	3/16" x 4"	RC76007
FOR ALL OTHER CUTTERS 1/2" TO 2-1/4"			
For 1" Depth of Cut	SHORT	1/4" x 3"	RC74331
For 2" Depth of Cut	LONG	1/4" x 4"	RC74374
For 3" Depth of Cut	EXTRA LONG	1/4" x 5"	RC74397

1 per pack



STOCK #
ROTA100

100 PC. ROTACUTTER™ HSS M2 DISPLAY

QTY.	DEPTH OF CUT	CUTTER DIAMETER
3 each	1"	1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16"
20 each	1"	Ejector Pilot Pins
3 each	2"	1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16"
20 each	2"	Ejector Pilot Pins

**Annular Hole Cutter
Cobalt Premium High-Speed Steel**

*Patented Chipbreaker Tooth Design
Patent # GB2278793 and GB23197393*



3/4" Weldon Shank

Features:

- Manufactured from heat treated Cobalt high-speed steel.
- Available in 1", 2" and 3" cutting depths.
- Designed for cutting large diameter holes accurately, cleanly and effortlessly.
- Annular cutting is instantaneous.
- Spring loaded pilot ejects the center as a slug of steel.
- Faster feed, lower thrust, longer tool life.

FRACTIONAL

CUTTER DIA.	STOCK #		
	1" DEPTH OF CUT	2" DEPTH OF CUT	3" DEPTH OF CUT
7/16	RCCO74300	RCCO74350	—
1/2	RCCO74301	RCCO74351	—
9/16	RCCO74302	RCCO74352	—
5/8	RCCO74303	RCCO74353	—
11/16	RCCO74304	RCCO74354	—
3/4	RCCO74305	RCCO74355	—
13/16	RCCO74306	RCCO74356	RCCO74406
7/8	RCCO74307	RCCO74357	RCCO74407
15/16	RCCO74308	RCCO74358	RCCO74408
1	RCCO74309	RCCO74359	RCCO74409
1-1/16	RCCO74310	RCCO74360	RCCO74410
1-1/8	RCCO74311	RCCO74361	RCCO74411
1-3/16	RCCO74312	RCCO74362	RCCO74412
1-1/4	RCCO74313	RCCO74363	RCCO74413
1-5/16	RCCO74314	RCCO74364	RCCO74414
1-3/8	RCCO74315	RCCO74365	RCCO74415
1-7/16	RCCO74316	RCCO74366	RCCO74416
1-1/2	RCCO74317	RCCO74367	RCCO74417
1-9/16	RCCO74318	RCCO74368	RCCO74418
1-5/8	RCCO74319	RCCO74369	RCCO74419
1-3/4	RCCO74320	RCCO74370	RCCO74420
1-7/8	RCCO74321	RCCO74371	RCCO74421
1-15/16	RCCO74322	RCCO74372	RCCO74422
2	RCCO74323	RCCO74373	RCCO74423
2-1/8	RCCO74324	RCCO74375	RCCO74425
2-3/16	RCCO74326	RCCO74376	RCCO74426
2-1/4	RCCO74327	RCCO74377	RCCO74427

1 per pack

Also available TiN coated. Details on request.



SETS

SET QTY.	SIZES	STOCK #
IN STEEL INDEX		
7 Pcs.	1" depth x 9/16, 5/8, 11/16, 15/16, 7/8, 1. 1 Ejector Pilot	RCCO74346
IN WOOD BLOCK		
6 Pcs.	1" depth x 9/16, 11/16, 13/16, 15/16, 1-1/16. 1 Ejector Pilot	RCCO74347
6 Pcs.	2" depth x 9/16, 11/16, 13/16, 15/16, 1-1/4. 1 Ejector Pilot	RCCO74396

Applications:

- Steel fabrication and welding.
- Construction, bridge and highway maintenance.
- Mining.
- Truck and trailer manufacturing, ship building and railroad.
- Plant maintenance and elevator repair.

METRIC

CUTTER DIA. MM	STOCK #	
	1" DEPTH OF CUT	2" DEPTH OF CUT
13	RCCO74710	RCCO74810
14	RCCO74711	RCCO74811
15	RCCO74712	RCCO74812
16	RCCO74713	RCCO74813
17	RCCO74714	RCCO74814
18	RCCO74715	RCCO74815
19	RCCO74716	RCCO74816
20	RCCO74717	RCCO74817
21	RCCO74718	RCCO74818
22	RCCO74719	RCCO74819
23	RCCO74720	RCCO74820
24	RCCO74721	RCCO74821
25	RCCO74722	RCCO74822
26	RCCO74723	RCCO74823
27	RCCO74724	RCCO74824
28	RCCO74725	RCCO74825
29	RCCO74726	RCCO74826
30	RCCO74727	RCCO74827
31	RCCO74728	RCCO74828
32	RCCO74729	RCCO74829
33	RCCO74730	RCCO74830
34	RCCO74731	RCCO74831
35	RCCO74732	RCCO74832
36	RCCO74733	RCCO74833
37	RCCO74734	RCCO74834
38	RCCO74735	RCCO74835
39	RCCO74736	RCCO74836
40	RCCO74737	RCCO74837
41	RCCO74738	RCCO74838
42	RCCO74739	RCCO74839
43	RCCO74740	RCCO74840
44	RCCO74741	RCCO74841
45	RCCO74742	RCCO74842
46	RCCO74743	RCCO74843
47	RCCO74744	RCCO74844
48	RCCO74745	RCCO74845
49	RCCO74746	RCCO74846
50	RCCO74747	RCCO74847

1 per pack

100 PC. ROTACUTTER™ COBALT M42 DISPLAY



STOCK #
ROTACO100

QTY.	DEPTH OF CUT	CUTTER DIAMETER
3 each	1"	1/2", 9/16", 5/8", 11/16", 3/4" 13/16", 7/8", 15/16", 1", 1-1/16"
20 each	1"	Ejector Pilot Pins
3 each	2"	1/2", 9/16", 5/8", 11/16", 3/4" 13/16", 7/8", 15/16", 1", 1-1/16"
20 each	2"	Ejector Pilot Pins

Tungsten Carbide Tipped



3/4" Weldon Shank

A



- Specially designed for the toughest operating conditions and difficult to machine metals.
- For use on all portable or stationary drilling machines with cutting speed approximately 50% higher compared to high-speed steel tools.

FRACTIONAL

CUTTER DIA.	STOCK #	
	1 3/8" DEPTH OF CUT	2" DEPTH OF CUT
9/16	RCT74608	RCT74508
5/8	RCT74609	RCT74509
11/16	RCT74610	RCT74510
3/4	RCT74612	RCT74512
13/16	RCT74614	RCT74514
7/8	RCT74616	RCT74516
15/16	RCT74618	RCT74518
1	RCT74620	RCT74520
1-1/16	RCT74622	RCT74522
1-1/8	RCT74624	RCT74524
1-3/16	RCT74626	RCT74526
1-1/4	RCT74628	RCT74528
1-5/16	RCT74630	RCT74530
1-3/8	RCT74632	RCT74532
1-7/16	RCT74634	RCT74534
1-1/2	RCT74636	RCT74536
1-9/16	RCT74638	RCT74538
1-5/8	RCT74640	RCT74540
1-11/16	RCT74642	RCT74542
1-3/4	RCT74644	RCT74544
1-13/16	RCT74646	RCT74546
1-7/8	RCT74648	RCT74548
1-15/16	RCT74650	RCT74550
2	RCT74652	RCT74552

1 per pack

EJECTOR PILOTS

For 1-3/8"	
Cutting Depth	RCC74455
For 2"	
Cutting Depth	RCC74456

1 per pack

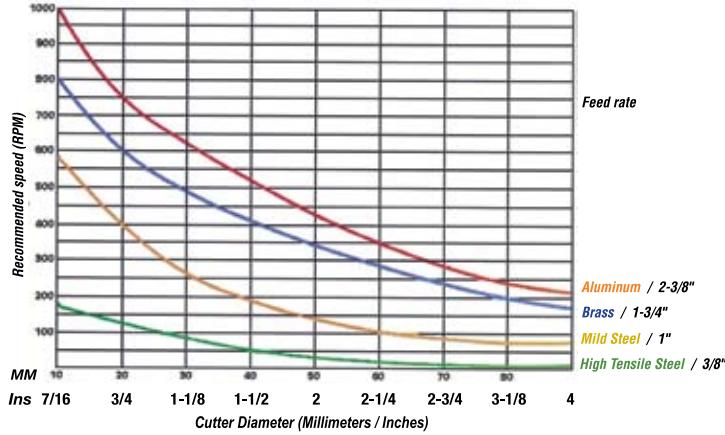
Feeds and Speeds

- The rate at which a cutter can penetrate material is measured in inches or millimeters per minute. Formula for calculating this is:

Cutting rate per minute = **RPM x T x F**
 (RPM = revs per minute, T = number of teeth,
 F = feed per tooth in inches/mm)

- Formula for calculating RPM is: $RPM = \frac{1000S}{\pi D}$
 $(S = \text{cutting speed and } D = \text{diameter of cutter})$
- N.B. cutting speed is the variable, as a general rule cutting speed for mild steel = 50 ft. / minute
- Feed per rev = **Feed per tooth x Number of teeth**
- Feed = **RPM x Feed per rev**

Recommended speeds for cutters in different materials



Cobalt M42 Stack Cutters

3/4" Weldon Shank



- Stack cutters have specially designed cutting teeth for boring composites or "stacked" work.
- They are available for consistent perfect thorough cutting.
- The regular annular cutter develops a "top hat" shaped slug and is suitable for boring into any single homogenous ferrous material.
- Other sizes are available on request.



1" DEPTH OF CUT

NEW!

CUTTER DIAMETERS	SHANK WELDON	DEPTH OF CUT	OVERALL LENGTH	STOCK #
9/16	3/4	1	2	RCCO97552
5/8	3/4	1	2	RCCO97553
11/16	3/4	1	2	RCCO97554
3/4	3/4	1	2	RCCO97555
13/16	3/4	1	2	RCCO97556
7/8	3/4	1	2	RCCO97557
2-3/16	3/4	1	2	RCCO97558
15/16	3/4	1	2	RCCO97559
1	3/4	1	2	RCCO97560
1-1/16	3/4	1	2	RCCO97561

1 per pack

Cobalt M42 Tri-Step Annular Cutters

Cobalt M42



- Unique Design: 3 Cutters in one allows three different diameter holes to be bored using one cutter.
- Special Adaptor enables using cutter with a portable power drill – not limited to availability of a mag-drill.
- Drill Adaptor allows 3/4" Weldon shank cutters to be used in standard 1/2" chuck machines.
- The 6 Pcs. kit is ideal for the MRO Professional – bore 9 different hole sizes from 9/16" to 1-1/8" with RCK6 kit.
- Cobalt cutters individually available from stock.



FRACTIONAL

NEW!

CUTTER DIAMETERS	SHANK WELDON	DEPTH OF CUT	OVERALL LENGTH	STOCK #
9/16	3/4	9/16	3-7/64	
11/16	3/4	9/16	3-7/64	RCCO98381
13/16	3/4	9/16	3-7/64	
5/8	3/4	9/16	3-7/64	
3/4	3/4	9/16	3-7/64	RCCO98382
7/8	3/4	9/16	3-7/64	
15/16	3/4	9/16	3-7/64	
1-1/16	3/4	9/16	3-7/64	RCCO98383
1-1/8	3/4	9/16	3-7/64	

EJECTOR PIN

For Step Cutter	1/4 x 3-1/2	RCCO98384
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DRILL ADAPTOR

Adaptor converts 3/4" Weldon Shank to 1/2" dia.	RCA05
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1 per pack



RCK6

SET

SET QTY.	SIZES	STOCK #
IN FITTED TOTE CASE		
6 Pcs.	Contains set of Tri-Step Annular Cutters: RCCO98381, RCCO98382, RCCO98383 Ejector Pin: RCCO98384 Drill Adaptor: RCA05 4 oz. Megacut Cutting Fluid: TF7041	RCK6

STRAIGHT SHANK EXTENSION ADAPTORS



RCA10

RCA08

- For use in drill press.
- Adapts RotaCutter™ for use in shop where magnetic base machines are not necessary.

NEW!

ADAPTOR SHANK	CUTTER SHANK	OAL	STOCK #
1/2"	3/4"	2-1/8"	RCA07
3/4"	3/4"	2"	RCA08
3/4"	3/4"	3"	RCA09
3/4"	3/4"	12"	RCA10

1 per pack

MORSE TAPER EXTENSION ADAPTORS



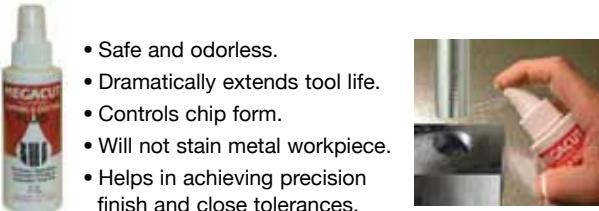
RCA06

RCB12

MORSE TAPER	CUTTER SHANK	OAL	STOCK #
2	3/4"	2"	RCA02
2	3/4"	6"	RCA06
3	3/4"	2"	RCB02
3	3/4"	6"	RCB06
3	3/4"	12"	RCB12

1 per pack

MEGACUT® CUTTING FLUID



- Safe and odorless.
- Dramatically extends tool life.
- Controls chip form.
- Will not stain metal workpiece.
- Helps in achieving precision finish and close tolerances.

DESCRIPTION	STOCK #
MEGACUT® Cutting Fluid 4 oz. Spritzer Bottle	TF7041

12 per pack



COUNTERSINKS

HIGH-SPEED STEEL 3/4" WELDON SHANKS



- For countersinking, chamfering and deburring work using the magnetic base boring machine.

D	D1	d	L	L1	STOCK #
1"	3/16"		1-3/4"		RC76001
1-1/4"	1/4"	3/4"	1-7/8"		RC76002
1-1/2"	5/16"		2-1/16"	15/16"	RC76003
2"	1/2"		2-1/2"		RC76004

1 per pack

KEYLESS DRILL CHUCK



- Chuck capacity 1/2".
- Precision chuck is necessary when using tools with straight shanks.

DESCRIPTION	STOCK #
Keyless Drill Chuck with 3/4" Weldon Shank for Drills	RCC34

1 per pack

MAGNETIC CHIP REMOVER



- Lightweight hand held magnetic tool for removing swarf and drill shavings from work areas.
- Cleans up metal residue by waving over metal debris and chips instantly stick to the magnet.
- Simply wave the wand over the scrap bin, pull the plunger and the chip collector releases the chips in the recycling bin.
- Length: 15-3/4", lifting capacity: 14 lbs.

NEW!

DESCRIPTION	STOCK #
Magnetic Chip Remover Wand	MCR12

1 per pack

Sheet Metal Hole Cutters M2 High-Speed Steel



**1/4" Cutting Depth
Chip Breaker Design**

For Portable Drills & Drill Presses

(Separate Arbor required)

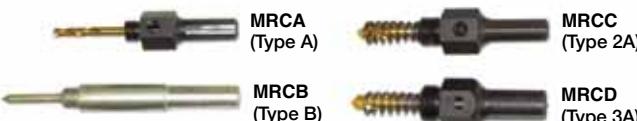
NEW!



- HSS Hole Cutter – an ideal tool for cutting an accurate burr-free hole in ferrous / non-ferrous materials.
- Coated tools last longer than uncoated tools and can be run at higher feeds and speeds.
- Hole cutters and arbors (sold separately) are made of high-speed steel.
- Cutting depth is 1/4". Arbors have a hex shank and come with a 2-1/8" long 118° Split Point Pilot Drill.

HOLE CUTTER	SIZE	ARBOR	STOCK #		
			HSS	TiN COATED	TiAIN COATED
	5/16"	A	MRC101	MRC101TN	MRC101TIAN
	3/8"	A	MRC102	MRC102TN	MRC102TIAN
	7/16"	A	MRC103	MRC103TN	MRC103TIAN
	1/2"	A	MRC104	MRC104TN	MRC104TIAN
	9/16"	A	MRC105	MRC105TN	MRC105TIAN
	5/8"	A	MRC106	MRC106TN	MRC106TIAN
	11/16"	A	MRC106A	MRC106ATN	MRC106ATIAN
	3/4"	A	MRC107	MRC107TN	MRC107TIAN
	13/16"	2A	MRC108	MRC108TN	MRC108TIAN
	7/8"	2A	MRC109	MRC109TN	MRC109TIAN
	15/16"	2A	MRC110	MRC110TN	MRC110TIAN
	1"	2A	MRC111	MRC111TN	MRC111TIAN
	1-1/16"	2A	MRC112	MRC112TN	MRC112TIAN
	1-1/8"	2A	MRC113	MRC113TN	MRC113TIAN
	1-3/16"	2A	MRC114	MRC114TN	MRC114TIAN
	1-1/4"	2A	MRC115	MRC115TN	MRC115TIAN
	1-5/16"	3A	MRC116	MRC116TN	MRC116TIAN
	1-3/8"	3A	MRC117	MRC117TN	MRC117TIAN
	1-7/16"	3A	MRC118	MRC118TN	MRC118TIAN
	1-1/2"	3A	MRC119	MRC119TN	MRC119TIAN
	1-9/16"	3A	MRC120	MRC120TN	MRC120TIAN
	1-5/8"	3A	MRC121	MRC121TN	MRC121TIAN
	1-11/16"	3A	MRC122	MRC122TN	MRC122TIAN
	1-3/4"	3A	MRC123	MRC123TN	MRC123TIAN
	1-13/16"	3A	MRC124	MRC124TN	MRC124TIAN
	1-7/8"	3A	MRC125	MRC125TN	MRC125TIAN
	2"	3A	MRC126	MRC126TN	MRC126TIAN
	2-1/16"	3A	MRC127	MRC127TN	MRC127TIAN
	2-1/8"	3A	MRC128	MRC128TN	MRC128TIAN
	2-1/4"	3A	MRC129	MRC129TN	MRC129TIAN
	2-3/8"	3A	MRC130	MRC130TN	MRC130TIAN
	2-1/2"	3A	MRC131	MRC131TN	MRC131TIAN
	2-9/16"	3A	MRC132	MRC132TN	MRC132TIAN

Pack: 1 Cutter per Pack, Arbors Sold Separately



REPLACEMENT COMPONENT / ACCESSORIES

FOR ARBOR	DESCRIPTION	STOCK #
MRCA	Replacement Drill	MRCE
MRCB	Replacement Ejector Pin	MRCPP
MRCC MRCD	Replacement Drill and Ejector Spring	MRCPP2
—	Hex Key for All Arbors	MRCK
—	Center Punch for 7 Pcs. Kits	MRCP

ARBORS

ARBOR TYPE	PILOT STYLE	HEX SHANK	HOLE CUTTER SIZES	STOCK #
A	Self-Starting Drill	3/8"	5/16" - 3/4"	MRCA
B	Spring Loaded Ejector Pin	3/8"	5/16" - 3/4"	MRCB
2A	Self-Starting Drill with Ejector Spring	3/8"	13/16" - 1-1/4"	MRCC
3A	Self-Starting Drill with Ejector Spring	1/2"	1-5/16" - 2-9/16"	MRCD

Taps, Dies Extractors, Thread Inserts Accessories

B

High-Speed Steel Taps & Dies

Taps

Special Thread Taps B2

Multi-Purpose Taps

NEW! Spiral Pointed B3
NEW! Spiral Fluted B3

High Performance Taps

For Low Tensile Materials

NEW! Spiral Pointed B4
NEW! Spiral Fluted B4

For High Tensile Materials

NEW! Spiral Pointed B5
NEW! Spiral Fluted B5

Hand Taps

Alfa USA® B6
Eco Pro® B7
NEW! Alfa USA - Black Oxide B8
Special Thread B9
Metric Alfa USA® B10
Metric Eco Pro® B11
Metric, Special Thread B12
Oversize +.005 B13
Eight Pitch B13
Left Hand B14
NEW! Left Hand Metric B15
Tap Bit / Monolock® 1/4" Power Shank B15

Spiral Pointed Taps

Spiral Pointed Alfa USA® B16
Spiral Pointed Eco Pro® B16
Spiral Pointed Alfa USA®, Black Oxide B16
Spiral Pointed Metric B17
Spiral Pointed Oversize +.005 B17
Spiral Pointed TiN Coated B17

Spiral Fluted Taps

Spiral Fluted Taps - 52° Helix B18

Special Purpose Taps

Screw Thread Insert (STI) Taps B41
Thread Forming B19
Pulley B19
NEW! Nut B19

Pipe Taps

Taper Pipe, NPT Regular B20
Taper Pipe, Interrupted B20
Taper Pipe, (Dry Seal) NPTF B20
Taper Pipe, BSP (British Std.) B20
Straight Pipe, NPS B21
Taper Pipe Reamers B21
Rethreading Taps B21
Acme Taps B21

Dies

Round Adjustable B22
Round Adjustable, Metric B23
Round Adjustable, Special Thread B24-25
Round Adjustable, Special Thread, Metric B26
Hexagon B27
Hexagon Eight Pitch B27



Carbon Steel Taps & Dies

Hand Taps

Hand	B28
Hand, Metric	B29
Taper Pipe, NPT.....	B30
Spark Plug Taps & Set.....	B30

Dies

Hexagon.....	B31
Hexagon - Metric.....	B31
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Tapping Tools

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Special Thread Taps

We offer special inch and metric HSS taps in a wide range of styles & types;
Straight flute, spiral flute and spiral point geometry.

- Shipment within 24-48 hours on most items.
- Available in bright finish.
- Coated taps are available with longer delivery time.
- Manufactured in the USA.
- Visit our website for more information.



Some of the Special Taps we offer include:

6mm x 1.0
D3 2 FL.
Spiral Point

#8-32 NC
+.005 2 FL.
Spiral Point for Plating

8mm x 1.25
D3 2FL.
Spiral Point

1/8"-27 NPT/F
Taper Pipe Tap
Spiral Flute

1/4-18 NPTF
Interrupted Thread
5 FL. Taper Pipe x 6"

1/2-28 NEF
H3 4 FL.
Plug Tap

#4-40 NC
L.H. Spiral Point

3/4"-20 NEF
L.H. Hand Tap

5/16-24 NF
H7 4 FL.
Bottoming Tap

1"-8 NC
H4 3 FL.
Spiral Point

#8-36 NF
Form Tap

2"-4-1/2 NC
Hand Tap

Multi-Purpose Taps

For Stainless Steel and other applications

MADE IN
U. S. A.

HSS-M4 Hi-Vanadium Steel
Ground Thread
Steam Oxide Finish
DIN Flute – ANSI Shank

Ultimate extra life taps for tougher jobs

Features:

- Specially designed for a wide range of materials.
- Steam oxide tempered surface finish.
- Ground thread.
- High wear resistant.
- Suitable for high strength steels, tool steels and stainless steels.
- For threading up to HRC40 hardened material.
- With thread relief to suit specific applications.
- 2B class of fit.

SPIRAL POINTED TAPS

HIGH-VANADIUM STEEL



PLUG CHAMFER

NEW!

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
4	40	2	H2	HPMP90107
6	32	2	H3	HPMP90111
6	40	2	H2	HPMP90112
8	32	3	H3	HPMP90113
10	24	3	H3	HPMP90115
10	32	3	H3	HPMP90116
FRACTIONAL				
1/4"	20	3	H5	HPMP90130
1/4"	28	3	H4	HPMP90131
5/16"	18	3	H5	HPMP90132
5/16"	24	3	H4	HPMP90133
3/8"	16	3	H5	HPMP90134
3/8"	24	3	H4	HPMP90135
7/16"	14	3	H5	HPMP90136
7/16"	20	3	H5	HPMP90137
1/2"	13	3	H5	HPMP90138
1/2"	20	3	H5	HPMP90139
5/8"	11	4	H6	HPMP90142
5/8"	18	4	H5	HPMP90143
3/4"	10	4	H6	HPMP90146
3/4"	16	4	H5	HPMP90147
7/8"	9	4	H6	HPMP90149
7/8"	14	4	H6	HPMP90150
1"	8	4	H6	HPMP90153
1"	12	4	H6	HPMP90154

1 per pack

SPIRAL FLUTED TAPS

48° SPIRAL 8° - 10° HOOK



SEMI-BOTTOMING STYLE 2 - 2-1/2 THREAD CHAMFER

NEW!

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
4	40	3	H2	HPMP70907
6	32	3	H3	HPMP70911
8	32	3	H3	HPMP70913
10	24	3	H3	HPMP70915
10	32	3	H3	HPMP70916
FRACTIONAL				
1/4"	20	3	H5	HPMP70930
1/4"	28	3	H4	HPMP70931
5/16"	18	3	H5	HPMP70932
5/16"	24	3	H4	HPMP70933
3/8"	16	3	H5	HPMP70934
3/8"	24	3	H4	HPMP70935
7/16"	14	3	H5	HPMP70936
7/16"	20	3	H5	HPMP70937
1/2"	13	3	H5	HPMP70938
1/2"	20	3	H5	HPMP70939
5/8"	11	3	H6	HPMP70942
5/8"	18	3	H5	HPMP70943
3/4"	10	3	H6	HPMP70946
3/4"	16	3	H5	HPMP70947
7/8"	9	4	H6	HPMP70949
7/8"	14	4	H6	HPMP70950
1"	8	4	H6	HPMP70953
1"	12	4	H6	HPMP70954

1 per pack

High Performance Taps

For Low Tensile Materials
(Mild Steel)

MADE IN
U. S. A.

**HSS-M4 Hi-Vanadium Steel
Ground Thread
Steam Oxide Finish**

Features:

- Specially designed for low tensile materials, such as carbon steel 1010 or 1018.
- Steam oxide tempered surface finish.
- Ground thread.
- High wear resistant.
- For working on materials up to HRC-32.

SPIRAL POINTED TAPS

HIGH-VANADIUM STEEL



PLUG CHAMFER

NEW!

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
4	40	2	H2	HPLT30707
6	32	2	H3	HPLT30711
6	40	2	H2	HPLT30712
8	32	3	H3	HPLT30713
10	24	3	H3	HPLT30715
10	32	3	H3	HPLT30716
FRACTIONAL				
1/4"	20	3	H5	HPLT30730
1/4"	28	3	H4	HPLT30731
5/16"	18	2	H5	HPLT30732
5/16"	24	3	H4	HPLT30733
3/8"	16	3	H5	HPLT30734
3/8"	24	3	H4	HPLT30735
7/16"	14	3	H5	HPLT30736
7/16"	20	3	H5	HPLT30737
1/2"	13	3	H5	HPLT30738
1/2"	20	3	H5	HPLT30739
5/8"	11	4	H5	HPLT30742
5/8"	18	4	H5	HPLT30743
3/4"	10	4	H5	HPLT30746
3/4"	16	4	H5	HPLT30747
7/8"	9	4	H6	HPLT30749
7/8"	14	4	H6	HPLT30750
1"	8	4	H6	HPLT30753
1"	12	4	H6	HPLT30754

1 per pack

With thread relief to suit specific applications

SPIRAL FLUTED TAPS

50° SPIRAL 10° - 12° HOOK



SEMI-BOTTOMING STYLE 2 - 2-1/2 THREAD CHAMFER

NEW!

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
4	40	3	H2	HPLT71107
6	32	3	H3	HPLT71111
8	32	3	H3	HPLT71113
10	24	3	H3	HPLT71115
10	32	3	H3	HPLT71116
FRACTIONAL				
1/4"	20	3	H5	HPLT71130
1/4"	28	3	H4	HPLT71131
5/16"	18	3	H5	HPLT71132
5/16"	24	3	H4	HPLT71133
3/8"	16	3	H5	HPLT71134
3/8"	24	3	H4	HPLT71135
7/16"	14	3	H5	HPLT71136
7/16"	20	3	H5	HPLT71137
1/2"	13	3	H5	HPLT71138
1/2"	20	3	H5	HPLT71139
5/8"	11	3	H5	HPLT71142
5/8"	18	3	H5	HPLT71143
3/4"	10	3	H5	HPLT71146
3/4"	16	3	H5	HPLT71147
7/8"	9	4	H6	HPLT71149
7/8"	14	4	H6	HPLT71150
1"	8	4	H6	HPLT71153
1"	12	4	H6	HPLT71154

1 per pack

High Performance Taps

**For High Tensile Materials
(Titanium & Nickel Alloys)**



With thread relief to suit specific applications

**HSS-PM Sintered Metal Steel
Ground Thread
Steam Oxide Finish**

Features:

- Specially designed for high tensile materials.
- Steam oxide tempered surface finish.
- Ground thread.
- High wear resistant.
- For use on hardened materials up to HRC-44.
- Suitable for alloy steels, tool steels, nickel alloy and titanium alloy steel.

SPIRAL POINTED TAPS

HIGH-VANADIUM STEEL



PLUG CHAMFER

NEW!

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
4	40	2	H2	HPHT90207
5	40	2	H2	HPHT90211
6	32	2	H3	HPHT90212
8	32	3	H3	HPHT90213
10	24	3	H3	HPHT90215
10	32	3	H3	HPHT90216
FRACTIONAL				
1/4"	20	3	H3	HPHT90230
1/4"	28	3	H3	HPHT90231
5/16"	18	3	H3	HPHT90232
5/16"	24	3	H3	HPHT90233
3/8"	16	3	H3	HPHT90234
3/8"	24	3	H3	HPHT90235
7/16"	14	3	H3	HPHT90236
7/16"	20	3	H3	HPHT90237
1/2"	13	3	H3	HPHT90238
1/2"	20	3	H3	HPHT90239
5/8"	11	4	H3	HPHT90242
5/8"	18	4	H3	HPHT90243
3/4"	10	4	H3	HPHT90246
3/4"	16	4	H3	HPHT90247

1 per pack

SPIRAL FLUTED TAPS

24° SPIRAL 8° - 10° HOOK



SEMI-BOTTOMING STYLE 2 - 2 1/2 THREAD CHAMFER

NEW!

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
4	40	3	H2	HPHT71007
6	32	3	H3	HPHT71011
8	32	3	H3	HPHT71013
10	24	3	H3	HPHT71015
10	32	3	H3	HPHT71016
FRACTIONAL				
1/4"	20	3	H3	HPHT71030
1/4"	28	3	H3	HPHT71031
5/16"	18	3	H3	HPHT71032
5/16"	24	3	H3	HPHT71033
3/8"	16	3	H3	HPHT71034
3/8"	24	3	H3	HPHT71035
7/16"	14	3	H3	HPHT71036
7/16"	20	3	H3	HPHT71037
1/2"	13	3	H3	HPHT71038
1/2"	20	3	H3	HPHT71039
5/8"	11	3	H3	HPHT71042
5/8"	18	3	H3	HPHT71043
3/4"	10	3	H3	HPHT71046
3/4"	16	3	H3	HPHT71047

1 per pack

Hand Taps - Alfa USA

Super High-Speed Steel Ground Thread, Right Hand

Taper, Plug, Bottoming & Sets



Features:

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- Standard "H" limits provide adequate "class of fit."
- Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.

NC = National Coarse NF = National Fine NS = National Standard

TAP SIZE	THREADS PER INCH NC NF NS	NO. OF FLUTES	GRIND LIMITS	STOCK #				
				TAPER	PLUG	BOTTOM	SET OF 3	
MACHINE SCREW SIZES								
0	80	NF	2	H1	HTT170000	HTP170000	HTB170000	HTS170000
1	64	NC	2	H1	HTT170001	HTP170001	HTB170001	HTS170001
1	72	NF	2	H1	HTT170002	HTP170002	HTB170002	HTS170002
2	56	NC	3	H2	HTT170003	HTP170003	HTB170003	HTS170003
2	64	NF	3	H2	HTT170004	HTP170004	HTB170004	HTS170004
3	48	NC	3	H2	HTT170005	HTP170005	HTB170005	HTS170005
3	56	NF	3	H2	HTT170006	HTP170006	HTB170006	HTS170006
4	40	NC	3	H2	HTT170007	HTP170007	HTB170007	HTS170007
4	48	NF	3	H2	HTT170008	HTP170008	HTB170008	HTS170008
4	36	NS	3	H2	HTT170008A	HTP170008A	HTB170008A	HTS170008A
5	40	NC	3	H2	HTT170009	HTP170009	HTB170009	HTS170009
5	44	NF	3	H2	HTT170010	HTP170010	HTB170010	HTS170010
6	32	NC	3	H3	HTT170011	HTP170011	HTB170011	HTS170011
6	40	NF	3	H2	HTT170012	HTP170012	HTB170012	HTS170012
8	32	NC	4	H3	HTT170013	HTP170013	HTB170013	HTS170013
8	36	NF	4	H2	HTT170014	HTP170014	HTB170014	HTS170014
10	24	NC	4	H3	HTT170015	HTP170015	HTB170015	HTS170015
10	32	NF	4	H3	HTT170016	HTP170016	HTB170016	HTS170016
12	24	NC	4	H3	HTT170017	HTP170017	HTB170017	HTS170017
12	28	NF	4	H3	HTT170018	HTP170018	HTB170018	HTS170018
FRACTIONAL								
1/4"	20	NC	4	H3	HTT170030	HTP170030	HTB170030	HTS170030
1/4"	28	NF	4	H3	HTT170031	HTP170031	HTB170031	HTS170031
5/16"	18	NC	4	H3	HTT170032	HTP170032	HTB170032	HTS170032
5/16"	24	NF	4	H3	HTT170033	HTP170033	HTB170033	HTS170033
3/8"	16	NC	4	H3	HTT170034	HTP170034	HTB170034	HTS170034
3/8"	24	NF	4	H3	HTT170035	HTP170035	HTB170035	HTS170035
7/16"	14	NC	4	H3	HTT170036	HTP170036	HTB170036	HTS170036
7/16"	20	NF	4	H3	HTT170037	HTP170037	HTB170037	HTS170037
1/2"	13	NC	4	H3	HTT170038	HTP170038	HTB170038	HTS170038
1/2"	20	NF	4	H3	HTT170039	HTP170039	HTB170039	HTS170039
9/16"	12	NC	4	H3	HTT170040	HTP170040	HTB170040	HTS170040
9/16"	18	NF	4	H3	HTT170041	HTP170041	HTB170041	HTS170041
5/8"	11	NC	4	H3	HTT170042	HTP170042	HTB170042	HTS170042
5/8"	18	NF	4	H3	HTT170043	HTP170043	HTB170043	HTS170043
11/16"	11	NS	4	H3	HTT170044	HTP170044	HTB170044	HTS170044
11/16"	16	NS	4	H3	HTT170045	HTP170045	HTB170045	HTS170045
3/4"	10	NC	4	H3	HTT170046	HTP170046	HTB170046	HTS170046
3/4"	16	NF	4	H3	HTT170047	HTP170047	HTB170047	HTS170047
7/8"	9	NC	4	H4	HTT170048	HTP170048	HTB170048	HTS170048
7/8"	14	NF	4	H4	HTT170049	HTP170049	HTB170049	HTS170049
1"	8	NC	4	H4	HTT170050	HTP170050	HTB170050	HTS170050
1"	12	NF	4	H4	HTT170051	HTP170051	HTB170051	HTS170051
1"	14	NS	4	H4	HTT170052	HTP170052	HTB170052	HTS170052
1-1/8"	7	NC	4	H4	HTT170053	HTP170053	HTB170053	HTS170053
1-1/8"	12	NF	4	H4	HTT170054	HTP170054	HTB170054	HTS170054
1-1/4"	7	NC	4	H4	HTT170055	HTP170055	HTB170055	HTS170055
1-1/4"	12	NF	6	H4	HTT170056	HTP170056	HTB170056	HTS170056
1-3/8"	6	NC	4	H4	HTT170057	HTP170057	HTB170057	HTS170057
1-3/8"	12	NF	6	H4	HTT170058	HTP170058	HTB170058	HTS170058
1-1/2"	6	NC	4	H4	HTT170059	HTP170059	HTB170059	HTS170059
1-1/2"	12	NF	6	H4	HTT170060	HTP170060	HTB170060	HTS170060

Bulk 0 to 1/4", 12 per pack
5/16" to 1/2", 6 per pack

9/16" to 1", 3 per pack
1-1/8" to 1-1/2", 1 per pack

Sets 3 taps per box, 1 each Taper, Plug and Bottom per size



Hand Taps - Eco Pro

Super High-Speed Steel Ground Thread, Right Hand

Taper, Plug, Bottoming & Sets



Features:

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- Standard "H" limits provide adequate "class of fit."
- Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.

NC = National Coarse NF = National Fine NS = National Standard

TAP SIZE	THREADS PER INCH NC NF NS	NO. OF FLUTES	GRIND LIMITS	STOCK #				
				TAPER	PLUG	BOTTOM	SET OF 3	
MACHINE SCREW SIZES								
0	80	NF	2	H1	HTT270000	HTP270000	HTB270000	HTS270000
1	64	NC	2	H1	HTT270001	HTP270001	HTB270001	HTS270001
1	72	NF	2	H1	HTT270002	HTP270002	HTB270002	HTS270002
2	56	NC	3	H2	HTT270003	HTP270003	HTB270003	HTS270003
2	64	NF	3	H2	HTT270004	HTP270004	HTB270004	HTS270004
3	48	NC	3	H2	HTT270005	HTP270005	HTB270005	HTS270005
3	56	NF	3	H2	HTT270006	HTP270006	HTB270006	HTS270006
4	40	NC	3	H2	HTT270007	HTP270007	HTB270007	HTS270007
4	48	NF	3	H2	HTT270008	HTP270008	HTB270008	HTS270008
5	40	NC	3	H2	HTT270009	HTP270009	HTB270009	HTS270009
5	44	NF	3	H2	HTT270010	HTP270010	HTB270010	HTS270010
6	32	NC	3	H3	HTT270011	HTP270011	HTB270011	HTS270011
6	40	NF	3	H2	HTT270012	HTP270012	HTB270012	HTS270012
8	32	NC	4	H3	HTT270013	HTP270013	HTB270013	HTS270013
8	36	NF	4	H2	HTT270014	HTP270014	HTB270014	HTS270014
10	24	NC	4	H3	HTT270015	HTP270015	HTB270015	HTS270015
10	32	NF	4	H3	HTT270016	HTP270016	HTB270016	HTS270016
12	24	NC	4	H3	HTT270017	HTP270017	HTB270017	HTS270017
12	28	NF	4	H3	HTT270018	HTP270018	HTB270018	HTS270018
FRACTIONAL								
1/4"	20	NC	4	H3	HTT270030	HTP270030	HTB270030	HTS270030
1/4"	28	NF	4	H3	HTT270031	HTP270031	HTB270031	HTS270031
5/16"	18	NC	4	H3	HTT270032	HTP270032	HTB270032	HTS270032
5/16"	24	NF	4	H3	HTT270033	HTP270033	HTB270033	HTS270033
3/8"	16	NC	4	H3	HTT270034	HTP270034	HTB270034	HTS270034
3/8"	24	NF	4	H3	HTT270035	HTP270035	HTB270035	HTS270035
7/16"	14	NC	4	H3	HTT270036	HTP270036	HTB270036	HTS270036
7/16"	20	NF	4	H3	HTT270037	HTP270037	HTB270037	HTS270037
1/2"	13	NC	4	H3	HTT270038	HTP270038	HTB270038	HTS270038
1/2"	20	NF	4	H3	HTT270039	HTP270039	HTB270039	HTS270039
9/16"	12	NC	4	H3	HTT270040	HTP270040	HTB270040	HTS270040
9/16"	18	NF	4	H3	HTT270041	HTP270041	HTB270041	HTS270041
5/8"	11	NC	4	H3	HTT270042	HTP270042	HTB270042	HTS270042
5/8"	18	NF	4	H3	HTT270043	HTP270043	HTB270043	HTS270043
11/16"	11	NS	4	H3	HTT270044	HTP270044	HTB270044	HTS270044
11/16"	16	NS	4	H3	HTT270045	HTP270045	HTB270045	HTS270045
3/4"	10	NC	4	H3	HTT270046	HTP270046	HTB270046	HTS270046
3/4"	16	NF	4	H3	HTT270047	HTP270047	HTB270047	HTS270047
7/8"	9	NC	4	H4	HTT270048	HTP270048	HTB270048	HTS270048
7/8"	14	NF	4	H4	HTT270049	HTP270049	HTB270049	HTS270049
1"	8	NC	4	H4	HTT270050	HTP270050	HTB270050	HTS270050
1"	12	NF	4	H4	HTT270051	HTP270051	HTB270051	HTS270051
1"	14	NS	4	H4	HTT270052	HTP270052	HTB270052	HTS270052
1-1/8"	7	NC	4	H4	HTT270053	HTP270053	HTB270053	HTS270053
1-1/8"	12	NF	4	H4	HTT270054	HTP270054	HTB270054	HTS270054
1-1/4"	7	NC	4	H4	HTT270055	HTP270055	HTB270055	HTS270055
1-1/4"	12	NF	4	H4	HTT270056	HTP270056	HTB270056	HTS270056
1-3/8"	6	NC	4	H4	HTT270057	HTP270057	HTB270057	HTS270057
1-3/8"	12	NF	6	H4	HTT270058	HTP270058	HTB270058	HTS270058
1-1/2"	6	NC	4	H4	HTT270059	HTP270059	HTB270059	HTS270059
1-1/2"	12	NF	6	H4	HTT270060	HTP270060	HTB270060	HTS270060

Bulk 0 to 1/4", 10 per pack
5/16" to 1/2", 5 per pack

9/16" to 1", 3 per pack
1-1/8" to 1-1/2", 1 per pack

Sets 3 taps per box, 1 each Taper, Plug and Bottom per size



Hand Taps - Alfa USA - Black Oxide

Super High-Speed Steel Ground Thread, Right Hand

Taper, Plug, Bottoming & Sets

Black oxide surface treatment provides extra lubricity, increases wear resistance and extends tool life.



Features:

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- For use in Oil Field, Pipe Line and Heat Exchanger Applications.
- Standard "H" limits provide adequate "class of fit."
- Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.

MADE IN
U. S. A.

NEW!

NC = National Coarse NF = National Fine NS = National Standard

TAP SIZE	THREADS PER INCH NC NF NS	NO. OF FLUTES	GRIND LIMITS	STOCK #				
				TAPER	PLUG	BOTTOM	SET OF 3	
MACHINE SCREW SIZES								
1	64	NC	2	H1	HTT80001	HTP80001	HTB80001	HTS80001
1	72	NF	2	H1	HTT80002	HTP80002	HTB80002	HTS80002
2	56	NC	3	H2	HTT80003	HTP80003	HTB80003	HTS80003
2	64	NF	3	H2	HTT80004	HTP80004	HTB80004	HTS80004
3	48	NC	3	H2	HTT80005	HTP80005	HTB80005	HTS80005
3	56	NF	3	H2	HTT80006	HTP80006	HTB80006	HTS80006
4	40	NC	3	H2	HTT80007	HTP80007	HTB80007	HTS80007
4	48	NF	3	H2	HTT80008	HTP80008	HTB80008	HTS80008
4	36	NS	3	H2	HTT80008A	HTP80008A	HTB80008A	HTS80008A
5	40	NC	3	H2	HTT80009	HTP80009	HTB80009	HTS80009
5	44	NF	3	H2	HTT80010	HTP80010	HTB80010	HTS80010
6	32	NC	3	H3	HTT80011	HTP80011	HTB80011	HTS80011
6	40	NF	3	H2	HTT80012	HTP80012	HTB80012	HTS80012
8	32	NC	4	H3	HTT80013	HTP80013	HTB80013	HTS80013
8	36	NF	4	H2	HTT80014	HTP80014	HTB80014	HTS80014
10	24	NC	4	H3	HTT80015	HTP80015	HTB80015	HTS80015
10	32	NF	4	H3	HTT80016	HTP80016	HTB80016	HTS80016
12	24	NC	4	H3	HTT80017	HTP80017	HTB80017	HTS80017
12	28	NF	4	H3	HTT80018	HTP80018	HTB80018	HTS80018
FRACTIONAL								
1/4"	20	NC	4	H3	HTT80030	HTP80030	HTB80030	HTS80030
1/4"	28	NF	4	H3	HTT80031	HTP80031	HTB80031	HTS80031
5/16"	18	NC	4	H3	HTT80032	HTP80032	HTB80032	HTS80032
5/16"	24	NF	4	H3	HTT80033	HTP80033	HTB80033	HTS80033
3/8"	16	NC	4	H3	HTT80034	HTP80034	HTB80034	HTS80034
3/8"	24	NF	4	H3	HTT80035	HTP80035	HTB80035	HTS80035
7/16"	14	NC	4	H3	HTT80036	HTP80036	HTB80036	HTS80036
7/16"	20	NF	4	H3	HTT80037	HTP80037	HTB80037	HTS80037
1/2"	13	NC	4	H3	HTT80038	HTP80038	HTB80038	HTS80038
1/2"	20	NF	4	H3	HTT80039	HTP80039	HTB80039	HTS80039
9/16"	12	NC	4	H3	HTT80040	HTP80040	HTB80040	HTS80040
9/16"	18	NF	4	H3	HTT80041	HTP80041	HTB80041	HTS80041
5/8"	11	NC	4	H3	HTT80042	HTP80042	HTB80042	HTS80042
5/8"	18	NF	4	H3	HTT80043	HTP80043	HTB80043	HTS80043
11/16"	11	NS	4	H3	HTT80044	HTP80044	HTB80044	HTS80044
11/16"	16	NS	4	H3	HTT80045	HTP80045	HTB80045	HTS80045
3/4"	10	NC	4	H3	HTT80046	HTP80046	HTB80046	HTS80046
3/4"	16	NF	4	H3	HTT80047	HTP80047	HTB80047	HTS80047
7/8"	9	NC	4	H4	HTT80048	HTP80048	HTB80048	HTS80048
7/8"	14	NF	4	H4	HTT80049	HTP80049	HTB80049	HTS80049
1"	8	NC	4	H4	HTT80050	HTP80050	HTB80050	HTS80050
1"	12	NF	4	H4	HTT80051	HTP80051	HTB80051	HTS80051
1"	14	NS	4	H4	HTT80052	HTP80052	HTB80052	HTS80052
1-1/8"	7	NC	4	H4	HTT80053	HTP80053	HTB80053	HTS80053
1-1/8"	12	NF	4	H4	HTT80054	HTP80054	HTB80054	HTS80054
1-1/4"	7	NC	4	H4	HTT80055	HTP80055	HTB80055	HTS80055
1-1/4"	12	NF	6	H4	HTT80056	HTP80056	HTB80056	HTS80056
1-3/8"	6	NC	4	H4	HTT80057	HTP80057	HTB80057	HTS80057
1-3/8"	12	NF	6	H4	HTT80058	HTP80058	HTB80058	HTS80058
1-1/2"	6	NC	4	H4	HTT80059	HTP80059	HTB80059	HTS80059
1-1/2"	12	NF	6	H4	HTT80060	HTP80060	HTB80060	HTS80060

Bulk 1 to 1/4", 12 per pack
5/16" to 1/2", 6 per pack

9/16" to 1", 3 per pack
1-1/8" to 1-1/2", 1 per pack

Sets 3 taps per box, 1 each Taper, Plug and Bottom per size

Hand Taps - Special Thread

Super High-Speed Steel Ground Thread, Right Hand

Any special thread
pitch tap is available.
Call for details.



Features:

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- Standard "H" limits provide adequate "class of fit."
- Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.

TAPER / PLUG / BOTTOMING

PLEASE SPECIFY (T) TAPER / (P) PLUG / (B) BOTTOMING WHEN ORDERING i.e. HTSP T 71301

MACHINE SCREW & FRACTIONAL SIZES

TAP SIZE x TPI	STOCK #								
6-36	HTSP 71301	5/8-24	HTSP 71351	1-16	HTSP 71401	1 3/8-10	HTSP 71451	1 15/16-18	HTSP 71501
6-48	HTSP 71302	5/8-26	HTSP 71352	1-18	HTSP 71402	1 3/8-14	HTSP 71452	2-4 1/2	HTSP 71502
8-24	HTSP 71303	5/8-27	HTSP 71353	1-20	HTSP 71403	1 3/8-16	HTSP 71453	2-8	HTSP 71503
8-40	HTSP 71304	5/8-28	HTSP 71354	1-24	HTSP 71404	1 3/8-18	HTSP 71454	2-10	HTSP 71504
8-48	HTSP 71305	5/8-32	HTSP 71355	1-26	HTSP 71405	1 3/8-20	HTSP 71455	2-12	HTSP 71505
10-28	HTSP 71306	5/8-36	HTSP 71356	1-27	HTSP 71406	1 3/8-24	HTSP 71456	2-14	HTSP 71506
10-36	HTSP 71307	5/8-40	HTSP 71357	1-28	HTSP 71407	1 7/16-12	HTSP 71457	2-16	HTSP 71507
10-40	HTSP 71308	11/16-12	HTSP 71358	1-32	HTSP 71408	1 7/16-16	HTSP 71458	2-18	HTSP 71508
10-48	HTSP 71309	11/16-18	HTSP 71359	1-36	HTSP 71409	1 7/16-18	HTSP 71459	2-20	HTSP 71509
12-32	HTSP 71310	11/16-20	HTSP 71360	1-40	HTSP 71410	1 7/16-20	HTSP 71460	2 1/8-8	HTSP 71510
12-36	HTSP 71311	11/16-24	HTSP 71361	1 1/16-8	HTSP 71411	1 1/2-8	HTSP 71461	2 1/8-12	HTSP 71511
12-40	HTSP 71312	11/16-27	HTSP 71362	1 1/16-12	HTSP 71412	1 1/2-10	HTSP 71462	2 1/4-4 1/2	HTSP 71512
12-48	HTSP 71313	11/16-32	HTSP 71363	1 1/16-14	HTSP 71413	1 1/2-14	HTSP 71463	2 1/4-8	HTSP 71513
1/4-24	HTSP 71314	3/4-12	HTSP 71364	1 1/16-16	HTSP 71414	1 1/2-16	HTSP 71464	2 1/4-12	HTSP 71514
1/4-32	HTSP 71315	3/4-14	HTSP 71365	1 1/16-18	HTSP 71415	1 1/2-18	HTSP 71465	2 1/4-14	HTSP 71515
1/4-36	HTSP 71316	3/4-18	HTSP 71366	1 1/16-20	HTSP 71416	1 1/2-20	HTSP 71466	2 1/4-16	HTSP 71516
1/4-40	HTSP 71317	3/4-20	HTSP 71367	1 1/16-24	HTSP 71417	1 1/2-24	HTSP 71467	2 1/4-18	HTSP 71517
5/16-20	HTSP 71318	3/4-24	HTSP 71368	1 1/16-32	HTSP 71418	1 1/2-32	HTSP 71468	2 3/8-8	HTSP 71518
5/16-22	HTSP 71319	3/4-26	HTSP 71369	1 1/8-8	HTSP 71419	1 9/16-12	HTSP 71469	2 3/8-12	HTSP 71519
5/16-32	HTSP 71320	3/4-27	HTSP 71370	1 1/8-10	HTSP 71420	1 9/16-16	HTSP 71470	2 3/8-16	HTSP 71520
5/16-36	HTSP 71321	3/4-28	HTSP 71371	1 1/8-16	HTSP 71421	1 9/16-18	HTSP 71471	2 3/8-18	HTSP 71521
5/16-40	HTSP 71322	3/4-32	HTSP 71372	1 1/8-18	HTSP 71422	1 9/16-20	HTSP 71472	2 1/2-4	HTSP 71522
3/8-14	HTSP 71323	3/4-36	HTSP 71373	1 1/8-20	HTSP 71423	1 5/8-5 1/2	HTSP 71473	2 1/2-8	HTSP 71523
3/8-18	HTSP 71324	13/16-10	HTSP 71374	1 1/8-24	HTSP 71424	1 5/8-8	HTSP 71474	2 1/2-12	HTSP 71524
3/8-20	HTSP 71325	13/16-12	HTSP 71375	1 1/8-27	HTSP 71425	1 5/8-12	HTSP 71475	2 1/2-16	HTSP 71525
3/8-32	HTSP 71326	13/16-14	HTSP 71376	1 1/8-32	HTSP 71426	1 5/8-16	HTSP 71476	2 5/8-8	HTSP 71527
3/8-40	HTSP 71327	13/16-16	HTSP 71377	1 3/16-8	HTSP 71427	1 5/8-18	HTSP 71477	2 5/8-12	HTSP 71528
7/16-24	HTSP 71328	13/16-18	HTSP 71378	1 3/16-12	HTSP 71428	1 5/8-20	HTSP 71478	2 5/8-16	HTSP 71529
7/16-27	HTSP 71329	13/16-20	HTSP 71379	1 3/16-14	HTSP 71429	1 11/16-12	HTSP 71479	2 3/4-8	HTSP 71530
7/16-28	HTSP 71330	13/16-24	HTSP 71380	1 3/16-16	HTSP 71430	1 11/16-16	HTSP 71480	2 3/4-12	HTSP 71531
1/2-12	HTSP 71331	13/16-26	HTSP 71381	1 3/16-18	HTSP 71431	1 11/16-18	HTSP 71481	2 3/4-16	HTSP 71532
1/2-14	HTSP 71332	13/16-28	HTSP 71382	1 3/16-20	HTSP 71432	1 11/16-20	HTSP 71482	2 7/8-8	HTSP 71533
1/2-16	HTSP 71333	13/16-32	HTSP 71383	1 3/16-24	HTSP 71433	1 3/4-5	HTSP 71483	2 7/8-12	HTSP 71534
1/2-18	HTSP 71334	13/16-36	HTSP 71384	1 3/16-32	HTSP 71434	1 3/4-6	HTSP 71484	3-4	HTSP 71535
1/2-24	HTSP 71335	7/8-12	HTSP 71385	1 1/4-8	HTSP 71435	1 3/4-8	HTSP 71485	3-8	HTSP 71536
1/2-28	HTSP 71336	7/8-16	HTSP 71386	1 1/4-10	HTSP 71436	1 3/4-10	HTSP 71486	3-12	HTSP 71537
1/2-32	HTSP 71337	7/8-18	HTSP 71387	1 1/4-14	HTSP 71437	1 3/4-12	HTSP 71487	3-16	HTSP 71538
1/2-40	HTSP 71338	7/8-20	HTSP 71388	1 1/4-16	HTSP 71438	1 3/4-14	HTSP 71488	3-18	HTSP 71539
9/16-16	HTSP 71339	7/8-24	HTSP 71389	1 1/4-18	HTSP 71439	1 3/4-16	HTSP 71489	3 1/4-8	HTSP 71540
9/16-20	HTSP 71340	7/8-27	HTSP 71390	1 1/4-20	HTSP 71440	1 3/4-18	HTSP 71490	3 1/4-12	HTSP 71541
9/16-24	HTSP 71341	7/8-32	HTSP 71391	1 1/4-24	HTSP 71441	1 3/4-20	HTSP 71491	3 1/2-4	HTSP 71542
9/16-27	HTSP 71342	7/8-40	HTSP 71392	1 1/4-26	HTSP 71442	1 3/4-24	HTSP 71492	3 1/2-8	HTSP 71543
9/16-28	HTSP 71343	15/16-12	HTSP 71393	1 1/4-32	HTSP 71443	1 7/8-5	HTSP 71493	3 1/2-12	HTSP 71544
9/16-30	HTSP 71344	15/16-16	HTSP 71394	1 5/16-8	HTSP 71444	1 7/8-8	HTSP 71494	3 3/4-8	HTSP 71545
9/16-32	HTSP 71345	15/16-18	HTSP 71395	1 5/16-12	HTSP 71445	1 7/8-12	HTSP 71495	3 3/4-12	HTSP 71546
9/16-40	HTSP 71346	15/16-20	HTSP 71396	1 5/16-14	HTSP 71446	1 7/8-16	HTSP 71496	4-8	HTSP 71547
5/8-12	HTSP 71347	15/16-24	HTSP 71397	1 5/16-16	HTSP 71447	1 7/8-18	HTSP 71497	4-12	HTSP 71548
5/8-14	HTSP 71348	15/16-27	HTSP 71398	1 5/16-18	HTSP 71448	1 7/8-20	HTSP 71498		
5/8-16	HTSP 71349	15/16-32	HTSP 71399	1 5/16-20	HTSP 71449	1 15/16-12	HTSP 71499		
5/8-20	HTSP 71350	1-10	HTSP 71400	1 3/8-8	HTSP 71450	1 15/16-16	HTSP 71500		

1 per pack



Metric Hand Taps - Alfa USA

High-Speed Steel Ground Thread Right Hand

Features:

MADE IN
U. S. A.

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- Standard "H" limits provide adequate "class of fit."
- **Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- **Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- **Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.



Expanded

TAP SIZE	PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #			
				TAPER	PLUG	BOTTOM	SET OF 3
2	0.40	3	D3	HSMTT171004	HSMTP171004	HSMTB171004	HSMTS171004
2.2	0.45	3	D3	HSMTT171006	HSMTP171006	HSMTB171006	HSMTS171006
2.5	0.45	3	D3	HSMTT171008	HSMTP171008	HSMTB171008	HSMTS171008
3	0.50	3	D3	HSMTT171010	HSMTP171010	HSMTB171010	HSMTS171010
3.5	0.60	3	D4	HSMTT171012	HSMTP171012	HSMTB171012	HSMTS171012
4	0.70	4	D4	HSMTT171014	HSMTP171014	HSMTB171014	HSMTS171014
4.5	0.75	4	D4	HSMTT171015	HSMTP171015	HSMTB171015	HSMTS171015
5	0.80	4	D4	HSMTT171016	HSMTP171016	HSMTB171016	HSMTS171016
6	1.00	4	D5	HSMTT171020	HSMTP171020	HSMTB171020	HSMTS171020
7	1.00	4	D5	HSMTT171023	HSMTP171023	HSMTB171023	HSMTS171023
8	1.25	4	D5	HSMTT171024	HSMTP171024	HSMTB171024	HSMTS171024
8	1.00	4	D5	HSMTT171025	HSMTP171025	HSMTB171025	HSMTS171025
10	1.50	4	D6	HSMTT171027	HSMTP171027	HSMTB171027	HSMTS171027
10	1.25	4	D5	HSMTT171028	HSMTP171028	HSMTB171028	HSMTS171028
12	1.75	4	D6	HSMTT171031	HSMTP171031	HSMTB171031	HSMTS171031
12	1.25	4	D6	HSMTT171033	HSMTP171033	HSMTB171033	HSMTS171033
14	2.00	4	D7	HSMTT171034	HSMTP171034	HSMTB171034	HSMTS171034
14	1.50	4	D6	HSMTT171035	HSMTP171035	HSMTB171035	HSMTS171035
16	2.00	4	D7	HSMTT171037	HSMTP171037	HSMTB171037	HSMTS171037
16	1.50	4	D6	HSMTT171038	HSMTP171038	HSMTB171038	HSMTS171038
18	2.50	4	D7	HSMTT171039	HSMTP171039	HSMTB171039	HSMTS171039
18	1.50	4	D6	HSMTT171042	HSMTP171042	HSMTB171042	HSMTS171042
20	2.50	4	D7	HSMTT171043	HSMTP171043	HSMTB171043	HSMTS171043
20	1.50	4	D6	HSMTT171044	HSMTP171044	HSMTB171044	HSMTS171044
22	2.50	4	D7	HSMTT171047	HSMTP171047	HSMTB171047	HSMTS171047
22	1.50	4	D6	HSMTT171048	HSMTP171048	HSMTB171048	HSMTS171048
24	3.00	4	D8	HSMTT171049	HSMTP171049	HSMTB171049	HSMTS171049
24	2.00	4	D7	HSMTT171050	HSMTP171050	HSMTB171050	HSMTS171050
27	3.00	4	D8	HSMTT171052	HSMTP171052	HSMTB171052	HSMTS171052
27	2.00	4	D7	HSMTT171053	HSMTP171053	HSMTB171053	HSMTS171053
30	3.50	4	D9	HSMTT171054	HSMTP171054	HSMTB171054	HSMTS171054
30	2.00	4	D7	HSMTT171055	HSMTP171055	HSMTB171055	HSMTS171055
33	3.50	4	D9	HSMTT171058	HSMTP171058	HSMTB171058	HSMTS171058
33	2.00	4	D7	HSMTT171059	HSMTP171059	HSMTB171059	HSMTS171059
36	4.00	4	D9	HSMTT171060	HSMTP171060	HSMTB171060	HSMTS171060

2 to 6mm, 12 per pack, 7 to 12mm, 6 per pack

14 to 27mm, 3 per pack, 30mm and above 1 per pack

Sets 3 taps per box, 1 each Taper, Plug and Bottom per size

Metric Hand Taps - Eco Pro

High-Speed Steel Ground Thread Right Hand

Features:

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- Standard "H" limits provide adequate "class of fit."
- **Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- **Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- **Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.



Expanded

TAP SIZE	PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #			
				TAPER	PLUG	BOTTOM	SET OF 3
2	0.40	3	D3	HSMTT271004	HSMTP271004	HSMTB271004	HSMTS271004
2.2	0.45	3	D3	HSMTT271006	HSMTP271006	HSMTB271006	HSMTS271006
2.3	0.40	3	D3	HSMTT271007	HSMTP271007	HSMTB271007	HSMTS271007
2.5	0.45	3	D3	HSMTT271008	HSMTP271008	HSMTB271008	HSMTS271008
3	0.50	3	D3	HSMTT271010	HSMTP271010	HSMTB271010	HSMTS271010
3.5	0.60	3	D4	HSMTT271012	HSMTP271012	HSMTB271012	HSMTS271012
4	0.50	4	D3	HSMTT271013	HSMTP271013	HSMTB271013	HSMTS271013
4	0.70	4	D4	HSMTT271014	HSMTP271014	HSMTB271014	HSMTS271014
4.5	0.75	4	D4	HSMTT271015	HSMTP271015	HSMTB271015	HSMTS271015
5	0.80	4	D4	HSMTT271016	HSMTP271016	HSMTB271016	HSMTS271016
5	0.90	4	D4	HSMTT271017	HSMTP271017	HSMTB271017	HSMTS271017
5	0.50	4	D3	HSMTT271018	HSMTP271018	HSMTB271018	HSMTS271018
6	1.00	4	D5	HSMTT271020	HSMTP271020	HSMTB271020	HSMTS271020
6	0.75	4	D3	HSMTT271021	HSMTP271021	HSMTB271021	HSMTS271021
7	1.00	4	D5	HSMTT271023	HSMTP271023	HSMTB271023	HSMTS271023
8	1.25	4	D5	HSMTT271024	HSMTP271024	HSMTB271024	HSMTS271024
8	1.00	4	D5	HSMTT271025	HSMTP271025	HSMTB271025	HSMTS271025
9	1.25	4	D5	HSMTT271026	HSMTP271026	HSMTB271026	HSMTS271026
10	1.50	4	D6	HSMTT271027	HSMTP271027	HSMTB271027	HSMTS271027
10	1.25	4	D5	HSMTT271028	HSMTP271028	HSMTB271028	HSMTS271028
10	1.00	4	D5	HSMTT271029	HSMTP271029	HSMTB271029	HSMTS271029
11	1.50	4	D6	HSMTT271030	HSMTP271030	HSMTB271030	HSMTS271030
12	1.75	4	D6	HSMTT271031	HSMTP271031	HSMTB271031	HSMTS271031
12	1.50	4	D6	HSMTT271032	HSMTP271032	HSMTB271032	HSMTS271032
12	1.25	4	D6	HSMTT271033	HSMTP271033	HSMTB271033	HSMTS271033
14	2.00	4	D7	HSMTT271034	HSMTP271034	HSMTB271034	HSMTS271034
14	1.50	4	D6	HSMTT271035	HSMTP271035	HSMTB271035	HSMTS271035
14	1.25	4	D5	HSMTT271036	HSMTP271036	HSMTB271036	HSMTS271036
16	2.00	4	D7	HSMTT271037	HSMTP271037	HSMTB271037	HSMTS271037
16	1.50	4	D6	HSMTT271038	HSMTP271038	HSMTB271038	HSMTS271038
18	2.50	4	D7	HSMTT271039	HSMTP271039	HSMTB271039	HSMTS271039
18	2.00	4	D7	HSMTT271040	HSMTP271040	HSMTB271040	HSMTS271040
18	1.00	4	D5	HSMTT271041	HSMTP271041	HSMTB271041	HSMTS271041
18	1.50	4	D6	HSMTT271042	HSMTP271042	HSMTB271042	HSMTS271042
20	2.50	4	D7	HSMTT271043	HSMTP271043	HSMTB271043	HSMTS271043
20	1.50	4	D6	HSMTT271044	HSMTP271044	HSMTB271044	HSMTS271044
20	1.00	4	D5	HSMTT271045	HSMTP271045	HSMTB271045	HSMTS271045
20	2.00	4	D7	HSMTT271046	HSMTP271046	HSMTB271046	HSMTS271046
22	2.50	4	D7	HSMTT271047	HSMTP271047	HSMTB271047	HSMTS271047
22	1.50	4	D6	HSMTT271048	HSMTP271048	HSMTB271048	HSMTS271048
24	3.00	4	D8	HSMTT271049	HSMTP271049	HSMTB271049	HSMTS271049
24	2.00	4	D7	HSMTT271050	HSMTP271050	HSMTB271050	HSMTS271050
24	1.50	4	D6	HSMTT271051	HSMTP271051	HSMTB271051	HSMTS271051
27	3.00	4	D8	HSMTT271052	HSMTP271052	HSMTB271052	HSMTS271052
27	2.00	4	D7	HSMTT271053	HSMTP271053	HSMTB271053	HSMTS271053
30	3.50	4	D9	HSMTT271054	HSMTP271054	HSMTB271054	HSMTS271054
30	2.00	4	D7	HSMTT271055	HSMTP271055	HSMTB271055	HSMTS271055
30	1.50	4	D6	HSMTT271056	HSMTP271056	HSMTB271056	HSMTS271056
32	2.00	4	D7	HSMTT271057	HSMTP271057	HSMTB271057	HSMTS271057
33	3.50	4	D9	HSMTT271058	HSMTP271058	HSMTB271058	HSMTS271058
33	2.00	4	D7	HSMTT271059	HSMTP271059	HSMTB271059	HSMTS271059
36	4.00	4	D9	HSMTT271060	HSMTP271060	HSMTB271060	HSMTS271060

2 to 6mm, 10 per pack, 7 to 12mm, 5 per pack
14 to 27mm, 3 per pack, 30mm and above 1 per pack

Sets 3 taps per box, 1 each Taper, Plug and Bottom per size

ECO PRO®

• ECO PRO Taps are
manufactured in Europe.



Metric Hand Taps - Special Thread

Metric Hand Taps

B

High-Speed Steel Ground Thread

- Features:**
- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
 - Suitable for tapping most materials.
 - Standard "H" limits provide adequate "class of fit."
 - Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
 - Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.



PLUG / BOTTOMING CHAMFERS

TAP SIZE	PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #	
				PLUG	BOTTOM
2	0.25	3	D3	HSMTP72008	HSMTB72008
2	0.45	3	D3	HSMTP72009	HSMTB72009
2.5	0.50	3	D3	HSMTP72011	HSMTB72011
2.6	0.35	3	D3	HSMTP72012	HSMTB72012
2.6	0.45	3	D3	HSMTP72013	HSMTB72013
3	0.35	3	D3	HSMTP72014	HSMTB72014
3	0.60	3	D4	HSMTP72015	HSMTB72015
3.5	0.50	3	D3	HSMTP72016	HSMTB72016
4.5	0.50	4	D3	HSMTP72018	HSMTB72018
5	0.75	4	D4	HSMTP72020	HSMTB72020
5.5	0.70	4	D4	HSMTP72022	HSMTB72022
5.5	0.90	4	D4	HSMTP72023	HSMTB72023
6	0.50	4	D3	HSMTP72024	HSMTB72024
7	0.50	4	D4	HSMTP72026	HSMTB72026
7	0.75	4	D5	HSMTP72027	HSMTB72027
7	1.25	4	D5	HSMTP72028	HSMTB72028
8	0.50	4	D4	HSMTP72029	HSMTB72029
8	0.75	4	D5	HSMTP72030	HSMTB72030
8	1.50	4	D6	HSMTP72031	HSMTB72031
9	0.50	4	D4	HSMTP72032	HSMTB72032
9	0.75	4	D5	HSMTP72033	HSMTB72033
9	1.00	4	D5	HSMTP72034	HSMTB72034
10	0.50	4	D4	HSMTP72036	HSMTB72036
10	0.75	4	D5	HSMTP72037	HSMTB72037
11	0.50	4	D4	HSMTP72039	HSMTB72039
11	0.75	4	D5	HSMTP72040	HSMTB72040
11	1.00	4	D5	HSMTP72041	HSMTB72041
11	1.25	4	D5	HSMTP72042	HSMTB72042
12	0.50	4	D4	HSMTP72044	HSMTB72044
12	0.75	4	D5	HSMTP72045	HSMTB72045
12	1.00	4	D5	HSMTP72046	HSMTB72046
13	0.50	4	D4	HSMTP72048	HSMTB72048
13	1.00	4	D5	HSMTP72049	HSMTB72049
13	1.25	4	D5	HSMTP72050	HSMTB72050
13	1.50	4	D6	HSMTP72051	HSMTB72051
13	2.00	4	D7	HSMTP72052	HSMTB72052
14	0.50	4	D4	HSMTP72053	HSMTB72053
14	0.75	4	D5	HSMTP72054	HSMTB72054
14	1.00	4	D5	HSMTP72055	HSMTB72055
14	1.75	4	D6	HSMTP72057	HSMTB72057
15	0.50	4	D4	HSMTP72058	HSMTB72058
15	1.50	4	D6	HSMTP72059	HSMTB72059
15	1.00	4	D5	HSMTP72060	HSMTB72060
15	2.00	4	D7	HSMTP72061	HSMTB72061
16	0.50	4	D4	HSMTP72062	HSMTB72062
16	0.75	4	D5	HSMTP72063	HSMTB72063
16	1.00	4	D5	HSMTP72064	HSMTB72064
16	1.25	4	D5	HSMTP72065	HSMTB72065
17	0.50	4	D4	HSMTP72066	HSMTB72066
17	1.00	4	D5	HSMTP72067	HSMTB72067
17	1.50	4	D6	HSMTP72068	HSMTB72068
17	2.00	4	D7	HSMTP72069	HSMTB72069
18	0.50	4	D4	HSMTP72070	HSMTB72070
18	1.25	4	D5	HSMTP72072	HSMTB72072

TAP SIZE	PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #	
				PLUG	BOTTOM
18	1.75	4	D6	HSMTP72073	HSMTB72073
19	0.50	4	D4	HSMTP72075	HSMTB72075
19	1.00	4	D5	HSMTP72076	HSMTB72076
19	1.50	4	D6	HSMTP72077	HSMTB72077
19	2.00	4	D7	HSMTP72078	HSMTB72078
20	1.25	4	D5	HSMTP72080	HSMTB72080
21	1.00	4	D5	HSMTP72082	HSMTB72082
21	1.50	4	D6	HSMTP72083	HSMTB72083
21	2.00	4	D7	HSMTP72084	HSMTB72084
21	2.50	4	D7	HSMTP72085	HSMTB72085
22	1.00	4	D5	HSMTP72086	HSMTB72086
22	2.00	4	D7	HSMTP72087	HSMTB72087
23	1.00	4	D5	HSMTP72088	HSMTB72088
23	1.50	4	D6	HSMTP72089	HSMTB72089
23	2.00	4	D7	HSMTP72090	HSMTB72090
23	2.50	4	D7	HSMTP72091	HSMTB72091
23	3.00	4	D8	HSMTP72092	HSMTB72092
24	1.00	4	D5	HSMTP72093	HSMTB72093
25	1.00	4	D5	HSMTP72094	HSMTB72094
25	1.50	4	D6	HSMTP72095	HSMTB72095
25	2.00	4	D7	HSMTP72096	HSMTB72096
25	3.00	4	D8	HSMTP72097	HSMTB72097
26	1.50	4	D6	HSMTP72098	HSMTB72098
26	2.00	4	D7	HSMTP72099	HSMTB72099
27	1.00	4	D6	HSMTP72100	HSMTB72100
27	2.50	4	D8	HSMTP72101	HSMTB72101
28	1.50	4	D6	HSMTP72102	HSMTB72102
28	2.00	4	D7	HSMTP72103	HSMTB72103
30	1.00	4	D6	HSMTP72104	HSMTB72104
30	2.50	4	D8	HSMTP72106	HSMTB72106
30	3.00	4	D8	HSMTP72107	HSMTB72107
32	1.50	4	D6	HSMTP72108	HSMTB72108
33	1.50	4	D6	HSMTP72110	HSMTB72110
34	1.50	6	D6	HSMTP72112	HSMTB72112
35	1.50	6	D6	HSMTP72113	HSMTB72113
38	1.50	6	D6	HSMTP72114	HSMTB72114
39	1.50	6	D6	HSMTP72115	HSMTB72115
40	1.50	6	D6	HSMTP72116	HSMTB72116
42	1.50	6	D6	HSMTP72117	HSMTB72117
42	3.00	6	D8	HSMTP72118	HSMTB72118
42	4.50	6	D10	HSMTP72119	HSMTB72119
45	1.50	6	D6	HSMTP72120	HSMTB72120
45	3.00	6	D8	HSMTP72121	HSMTB72121
45	4.50	6	D10	HSMTP72122	HSMTB72122
48	1.50	8	D6	HSMTP72123	HSMTB72123
48	3.00	6	D8	HSMTP72124	HSMTB72124
48	4.50	6	D10	HSMTP72125	HSMTB72125
48	5.00	6	D10	HSMTP72126	HSMTB72126
50	1.50	8	D6	HSMTP72127	HSMTB72127
50	3.00	6	D8	HSMTP72128	HSMTB72128
52	1.50	8	D6	HSMTP72129	HSMTB72129
52	3.00	6	D8	HSMTP72130	HSMTB72130
52	5.00	6	D10	HSMTP72131	HSMTB72131

1 per pack

Hand Taps + .005 Oversize

High-Speed Steel Ground Thread

Features:

- Produces threads with a pitch diameter .005 larger than basic pitch diameter.
- Can be used by hand or under power, in through or blind holes.
- Used primarily on parts to be plated or heat treated after tapping, or where loss of size is anticipated for any reason.



PLUG CHAMFER

TAP SIZE	TPI	NO. OF FLUTES	STOCK
MACHINE SCREW SIZES			
4	40	3	HTO71407
5	40	3	HTO71409
6	32	3	HTO71411
6	40	3	HTO71412
8	32	4	HTO71413
8	36	4	HTO71414
10	24	4	HTO71415
10	32	4	HTO71416
FRACTIONAL			
1/4"	20	4	HTO71430
1/4"	28	4	HTO71431
5/16"	18	4	HTO71432
5/16"	24	4	HTO71433
3/8"	16	4	HTO71434
3/8"	24	4	HTO71435

4 to 1/4", 10 per pack, 5/16" to 1/2", 5 per pack

9/16" to 1", 3 per pack

TAP SIZE	TPI	NO. OF FLUTES	STOCK
FRACTIONAL			
7/16"	14	4	HTO71436
7/16"	20	4	HTO71437
1/2"	13	4	HTO71438
1/2"	20	4	HTO71439
9/16"	12	4	HTO71440
9/16"	18	4	HTO71441
5/8"	11	4	HTO71442
5/8"	18	4	HTO71443
3/4"	10	4	HTO71446
3/4"	16	4	HTO71447
7/8"	9	4	HTO71448
7/8"	14	4	HTO71449
1"	8	4	HTO71450
1"	12	4	HTO71451
1"	14	4	HTO71452

Hand Taps - Eight Pitch

High-Speed Steel Ground Thread



Features:

- Special eight thread taps feature eight threads per inch.
- Engineered specifically for liquid transmission equipment found in oil fields.

FRACTIONAL

TAP SIZE X PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #		
			TAPER	PLUG	BOTTOM
1-1/8"	8	4	HTSPT71419	HTSPP71419	HTSPB71419
1-1/4"	8	4	HTSPT71435	HTSPP71435	HTSPB71435
1-3/8"	8	4	HTSPT71450	HTSPP71450	HTSPB71450
1-1/2"	8	6	HTSPT71461	HTSPP71461	HTSPB71461
1-5/8"	8	6	HTSPT71474	HTSPP71474	HTSPB71474
1-3/4"	8	6	HTSPT71485	HTSPP71485	HTSPB71485
1-7/8"	8	6	HTSPT71494	HTSPP71494	HTSPB71494
2"	8	6	HTSPT71503	HTSPP71503	HTSPB71503
2-1/8"	8	6	HTSPT71510	HTSPP71510	HTSPB71510
2-1/4"	8	6	HTSPT71513	HTSPP71513	HTSPB71513
2-3/8"	8	6	HTSPT71518	HTSPP71518	HTSPB71518
2-1/2"	8	8	HTSPT71523	HTSPP71523	HTSPB71523
2-5/8"	8	8	HTSPT71527	HTSPP71527	HTSPB71527
2-3/4"	8	8	HTSPT71530	HTSPP71530	HTSPB71530
2-7/8"	8	8	HTSPT71533	HTSPP71533	HTSPB71533
3"	8	8	HTSPT71536	HTSPP71536	HTSPB71536
3-1/4"	8	8	HTSPT71540	HTSPP71540	HTSPB71540
3-1/2"	8	8	HTSPT71543	HTSPP71543	HTSPB71543
3-3/4"	8	8	HTSPT71545	HTSPP71545	HTSPB71545
4"	8	8	HTSPT71547	HTSPP71547	HTSPB71547

1 per pack

Left Hand Taps



High-Speed Steel Ground Thread

Features:

- Specifically designed to cut threads with left hand rotation.
- Precision ground for a wide variety of applications.



PLUG CHAMFER

Expanded

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #		
				TAPER	PLUG	BOTTOM
MACHINE SCREW SIZES						
6	32	3	H3	HTLT71111	HTLP71111	HTLB71111
8	32	4	H3	HTLT71113	HTLP71113	HTLB71113
10	24	4	H3	HTLT71115	HTLP71115	HTLB71115
10	32	4	H3	HTLT71116	HTLP71116	HTLB71116

FRACTIONAL

1/4"	20	4	H3	HTLT71120	HTLP71120	HTLB71120
1/4"	28	4	H3	HTLT71121	HTLP71121	HTLB71121
5/16"	18	4	H3	HTLT71122	HTLP71122	HTLB71122
5/16"	24	4	H3	HTLT71123	HTLP71123	HTLB71123
3/8"	16	4	H3	HTLT71124	HTLP71124	HTLB71124
3/8"	24	4	H3	HTLT71125	HTLP71125	HTLB71125
7/16"	14	4	H3	HTLT71126	HTLP71126	HTLB71126
7/16"	20	4	H3	HTLT71127	HTLP71127	HTLB71127
1/2"	13	4	H3	HTLT71128	HTLP71128	HTLB71128
1/2"	20	4	H3	HTLT71129	HTLP71129	HTLB71129
9/16"	12	4	H3	HTLT71130	HTLP71130	HTLB71130
9/16"	18	4	H3	HTLT71131	HTLP71131	HTLB71131
5/8"	11	4	H3	HTLT71132	HTLP71132	HTLB71132
5/8"	18	4	H3	HTLT71133	HTLP71133	HTLB71133
3/4"	10	4	H3	HTLT71134	HTLP71134	HTLB71134
3/4"	16	4	H3	HTLT71135	HTLP71135	HTLB71135
7/8"	9	4	H4	HTLT71136	HTLP71136	HTLB71136
7/8"	14	4	H4	HTLT71137	HTLP71137	HTLB71137
1"	8	4	H4	HTLT71138	HTLP71138	HTLB71138
1"	12	4	H4	HTLT71139	HTLP71139	HTLB71139
1"	14	4	H4	HTLT71140	HTLP71140	HTLB71140
1-1/8"	7	4	H4	HTLT71141	HTLP71141	HTLB71141
1-1/8"	12	4	H4	HTLT71142	HTLP71142	HTLB71142
1-1/4"	7	4	H4	HTLT71143	HTLP71143	HTLB71143
1-1/4"	12	6	H4	HTLT71144	HTLP71144	HTLB71144
1-3/8"	6	4	H4	HTLT71145	HTLP71145	HTLB71145
1-3/8"	12	6	H4	HTLT71146	HTLP71146	HTLB71146
1-1/2"	6	4	H4	HTLT71147	HTLP71147	HTLB71147
1-1/2"	12	6	H4	HTLT71148	HTLP71148	HTLB71148

6 to 1/4", 10 per pack
5/16" to 1/2", 5 per pack

9/16" to 1", 3 per pack
1-1/8" to 1-1/2", 1 per pack

*Please note stock numbers HSHTL71111 to HSHTL71147 from catalog 03G have been revised.

All taps available TiN coated. Details on request.

Metric Left Hand Taps

High-Speed Steel Ground Thread

Features:

- Specifically designed to cut threads with left hand rotation.
- Precision ground for a wide variety of applications.



PLUG CHAMFER

NEW!

TAP SIZE	PITCH	CLASS OF FIT	NO. OF FLUTES	GRIND LIMITS	STOCK #
METRIC					
3.5	0.60	6H	3	D4	HTLM81111
4	0.70	6H	4	D4	HTLM81113
4.5	0.75	6H	4	D4	HTLM81115
5	0.80	6H	4	D4	HTLM81116
6	1.00	6H	4	D5	HTLM81120
7	1.00	6H	4	D5	HTLM81123
8	1.25	6H	4	D5	HTLM81124
8	1.00	6H	4	D5	HTLM81125
10	1.50	6H	4	D6	HTLM81127
10	1.25	6H	4	D5	HTLM81128
12	1.75	6H	4	D6	HTLM81131
12	1.25	6H	4	D5	HTLM81133
14	2.00	6H	4	D7	HTLM81134
14	1.50	6H	4	D6	HTLM81135
16	2.00	6H	4	D7	HTLM81137
16	1.50	6H	4	D6	HTLM81138
18	2.50	6H	4	D7	HTLM81139
18	1.50	6H	4	D6	HTLM81142
20	2.50	6H	4	D7	HTLM81143
20	1.50	6H	4	D6	HTLM81144
22	2.50	6H	4	D7	HTLM81147
22	1.50	6H	4	D6	HTLM81148
24	3.00	6H	4	D8	HTLM81149
24	2.00	6H	4	D7	HTLM81150

3mm to 6mm, 10 per pack, 7mm to 12mm, 5 per pack
14mm to 24mm, 3 per pack

Tap Bits

High-Speed Steel 1/4" Power Shank



Use with Hex Shank Driving Tool
or Ratchet Handle Wrench.

MACHINE SCREW & FRACTIONAL SIZES

TAP SIZE x TPI	NC/NF	OAL	STOCK #
6-32	NC	1-5/8"	HST70321
8-32	NC	1-5/8"	HST70322
10-24	NC	1-5/8"	HST70323
1/4"-20	NC	1-5/8"	HST70324
5/16"-18	NC	1-5/8"	HST70325
3/8"-16	NC	1-5/8"	HST70326
6-40	NF	1-5/8"	HST70341
8-36	NF	1-5/8"	HST70342
10-32	NF	1-5/8"	HST70343
1/4"-28	NF	1-5/8"	HST70344
5/16"-24	NF	1-5/8"	HST70345
3/8"-24	NF	1-5/8"	HST70346

1 per pack

METRIC

TAP SIZE x TPI	OAL	STOCK #
4-0.70	1-5/8"	HST70351
5-0.80	1-5/8"	HST70352
6-1.00	1-5/8"	HST70353
8-1.25	1-5/8"	HST70354
10-1.25	1-5/8"	HST70355

1 per pack

Spiral Pointed Taps

High-Speed Steel, Ground Thread Right Hand Spiral, Bright Finish

Features:

- Specially designed for tapping deep through or blind holes where chips may collect at the bottom of the hole.
- Prevents clogging by forcing chips ahead of tap.
- Suitable for tapping most materials, especially those with high ductility.
- Also known as "gun taps" as chips are shot forward.



PLUG CHAMFER

Expanded

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #	
				ALFA USA	ECO PRO

MACHINE SCREW SIZES

0	80	2	H1	SPT170100	SPT270100
1	64	2	H1	SPT170101	SPT270101
1	72	2	H1	SPT170102	SPT270102
2	56	2	H2	SPT170103	SPT270103
2	64	2	H2	SPT170104	SPT270104
3	48	2	H2	SPT170105	SPT270105
3	56	2	H2	SPT170106	SPT270106
4	40	2	H2	SPT170107	SPT270107
4	48	2	H2	SPT170108	SPT270108
4	*36	2	H2	SPT170108A	SPT270108A
5	40	2	H2	SPT170109	SPT270109
5	44	2	H2	SPT170110	SPT270110
6	32	2	H3	SPT170111	SPT270111
6	40	2	H2	SPT170112	SPT270112
8	32	2	H3	SPT170113	SPT270113
8	36	2	H2	SPT170114	SPT270114
10	24	2	H3	SPT170115	SPT270115
10	32	2	H3	SPT170116	SPT270116
12	24	2	H3	SPT170117	SPT270117
12	28	2	H3	SPT170118	SPT270118

FRACTIONAL

1/4"	20	2	H3	SPT170128	SPT270128
1/4"	28	2	H3	SPT170129	SPT270129
5/16"	18	2	H3	SPT170130	SPT270130
5/16"	24	2	H3	SPT170131	SPT270131
3/8"	16	3	H3	SPT170132	SPT270132
3/8"	24	3	H3	SPT170133	SPT270133
7/16"	14	3	H3	SPT170134	SPT270134
7/16"	20	3	H3	SPT170135	SPT270135
1/2"	13	3	H3	SPT170136	SPT270136
1/2"	20	3	H3	SPT170137	SPT270137
9/16"	12	3	H3	SPT170138	SPT270138
9/16"	18	3	H3	SPT170139	SPT270139
5/8"	11	3	H3	SPT170140	SPT270140
5/8"	18	3	H3	SPT170141	SPT270141
3/4"	10	3	H3	SPT170142	SPT270142
3/4"	16	3	H3	SPT170143	SPT270143
7/8"	9	3	H4	SPT170144	SPT270144
7/8"	14	3	H4	SPT170145	SPT270145
1"	8	3	H4	SPT170146	SPT270146
1"	12	3	H4	SPT170147	SPT270147
1"	*14	3	H4	SPT170148	SPT270148

0 to 1/4", 12 per pack, 5/16" to 1/2", 6 per pack,
9/16" to 3/4", 3 per pack, 7/8" to 1", 1 per pack

Spiral Pointed Taps - Black Oxide

High-Speed Steel, Ground Thread Right Hand Spiral

MADE IN
U. S. A.

Features:

- Specially designed for tapping deep through or blind holes where chips may collect at the bottom of the hole.
- For use in Oil Field, Pipe Line and Heat Exchanger Applications.
- Prevents clogging by forcing chips ahead of tap.
- Suitable for tapping most materials, especially those with high ductility.
- Also known as "gun taps" as chips are shot forward.

**Black oxide surface treatment
provides extra lubricity, increases
wear resistance and extends tool life.**

NOT RECOMMENDED FOR NON-FERROUS MATERIALS.



PLUG CHAMFER

Expanded

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #	
				ALFA USA	

MACHINE SCREW SIZES

0	80	2	H1	SPTB170100	
1	64	2	H1	SPTB170101	
1	72	2	H1	SPTB170102	
2	56	2	H2	SPTB170103	
2	64	2	H2	SPTB170104	
3	48	2	H2	SPTB170105	
3	56	2	H2	SPTB170106	
4	40	2	H2	SPTB170107	
4	48	2	H2	SPTB170108	
4	*36	2	H2	SPTB170108A	
5	40	2	H2	SPTB170109	
5	44	2	H2	SPTB170110	
6	32	2	H3	SPTB170111	
6	40	2	H2	SPTB170112	
8	32	2	H3	SPTB170113	
8	36	2	H2	SPTB170114	
10	24	2	H3	SPTB170115	
10	32	2	H3	SPTB170116	
12	24	2	H3	SPTB170117	
12	28	2	H3	SPTB170118	

FRACTIONAL

1/4"	20	2	H3	SPTB170128	
1/4"	28	2	H3	SPTB170129	
5/16"	18	2	H3	SPTB170130	
5/16"	24	2	H3	SPTB170131	
3/8"	16	3	H3	SPTB170132	
3/8"	24	3	H3	SPTB170133	
7/16"	14	3	H3	SPTB170134	
7/16"	20	3	H3	SPTB170135	
1/2"	13	3	H3	SPTB170136	
1/2"	20	3	H3	SPTB170137	
9/16"	12	3	H3	SPTB170138	
9/16"	18	3	H3	SPTB170139	
5/8"	11	3	H3	SPTB170140	
5/8"	18	3	H3	SPTB170141	
3/4"	10	3	H3	SPTB170142	
3/4"	16	3	H3	SPTB170143	
7/8"	9	3	H4	SPTB170144	
7/8"	14	3	H4	SPTB170145	
1"	8	3	H4	SPTB170146	
1"	12	3	H4	SPTB170147	
1"	*14	3	H4	SPTB170148	

0 to 1/4", 12 per pack, 5/16" to 1/2", 6 per pack,
9/16" to 3/4", 3 per pack

*UNS

MADE IN
U. S. A.

• ALFA USA taps are made
in the United States.

ECO PRO®

• ECO PRO taps are
made in Europe.

Spiral Pointed Taps - Cont.

High-Speed Steel, Ground Thread Right Hand Spiral

METRIC SPIRAL POINTED TAPS

Features:

- Specially designed for tapping deep through or blind holes where chips may collect at the bottom of the hole.
- Prevents clogging by forcing chips ahead of tap.
- Suitable for tapping most materials, especially those with high ductility.
- Also known as "gun taps" as chips are shot forward.



PLUG CHAMFER

TAP SIZE	PITCH	D LIMIT	NO. OF FLUTES	THREAD LENGTH	STOCK #	
					ALFA USA	ECO PRO
1.6	0.35	3	2	5/16	SPTM170151	SPTM270151
1.8	0.35	3	2	3/8	SPTM170152	SPTM270152
2	0.40	3	2	7/16	SPTM170153	SPTM270153
2.2	0.45	3	2	7/16	SPTM170154	SPTM270154
2.5	0.45	3	2	1/2	SPTM170155	SPTM270155
3	0.50	3	2	5/8	SPTM170156	SPTM270156
3.5	0.60	4	2	11/16	SPTM170157	SPTM270157
4	0.70	4	2	3/4	SPTM170158	SPTM270158
4.5	0.75	4	2	7/8	SPTM170159	SPTM270159
5	0.80	4	2	7/8	SPTM170160	SPTM270160
6	1.00	5	2	1	SPTM170161	SPTM270161
6.3	1.00	5	2	1	-	SPTM270162
7	1.00	5	2	1-1/8	SPTM170163	SPTM270163
8	1.25	5	2	1-1/8	SPTM170164	SPTM270164
8	1.00	5	2	1-1/8	SPTM170165	SPTM270165
10	1.50	6	3	1-1/4	SPTM170166	SPTM270166
10	1.25	5	3	1-1/4	SPTM170167	SPTM270167
12	1.75	6	3	1-21/32	SPTM170168	SPTM270168
12	1.25	5	3	1-21/32	SPTM170169	SPTM270169
14	2.00	7	3	1-21/32	SPTM170170	SPTM270170
14	1.50	6	3	1-21/32	SPTM170171	SPTM270171
16	2.00	7	3	1-13/16	SPTM170172	SPTM270172
16	1.50	6	3	1-13/16	SPTM170173	SPTM270173
18	2.50	7	4	1-13/16	SPTM170174	SPTM270174
20	2.50	7	3	2	SPTM170175	SPTM270175
20	2.50	6	4	2	-	SPTM270176

1.6mm to 6mm, 12 per pack,
7mm to 12mm, 6 per pack, 14mm to 20mm, 3 per pack



• ALFA USA taps are made in the United States.



• ECO PRO taps are made in Europe.

SPIRAL POINTED TAPS + .005 OVERSIZE



- Features:**
- Produces threads with a pitch diameter .005 larger than basic pitch diameter.
 - Used on parts to be plated or heat treated after tapping, or where loss of size is anticipated.



PLUG CHAMFER

TAP SIZE	TPI	NO. OF FLUTES	STOCK #
MACHINE SCREW SIZES			
6	32	2	SPTO71511
8	32	2	SPTO71513
10	24	2	SPTO71515
10	32	2	SPTO71516
FRACTIONAL			
1/4"	20	2	SPTO71528
1/4"	28	2	SPTO71529
5/16"	18	2	SPTO71530
5/16"	24	2	SPTO71531
3/8"	16	3	SPTO71532
3/8"	24	3	SPTO71533
7/16"	14	3	SPTO71534
1/2"	13	3	SPTO71536
1/2"	20	3	SPTO71537

5 per pack

SPIRAL POINTED TAPS TITANIUM NITRIDE COATED



- Features:**
- Titanium Nitride coating provides greater surface hardness and lubricity to promote longer tap life.
 - Provides higher tapping speeds.



PLUG CHAMFER

Expanded

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
				ALFA USA
MACHINE SCREW SIZES				
4	40	2	H2	SPT170107TN
6	32	2	H3	SPT170111TN
8	32	2	H3	SPT170113TN
10	24	2	H3	SPT170115TN
10	32	2	H3	SPT170116TN
12	24	2	H3	SPT170117TN
FRACTIONAL				
1/4"	20	2	H3	SPT170128TN
1/4"	28	2	H3	SPT170129TN
5/16"	18	2	H3	SPT170130TN
5/16"	24	2	H3	SPT170131TN
3/8"	16	3	H3	SPT170132TN
3/8"	24	3	H3	SPT170133TN
7/16"	14	3	H3	SPT170134TN
7/16"	20	3	H3	SPT170135TN
1/2"	13	3	H3	SPT170136TN
1/2"	20	3	H3	SPT170137TN
5/8"	11	3	H3	SPT170140TN
5/8"	18	3	H3	SPT170141TN
3/4"	10	3	H3	SPT170142TN
3/4"	16	3	H3	SPT170143TN

1 per pack

Spiral Fluted Taps

High-Speed Steel Ground Thread

Fast Spiral

Features:

- Spiral fluted taps draw chips out of a tapped hole, thereby preventing clogging and recutting of chips.
- Will bridge a keyway or other slot inside a hole without binding.
- Can be used for tapping most materials, especially mild steel, aluminum, magnesium, copper and brass in blind holes.

MADE IN
U. S. A.

Chamfer: Plug (3 to 5 threads) Bottoming (1 to 2 threads)



PLUG CHAMFER

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
3	48	2	H2	SFTP170905
3	56	2	H2	SFTP170906
4	40	2	H2	SFTP170907
4	48	2	H2	SFTP170908
5	40	2	H2	SFTP170909
5	44	2	H2	SFTP170910
6	32	2	H3	SFTP170911
6	40	2	H2	SFTP170912
8	32	2-3	H3	SFTP170913
8	36	2-3	H3	SFTP170914
10	24	2-3	H3	SFTP170915
10	32	2-3	H3	SFTP170916
12	24	2-3	H3	SFTP170917
12	28	2-3	H3	SFTP170918

FRACTIONAL

1/4"	20	2-3	H3	SFTP170930
1/4"	28	2-3	H3	SFTP170931
5/16"	18	3	H3	SFTP170932
5/16"	24	3	H3	SFTP170933
3/8"	16	3	H3	SFTP170934
3/8"	24	3	H3	SFTP170935
7/16"	14	3-4	H3	SFTP170936
7/16"	20	3-4	H3	SFTP170937
1/2"	13	3-4	H3	SFTP170938
1/2"	20	3-4	H3	SFTP170939
9/16"	12	3-4	H3	SFTP170940
9/16"	18	3-4	H3	SFTP170941
5/8"	11	3-4	H3	SFTP170942
5/8"	18	3-4	H3	SFTP170943
3/4"	10	4	H3	SFTP170946
3/4"	16	4	H3	SFTP170947

3 to 1/4", 12 per pack, 5/16" to 1/2", 6 per pack
9/16" to 3/4", 3 per pack

BOTTOMING CHAMFER

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
3	48	2	H2	SFTB170905
3	56	2	H2	SFTB170906
4	40	2	H2	SFTB170907
4	48	2	H2	SFTB170908
5	40	2	H2	SFTB170909
5	44	2	H2	SFTB170910
6	32	2	H3	SFTB170911
6	40	2	H2	SFTB170912
8	32	2-3	H3	SFTB170913
8	36	2-3	H3	SFTB170914
10	24	2-3	H3	SFTB170915
10	32	2-3	H3	SFTB170916
12	24	2-3	H3	SFTB170917
12	28	2-3	H3	SFTB170918
FRACTIONAL				
1/4"	20	2-3	H3	SFTB170930
1/4"	28	2-3	H3	SFTB170931
5/16"	18	3	H3	SFTB170932
5/16"	24	3	H3	SFTB170933
3/8"	16	3	H3	SFTB170934
3/8"	24	3	H3	SFTB170935
7/16"	14	3-4	H3	SFTB170936
7/16"	20	3-4	H3	SFTB170937
1/2"	13	3-4	H3	SFTB170938
1/2"	20	3-4	H3	SFTB170939
9/16"	12	3-4	H3	SFTB170940
9/16"	18	3-4	H3	SFTB170941
5/8"	11	3-4	H3	SFTB170942
5/8"	18	3-4	H3	SFTB170943
3/4"	10	4	H3	SFTB170946
3/4"	16	4	H3	SFTB170947

3 to 1/4", 12 per pack, 5/16" to 1/2", 6 per pack
9/16" to 3/4", 3 per pack

Thread Forming Taps

High-Speed Steel Ground Thread



**For internal
threading in
ductile materials**

Features:

- Very effective in ductile materials such as aluminum, brass, stainless steel, copper, zinc, cast steel and alloy steel materials.



PLUG CHAMFER BOTTOMING CHAMFER

TAP SIZE	TPI	GRIND LIMITS	CLASS OF FIT	STOCK #	
				PLUG	BOTTOM
MACHINE SCREW SIZES					
0	80	H3	2B	-	TFB81700
1	64	H3	3B	-	TFB81701
1	72	H3	3B	-	TFB81702
2	56	H3	3B	-	TFB81703
2	64	H3	3B	-	TFB81704
3	48	H3	3B	-	TFB81705
3	56	H3	3B	-	TFB81706
4	40	H3	3B	TFP71707	TFB81707
4	48	H3	3B	TFP71708	TFB81708
5	40	H4	3B	TFP71709	TFB81709
5	44	H3	3B	TFP71710	TFB81710
6	32	H4	3B	TFP71711	TFB81711
6	40	H4	3B	TFP71712	TFB81712
8	32	H4	3B	TFP71713	TFB81713
8	36	H4	3B	TFP71714	TFB81714
10	24	H5	2B	TFP71715	TFB81715
10	32	H5	2B	TFP71716	TFB81716
12	24	H4	3B	TFP71717	TFB81717
12	28	H4	3B	TFP71718	TFB81718
FRACTIONAL					
1/4"	20	H6	2B	TFP71719	TFB81719
1/4"	28	H5	2B	TFP71720	TFB81720
5/16"	18	H6	2B	TFP71721	TFB81721
5/16"	24	H6	2B	TFP71722	TFB81722
3/8"	16	H7	2B	TFP71723	TFB81723
3/8"	24	H6	2B	TFP71724	TFB81724
7/16"	14	H6	3B	TFP71725	TFB81725
7/16"	20	H5	3B	TFP71726	TFB81726
1/2"	13	H8	2B	TFP71727	TFB81727
1/2"	20	H5	3B	TFP71728	TFB81728
9/16"	12	H6	3B	TFP71729	TFB81729
9/16"	18	H5	3B	TFP71730	TFB81730
5/8"	11	H8	2B	TFP71731	TFB81731
5/8"	18	H6	3B	TFP71732	TFB81732
3/4"	10	H8	2B	TFP71733	TFB81733
3/4"	16	H6	3B	TFP71734	TFB81734

1 per pack

Nut Taps

High-Speed Steel Ground Thread



Features:

- Nut taps have long thread length, long chamfers & longer shanks.
- Long chamfers assist in centering the hole.
- May also be used to reach holes that would not be accessible with regular length taps.



Pulley Taps

High-Speed Steel Ground Thread



Features:

- Specially designed to tap the set screw thread in pulley hubs.
- Also used as extension taps in many applications.
- Available in 6", 8", 10" & 12" overall lengths.



PLUG CHAMFER

TAP SIZE	TPI	OVERALL LENGTH	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES					
6	32	6	3	3	HSPUT70201
8	32	6	4	3	HSPUT70202
10	24	6	4	3	HSPUT70203
10	32	6	4	3	HSPUT70204
FRACTIONAL					
1/4"	20	6	4	3	HSPUT70205
1/4"	28	6	4	3	HSPUT70206
5/16"	18	6	4	3	HSPUT70207
5/16"	24	6	4	3	HSPUT70208
3/8"	16	6	4	3	HSPUT70209
3/8"	24	6	4	3	HSPUT70210
7/16"	14	6	4	3	HSPUT70211
7/16"	20	6	4	3	HSPUT70212
1/2"	13	6	4	3	HSPUT70213
1/2"	20	6	4	3	HSPUT70214
5/8"	11	6	4	3	HSPUT70215
5/8"	18	6	4	3	HSPUT70216
1/4"	20	8	4	3	HSPUT70230
1/4"	28	8	4	3	HSPUT70231
5/16"	18	8	4	3	HSPUT70232
5/16"	24	8	4	3	HSPUT70233
3/8"	16	8	4	3	HSPUT70234
3/8"	24	8	4	3	HSPUT70235
7/16"	14	8	4	3	HSPUT70236
1/2"	13	8	4	3	HSPUT70238
1/2"	20	8	4	3	HSPUT70239
5/8"	11	8	4	3	HSPUT70240
5/8"	18	8	4	3	HSPUT70241
3/4"	10	8	4	3	HSPUT70242
1"	8	8	4	3	HSPUT70243
3/8"	16	10	4	3	HSPUT70250
1/2"	13	10	4	3	HSPUT70254
5/8"	11	10	4	3	HSPUT70256
5/8"	18	10	4	3	HSPUT70257
3/4"	10	10	4	3	HSPUT70258
3/4"	16	10	4	3	HSPUT70259
1"	8	10	4	3	HSPUT70260
1/2"	13	12	4	4	HSPUT70270
5/8"	11	12	4	4	HSPUT70272
5/8"	18	12	4	4	HSPUT70273
3/4"	10	12	4	4	HSPUT70274
1"	8	12	4	4	HSPUT70276

1 per pack

NEW!

TAP SIZE	TPI	GRIND LIMITS	NO. OF FLUTES	THREAD LENGTH	OVERALL LENGTH	STOCK #
1/4"	20	H3	4	1-5/8"	5	NT30230
5/16"	18	H3	4	1-13/16"	5-1/2	NT30232
3/8"	16	H3	4	2"	6	NT30234
1/2"	13	H3	4	2-1/2"	7	NT30238

1 per pack

Pipe Taps

High-Speed Steel Ground Thread



TAPER PIPE TAPS, NPT

- Features:**
- Used for tapping pipe and pipe fittings.
 - Designed to produce threads where mated parts are not required to withstand high fluid and gas pressures, and where the use of a sealing compound or tape may be used to produce leakproof threads.

ALFA USA ECO PRO

TAP SIZE (PIPE)	TPI	THREAD LENGTH	NO. OF FLUTES	STOCK #	
				ALFA USA	ECO PRO
1/16"	27	11/16"	4	HSNPT170301	HSNPT270301
1/8"	27	3/4"	4	HSNPT170302	HSNPT270302
1/4"	18	1-1/16"	4	HSNPT170303	HSNPT270303
3/8"	18	1-1/16"	4	HSNPT170304	HSNPT270304
1/2"	14	1-3/8"	4	HSNPT170305	HSNPT270305
3/4"	14	1-3/8"	5	HSNPT170306	HSNPT270306
1"	11-1/2	1-3/4"	5	HSNPT170307	HSNPT270307
1-1/4"	11-1/2	1-3/4"	5	HSNPT170308	HSNPT270308
1-1/2"	11-1/2	1-3/4"	7	HSNPT170309	HSNPT270309
2"	11-1/2	1-3/4"	7	HSNPT170310	HSNPT270310
2-1/2"	8	2-9/16"	8	—	HSNPT270311
3"	8	2-5/8"	8	—	HSNPT270312
3-1/2"	8	2-11/16"	8	—	HSNPT270313
4"	8	2-3/4"	8	—	HSNPT270314

1 per pack



TAPER PIPE TAPS, NPTF (Dry Seal)

- Features:**
- Dry Seal Taps are used to tap fittings which give a pressure tight joint without the use of a sealer.
 - Used where sealing compounds may fail due to high heat or high fluid and gas pressures.
 - Suitable for carbon steels, leaded steels and die-cast parts.

ALFA USA ECO PRO

TAP SIZE	TPI	THREAD LENGTH	NO. OF FLUTES	STOCK #	
				ALFA USA	ECO PRO
1/16"	27	11/16"	4	HSNPT180321	HSNPT280321
1/8"	27	3/4"	4	HSNPT180322	HSNPT280322
1/4"	18	1-1/16"	4	HSNPT180323	HSNPT280323
3/8"	18	1-1/16"	4	HSNPT180324	HSNPT280324
1/2"	14	1-3/8"	4	HSNPT180325	HSNPT280325
3/4"	14	1-3/8"	5	HSNPT180326	HSNPT280326
1"	11-1/2	1-3/4"	5	HSNPT180327	HSNPT280327
1-1/4"	11-1/2	1-3/4"	5	HSNPT180328	HSNPT280328

1 per pack

Pipe Taps

B



TAPER PIPE TAPS, INTERRUPTED

- Features:**
- Suitable for threading both ferrous and nonferrous materials where chip disposal is a problem.
 - The interrupted threads reduce drag while taper pipe threading.
 - These pipe taps are standard, having an odd number of flutes.

ALFA USA ECO PRO

TAP SIZE	TPI	NO. OF FLUTES	OVERALL LENGTH	LENGTH OF THREAD	STOCK #	
					ALFA USA	ECO PRO
1/16"	27	5	2-1/8"	11/16"	HSNPT76701	HSNPT26701
1/8"	27	5	2-1/8"	3/4"	HSNPT76702	HSNPT26702
1/4"	18	5	2-7/16"	1-1/16"	HSNPT76703	HSNPT26703
3/8"	18	5	2-9/16"	1-1/16"	HSNPT76704	HSNPT26704
1/2"	14	5	3-1/8"	1-3/8"	HSNPT76705	HSNPT26705
3/4"	14	5	3-1/4"	1-3/8"	HSNPT76706	HSNPT26706
1"	11-1/2	5	3-3/4"	1-3/4"	HSNPT76707	HSNPT26707
1-1/4"	11-1/2	5	4"	1-3/4"	HSNPT76708	—
1-1/2"	11-1/2	7	4"	1-3/4"	HSNPT76709	—
2"	11-1/2	7	4-1/2"	1-3/4"	HSNPT76710	—

1 per pack



• ALFA USA taps are made in the United States.



• ECO PRO taps are made in Europe.



U.K.



BSP BRITISH STANDARD PIPE TAPS

- Features:**
- Suitable for tapping holes or couplings for low pressure work.
 - A sealant must be used to ensure a pressure-tight joint.

TAP SIZE	TPI	STOCK #	
		BSPP STRAIGHT	BSPT TAPER
1/8"	28	BSPP70452	BSPT70342
1/4"	19	BSPP70453	BSPT70343
3/8"	19	BSPP70454	BSPT70344
1/2"	14	BSPP70455	BSPT70345
3/4"	14	BSPP70456	BSPT70346
1"	11	BSPP70457	BSPT70347
1-1/4"	11	BSPP70458	BSPT70348
1-1/2"	11	BSPP70459	BSPT70349
2"	11	BSPP70460	BSPT70350

1 per pack

Pipe Taps - Cont.

High-Speed Steel



STRAIGHT PIPE TAPS, NPS

- Features:**
- Suitable for tapping holes or couplings for low pressure work.
 - Suitable for assembly with taper threaded pipe or fittings to secure tight joints when sealer is used.

TAP SIZE	TPI	THREAD LENGTH	NO. OF FLUTES	STOCK #
ALFA USA				
1/16"	27	11/16"	4	HSNPS172321
1/8"	27	3/4"	4	HSNPS172323
1/4"	18	1-1/16"	4	HSNPS172324
3/8"	18	1-1/16"	4	HSNPS172325
1/2"	14	1-3/8"	4	HSNPS172326
3/4"	14	1-3/8"	5	HSNPS172327
1"	11-1/2	1-3/4"	5	HSNPS172328
1-1/4"	11-1/2	1-3/4"	5	HSNPS172329
1-1/2"	11-1/2	1-3/4"	7	HSNPS172330
2"	11-1/2	1-3/4"	7	HSNPS172331

1 per pack

MADE IN
U. S. A.

Pipe Reamers

High-Speed Steel



TAPER PIPE REAMERS

Features:

- 3/4" taper per foot.
- For reaming holes to be tapped with taper pipe taps.

NPT SIZE	SMALL DIA.	LARGE DIA.	OVERALL LENGTH	STOCK #
STRAIGHT FLUTE				
1/8"	.316	.362	2-1/8"	HSPR70341
1/4"	.406	.472	2-7/16"	HSPR70342
3/8"	.540	.606	2-9/16"	HSPR70343
1/2"	.665	.751	3-1/8"	HSPR70344
3/4"	.876	.962	3-1/4"	HSPR70345
1"	1.103	1.212	3-3/4"	HSPR70346
1-1/4"	1.444	1.553	4"	HSPR70347
1-1/2"	1.684	1.793	4-1/4"	HSPR70348
2"	2.159	2.268	4-1/2"	HSPR70349
SPIRAL FLUTE				
1/8"	.316	.362	2-1/8"	HSPR70351
1/4"	.406	.472	2-7/16"	HSPR70352
3/8"	.540	.606	2-9/16"	HSPR70353
1/2"	.665	.751	3-1/8"	HSPR70354
3/4"	.876	.962	3-1/4"	HSPR70355
1"	1.103	1.212	3-3/4"	HSPR70356
1-1/4"	1.444	1.553	4"	HSPR70357
1-1/2"	1.684	1.793	4-1/4"	HSPR70358
2"	2.159	2.268	4-1/2"	HSPR70359

1 per pack

Rethreading Taps

Carbon Steel

- Restores internal threads without undercutting.

MADE IN
U. S. A.

THREAD SIZE	STOCK #
1/4" - 20	RTT70761
1/4" - 28	RTT70762
5/16" - 18	RTT70763
5/16" - 24	RTT70764
3/8" - 16	RTT70765
3/8" - 24	RTT70766
7/16" - 14	RTT70767
7/16" - 20	RTT70768
1/2" - 13	RTT70769
1/2" - 20	RTT70770
9/16" - 12	RTT70771
9/16" - 18	RTT70772

1 per pack



RETHREADING TAP SET

NO. OF PIECES	DESCRIPTION	STOCK #
4 pc.	1 each sizes: 1/4" - 20; 5/16" - 18; 3/8" - 16; 1/2" - 13	RTT70775

1 per pack

Acme Taps

High-Speed Steel Ground Thread



Tandem Style, Single Pass

Features:

- Combines roughing and finishing operations in one pass for more economical production runs.
- No leadscrew required.
- Thread pitches are generally coarse relative to the diameter.

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/2" - 10	2-9/16"	5"	AT66571
5/8" - 8	3-3/16"	6-1/4"	AT66572
3/4" - 6	4-5/16"	7-15/16"	AT66573
7/8" - 6	4-3/8"	8-5/8"	AT66574
1" - 5	5-1/4"	10-1/8"	AT66575
1-3/8" - 4	5-7/8"	12-1/4"	AT66578
1-1/2" - 4	5-7/8"	12-5/8"	AT66579

1 per pack





Round Adjustable Dies

High-Speed Steel Standard Thread

- Used for cutting external right hand threads.
- Ideal for precision threading with die adjustment made by set screws.
- Adjustment dies allow the user to under or over cut their threads.
- For threading where a high-speed steel round adjustable die is desired for improved wear life.



Expanded

Round Adjustable Dies

B

TAP SIZE	TPI NC, NF, NS	STOCK #						
		13/16" O.D.	1" O.D.	1-1/2" O.D.	2" O.D.	2-1/2" O.D.	3" O.D.	4" O.D.
MACHINE SCREW SIZES								
0	80	HSRD90391	-	-	-	-	-	-
1	64	HSRD90392	-	-	-	-	-	-
1	72	HSRD90393	-	-	-	-	-	-
2	56	HSRD90394	-	-	-	-	-	-
2	64	HSRD90395	-	-	-	-	-	-
3	48	HSRD90396	-	-	-	-	-	-
3	56	HSRD90397	-	-	-	-	-	-
4	40	HSRD90398	HSRD90414	-	-	-	-	-
4	48	HSRD90399	HSRD90415	-	-	-	-	-
5	40	HSRD90400	HSRD90416	-	-	-	-	-
5	44	HSRD90401	-	-	-	-	-	-
6	32	HSRD90402	HSRD90417	-	-	-	-	-
6	40	HSRD90403	HSRD90418	-	-	-	-	-
8	32	HSRD90404	HSRD90419	-	-	-	-	-
8	36	HSRD90405	HSRD90420	-	-	-	-	-
10	24	HSRD90406	HSRD90421	-	-	-	-	-
10	32	HSRD90407	HSRD90422	-	-	-	-	-
12	24	HSRD90408	HSRD90423	-	-	-	-	-
12	28	HSRD90409	HSRD90424	-	-	-	-	-
FRACTIONAL								
1/4"	20	HSRD90410	HSRD90425	HSRD90435	HSRD90453	-	-	-
1/4"	28	HSRD90411	HSRD90426	HSRD90436	HSRD90454	-	-	-
5/16"	18	HSRD90412	HSRD90427	HSRD90437	HSRD90455	-	-	-
5/16"	24	HSRD90413	HSRD90428	HSRD90438	HSRD90456	-	-	-
3/8"	16	-	HSRD90429	HSRD90439	HSRD90457	-	-	-
3/8"	24	-	HSRD90430	HSRD90440	HSRD90458	-	-	-
7/16"	14	-	HSRD90431	HSRD90441	HSRD90459	-	-	-
7/16"	20	-	HSRD90432	HSRD90442	HSRD90460	-	-	-
1/2"	13	-	HSRD90433	HSRD90443	HSRD90461	-	-	-
1/2"	20	-	HSRD90434	HSRD90444	HSRD90462	-	-	-
9/16"	12	-	-	HSRD90445	HSRD90463	-	-	-
9/16"	18	-	-	HSRD90446	HSRD90464	-	-	-
5/8"	11	-	-	HSRD90447	HSRD90465	-	-	-
5/8"	18	-	-	HSRD90448	HSRD90466	-	-	-
11/16"	11	-	-	HSRD90449	HSRD90467	-	-	-
11/16"	16	-	-	HSRD90450	HSRD90468	-	-	-
3/4"	10	-	-	HSRD90451	HSRD90469	-	-	-
3/4"	16	-	-	HSRD90452	HSRD90470	-	-	-
7/8"	9	-	-	-	HSRD90471	-	-	-
7/8"	14	-	-	-	HSRD90472	-	-	-
1"	8	-	-	-	HSRD90473	-	HSRD90484	-
1"	12	-	-	-	HSRD90474	-	HSRD90485	-
1"	14	-	-	-	HSRD90475	-	HSRD90486	-
1-1/8"	7	-	-	-	-	HSRD90476	HSRD90487	-
1-1/8"	12	-	-	-	-	HSRD90477	HSRD90488	-
1-1/4"	7	-	-	-	-	HSRD90478	HSRD90489	-
1-1/4"	12	-	-	-	-	HSRD90479	HSRD90490	-
1-3/8"	6	-	-	-	-	HSRD90480	HSRD90491	-
1-3/8"	12	-	-	-	-	HSRD90481	HSRD90492	-
1-1/2"	6	-	-	-	-	HSRD90482	HSRD90493	-
1-1/2"	12	-	-	-	-	HSRD90483	HSRD90494	-
1-3/4"	5	-	-	-	-	-	HSRD90495	-
1-3/4"	12	-	-	-	-	-	HSRD90496	-
2"	4-1/2	-	-	-	-	-	HSRD90497	-
2"	12	-	-	-	-	-	HSRD90498	-
NPT SIZES								
1/16"	27	-	HSRD90499	-	-	-	-	-
1/8"	27	-	HSRD90500	HSRD90501	-	-	-	-
1/4"	18	-	-	HSRD90502	HSRD90504	-	-	-
3/8"	18	-	-	HSRD90503	HSRD90505	-	-	-
1/2"	14	-	-	-	HSRD90506	-	-	-
3/4"	14	-	-	-	HSRD90507	-	-	-
1"	11-1/2	-	-	-	-	HSRD90508	-	-
1-1/4"	11-1/2	-	-	-	-	-	HSRD90509	-
1-1/2"	11-1/2	-	-	-	-	-	HSRD90510	HSRD90511
2"	11-1/2	-	-	-	-	-	-	HSRD90512

1 per pack

Note: Stock numbers have been changed from previous publication.



Round Adjustable Dies - Metric

High-Speed Steel Standard Thread



Expanded

METRIC SIZES

TAP SIZE	TPI NC, NF, NS	STOCK #					
		13/16" O.D.	1" O.D.	1-1/2" O.D.	2" O.D.	2-1/2" O.D.	3" O.D.
1	0.25	HSRD90513	-	-	-	-	-
1.6	0.35	HSRD90514	-	-	-	-	-
2	0.40	HSRD90515	HSRD90523	-	-	-	-
2.2	0.45	-	HSRD90524	-	-	-	-
2.3	0.40	-	HSRD90525	-	-	-	-
2.5	0.45	HSRD90516	HSRD90526	-	-	-	-
2.6	0.45	-	HSRD90527	-	-	-	-
3	0.50	HSRD90517	HSRD90528	-	-	-	-
3.5	0.60	HSRD90518	HSRD90529	-	-	-	-
4	0.50	HSRD90519	-	-	-	-	-
4	0.70	HSRD90520	HSRD90530	-	-	-	-
4.5	0.75	-	HSRD90531	-	-	-	-
5	0.80	HSRD90521	HSRD90532	-	-	-	-
6	1.00	HSRD90522	HSRD90533	-	-	-	-
6.3	1.00	-	HSRD90534	-	-	-	-
7	1.00	-	HSRD90535	-	-	-	-
8	1.00	-	HSRD90536	-	-	-	-
8	1.25	-	HSRD90537	-	-	-	-
10	1.25	-	HSRD90538	HSRD90541	-	-	-
10	1.50	-	HSRD90539	HSRD90542	-	-	-
12	1.25	-	-	HSRD90543	-	-	-
12	1.75	-	HSRD90540	HSRD90544	-	-	-
14	1.50	-	-	HSRD90545	-	-	-
14	2.00	-	-	HSRD90546	-	-	-
16	2.00	-	-	HSRD90547	-	-	-
18	1.50	-	-	HSRD90548	-	-	-
18	2.50	-	-	HSRD90549	HSRD90552	-	-
20	1.50	-	-	HSRD90550	HSRD90553	-	-
20	2.50	-	-	HSRD90551	HSRD90554	-	-
22	1.50	-	-	-	HSRD90555	-	-
22	2.50	-	-	-	HSRD90556	-	-
24	2.00	-	-	-	HSRD90557	-	-
24	3.00	-	-	-	HSRD90558	-	-
27	2.00	-	-	-	HSRD90559	-	-
27	3.00	-	-	-	HSRD90560	-	-
30	3.50	-	-	-	HSRD90561	-	-
33	2.00	-	-	-	-	HSRD90562	-
45	4.50	-	-	-	-	-	HSRD90563

1 per pack

Note: Stock numbers have been changed from previous publication.



Round Adj. Dies - Special Thread

High-Speed Steel

- Features:**
- Provides improved wear life.
 - Ideal for precision threading with adjustment of die by set screws.
 - Allows the user to under or over cut threads.



INCH SIZES – MACHINE SCREW & FRACTIONAL

SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #
1" O.D.					1-1/2" O.D.				
4-36	RDSP74710	5/16-30	RDSP74765	1/4-22	RDSP74810	1/2-48	RDSP74865	7/16-18	RDSP75030
4-56	RDSP74711	5/16-32	RDSP74766	1/4-24	RDSP74811	1/2-56	RDSP74866	7/16-24	RDSP75031
4-60	RDSP74712	5/16-36	RDSP74767	1/4-27	RDSP74812	9/16-14	RDSP74867	1/2-12	RDSP75032
4-64	RDSP74713	5/16-40	RDSP74768	1/4-30	RDSP74813	9/16-16	RDSP74868	1/2-16	RDSP75033
5-48	RDSP74714	5/16-48	RDSP74769	1/4-32	RDSP74814	9/16-20	RDSP74869	1/2-18	RDSP75034
5-56	RDSP74715	3/8-14	RDSP74770	1/4-36	RDSP74815	9/16-22	RDSP74870	1/2-24	RDSP75035
5-64	RDSP74716	3/8-18	RDSP74771	1/4-40	RDSP74816	9/16-24	RDSP74871	1/2-27	RDSP75036
6-30	RDSP74717	3/8-20	RDSP74772	1/4-48	RDSP74817	9/16-27	RDSP74872	1/2-28	RDSP75037
6-36	RDSP74718	3/8-22	RDSP74773	5/16-16	RDSP74818	9/16-28	RDSP74873	1/2-30	RDSP75038
6-48	RDSP74719	3/8-26	RDSP74774	5/16-20	RDSP74819	9/16-30	RDSP74874	1/2-32	RDSP75039
6-56	RDSP74720	3/8-27	RDSP74775	5/16-22	RDSP74820	9/16-32	RDSP74875	9/16-14	RDSP75040
8-24	RDSP74721	3/8-28	RDSP74776	5/16-27	RDSP74821	9/16-36	RDSP74876	9/16-20	RDSP75041
8-30	RDSP74722	3/8-30	RDSP74777	5/16-28	RDSP74822	9/16-40	RDSP74877	9/16-24	RDSP75042
8-40	RDSP74723	3/8-32	RDSP74778	5/16-30	RDSP74823	5/8-10	RDSP74878	9/16-27	RDSP75043
8-48	RDSP74724	3/8-36	RDSP74779	5/16-32	RDSP74824	5/8-12	RDSP74879	9/16-28	RDSP75044
8-56	RDSP74725	3/8-40	RDSP74780	5/16-36	RDSP74825	5/8-14	RDSP74880	9/16-30	RDSP75045
10-26	RDSP74726	3/8-48	RDSP74781	5/16-40	RDSP74826	5/8-16	RDSP74881	9/16-32	RDSP75046
10-27	RDSP74727	7/16-16	RDSP74782	5/16-48	RDSP74827	5/8-20	RDSP74882	9/16-36	RDSP75047
10-28	RDSP74728	7/16-18	RDSP74783	3/8-14	RDSP74828	5/8-22	RDSP74883	5/8-10	RDSP75048
10-30	RDSP74729	7/16-24	RDSP74784	3/8-18	RDSP74829	5/8-24	RDSP74884	5/8-12	RDSP75049
10-36	RDSP74730	7/16-27	RDSP74785	3/8-20	RDSP74830	5/8-26	RDSP74885	5/8-14	RDSP75050
10-40	RDSP74731	7/16-28	RDSP74786	3/8-22	RDSP74831	5/8-27	RDSP74886	5/8-16	RDSP75051
10-48	RDSP74732	7/16-30	RDSP74787	3/8-26	RDSP74832	5/8-28	RDSP74887	5/8-20	RDSP75052
10-56	RDSP74733	7/16-32	RDSP74788	3/8-27	RDSP74833	5/8-30	RDSP74888	5/8-24	RDSP75053
12-26	RDSP74734	7/16-36	RDSP74789	3/8-28	RDSP74834	5/8-32	RDSP74889	5/8-27	RDSP75054
12-27	RDSP74735	7/16-40	RDSP74790	3/8-30	RDSP74835	5/8-36	RDSP74890	5/8-28	RDSP75055
12-30	RDSP74736	1/2-12	RDSP74791	3/8-32	RDSP74836	5/8-40	RDSP74891	5/8-30	RDSP75056
12-32	RDSP74737	1/2-14	RDSP74792	3/8-36	RDSP74837	5/8-48	RDSP74892	5/8-32	RDSP75057
12-36	RDSP74738	1/2-16	RDSP74793	3/8-40	RDSP74838	11/16-12	RDSP74893	5/8-40	RDSP75058
12-40	RDSP74739	1/2-18	RDSP74794	3/8-48	RDSP74839	11/16-14	RDSP74894	11/16-12	RDSP75059
12-48	RDSP74740	1/2-22	RDSP74795	7/16-12	RDSP74840	11/16-18	RDSP74895	11/16-14	RDSP75060
12-56	RDSP74741	1/2-24	RDSP74796	7/16-16	RDSP74841	11/16-20	RDSP74896	11/16-18	RDSP75061
14-27	RDSP74742	1/2-27	RDSP74797	7/16-18	RDSP74842	11/16-24	RDSP74897	11/16-20	RDSP75062
14-28	RDSP74743	1/2-28	RDSP74798	7/16-22	RDSP74843	11/16-27	RDSP74898	11/16-24	RDSP75063
14-30	RDSP74744	1/2-30	RDSP74799	7/16-24	RDSP74844	11/16-30	RDSP74899	11/16-27	RDSP75064
14-32	RDSP74745	1/2-32	RDSP74800	7/16-27	RDSP74845	11/16-32	RDSP75000	11/16-32	RDSP75065
14-48	RDSP74746	1/2-36	RDSP74801	7/16-28	RDSP74846	3/4-12	RDSP75001	11/16-36	RDSP75066
1/4-14	RDSP74747	1/2-40	RDSP74802	7/16-30	RDSP74847	3/4-14	RDSP75002	11/16-40	RDSP75067
1/4-16	RDSP74748	1/2-48	RDSP74803	7/16-32	RDSP74848	3/4-18	RDSP75003	3/4-12	RDSP75068
1/4-18	RDSP74749			7/16-36	RDSP74849	3/4-20	RDSP75004	3/4-14	RDSP75069
1/4-22	RDSP74750			7/16-40	RDSP74850	3/4-24	RDSP75005	3/4-18	RDSP75070
1/4-24	RDSP74751			7/16-48	RDSP74851	3/4-27	RDSP75006	3/4-20	RDSP75071
1/4-26	RDSP74752			15/32-32	RDSP74852	3/4-28	RDSP75007	3/4-24	RDSP75072
1/4-27	RDSP74753			1/2-12	RDSP74853	3/4-30	RDSP75008	3/4-27	RDSP75073
1/4-30	RDSP74754			1/2-14	RDSP74854	3/4-32	RDSP75009	3/4-28	RDSP75074
1/4-32	RDSP74755			1/2-16	RDSP74855	3/4-36	RDSP75010	3/4-32	RDSP75075
1/4-36	RDSP74756			1/2-18	RDSP74856	3/4-40	RDSP75011	3/4-36	RDSP75076
1/4-40	RDSP74757			1/2-22	RDSP74857	3/4-48	RDSP75012	3/4-40	RDSP75077
1/4-48	RDSP74758			1/2-24	RDSP74858	13/16-10	RDSP75013	13/16-10	RDSP75078
1/4-56	RDSP74759			1/2-27	RDSP74859	13/16-12	RDSP75014	13/16-12	RDSP75079
5/16-16	RDSP74760			1/2-28	RDSP74860	13/16-16	RDSP75015	13/16-14	RDSP75080
5/16-20	RDSP74761			1/2-30	RDSP74861	13/16-20	RDSP75016	13/16-16	RDSP75081
5/16-22	RDSP74762			1/2-32	RDSP74862	13/16-24	RDSP75017		
5/16-27	RDSP74763			1/2-36	RDSP74863	13/16-28	RDSP75018		
5/16-28	RDSP74764			1/2-40	RDSP74864	13/16-32	RDSP75019		

Continued



Round Adj. Dies - Special Thread - Cont.

High-Speed Steel



INCH SIZES – MACHINE SCREW & FRACTIONAL

SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #
2" O.D.		2-1/2" O.D.		2-1/2" O.D.		3" O.D.		3" O.D.	
13/16-18	RDSP75082	1-10	RDSP75130	1-1/4-24	RDSP75178	1-10	RDSP75230	1-1/2-14	RDSP75282
13/16-20	RDSP75083	1-16	RDSP75131	1-1/4-26	RDSP75179	1-16	RDSP75231	1-1/2-16	RDSP75283
13/16-24	RDSP75084	1-18	RDSP75132	1-1/4-27	RDSP75180	1-18	RDSP75232	1-1/2-18	RDSP75284
13/16-27	RDSP75085	1-20	RDSP75133	1-1/4-28	RDSP75181	1-20	RDSP75233	1-1/2-20	RDSP75285
13/16-30	RDSP75086	1-24	RDSP75134	1-1/4-30	RDSP75182	1-24	RDSP75234	1-1/2-24	RDSP75286
13/16-32	RDSP75087	1-26	RDSP75135	1-1/4-32	RDSP75183	1-1/16-8	RDSP75235	1-9/16-6	RDSP75287
13/16-36	RDSP75088	1-27	RDSP75136	1-1/4-36	RDSP75184	1-1/16-10	RDSP75236	1-9/16-8	RDSP75288
13/16-40	RDSP75089	1-28	RDSP75137	1-1/4-40	RDSP75185	1-1/16-12	RDSP75237	1-9/16-12	RDSP75289
7/8-10	RDSP75090	1-32	RDSP75138	1-5/16-8	RDSP75186	1-1/16-14	RDSP75238	1-9/16-16	RDSP75290
7/8-12	RDSP75091	1-1/16-7	RDSP75139	1-5/16-12	RDSP75187	1-1/16-16	RDSP75239	1-9/16-18	RDSP75291
7/8-16	RDSP75092	1-1/16-8	RDSP75140	1-5/16-14	RDSP75188	1-1/16-18	RDSP75240	1-5/8-5	RDSP75292
7/8-18	RDSP75093	1-1/16-10	RDSP75141	1-5/16-16	RDSP75189	1-1/16-20	RDSP75241	1-5/8-5 1/2	RDSP75293
7/8-20	RDSP75094	1-1/16-12	RDSP75142	1-5/16-18	RDSP75190	1-1/16-24	RDSP75242	1-5/8-6	RDSP75294
7/8-24	RDSP75095	1-1/16-14	RDSP75143	1-5/16-20	RDSP75191	1-1/8-8	RDSP75243	1-5/8-8	RDSP75295
7/8-27	RDSP75096	1-1/16-16	RDSP75144	1-5/16-24	RDSP75192	1-1/8-10	RDSP75244	1-5/8-10	RDSP75296
7/8-28	RDSP75097	1-1/16-18	RDSP75145	1-5/16-27	RDSP75193	1-1/8-14	RDSP75245	1-5/8-12	RDSP75297
7/8-30	RDSP75098	1-1/16-20	RDSP75146	1-5/16-32	RDSP75194	1-1/8-16	RDSP75246	1-5/8-14	RDSP75298
7/8-32	RDSP75099	1-1/16-24	RDSP75147	1-3/8-7	RDSP75195	1-1/8-18	RDSP75247	1-5/8-18	RDSP75299
7/8-36	RDSP75100	1-1/16-28	RDSP75148	1-3/8-8	RDSP75196	1-1/8-20	RDSP75248	1-5/8-20	RDSP75300
7/8-40	RDSP75101	1-1/8-8	RDSP75149	1-3/8-10	RDSP75197	1-1/8-24	RDSP75249	1-11/16-6	RDSP75301
15/16-10	RDSP75102	1-1/8-10	RDSP75150	1-3/8-14	RDSP75198	1-3/16-8	RDSP75250	1-11/16-8	RDSP75302
15/16-12	RDSP75103	1-1/8-14	RDSP75151	1-3/8-16	RDSP75199	1-3/16-12	RDSP75251	1-11/16-12	RDSP75303
15/16-14	RDSP75104	1-1/8-16	RDSP75152	1-3/8-18	RDSP75200	1-3/16-16	RDSP75252	1-11/16-16	RDSP75304
15/16-16	RDSP75105	1-1/8-18	RDSP75153	1-3/8-20	RDSP75201	1-1/4-6	RDSP75253	1-11/16-18	RDSP75305
15/16-18	RDSP75106	1-1/8-20	RDSP75154	1-3/8-24	RDSP75202	1-1/4-8	RDSP75254	1-3/4-5 1/2	RDSP75306
15/16-20	RDSP75107	1-1/8-24	RDSP75155	1-3/8-27	RDSP75203	1-1/4-10	RDSP75255	1-3/4-6	RDSP75307
15/16-24	RDSP75108	1-1/8-26	RDSP75156	1-3/8-32	RDSP75204	1-1/4-14	RDSP75256	1-3/4-8	RDSP75308
15/16-27	RDSP75109	1-1/8-27	RDSP75157	1-7/16-6	RDSP75205	1-1/4-16	RDSP75257	1-3/4-10	RDSP75309
15/16-28	RDSP75110	1-1/8-28	RDSP75158	1-7/16-8	RDSP75206	1-1/4-18	RDSP75258	1-3/4-14	RDSP75310
15/16-30	RDSP75111	1-1/8-30	RDSP75159	1-7/16-12	RDSP75207	1-1/4-20	RDSP75259	1-3/4-16	RDSP75311
15/16-32	RDSP75112	1-1/8-32	RDSP75160	1-7/16-16	RDSP75208	1-1/4-24	RDSP75260	1-3/4-20	RDSP75312
1-10	RDSP75113	1-3/16-7	RDSP75161	1-7/16-18	RDSP75209	1-5/16-8	RDSP75261	1-3/4-24	RDSP75313
1-16	RDSP75114	1-3/16-8	RDSP75162	1-1/2-7	RDSP75210	1-5/16-10	RDSP75262	1-7/8-5	RDSP75314
1-18	RDSP75115	1-3/16-12	RDSP75163	1-1/2-8	RDSP75211	1-5/16-12	RDSP75263	1-7/8-5 1/2	RDSP75315
1-20	RDSP75116	1-3/16-14	RDSP75164	1-1/2-10	RDSP75212	1-5/16-14	RDSP75264	1-7/8-6	RDSP75316
1-24	RDSP75117	1-3/16-16	RDSP75165	1-1/2-14	RDSP75213	1-5/16-16	RDSP75265	1-7/8-8	RDSP75317
1-27	RDSP75118	1-3/16-18	RDSP75166	1-1/2-16	RDSP75214	1-5/16-18	RDSP75266	1-7/8-10	RDSP75318
1-28	RDSP75119	1-3/16-20	RDSP75167	1-1/2-18	RDSP75215	1-5/16-20	RDSP75267	1-7/8-12	RDSP75319
1-30	RDSP75120	1-3/16-24	RDSP75168	1-1/2-20	RDSP75216	1-3/8-8	RDSP75268	1-7/8-14	RDSP75320
1-32	RDSP75121	1-3/16-27	RDSP75169	1-1/2-24	RDSP75217	1-3/8-10	RDSP75269	1-7/8-16	RDSP75321
1-36	RDSP75122	1-3/16-28	RDSP75170	1-1/2-27	RDSP75218	1-3/8-14	RDSP75270	1-7/8-18	RDSP75322
1-40	RDSP75123	1-3/16-32	RDSP75171	1-1/2-30	RDSP75219	1-3/8-16	RDSP75271	1-7/8-20	RDSP75323
1-48	RDSP75124	1-1/4-8	RDSP75172	1-1/2-32	RDSP75220	1-3/8-18	RDSP75272	2-4	RDSP75324
1-56	RDSP75125	1-1/4-10	RDSP75173			1-3/8-20	RDSP75273	2-6	RDSP75325
		1-1/4-14	RDSP75174			1-3/8-24	RDSP75274	2-8	RDSP75326
		1-1/4-16	RDSP75175			1-7/16-6	RDSP75275	2-10	RDSP75327
		1-1/4-18	RDSP75176			1-7/16-8	RDSP75276	2-14	RDSP75328
		1-1/4-20	RDSP75177			1-7/16-12	RDSP75277	2-16	RDSP75329
						1-7/16-16	RDSP75278	2-18	RDSP75330
						1-7/16-18	RDSP75279	2-20	RDSP75331
						1-1/2-8	RDSP75280	2-24	RDSP75332
						1-1/2-10	RDSP75281		1 per pack



Round Adj. Dies - Special Thread - Metric

High-Speed Steel

- Features:**
- Provides improved wear life.
 - Ideal for precision threading with adjustment of die by set screws.
 - Allows the user to under or over cut threads.



METRIC SIZES

SIZE	STOCK #
1" O.D.	
3 x 0.35	RDSPM75320
3 x 0.60	RDSPM75321
3 x 0.75	RDSPM75322
3.5 x 0.35	RDSPM75323
3.5 x 0.50	RDSPM75324
4 x 0.50	RDSPM75325
4 x 0.35	RDSPM75326
4 x 0.60	RDSPM75327
4 x 0.75	RDSPM75328
4 x 1.00	RDSPM75329
4.5 x 0.50	RDSPM75330
4.5 x 1.00	RDSPM75331
5 x 0.50	RDSPM75332
5 x 0.75	RDSPM75333
5 x 0.90	RDSPM75334
5 x 1.00	RDSPM75335
5.5 x 0.50	RDSPM75336
5.5 x 0.70	RDSPM75337
5.5 x 0.90	RDSPM75338
6 x 0.50	RDSPM75339
6 x 0.75	RDSPM75340
6 x 1.25	RDSPM75341
6 x 1.50	RDSPM75342
7 x 0.50	RDSPM75343
7 x 0.75	RDSPM75344
7 x 1.25	RDSPM75345
8 x 0.50	RDSPM75346
8 x 0.75	RDSPM75347
8 x 1.50	RDSPM75348
8 x 1.75	RDSPM75349
9 x 0.50	RDSPM75350
9 x 0.75	RDSPM75351
9 x 1.00	RDSPM75352
9 x 1.25	RDSPM75353
9 x 1.50	RDSPM75354
9 x 1.75	RDSPM75355
10 x 0.50	RDSPM75356
10 x 0.75	RDSPM75357
10 x 1.00	RDSPM75358
10 x 1.75	RDSPM75359
10 x 2.00	RDSPM75360
11 x 0.50	RDSPM75361
11 x 0.75	RDSPM75362
11 x 1.00	RDSPM75363
11 x 1.25	RDSPM75364
11 x 1.50	RDSPM75365
11 x 1.75	RDSPM75366
11 x 2.00	RDSPM75367
12 x 0.50	RDSPM75368
12 x 0.75	RDSPM75369
12 x 1.00	RDSPM75370
12 x 1.50	RDSPM75371
12 x 2.00	RDSPM75372

SIZE	STOCK #
1-1/2" O.D.	
9 x 0.50	RDSPM75410
9 x 0.75	RDSPM75411
9 x 1.00	RDSPM75412
9 x 1.25	RDSPM75413
10 x 0.50	RDSPM75414
10 x 0.75	RDSPM75415
10 x 1.00	RDSPM75416
11 x 0.50	RDSPM75417
11 x 0.75	RDSPM75418
11 x 1.00	RDSPM75419
11 x 1.25	RDSPM75420
11 x 1.50	RDSPM75421
12 x 0.50	RDSPM75422
12 x 0.75	RDSPM75423
12 x 1.00	RDSPM75424
12 x 1.50	RDSPM75425
12 x 2.00	RDSPM75426
13 x 0.50	RDSPM75427
13 x 0.75	RDSPM75428
13 x 1.00	RDSPM75429
13 x 1.25	RDSPM75430
13 x 1.50	RDSPM75431
13 x 1.75	RDSPM75432
13 x 2.00	RDSPM75433
14 x 0.50	RDSPM75434
14 x 0.75	RDSPM75435
14 x 1.00	RDSPM75436
14 x 1.25	RDSPM75437
14 x 1.75	RDSPM75438
15 x 0.50	RDSPM75439
15 x 1.00	RDSPM75440
15 x 1.50	RDSPM75441
15 x 2.00	RDSPM75442
16 x 0.50	RDSPM75443
16 x 0.75	RDSPM75444
16 x 1.00	RDSPM75445
16 x 1.25	RDSPM75446
16 x 1.50	RDSPM75446A
16 x 1.75	RDSPM75447
17 x 0.50	RDSPM75448
17 x 1.00	RDSPM75449
17 x 1.50	RDSPM75450
17 x 2.00	RDSPM75451
18 x 0.50	RDSPM75452
18 x 1.00	RDSPM75453
18 x 1.25	RDSPM75454
18 x 1.75	RDSPM75455
18 x 2.00	RDSPM75456
19 x 0.50	RDSPM75457
19 x 1.00	RDSPM75458
19 x 1.50	RDSPM75459
19 x 2.00	RDSPM75460
20 x 1.00	RDSPM75461
20 x 1.25	RDSPM75462
20 x 1.75	RDSPM75463
20 x 2.00	RDSPM75464

SIZE	STOCK #
2" O.D.	
18 x 1.00	RDSPM75510
19 x 1.50	RDSPM75511
20 x 1.00	RDSPM75512
20 x 1.25	RDSPM75513
20 x 2.00	RDSPM75514
21 x 1.00	RDSPM75515
21 x 1.50	RDSPM75516
21 x 2.00	RDSPM75517
21 x 2.50	RDSPM75518
22 x 1.00	RDSPM75519
22 x 2.00	RDSPM75520
23 x 1.00	RDSPM75521
23 x 1.50	RDSPM75522
23 x 2.00	RDSPM75523
23 x 2.50	RDSPM75524
24 x 1.50	RDSPM75525
25 x 1.00	RDSPM75526
25 x 1.50	RDSPM75527
25 x 2.00	RDSPM75528
25 x 2.50	RDSPM75529
26 x 1.50	RDSPM75530
26 x 2.00	RDSPM75531
27 x 1.00	RDSPM75532
27 x 1.50	RDSPM75533
28 x 1.00	RDSPM75534
28 x 1.50	RDSPM75535
28 x 2.00	RDSPM75536
30 x 1.00	RDSPM75537
30 x 1.50	RDSPM75538
30 x 2.00	RDSPM75539
30 x 3.00	RDSPM75540
2-1/2" O.D.	
32 x 1.50	RDSPM75610
33 x 1.50	RDSPM75611
34 x 1.50	RDSPM75612
35 x 1.00	RDSPM75613
35 x 1.50	RDSPM75614
36 x 1.50	RDSPM75615
38 x 1.50	RDSPM75620

SIZE	STOCK #
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39 x 1.50	RDSPM75621
40 x 1.50	RDSPM75622
42 x 1.50	RDSPM75623
42 x 3.00	RDSPM75624
42 x 4.50	RDSPM75625
45 x 1.50	RDSPM75626
45 x 3.00	RDSPM75627
45 x 4.50	RDSPM75628
48 x 1.50	RDSPM75629
48 x 3.00	RDSPM75630
48 x 5.00	RDSPM75631
50 x 1.50	RDSPM75632
52 x 1.50	RDSPM75633
52 x 3.00	RDSPM75634
52 x 5.00	RDSPM75635

1 per pack

Hexagon Dies

High-Speed Steel Right Hand Thread



Features:

- Designed for tough cutting applications of all types of external threads.
- Versatile hexagon shape assures use with adjustable wrench.

THREAD SIZE	TPI NC, NF, NS	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
MACHINE SCREW SIZES				
4	40	19/32"	1/4"	HSHD74501
6	32	19/32"	1/4"	HSHD74503
8	32	19/32"	1/4"	HSHD74505
10	24	19/32"	1/4"	HSHD74507
10	32	19/32"	1/4"	HSHD74509
12	24	19/32"	1/4"	HSHD74511
FRACTIONAL				
1/4"	20	19/32"	1/4"	HSHD74512
1/4"	28	19/32"	1/4"	HSHD74513
5/16"	18	11/16"	5/16"	HSHD74514
5/16"	24	11/16"	5/16"	HSHD74515
3/8"	16	25/32"	3/8"	HSHD74516
3/8"	24	25/32"	3/8"	HSHD74517
7/16"	14	7/8"	7/16"	HSHD74518
7/16"	20	7/8"	7/16"	HSHD74519
1/2"	13	1-1/16"	1/2"	HSHD74520
1/2"	20	1-1/16"	1/2"	HSHD74521
9/16"	12	1-1/16"	1/2"	HSHD74522
9/16"	18	1-1/16"	1/2"	HSHD74523
5/8"	11	1-1/4"	5/8"	HSHD74524
5/8"	18	1-1/4"	5/8"	HSHD74525
3/4"	10	1-7/16"	3/4"	HSHD74526
3/4"	16	1-7/16"	3/4"	HSHD74527
7/8"	9	1-5/8"	7/8"	HSHD74528
7/8"	14	1-5/8"	7/8"	HSHD74529
1"	8	1-13/16"	1"	HSHD74530
1"	12	1-13/16"	1"	HSHD74531
1"	14	1-13/16"	1"	HSHD74532
1-1/8"	7	2"	1"	HSHD74533
1-1/8"	12	2"	1"	HSHD74534
1-1/4"	7	2-3/16"	1"	HSHD74535
1-1/4"	12	2-3/16"	1"	HSHD74536
1-3/8"	6	2-3/8"	1"	HSHD74537
1-3/8"	12	2-3/8"	1"	HSHD74538
1-1/2"	6	2-9/16"	1"	HSHD74539
1-1/2"	12	2-9/16"	1"	HSHD74540

1 per pack

THREAD SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
NPT SIZES				
1/8"	27	3/4"	3/8"	HSHD74551
1/4"	18	1-1/16"	1/2"	HSHD74552
3/8"	18	1-7/16"	5/8"	HSHD74553
1/2"	14	1-7/16"	3/4"	HSHD74554
3/4"	14	1-13/16"	1"	HSHD74555
1"	11-1/2	2-3/16"	1"	HSHD74556
1-1/4"	11-1/2	3-1/8"	1"	HSHD74557
1-1/2"	11-1/2	3-1/8"	1"	HSHD74558
2"	11-1/2	4-1/2"	1-1/2"	HSHD74559

1 per pack

Eight Pitch Hexagon Dies

High Carbon Steel



Features:

- Designed for tough cutting applications of all types of external threads.
- Versatile hexagon shape assures use with adjustable wrench.

TAP SIZE	TPI	STOCK #
1-1/8"	8	CSRTD70751
1-1/4"	8	CSRTD70752
1-3/8"	8	CSRTD70753
1-1/2"	8	CSRTD70754
1-5/8"	8	CSRTD70755
1-3/4"	8	CSRTD70756
1-7/8"	8	CSRTD70757
2"	8	CSRTD70758
2-1/8"	8	CSRTD70759
2-1/4"	8	CSRTD70760
2-3/8"	8	CSRTD70761
2-1/2"	8	CSRTD70762
2-5/8"	8	CSRTD70763
2-3/4"	8	CSRTD70764
2-7/8"	8	CSRTD70765
3"	8	CSRTD70766
3-1/4"	8	CSRTD70767
3-1/2"	8	CSRTD70768
3-3/4"	8	CSRTD70769
4"	8	CSRTD70770

1 per pack

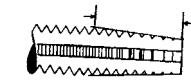
Hand Taps Carbon Steel

**Cut Thread, Right Hand
Bright Finish**



Hand Taps Carbon Steel

B



Features:

- Precision-made from high carbon tool steel.
- Ideal for hand threading in routine maintenance, repair work & for rethreading applications.
- Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.



TAPER, PLUG, BOTTOMING & SETS

NC = National Coarse NF = National Fine NS = National Standard SP = Spark Plug

TAP SIZE	TPI NC, NF, NS	TAPER STOCK # BULK	PLUG STOCK # BULK	PLUG STOCK # CARDED	BOTTOM STOCK # BULK	SET OF 3 STOCK # BOXED
MACHINE SCREW SIZES						
0	80 NF	CSHTT70500	CSHTP70500	CSHTP70500C	CSHTB70500	CSHTS70500
1	64 NC	CSHTT70501	CSHTP70501	CSHTP70501C	CSHTB70501	CSHTS70501
1	72 NF	CSHTT70502	CSHTP70502	CSHTP70502C	CSHTB70502	CSHTS70502
2	56 NC	CSHTT70503	CSHTP70503	CSHTP70503C	CSHTB70503	CSHTS70503
2	64 NF	CSHTT70504	CSHTP70504	CSHTP70504C	CSHTB70504	CSHTS70504
3	48 NC	CSHTT70505	CSHTP70505	CSHTP70505C	CSHTB70505	CSHTS70505
3	56 NF	CSHTT70506	CSHTP70506	CSHTP70506C	CSHTB70506	CSHTS70506
4	36 NS	CSHTT70507	CSHTP70507	CSHTP70507C	CSHTB70507	CSHTS70507
4	40 NC	CSHTT70508	CSHTP70508	CSHTP70508C	CSHTB70508	CSHTS70508
4	48 NF	CSHTT70509	CSHTP70509	CSHTP70509C	CSHTB70509	CSHTS70509
5	40 NC	CSHTT70510	CSHTP70510	CSHTP70510C	CSHTB70510	CSHTS70510
5	44 NF	CSHTT70511	CSHTP70511	CSHTP70511C	CSHTB70511	CSHTS70511
6	32 NC	CSHTT70512	CSHTP70512	CSHTP70512C	CSHTB70512	CSHTS70512
6	40 NF	CSHTT70513	CSHTP70513	CSHTP70513C	CSHTB70513	CSHTS70513
8	32 NC	CSHTT70514	CSHTP70514	CSHTP70514C	CSHTB70514	CSHTS70514
8	36 NF	CSHTT70515	CSHTP70515	CSHTP70515C	CSHTB70515	CSHTS70515
10	24 NC	CSHTT70516	CSHTP70516	CSHTP70516C	CSHTB70516	CSHTS70516
10	32 NF	CSHTT70517	CSHTP70517	CSHTP70517C	CSHTB70517	CSHTS70517
12	24 NC	CSHTT70518	CSHTP70518	CSHTP70518C	CSHTB70518	CSHTS70518
12	28 NF	CSHTT70519	CSHTP70519	CSHTP70519C	CSHTB70519	CSHTS70519
FRACTIONAL						
3/16"	24 NS	CSHTT70530	CSHTP70530	CSHTP70530C	CSHTB70530	CSHTS70530
3/16"	32 NS	CSHTT70531	CSHTP70531	CSHTP70531C	CSHTB70531	CSHTS70531
1/4"	20 NC	CSHTT70532	CSHTP70532	CSHTP70532C	CSHTB70532	CSHTS70532
1/4"	28 NF	CSHTT70533	CSHTP70533	CSHTP70533C	CSHTB70533	CSHTS70533
5/16"	18 NC	CSHTT70534	CSHTP70534	CSHTP70534C	CSHTB70534	CSHTS70534
5/16"	24 NF	CSHTT70535	CSHTP70535	CSHTP70535C	CSHTB70535	CSHTS70535
3/8"	16 NC	CSHTT70536	CSHTP70536	CSHTP70536C	CSHTB70536	CSHTS70536
3/8"	24 NF	CSHTT70537	CSHTP70537	CSHTP70537C	CSHTB70537	CSHTS70537
7/16"	14 NC	CSHTT70538	CSHTP70538	CSHTP70538C	CSHTB70538	CSHTS70538
7/16"	20 NF	CSHTT70539	CSHTP70539	CSHTP70639C	CSHTB70539	CSHTS70539
1/2"	13 NC	CSHTT70540	CSHTP70540	CSHTP70540C	CSHTB70540	CSHTS70540
1/2"	20 NF	CSHTT70541	CSHTP70541	CSHTP70541C	CSHTB70541	CSHTS70541
9/16"	12 NC	CSHTT70542	CSHTP70542	—	CSHTB70542	CSHTS70542
9/16"	18 NF	CSHTT70543	CSHTP70543	—	CSHTB70543	CSHTS70543
5/8"	11 NC	CSHTT70544	CSHTP70544	—	CSHTB70544	CSHTS70544
5/8"	18 NF	CSHTT70545	CSHTP70545	—	CSHTB70545	CSHTS70545
3/4"	10 NC	CSHTT70546	CSHTP70546	—	CSHTB70546	CSHTS70546
3/4"	16 NF	CSHTT70547	CSHTP70547	—	CSHTB70547	CSHTS70547
7/8"	9 NC	CSHTT70548	CSHTP70548	—	CSHTB70548	CSHTS70548
7/8"	14 NF	CSHTT70549	CSHTP70549	—	CSHTB70549	CSHTS70549
*7/8"	18 SP	—	CSHTP70550	—	—	—
1"	8 NC	CSHTT70551	CSHTP70551	—	CSHTB70551	CSHTS70551
1"	12 NF	CSHTT70552	CSHTP70552	—	CSHTB70552	CSHTS70552
1"	14 NS	CSHTT70553	CSHTP70553	—	CSHTB70553	CSHTS70553
1-1/8"	7 NC	CSHTT70554	CSHTP70554	—	CSHTB70554	CSHTS70554
1-1/8"	12 NF	CSHTT70555	CSHTP70555	—	CSHTB70555	CSHTS70555
1-1/4"	7 NC	CSHTT70556	CSHTP70556	—	CSHTB70556	CSHTS70556
1-1/4"	12 NF	CSHTT70557	CSHTP70557	—	CSHTB70557	CSHTS70557
1-3/8"	6 NC	CSHTT70558	CSHTP70558	—	CSHTB70558	CSHTS70558
1-3/8"	12 NF	CSHTT70559	CSHTP70559	—	CSHTB70559	CSHTS70559
1-1/2"	6 NC	CSHTT70560	CSHTP70560	—	CSHTB70560	CSHTS70560
1-1/2"	12 NF	CSHTT70561	CSHTP70561	—	CSHTB70561	CSHTS70561

0-80 to 1", 3 per pack, 1-1/8 and above, 1 per pack

* Spark Plug Tap

Metric Hand Taps

High Carbon Steel



- Features:**
- Precision-made from high carbon tool steel.
 - Ideal for hand threading in routine maintenance, repair work and for rethreading applications.



METRIC HAND TAPS

Expanded

TAP SIZE	PITCH	STOCK #			SET OF 3 BOXED
		TAPER	PLUG	BOTTOMING	
3	0.50	CSMTT70810	CSMTP70810	CSMTB70810	CSMTS70810
3	0.60	CSMTT70811	CSMTP70811	CSMTB70811	CSMTS70811
4	0.50	CSMTT70812	CSMTP70812	CSMTB70812	CSMTS70812
4	0.70	CSMTT70813	CSMTP70813	CSMTB70813	CSMTS70813
4	0.75	CSMTT70813A	CSMTP70813A	CSMTB70813A	CSMTS70813A
5	0.80	CSMTT70814	CSMTP70814	CSMTB70814	CSMTS70814
5	0.90	CSMTT70815	CSMTP70815	CSMTB70815	CSMTS70815
6	1.00	CSMTT70816	CSMTP70816	CSMTB70816	CSMTS70816
7	1.00	CSMTT70817	CSMTP70817	CSMTB70817	CSMTS70817
8	1.00	CSMTT70818	CSMTP70818	CSMTB70818	CSMTS70818
8	1.25	CSMTT70819	CSMTP70819	CSMTB70819	CSMTS70819
9	0.75	CSMTT70820	CSMTP70820	CSMTB70820	CSMTS70820
9	1.00	CSMTT70821	CSMTP70821	CSMTB70821	CSMTS70821
9	1.25	CSMTT70822	CSMTP70822	CSMTB70822	CSMTS70822
10	1.00	CSMTT70823	CSMTP70823	CSMTB70823	CSMTS70823
10	1.25	CSMTT70824	CSMTP70824	CSMTB70824	CSMTS70824
10	1.50	CSMTT70825	CSMTP70825	CSMTB70825	CSMTS70825
11	1.50	CSMTT70826	CSMTP70826	CSMTB70826	CSMTS70826
12	1.25	CSMTT70827	CSMTP70827	CSMTB70827	CSMTS70827
12	1.50	CSMTT70828	CSMTP70828	CSMTB70828	CSMTS70828
12	1.75	CSMTT70829	CSMTP70829	CSMTB70829	CSMTS70829
14	1.25	CSMTT70830	CSMTP70830	CSMTB70830	CSMTS70830
14	1.50	CSMTT70831	CSMTP70831	CSMTB70831	CSMTS70831
14	2.00	CSMTT70832	CSMTP70832	CSMTB70832	CSMTS70832
16	1.50	CSMTT70833	CSMTP70833	CSMTB70833	CSMTS70833
16	2.00	CSMTT70834	CSMTP70834	CSMTB70834	CSMTS70834
18	2.00	CSMTT70835	CSMTP70835	CSMTB70835	CSMTS70835
18	2.50	CSMTT70836	CSMTP70836	CSMTB70836	CSMTS70836
18	1.50	CSMTT70837	CSMTP70837	CSMTB70837	CSMTS70837
20	1.50	CSMTT70838	CSMTP70838	CSMTB70838	CSMTS70838
20	2.50	CSMTT70839	CSMTP70839	CSMTB70839	CSMTS70839
22	1.50	CSMTT70840	CSMTP70840	CSMTB70840	CSMTS70840
22	2.50	CSMTT70841	CSMTP70841	CSMTB70841	CSMTS70841
24	2.00	CSMTT70842	CSMTP70842	CSMTB70842	CSMTS70842
24	3.00	CSMTT70843	CSMTP70843	CSMTB70843	CSMTS70843
27	2.00	CSMTT70844	CSMTP70844	CSMTB70844	CSMTS70844
27	3.00	CSMTT70845	CSMTP70845	CSMTB70845	CSMTS70845
30	2.00	CSMTT70846	CSMTP70846	CSMTB70846	CSMTS70846
30	3.50	CSMTT70847	CSMTP70847	CSMTB70847	CSMTS70847

3 to 24mm, 3 per pack, 27mm and above, 1 per pack

*Please note stock numbers CSMT70810 to CSMT70847 from catalog 03G page B6 have been revised.

Taper Pipe Taps

High Carbon Steel



TAPER PIPE TAPS, NPT

TAP SIZE	TPI	STOCK #	
		BULK	CARDED
1/16"	27	CSNPT70560	CSNPT70560C
1/8"	27	CSNPT70561	CSNPT70561C
1/4"	18	CSNPT70562	CSNPT70562C
3/8"	18	CSNPT70563	CSNPT70563C
1/2"	14	CSNPT70564	CSNPT70564C
3/4"	14	CSNPT70565	-
1"	11-1/2	CSNPT70566	-
1-1/4"	11-1/2	CSNPT70567	-
1-1/2"	11-1/2	CSNPT70568	-
2"	11-1/2	CSNPT70569	-

Bulk 1/16" to 1", 3 per pack, 1-1/4" and above, 1 per pack
Card 1/16" to 1/2", 1 per card

Features:

- Tapered at the rate of 3/4" per foot.
- Normally used for tapping pipe fittings.
- The nominal size of the tap is that of the pipe fitting being tapped and not the actual size of the tap.

Spark Plug Taps

High Carbon Steel



Features:

- Ideal for threading or rethreading spark plug holes.
- Available in standard and metric threads.



CSMTP70855

4 PC. SPARK PLUG TAP SET

In Wooden Storage Case

TAP SIZE	NO. OF FLUTES	STOCK #
7/8" - 18NS	4	CSHTP70550
10mm - 1.00	4	CSMTP70823
12mm - 1.25	4	CSMTP70827
14mm - 1.25	4	CSMTP70830
18mm - 1.50	4	CSMTP70837

3 per pack

DESCRIPTION	STOCK #
Tap Set Contains:	
10mm - 1.00mm	
12mm - 1.25mm	CSMTP70855
14mm - 1.25mm	
18mm - 1.50mm	

Hexagon Dies

High Carbon Steel



Features:

- Suitable for cutting all types of external threads.
- Versatile hexagon shape assures use with die stock or adjustable wrench.
- Best suited for maintenance and repair work.



HEXAGON DIES

THREAD SIZE	TPI	STOCK #	
		BULK	CARDED
1" A.F.			
4	40	CSHD70859	CSHD70859C
5	40	CSHD70860	CSHD70860C
5	44	CSHD70860A	CSHD70860AC
6	32	CSHD70861	CSHD70861C
6	40	CSHD70861A	CSHD70861AC
8	32	CSHD70862	CSHD70862C
8	36	CSHD70862A	CSHD70862AC
10	24	CSHD70863	CSHD70863C
10	32	CSHD70864	CSHD70864C
12	24	CSHD70865	CSHD70865C
1/4"	20	CSHD70866	CSHD70866C
1/4"	28	CSHD70867	CSHD70867C
5/16"	18	CSHD70868	CSHD70868C
5/16"	24	CSHD70869	CSHD70869C
3/8"	16	CSHD70870	CSHD70870C
3/8"	24	CSHD70871	CSHD70871C
7/16"	14	CSHD70872	CSHD70872C
7/16"	20	CSHD70873	CSHD70873C
1/2"	13	CSHD70874	CSHD70874C
1/2"	20	CSHD70875	CSHD70875C
1/8" NPT	27	CSHD70891	CSHD70891C
1/4" NPT	18	CSHD70893	CSHD70893C
1-7/16" A.F.			
1/2"	13	CSHD70880	CSHD70880C
1/2"	20	CSHD70881	CSHD70881C
9/16"	12	CSHD70882	CSHD70882C
9/16"	18	CSHD70883	CSHD70883C
5/8"	11	CSHD70884	CSHD70884C
5/8"	18	CSHD70885	CSHD70885C
3/4"	10	CSHD70886	CSHD70886C
3/4"	16	CSHD70887	CSHD70887C
1/8" NPT	27	CSHD70892	CSHD70892C
1/4" NPT	18	CSHD70894	CSHD70894C

1 per pack

Card 1 per card

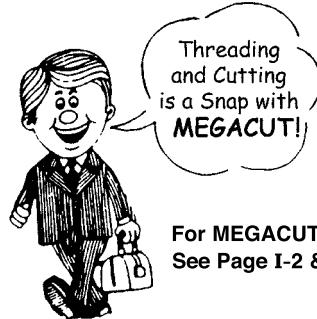
METRIC – HEXAGON DIES

THREAD SIZE	TPI	STOCK #	
		BULK	CARDED
1" A.F.			
3	0.50	MHD71010	MHD71010C
3	0.60	MHD71011	MHD71011C
4	0.50	MHD71012	MHD71012C
4	0.70	MHD71013	MHD71013C
5	0.80	MHD71014	MHD71014C
5	0.90	MHD71015	MHD71015C
6	1.00	MHD71016	MHD71016C
7	1.00	MHD71017	MHD71017C
8	1.00	MHD71018	MHD71018C
8	1.25	MHD71019	MHD71019C
9	0.75	MHD71020	MHD71020C
9	1.00	MHD71021	MHD71021C
9	1.25	MHD71022	MHD71022C
10	1.00	MHD71023	MHD71023C
10	1.25	MHD71024	MHD71024C
10	1.50	MHD71025	MHD71025C
11	1.50	MHD71026	MHD71026C
12	1.25	MHD71027	MHD71027C
12	1.50	MHD71028	MHD71028C
12	1.75	MHD71029	MHD71029C
1-7/16" A.F.			
14	1.25	MHD71029A	—
14	1.50	MHD71030	—
14	2.00	MHD71031	—
16	1.25	MHD71032	—
16	1.50	MHD71033	—
16	2.00	MHD71034	—
18	1.50	MHD71035	—
18	2.00	MHD71036	—
18	2.50	MHD71037	—

1 per pack

Card 3 to 12mm, 1 per card

See Die Stock on Page B35.



For MEGACUT details,
See Page I-2 & I-3.

Hexagon Dies

B

Hexagon Rethreading Dies



High Carbon Steel

Hexagon Rethreading Dies

B

RIGHT HAND THREAD

TAP SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
MACHINE SCREW SIZES				
4	40	19/32"	1/4"	CSRTD70689
4	48	19/32"	1/4"	CSRTD70690
5	40	19/32"	1/4"	CSRTD70691
5	44	19/32"	1/4"	CSRTD70692
6	32	19/32"	1/4"	CSRTD70693
6	40	19/32"	1/4"	CSRTD70694
8	32	19/32"	1/4"	CSRTD70695
8	36	19/32"	1/4"	CSRTD70696
10	24	19/32"	1/4"	CSRTD70697
10	32	19/32"	1/4"	CSRTD70698
12	24	19/32"	1/4"	CSRTD70699
12	28	19/32"	1/4"	CSRTD70700
FRACTIONAL				
1/4"	20	19/32"	1/4"	CSRTD70701
1/4"	28	19/32"	1/4"	CSRTD70702
5/16"	18	11/16"	5/16"	CSRTD70703
5/16"	24	11/16"	5/16"	CSRTD70704
3/8"	16	25/32"	3/8"	CSRTD70705
3/8"	24	25/32"	3/8"	CSRTD70706
7/16"	14	7/8"	7/16"	CSRTD70707
7/16"	20	7/8"	7/16"	CSRTD70708
1/2"	13	1-1/16"	1/2"	CSRTD70709
1/2"	20	1-1/16"	1/2"	CSRTD70710
9/16"	12	1-1/16"	1/2"	CSRTD70711
9/16"	18	1-1/16"	1/2"	CSRTD70712
5/8"	11	1-1/4"	5/8"	CSRTD70713
5/8"	18	1-1/4"	5/8"	CSRTD70714
3/4"	10	1-7/16"	3/4"	CSRTD70715
3/4"	16	1-7/16"	3/4"	CSRTD70716
7/8"	9	1-5/8"	7/8"	CSRTD70717
7/8"	14	1-5/8"	7/8"	CSRTD70718
1"	8	1-13/16"	1"	CSRTD70719
1"	12	1-13/16"	1"	CSRTD70720
1"	14	1-13/16"	1"	CSRTD70721
1-1/8"	7	2"	1"	CSRTD70722
1-1/8"	12	2"	1"	CSRTD70723
1-1/4"	7	2-3/16"	1"	CSRTD70724
1-1/4"	12	2-3/16"	1"	CSRTD70725
1-3/8"	6	2-3/8"	1"	CSRTD70726
1-3/8"	12	2-3/8"	1"	CSRTD70727
1-1/2"	6	2-9/16"	1"	CSRTD70728
1-1/2"	12	2-9/16"	1"	CSRTD70729
1-5/8"	6	3-1/8"	1"	CSRTD70730
1-5/8"	12	3-1/8"	1"	CSRTD70731
1-3/4"	5	3-1/8"	1"	CSRTD70732
1-3/4"	12	3-1/8"	1"	CSRTD70733
2"	4-1/2	3-1/2"	1-1/4"	CSRTD70734
2"	12	3-1/2"	1-1/4"	CSRTD70735
2-1/2"	4	4-1/2"	1-1/2"	CSRTD70736
2-3/4"	4	4-1/2"	1-5/8"	CSRTD70737
3"	4	5"	2"	CSRTD70738
3-1/4"	4	5"	2"	CSRTD70739
3-1/2"	4	5"	2"	CSRTD70739A
3-3/4"	4	6"	2-1/4"	CSRTD70739B
4"	4	7"	2-3/8"	CSRTD70739C
NPT SIZES				
1/16"	27	25/32"	3/8"	CSRTD70740A
1/8"	27	25/32"	3/8"	CSRTD70740
1/4"	18	1-1/16"	1/2"	CSRTD70741
3/8"	18	1-1/4"	5/8"	CSRTD70742
1/2"	14	1-7/16"	3/4"	CSRTD70743
3/4"	14	1-13/16"	1"	CSRTD70744
1"	11-1/2	2-3/16"	1"	CSRTD70745
1-1/4"	11-1/2	2-9/16"	1"	CSRTD70746
1-1/2"	11-1/2	3-1/8"	1"	CSRTD70747
2"	11-1/2	4-1/2"	1-1/2"	CSRTD70748

1 per pack

- Features:**
- Specially designed for cleaning dirty or rusty threads.
 - Restores damaged threads to correct form and lead.
 - Will not undercut good threads.
 - Versatile hexagon shape assures use with any open end, box or adjustable wrench.

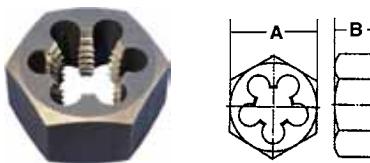
LEFT HAND THREAD

TAP SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
MACHINE SCREW SIZES				
4	40	19/32"	1/4"	CSRTD70689L
4	48	19/32"	1/4"	CSRTD70690L
5	40	19/32"	1/4"	CSRTD70691L
5	44	19/32"	1/4"	CSRTD70692L
6	32	19/32"	1/4"	CSRTD70693L
6	40	19/32"	1/4"	CSRTD70694L
8	32	19/32"	1/4"	CSRTD70695L
8	36	19/32"	1/4"	CSRTD70696L
10	24	19/32"	1/4"	CSRTD70697L
10	32	19/32"	1/4"	CSRTD70698L
12	24	19/32"	1/4"	CSRTD70699L
12	28	19/32"	1/4"	CSRTD70700L
FRACTIONAL				
1/4"	20	19/32"	1/4"	CSRTD70701L
1/4"	28	19/32"	1/4"	CSRTD70702L
5/16"	18	11/16"	5/16"	CSRTD70703L
5/16"	24	11/16"	5/16"	CSRTD70704L
3/8"	16	25/32"	3/8"	CSRTD70705L
3/8"	24	25/32"	3/8"	CSRTD70706L
7/16"	14	7/8"	7/16"	CSRTD70707L
7/16"	20	7/8"	7/16"	CSRTD70708L
1/2"	13	1-1/16"	1/2"	CSRTD70709L
1/2"	20	1-1/16"	1/2"	CSRTD70710L
9/16"	12	1-1/16"	1/2"	CSRTD70711L
9/16"	18	1-1/16"	1/2"	CSRTD70712L
5/8"	11	1-1/4"	5/8"	CSRTD70713L
5/8"	18	1-1/4"	5/8"	CSRTD70714L
3/4"	10	1-7/16"	3/4"	CSRTD70715L
3/4"	16	1-7/16"	3/4"	CSRTD70716L
7/8"	9	1-5/8"	7/8"	CSRTD70717L
7/8"	14	1-5/8"	7/8"	CSRTD70718L
1"	8	1-13/16"	1"	CSRTD70719L
1"	12	1-13/16"	1"	CSRTD70720L
1"	14	1-13/16"	1"	CSRTD70721L
1-1/8"	7	2"	1"	CSRTD70722L
1-1/8"	12	2"	1"	CSRTD70723L
1-1/4"	7	2-3/16"	1"	CSRTD70724L
1-1/4"	12	2-3/16"	1"	CSRTD70725L
1-3/8"	6	2-3/8"	1"	CSRTD70726L
1-3/8"	12	2-3/8"	1"	CSRTD70727L
1-1/2"	6	2-9/16"	1"	CSRTD70728L
1-1/2"	12	2-9/16"	1"	CSRTD70729L

1 per pack

Hexagon Rethreading Dies - Metric

High Carbon Steel



- Features:**
- Ideal for repairing damaged threads without undercutting good threads.
 - Versatile hexagon shape assures use with any open end, box or adjustable wrench.

RIGHT HAND THREAD

THREAD SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
3	0.50	19/32	1/4	MHD70751
3.5	0.60	19/32	1/4	MHD70752
4	0.70	19/32	1/4	MHD70753
4	0.75	19/32	1/4	MHD70753A
4.5	0.75	19/32	1/4	MHD70754
5	0.80	19/32	1/4	MHD70755
6	1.00	19/32	1/4	MHD70756
6.3	1.00	19/32	1/4	MHD70757
7	1.00	11/16	5/16	MHD70758
8	1.00	11/16	5/16	MHD70759
8	1.25	11/16	5/16	MHD70760
10	1.00	25/32	3/8	MHD70761A
10	1.25	25/32	3/8	MHD70761
10	1.50	25/32	3/8	MHD70762
11	1.50	7/8	7/16	MHD70763
12	1.25	1-1/16	1/2	MHD70764L
12	1.75	1-1/16	1/2	MHD70765L
14	1.25	1-1/16	1/2	MHD70766L
14	1.75	1-1/16	1/2	MHD70767L
14	2.00	1-1/16	1/2	MHD70768L
16	1.25	1-1/4	5/8	MHD70769
16	1.50	1-1/4	5/8	MHD70770
16	2.00	1-1/4	5/8	MHD70771
18	1.50	1-7/16	3/4	MHD70772
18	2.00	1-7/16	3/4	MHD70773
18	2.50	1-7/16	3/4	MHD70774
20	1.50	1-7/16	3/4	MHD70775
20	2.50	1-7/16	3/4	MHD70776
22	1.50	1-5/8	7/8	MHD70777
22	2.50	1-5/8	7/8	MHD70778
24	2.00	1-13/16	1	MHD70779
24	3.00	1-13/16	1	MHD70780
27	2.00	2	1	MHD70781
27	3.00	2	1	MHD70782
30	2.00	2	1	MHD70783
30	3.50	2	1	MHD70784
33	2.00	2-3/16	1	MHD70785
33	3.50	2-3/16	1	MHD70786
36	3.00	2-9/16	1	MHD70787
36	4.00	2-9/16	1	MHD70788
39	3.00	2-9/16	1	MHD70789
39	4.00	2-9/16	1	MHD70790
40	1.50	2-9/16	1	MHD70791
42	1.50	3-1/8	1	MHD70792
42	4.50	3-1/8	1	MHD70793
45	1.50	3-1/8	1	MHD70794
45	4.50	3-1/8	1	MHD70795
48	1.50	3-1/8	1-1/4	MHD70796
48	5.00	3-1/8	1-1/4	MHD70797
52	1.50	3-1/2	1-1/4	MHD70798
52	5.00	3-1/2	1-1/4	MHD70799

1 per pack

LEFT HAND THREAD

THREAD SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
5	0.80	19/32	1/4	MHD70755L
6	1.00	19/32	1/4	MHD70756L
6.3	1.00	19/32	1/4	MHD70757L
7	1.00	11/16	5/16	MHD70758L
8	1.00	11/16	5/16	MHD70759L
8	1.25	11/16	5/16	MHD70760L
10	1.25	25/32	3/8	MHD70761L
10	1.50	25/32	3/8	MHD70762L
11	1.50	7/8	7/16	MHD70763L
12	1.25	1-1/16	1/2	MHD70764L
12	1.75	1-1/16	1/2	MHD70765L
14	1.25	1-1/16	1/2	MHD70766L
14	1.50	1-1/16	1/2	MHD70767L
14	2.00	1-1/16	1/2	MHD70768L
16	1.25	1-1/4	5/8	MHD70769L
16	1.50	1-1/4	5/8	MHD70770L
16	2.00	1-1/4	5/8	MHD70771L
18	1.50	1-7/16	3/4	MHD70772L
18	2.00	1-7/16	3/4	MHD70773L
18	2.50	1-7/16	3/4	MHD70774L
20	1.50	1-7/16	3/4	MHD70775L
20	2.50	1-7/16	3/4	MHD70776L
22	1.50	1-5/8	7/8	MHD70777L
22	2.50	1-5/8	7/8	MHD70778L
24	2.00	1-13/16	1	MHD70779L
24	3.00	1-13/16	1	MHD70780L
27	2.00	2	1	MHD70781L
27	3.00	2	1	MHD70782L
30	2.00	2	1	MHD70783L
30	3.50	2	1	MHD70784L

1 per pack



Round Adjustable Dies



High Carbon Steel

- Features:**
- Ideal for precision threading with adjustment of die by set screw.
 - Allows the user to under or over cut threads.

THREAD SIZE	TPI	STOCK #	
		BULK	CARDED
13/16" O.D.			
0	80	CSRD70591	CSRD70591C
1	64	CSRD70592	CSRD70592C
1	72	CSRD70593	CSRD70593C
2	56	CSRD70594	CSRD70594C
2	64	CSRD70595	CSRD70595C
3	48	CSRD70596	CSRD70596C
3	56	CSRD70597	CSRD70597C
4	40	CSRD70598	CSRD70598C
4	48	CSRD70599	CSRD70599C
1" O.D.			
5	40	CSRD70601	CSRD70601C
5	44	CSRD70602	CSRD70602C
6	32	CSRD70603	CSRD70603C
6	40	CSRD70604	CSRD70604C
8	32	CSRD70605	CSRD70605C
8	36	CSRD70606	CSRD70606C
10	24	CSRD70607	CSRD70607C
10	32	CSRD70608	CSRD70608C
12	24	CSRD70609	CSRD70609C
12	28	CSRD70610	CSRD70610C
1/4"	20	CSRD70611	CSRD70611C
1/4"	28	CSRD70612	CSRD70612C
5/16"	18	CSRD70613	CSRD70613C
5/16"	24	CSRD70614	CSRD70614C
3/8"	16	CSRD70615	CSRD70615C
3/8"	24	CSRD70616	CSRD70616C
7/16"	14	CSRD70617	CSRD70617C
7/16"	20	CSRD70618	CSRD70618C
1/2"	13	CSRD70619	CSRD70619C
1/2"	20	CSRD70620	CSRD70620C

THREAD SIZE	TPI	STOCK #	
		BULK	CARDED
1-1/2" O.D.			
1/4"	20	CSRD70630	CSRD70630C
1/4"	28	CSRD70631	CSRD70631C
5/16"	18	CSRD70632	CSRD70632C
5/16"	24	CSRD70633	CSRD70633C
3/8"	16	CSRD70634	CSRD70634C
3/8"	24	CSRD70635	CSRD70635C
7/16"	14	CSRD70636	CSRD70636C
7/16"	20	CSRD70637	CSRD70637C
1/2"	13	CSRD70638	CSRD70638C
1/2"	20	CSRD70639	CSRD70639C
9/16"	12	CSRD70640	CSRD70640C
9/16"	18	CSRD70641	CSRD70641C
5/8"	11	CSRD70642	CSRD70642C
5/8"	18	CSRD70643	CSRD70643C
3/4"	10	CSRD70644	CSRD70644C
3/4"	16	CSRD70645	CSRD70645C
2" O.D.			
5/8"	11	CSRD70650	-
5/8"	18	CSRD70651	-
3/4"	10	CSRD70652	-
3/4"	16	CSRD70653	-
7/8"	9	CSRD70654	-
7/8"	14	CSRD70655	-
1"	8	CSRD70656	-
1"	12	CSRD70657	-
1"	14	CSRD70658	-

1 per pack

Card 1 per card

BRITISH STANDARD ROUND ADJUSTABLE PIPE DIES

BSPP STRAIGHT THREAD

FRACTIONAL SIZES

NEW!

TAP SIZE	TPI NC, NF, NS	STOCK #		
		1" O.D.	1-1/2" O.D.	2" O.D.
1/8"	28	BSPD105	-	-
1/4"	19	BSPD107	BSPD157	-
3/8"	19	-	-	BSPD209

1 per pack

UNIVERSAL THREAD FILE



Single Blade Universal Thread File
renews all 60° Threads (also metric)

STOCK # RTF70751

THREAD RESTORING FILES



Features:

- Restores battered, rusted or corroded threads.
- Usable as a thread gauge.
- Sizes clearly marked.
- Overlap good threads to use as a file to restore damaged area.

DESCRIPTION	THREADS	STOCK #
Thread Restoring Files	11, 12, 13, 14, 16, 18, 20 & 24 TPI	TRF01
	9, 10, 12, 16, 20, 27, 28, & 32 TPI	TRF02
External Pipe Files	8, 10, 11-1/2, 14	TRF05
	8, 10, 11-1/2, 14, 18/10, 16, 24, 27	TRF07
Metric Thread Files	.80, 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0	TRF08
Plastic Handles	For Stock # – TRF01, TRF02, TRF07, TRF08	TRF12
4 File Set in Plastic Roll	1 each #1, #2, #7, #8	TRF15P

1 per pack

Tapping Tools & Accessories

T-HANDLE TAP WRENCH

Chrome Plated for
Square Driven Tools:
Taps - Reamers -
Screw Extractors



TH63024

TAP SIZE	OVERALL LENGTH	STOCK #
REGULAR LENGTH		
#0 - 1/4"	2-3/8"	TH63021
1/4" - 1/2"	3-1/4"	TH63024
LONG REACH		
5/32" - 1/4"	12-15/16"	TH63026
1/4" - 1/2"	12-1/16"	TH63027

1 per pack

T-HANDLE TAP WRENCH WITH RATCHET



NEW!

TAP SIZE	OVERALL LENGTH	STOCK #
REGULAR REACH		
#0 - 1/4"	3-3/8"	TH63022R
1/4" - 1/2"	4-3/8"	TH63024R
EXTRA-CAPACITY		
1/2" - 5/8"	4-1/4"	TH63025R
LONG REACH		
5/32" - 1/4"	9-1/2"	TH63022RL
1/4" - 1/2"	11-3/8"	TH63024RL

1 per pack

T-HANDLE TAP WRENCH WITH GUIDE

Features:

- Manually threads straight tap holes without removing the workpiece from the machine.
- Guide spindle inserts into drill press or lathe chuck.
- Tap wrench works its way out of the guide to easily gauge thread depth.



GUIDE

TH65033

TAP SIZE	OVERALL LENGTH	STOCK #
0 - 1/4"	3-1/4"	TH65031
1/4" - 1/2"	4"	TH65032
1/2" - 3/4"	4-1/4"	TH65033

1 per pack

DIE STOCK

DS63002



DSH63008



SIZE	OAL	STOCK #
ROUND		
13/16" OD	6-1/4"	DS63001
1"	9"	DS63002
1-1/2"	14"	DS63003
2"	23"	DS63004
2-1/2"	26"	DS63005
3"	22"	DS63006
4"	29"	DS63007
HEX		
1" A.F.	9"	DSH63008
1-7/16" A.F.	12"	DSH63009

1 per pack

ADJUSTABLE TAP / REAMER WRENCH



#	SIZE CAPACITY	OVERALL LENGTH	STOCK #
#0	#0 - 1/4"	7"	TW63011
#4	#0 - 3/8"	8"	TW63012
#5	#7 - 1/2", 1/8" NPT	11"	TW63013
#6	#7 - 3/4", 1/4" NPT	15"	TW63014
#7	1/4" - 1", 3/4" NPT	17"	TW63015A
#7	1/4" - 1-1/8", 3/4" NPT	19"	TW63015
#7-1/2	1/2" - 1-3/8", 1/4" - 1" NPT	31"	TW63016
#8	3/4" - 1-5/8", 3/8" - 1-1/4" NPT	40"	TW63017

1 per pack

THREAD PITCH GAGES

Features:

- Blades are of a narrow leaf design to permit their use in determining pitch for inside as well as outside screw threads.
- Each blade marked with proper thread size.
- Locking device at each end.



NO. OF BLADES	TPI RANGE	STOCK #
51	4 - 84	TPG63041
28	4 - 80	TPG63042
22	9 - 40	TPG63043
28	0.25 - 2.50 mm	TPG63044

1 per pack

Pitch Gage Range

Unified 60°	51 Blades included: 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82 & 84
Unified 60°	28 Blades included: 4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40, 44, 48, 56, 64, 72 & 80
Unified 60°	22 Blades included: 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38 & 40
Metric Gauge	28 Blades included: .25, .30, .35, .40, .45, .50, .55, .60, .65, .70, .75, .80, .85, .90, 1.00, 1.10, 1.20, 1.25, 1.30, 1.40, 1.50, 1.60, 1.70, 1.75, 1.80, 1.90, 2.00 & 2.50

Screw Extractors

Spiral & Straight Flute Special Alloy Steel

- Features:**
- Manufactured from rugged alloy steel.
 - Ideal for handling the stress of removing broken bolts, studs, socket screws and fittings.
 - Use left hand drill as per chart below followed by screw extractor.

MADE IN
U. S. A.

SPIRAL FLUTE SCREW EXTRACTORS



Tapered, left hand spiral flutes grip screws firmly.

SCREW EXTRACTOR SIZE #	USE DRILL SIZE	REMOTES BOLT / SCREW SIZE	STOCK #	
			BULK	CARDED
1	5/64"	3/32" to 5/32"	SE61701	SE61701C
2	7/64"	5/32" to 7/32"	SE61702	SE61702C
3	5/32"	7/32" to 9/32"	SE61703	SE61703C
4	1/4"	9/32" to 3/8", 1/8" Pipe	SE61704	SE61704C
5	17/64"	3/8", to 5/8", 1/4" Pipe	SE61705	SE61705C
6	13/32"	5/8" to 7/8", 3/8" Pipe	SE61706	SE61706C
7*	17/32"	7/8" to 1-1/8", 1/2" Pipe	SE61707	—
8*	13/16"	1-1/8" to 1-3/8", 3/4" Pipe	SE61708	—
9*	1-1/16"	1-3/8" to 2", 1" Pipe	SE61709	—

Bulk # 1 to 4, 12 per pack
5 to 6, 6 per pack
7 to 9, 1 per pack

* Made in Japan

Card # 1 to 6, 1 per card

SCREW EXTRACTOR SIZE #	USE DRILL SIZE	REMOTES BOLT / SCREW SIZE	STOCK #
1	1/8"	1/4" to 5/16"	SE61721
2	3/16"	3/8"	SE61722
3	15/64"	7/16", 1/8" Pipe	SE61723
4	5/16"	1/2" to 9/16", 1/4" Pipe	SE61724
5	3/8"	5/8", 3/8" Pipe	SE61725
6	15/32"	3/4"	SE61726
7*	9/16"	7/8", 1/2" Pipe	SE61727
8*	21/32"	1" to 1-1/8", 1/2" Pipe	SE61728
9*	13/16"	1-1/4" to 1-3/8", 3/4" Pipe	SE61729

Bulk # 1 to 4, 12 per pack * Made in Japan Card # 1 to 6, 1 per card
5 to 6, 6 per pack
7 to 9, 1 per pack

SPIRAL FLUTE SCREW EXTRACTOR SETS

IN VINYL POUCH



NO. OF PIECES	DESCRIPTION	STOCK #
5 Pc.	Spiral Flute Sizes: 1, 2, 3, 4, 5	SE61715
6 Pc.	Spiral Flute Sizes: 1, 2, 3, 4, 5, 6	SE61716

1 per pack

SPIRAL FLUTED SCREW EXTRACTOR PAIRED WITH HSS LEFT HAND DRILL

ON A HANGUP CARD

No more guesswork! Get the appropriate HSS Left Hand Drill paired with the Screw Extractor.

SCREW EXTRACTOR SIZE #	LEFT HAND DRILL SIZE	STOCK #
#1	5/64"	SE61741C
#2	7/64"	SE61742C
#3	5/32"	SE61743C
#4	1/4"	SE61744C
#5	19/64"	SE61745C
#6	13/32"	SE61746C

1 pair per card



STRAIGHT FLUTE SCREW EXTRACTOR SETS

IN VINYL POUCH



NO. OF PIECES	DESCRIPTION	STOCK #
5 Pc.	Straight Flute Sizes: 1, 2, 3, 4, 5	SE61735
6 Pc.	Straight Flute Sizes: 1, 2, 3, 4, 5, 6	SE61736

1 per pack

10 PC. SPIRAL FLUTE SCREW EXTRACTOR & DRILL SET

IN METAL INDEX CASE



Five most used spiral fluted screw extractors are matched with HSS left hand drills, in a metal index case.

NO. OF PIECES	DESCRIPTION	STOCK #
10 Pcs.	Screw Extractor Sizes: 1, 2, 3, 4, 5 L.H. Drill Sizes: 5/64", 7/64", 5/32", 1/4", 19/64"	SE61747

1 per pack

Tap Extractors



MACHINE SCREW,
FRACTIONAL & METRIC

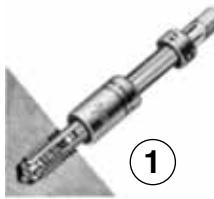
TAP SIZE	STOCK #		
	4-FLUTE	3-FLUTE	2-FLUTE
#4 (3mm)	—	TE10043	TE10042
#5 (1/8") (3.2mm)	—	TE10053	TE10052
#6 (3.5mm)	TE10064	TE10063	TE10062
#8 (4mm)	TE10084	TE10083	TE10082
#10 (3/16") (5mm)	TE10104	TE10103	TE10102
#12 (5.5mm)	TE10124	TE10123	TE10122
1/4" (6mm)	TE10254	TE10253	TE10252
5/16" (8mm)	TE10314	TE10313	TE10312
3/8" (9mm - 10mm)	TE10374	TE10373	TE10372
7/16" (11mm)	TE10434	TE10433	TE10432
1/2" (12mm)	TE10504	TE10503	TE10502
9/16" (14mm)	TE10564	TE10563	—
5/8" (16mm)	TE10624	TE10623	—
11/16" (18mm)	TE10684	—	—
3/4" (20mm)	TE10754	TE10753	—
7/8" (22mm)	TE10874	TE10873	—
1" (25mm)	TE11004	TE11003	—

1 per pack

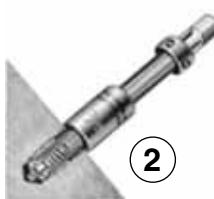
• 4 Flute style normally supplied unless otherwise specified.

- Features:**
- Hardened steel fingers fit in the flutes of broken taps for easy removal.
 - Will not damage threads.
 - Fits both NC and NF taps.

MADE IN
U. S. A.



1. Remove chips. Apply gentle pressure to position extractor fingers in the flutes of the broken tap.



2. Push on the holder to bring it into contact with the broken tap. Slide the sleeve down to make contact with the work.



3. Using a tap wrench, twist the square end of the holder back and forth. Once the tap is loose, back it out of the hole.

Tap Extensions

Special Alloy Steel



STYLE A - 5" OAL

For hand tapping only.

- Features:**
- Manufactured from alloy steel heat treated for strength and durability.
 - Usable for hand tapping in close quarters where it is difficult or impossible to turn a tap wrench.
 - Supplied in paired sets. Each piece 5" long. Pieces may be combined to achieve 10" length extension.

MACHINE SCREW & FRACTIONAL

TAP SIZE	SHANK SQUARE OF TAP	TAP SHANK DIA.	STOCK #
#10 (3/16")	.152 sq.	.154 sq.	TE45010
1/4"	.191 sq.	.193 sq.	TE45025
5/16"	.238 sq.	.242 sq.	TE45031
3/8" (.206 sq.)	.206 sq.	.210 sq.	TE45037
3/8" (.286 sq.)	*.286 sq.	*.290 sq.	TE45038
7/16"	.242 sq.	.246 sq.	TE45043
1/2"	.275 sq.	.279 sq.	TE45050
5/8"	.360 sq.	.364 sq.	TE45062

1 pair per pack

*3/8" (.286 sq.) size is more frequently used than the 3/8" (.206 sq.) size. Specify which is required.

STYLE B - 8" OAL

MADE IN
U. S. A.



For machine and hand tapping.

- Features:**
- Provides easy access for hard-to-reach tapping applications. Small socket end allows the extension to pass through standard liner bushings.
 - Deep socket of the extension and two socket set screws provide a close-fitting, secure hold.
 - Each extension designed for a specific tap size. Square and round sockets available.
 - Suitable for repeated use, unlike special length taps.

MACHINE SCREW & FRACTIONAL

NEW!

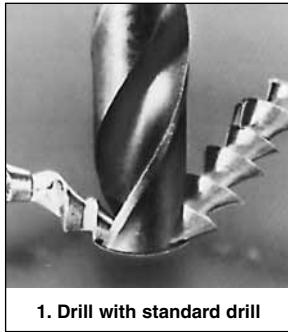
TAP SIZE	SHANK SQUARE OF TAP	TAP SHANK DIA.	SHANK DIA. OF TAP	STOCK #
0-6 8 10 (3/16") 12	.191 sq.	.250 sq.	.142 sq.	TE40006
	.191 sq.	.250 sq.	.169 sq.	TE40008
	.191 sq.	.312 sq.	.195 sq.	TE40010
	.164 sq.	.312 sq.	.220 sq.	TE40012
1/4"	.191 sq.	.375 sq.	.256 sq.	TE40025
5/16"	.237 sq.	.437 sq.	.319 sq.	TE40031
3/8"	.285 sq.	.500 sq.	.382 sq.	TE40037
7/16"	.241 sq.	.500 sq.	.240 sq.	TE40043
1/2"	.274 sq.	.500 sq.	.368 sq.	TE40050
5/8"	.359 sq.	.625 sq.	.481 sq.	TE40062
3/4"	.441 sq.	.750 sq.	.591 sq.	TE40075
7/8"	.522 sq.	.906 sq.	.698 sq.	TE40087
1"	.599 sq.	1.000 sq.	.801 sq.	TE40100

1 per pack

Solid Screw Inserts

Carbon Steel

MADE IN
U. S. A.



1. Drill with standard drill



2. Tap hole with standard tap



3. Turn ALFA LOK home flush with bolt



Prepackaged kits containing a range of sizes are available.

ALFA LOK Inserts will not back out or vibrate loose

Immediately on installation, micro-encapsulated adhesive begins to set, and the newly installed inserts can be fastened within minutes. The adhesive continues to set overnight until completely set. The adhesive seals against all liquids and gases to a pressure of 6,000 psi when fully cured and bonds to virtually all metals.

Easy Removal

Use a standard screw and bolt extractor to back out a damaged insert and then replace it with a new insert. Removal is simply a matter of overcoming the resistance to torque-out which has been produced by the threadlocking material.

COARSE THREAD

INTERNAL THREAD	EXTERNAL THREAD	LENGTH	TAP DRILL SIZE	TAP SIZE	MINIMUM FULL THREAD DEPTH	STOCK #
4-40	10-32	.250	5/32	10-32	9/32	SI67501
6-32	1/4-20	.280	7	1/4-20	11/32	SI67502
8-32	5/16-18	.290	F	5/16-18	7/16	SI67503
10-24	3/8-16	.406	5/16	3/8-16	15/32	SI67504
1/4-20	7/16-14	.437	23/64	7/16-14	1/2	SI67505
5/16-18	1/2-13	.484	27/64	1/2-13	9/16	SI67506
3/8-16	9/16-12	.515	31/64	9/16-12	19/32	SI67507
7/16-14	5/8-11	.656	17/32	5/8-11	23/32	SI67508
1/2-13	3/4-10	.656	21/32	3/4-10	3/4	SI67509
9/16-12	3/4-10	.656	21/32	3/4-10	3/4	SI67510
5/8-11	7/8-9	.687	49/64	7/8-9	13/16	SI67511
5/8-11	7/8-9	1.125	49/64	7/8-9	1-1/4	SI67512
3/4-10	1-8	.781	7/8	1-8	7/8	SI67513
7/8-9	1-1/4 - 7	1.125	1-7/64	1-1/4 - 7	1-1/8	SI67514
1-8	1-3/8 - 12	1.250	1-9/32	1-3/8 - 12	1-3/8	SI67515

FINE THREAD

10-32	3/8-16	.406	5/16	3/8-16	15/32	SI67521
1/4-28	7/16-14	.437	23/64	7/16-14	1/2	SI67522
5/16-24	1/2-13	.484	27/64	1/2-13	9/16	SI67523
3/8-24	9/16-12	.515	31/64	9/16-12	19/32	SI67524
7/16-20	5/8-11	.656	17/32	5/8-11	23/32	SI67525
1/2-20	3/4-10	.656	21/32	3/4-10	3/4	SI67526
9/16-18	3/4-10	.656	21/32	3/4-10	3/4	SI67527
5/8-18	7/8-9	.687	49/64	7/8-9	13/16	SI67528
3/4-16	1-8	.781	7/8	1-8	7/8	SI67529
7/8-14	1-1/4 - 7	1.125	1-7/64	1-1/4 - 7	1-1/8	SI67530
1-14	1-3/8 - 12	1.250	1-9/32	1-3/8 - 12	1-3/8	SI67531

EXTRA HEAVY WALL

1/4-20	1/2-13	.484	27/64	1/2-13	9/16	SI67533
5/16-18	9/16-12	.515	31/64	9/16-12	19/32	SI67534
3/8-16	5/8-11	.656	17/32	5/8-11	23/32	SI67535
1/2-13	7/8-9	.687	49/46	7/8-9	13/16	SI67536
5/8-11	1-8	.781	7/8	1-8	7/8	SI67537

METRIC INSIDE – N. C. OUTSIDE

M6-1.0	3/8-16	.406	5/16	3/8-16	15/32	SIM67541
M8-1.25	1/2-13	.484	27/64	1/2-13	9/16	SIM67542
M10-1.50	9/16-12	.515	31/64	9/16-12	19/32	SIM67543
M10-1.25	9/16-12	.515	31/64	9/16-12	19/32	SIM67544
M12-1.75	3/4-10	.658	21/32	3/4-10	3/4	SIM67545
M14-2.0	7/8-9	.687	49/64	7/8-9	13/16	SIM67546
M16-2.0	1-8	.781	7/8	1-8	7/8	SIM67547

SCREW INSERT KITS

KIT RANGE	CONTENTS				STOCK #	
#10 - 1/2" UNC	10 10-24 10 1 4-20		10 5/16-18 10 3/8-16		6 1 2-13	SI67555
1/2" - 1" UNC		6 1 2 - 13 7 5/8 - 11		7 3/4 - 10 2 1-8		SI67556
#10 - 1/2" UNF	10 10-32 10 1 4-28		10 5/16-24 10 3/8-24		6 1 2-20	SI67557
1/2" - 1" UNF		6-1/2-20 7-5/8 - 18		7 3/4 - 16 2 1-14		SI67558
M8 - M12 METRIC		10 M6-1.0 10 M8-1.25		10 M10-1.5 8 M12-1.75		SIM67559

Bulk up to 1/2", 10 per pack
9/16" to 1", 5 per pack

M6 to M12, 10 per pack
M14 to M16, 5 per pack

Kits 1 per pack
M14 to M16, 5 per pack

Helical Thread Inserts

HELICALLY WOUND STAINLESS STEEL
FOR STRONG THREADS IN WEAK MATERIALS

MADE IN
U. S. A.

COARSE • FINE • PIPE • METRIC • SPARK PLUG SIZES

NC INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
4-40	0.168		TI66210
4-40	0.224	No. 31	TI66210B
6-32	0.207		TI66212
6-32	0.276	No. 25	TI66212B
8-32	0.246		TI66214
8-32	0.328	11/64	TI66214B
10-24	0.285		TI66216
10-24	0.380	13/64	TI66216B
1/4"-20	0.375		TI66220
1/4"-20	0.500	17/64	TI66220B
5/16"-18	0.468		TI66222
5/16"-18	0.624	21/64	TI66222B
3/8"-16	0.563		TI66224
3/8"-16	0.750	25/64	TI66224B
7/16"-14	0.657		TI66226
7/16"-14	0.876	29/64	TI66226B
1/2"-13	0.750		TI66228
1/2"-13	1.000	17/32	TI66228B
5/8"-11	0.938		TI66230
5/8"-11	1.250	21/32	TI66230B
3/4"-10	1.125		TI66232
3/4"-10	1.500	25/32	TI66232B
7/8"-9	1.313		TI66234
7/8"-9	1.750	29/32	TI66234B
1"-8	1.500		TI66236
1"-8	2.000	1-1/32	TI66236B

NF INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
4-48	0.168		TI66211
4-48	0.224	No. 31	TI66211B
6-40	0.207		TI66213
6-40	0.276	No. 26	TI66213B
8-36	0.246		TI66215
8-36	0.328	11/64	TI66215B
10-32	0.285		TI66217
10-32	0.380	13/64	TI66217B
1/4"-28	0.375		TI66221
1/4"-28	0.500	17/64	TI66221B
5/16"-24	0.468		TI66223
5/16"-24	0.624	21/64	TI66223B
3/8"-24	0.563		TI66225
3/8"-24	0.750	25/64	TI66225B
7/16"-20	0.657		TI66227
7/16"-20	0.876	29/64	TI66227B
1/2"-20	0.750		TI66229
1/2"-20	1.000	33/64	TI66229B
5/8"-18	0.938		TI66233
5/8"-18	1.250	41/64	TI66233B
3/4"-16	1.125		TI66235
3/4"-16	1.500	49/64	TI66235B
7/8"-14	1.313		TI66237
7/8"-14	1.750	57/64	TI66237B
1"-12	1.500		TI66239
1"-12	2.000	1-1/64	TI66239B
1"-14	1.500		TI66241
1"-14	2.000	1-1/64	TI66241B

10 per pack

Alfa Tools inserts are made of stainless steel with diamond cross section. They are interchangeable with Helicoil and all other brands.



APPLICATIONS:

- Repairs damaged threaded holes.
- Reinforces threads which may be subject to failure.
- Usable on cast iron, steel, copper, aluminum, zinc, magnesium, most plastic compounds & wood.
- Meets or exceeds most applicable specifications, including MS122076 series, 124651 series, 21208, 21209, 33537, mll-1 8846 and mll-F-5577.
- Easy way to change from inch to metric threads.
- Provides stronger more efficient threads.

STI TAPS
NC / NF / METRIC
See Page B41

NPT INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
1/8"- 27	0.188	3/8	TI66340
1/4"- 18	0.375	33/64	TI66341
3/8"- 18	0.668	21/32	TI66342
1/2"- 14	0.750	13/16	TI66343
3/4"- 14	1.125	1-1/64	TI66344
1"- 11-1/2	1.500	1-9/32	TI66345

10 per pack

METRIC COARSE INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
M6-1	9.00	6.3	TI66243
M6-1	12.00		TI66243B
M8-1.25	12.00		TI66244
M8-1.25	16.00	8.3	TI66244B
M10-1.5	15.00		TI66247
M10-1.5	20.00	10.4	TI66247B
M12-1.75	18.00		TI66250
M12-1.75	24.00	12.5	TI66250B
M14-2	21.00		TI66252
M14-2	28.00	14.5	TI66252B
M16-2	24.00		TI66254
M16-2	32.00	16.5	TI66254B
M18-2.5	27.00		TI66256
M18-2.5	36.00	18.8	TI66256B
M20-2.5	30.00		TI66258
M20-2.5	40.00	20.8	TI66258B
M22-2.5	33.00		TI66260
M22-2.5	44.00	22.8	TI66260B
M24-3	36.00		TI66262
M24-3	48.00	24.8	TI66262B

METRIC FINE INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
M8-1	12.00	8.3	TI66263
M8-1	16.00		TI66263B
M10-1.25	15.00		TI66265
M10-1.25	20.00	10.3	TI66265B
M10-1	15.00		TI66267
M10-1	20.00	10.3	TI66267B
M12-1.25	18.00		TI66271
M12-1.25	24.00	12.3	TI66271B
M12-1.5	18.00		TI66269
M12-1.5	24.00	12.3	TI66269B
M14-1.5	21.00		TI66273
M14-1.5	28.00	14.3	TI66273B
M16-1.5	24.00		TI66275
M16-1.5	32.00	16.5	TI66275B
M18-2	27.00		TI66277
M18-2	36.00	18.5	TI66277B
M18-1.5	27.00		TI66279
M18-1.5	36.00	18.5	TI66279B
M20-2	30.00		TI66281
M20-2	40.00	20.5	TI66281B
M20-1.5	30.00		TI66283
M20-1.5	40.00	20.5	TI66283B
M22-2	33.00		TI66285
M22-2	44.00	22.5	TI66285B
M22-1.5	33.00		TI66287
M22-1.5	44.00	22.5	TI66287B
M24-2	36.00		TI66289
M24-2	48.00	24.5	TI66289B

SPARK PLUG INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
M10-1	0.339	10.3	TI66290
M10-1	1/2"		TI66290A
M12-1.25	1/2"		TI66291
M12-1.25	3/4"	12.3	TI66291B
M14-1.25	3/8"		TI66293
M14-1.25	0.472		TI66293A
M14-1.25	7/16"	14.25	TI66293B
M14-1.25	1/2"		TI66293C
M14-1.25	3/4"		TI66293D
M18-1.5	1/2"	18.5	TI66294

10 per pack

Helical Thread Inserts

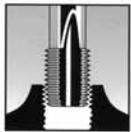
Helical Thread Repair Kits

How to use Insert-A-Thread

MADE IN
U. S. A.



1. DRILL
Drill to clear out the damaged thread (if necessary).



2. TAP
Thread with STI tap supplied with the kit.



3. INSTALL
Wind insert in with light downward pressure until 1/4 to 1/2 turn below the surface, driving tang towards the bottom of the hole.



4. TANG REMOVAL
Remove tool and place back on top of tang. Tap down on tool sharply. Do not try to twist tang off. For spark plug and large fine thread inserts, use long nose pliers and pull tang out.

Helical Thread Repair Kits

B

NC REPAIR KITS

SIZE	INSERT LENGTH	NO. OF INSERTS	STOCK #
4-40	0.168	10	TI66210K
6-32	0.207	10	TI66212K
8-32	0.246	10	TI66214K
10-24	0.285	10	TI66216K
1/4"- 20	0.375	10	TI66220K
5/16"- 18	0.468	5	TI66222K
3/8"- 16	0.563	5	TI66224K
7/16"- 14	0.657	5	TI66226K
1/2"- 13	0.750	5	TI66228K
5/8"- 11	0.938	5	TI66230K
3/4"- 10	1.125	5	TI66232K
7/8"- 9	1.313	5	TI66234K
1"- 8	1.500	5	TI66236K

NF REPAIR KITS

SIZE	INSERT LENGTH	NO. OF INSERTS	STOCK #
4-48	0.168	10	TI66211K
6-40	0.207	10	TI66213K
8-36	0.246	10	TI66215K
10-32	0.285	10	TI66217K
1/4"- 28	0.375	10	TI66221K
5/16"- 24	0.468	5	TI66223K
3/8"- 24	0.563	5	TI66225K
7/16"- 20	0.657	5	TI66227K
1/2"- 20	0.750	5	TI66229K
5/8"- 18	0.938	5	TI66233K
3/4"- 16	1.125	5	TI66235K
7/8"- 14	1.313	5	TI66237K
1"- 12	1.500	5	TI66239K
1"- 14	1.500	5	TI66241K

1 kit per pack

METRIC COARSE REPAIR KITS

SIZE	INSERT LENGTH	NO. OF INSERTS	STOCK #
M6-1	9.00	10	TI66243K
M8-1.25	12.00	5	TI66244K
M10-1.5	15.00	5	TI66247K
M12-1.75	18.00	5	TI66250K
M14-2	21.00	5	TI66252K
M16-2	24.00	5	TI66254K
M18-2.5	27.00	5	TI66256K
M20-2.5	30.00	5	TI66258K
M22-2.5	33.00	5	TI66260K
M24-3	36.00	5	TI66262K

METRIC FINE REPAIR KITS

SIZE	INSERT LENGTH	NO. OF INSERTS	STOCK #
M8-1	12.00	5	TI66263K
M10-1.25	15.00	5	TI66265K
M10-1	15.00	5	TI66267K
M12-1.5	18.00	5	TI66269K
M12-1.25	18.00	5	TI66271K
M14-1.5	21.00	5	TI66273K
M16-1.5	24.00	5	TI66275K
M18-2	27.00	5	TI66277K
M18-1.5	27.00	5	TI66279K
M20-2	30.00	5	TI66281K
M20-1.5	30.00	5	TI66283K
M22-2	33.00	5	TI66285K
M22-1.5	33.00	5	TI66287K
M24-2	36.00	5	TI66289K

NPT REPAIR KITS

NEW!

SIZE	INSERT LENGTH	NO. OF INSERTS	STOCK #
1/8"- 27	0.188	10	TI65000K
1/4"- 18	0.375	10	TI65001K
3/8"- 18	0.668	5	TI65002K
1/2"- 14	0.750	5	TI65003K
3/4"- 14	1.125	5	TI65004K
1"- 11-1/2	1.500	5	TI65005K

SPARK PLUG REPAIR KITS

M10-1	1/2"	10	TI66290K
M12-1.25	1/2"	10	TI66291BK
	3/4"	10	TI66291AK
M14-1.25	3/8"	5	TI66293K
	3/4"	5	TI66293DK
M18-1.5	1/2"	5	TI66294K



Each Kit Includes:
Inserts, Insertion
Tool & STI Tap

UNC RANGE



SIZE	INSERT LENGTH	INSERTS PER KIT	STOCK #
1/4"- 20	0.375	10	
5/16"- 18	0.468	5	TIK66597
3/8"- 16	0.563	5	
7/16"- 14	0.657	5	
1/2"- 13	0.750	5	

UNF RANGE

SIZE	INSERT LENGTH	INSERTS PER KIT	STOCK #
1/4"- 28	0.375	10	
5/16"- 24	0.468	5	
3/8"- 24	0.563	5	TIK66598
7/16"- 20	0.657	5	
1/2"- 20	0.750	5	

METRIC RANGE

SIZE	INSERT LENGTH	INSERTS PER KIT	STOCK #
M6-1	9.00	5	
M8-1	12.00	5	
M8-1.25	12.00	5	TIK66599
M10-1.5	15.00	5	
M12-1.75	18.00	5	

INSTALLATION TOOLS



UNC THREADS

THREAD SIZE	STOCK #
4-40	TI66314
6-32	TI66315
8-32	TI66316
10-24	TI66317
1/4"- 20	TI66318
5/16"- 18	TI66319
3/8"- 16	TI66320
7/16"- 14	TI66321
1/2"- 13	TI66322
5/8"- 11	TI66323
3/4"- 10	TI66324
7/8"- 9	TI66325
1"- 8	TI66326

1 per pack

UNF THREADS

THREAD SIZE	STOCK #
4-48	TI66314
6-40	TI66315
8-36	TI66316
10-32	TI66317
1/4"- 28	TI66318
5/16"- 24	TI66328
3/8"- 24	TI66329
7/16"- 20	TI66321
1/2"- 20	TI66322
5/8"- 18	TI66323
3/4"- 16	TI66330
7/8"- 14	TI66325
1"- 12	TI66326
1"- 14	TI66326

METRIC COARSE THREADS

THREAD SIZE	STOCK #
M6-1	TI66318
M8-1.25	TI66328
M10-1	TI66329
M12-1.5	TI66322
M14-2	TI66331
5/16"- 24	TI66328
3/8"- 24	TI66324
7/16"- 20	TI66330
1/2"- 20	TI66322
5/8"- 18	TI66326

METRIC FINE THREADS

THREAD SIZE	STOCK #
M8-1	TI66328
M10-1.25	TI66329
M10-1	TI66329
M12-1.5	TI66322
M12-1.25	TI66322
M14-1.25S/P	TI66332
M14-1.5	TI66332
M16-1.5	TI66323
M18-2	TI66324
M18-1.5	TI66324
3/4"- 16	TI66326
1"- 11-1/2	TI66334

NPT THREADS

THREAD SIZE	STOCK #
1/8"- 27	TI66329
1/4"- 18	TI66331
3/8"- 18	TI66323
1/2"- 14	TI66325
3/4"- 14	TI66333
1"- 11-1/2	TI66334
1/2"- 20	TI66330
M20-1.5	TI66330
M22-2	TI66325
M22-1.5	TI66325
M24-2	TI66326

Screw Thread Insert (STI) Taps

Premium High-Speed Steel

Special Taps For Helical Coil Thread Inserts (Plug Style)

MADE IN
U. S. A.

- Features:**
- Can be used by hand or under power.
 - Produces threads to accommodate helical screw thread inserts.
 - General purpose over size taps



INCH SIZES

STI SIZE	DRILL SIZE	STOCK #
MACHINE SCREW SIZES		
4 - 40	#31	ST66507
4 - 48	#31	ST66508
5 - 40	#28	ST66509
6 - 32	#25	ST66511
6 - 40	#25	ST66512
8 - 32	11/64"	ST66513
8 - 36	#17	ST66514
10 - 24	13/64"	ST66515
10 - 32	13/64"	ST66516
12 - 24	#1	ST66517
FRACTIONAL		
1/4" - 20	17/64"	ST66530
1/4" - 28	17/64"	ST66531
5/16" - 18	21/64"	ST66532
5/16" - 24	21/64"	ST66533
3/8" - 16	25/64"	ST66534
3/8" - 24	25/64"	ST66535
7/16" - 14	29/64"	ST66536
7/16" - 20	29/64"	ST66537
1/2" - 13	17/32"	ST66538
1/2" - 20	33/64"	ST66539
5/8" - 11	21/32"	ST66542
5/8" - 18	41/64"	ST66542A
3/4" - 10	25/32"	ST66546
3/4" - 16	49/64"	ST66547
7/8" - 9	29/32"	ST66548
7/8" - 14	57/64"	ST66548A
1" - 8	1-1/32"	ST66549
1" - 12	1-1/64"	ST66549A
1" - 14	1-1/64"	ST66549B

1 per pack

METRIC

STI SIZE	DRILL SIZE	STOCK #
M5 x .8	5.2	ST66550
M6 x 1.0	6.3	ST66551
M8 x 1.0	8.3	ST66552A
M8 x 1.25	8.3	ST66552
M9 x 1.25	9.25	ST66553
M10 x 1.0	10.3	ST66554A
M10 x 1.25	10.3	ST66554
M10 x 1.50	10.4	ST66555
M11 x 1.25	11.00	ST66556
M11 x 1.50	11.00	ST66557
M12 x 1.25	12.2	ST66558
M12 x 1.50	12.25	ST66559
M12 x 1.75	12.50	ST66560
M14 x 1.25	14.30	ST66561A
M14 x 1.50	14.30	ST66561
M14 x 2.0	14.50	ST66562
M16 x 1.50	16.25	ST66563
M16 x 2.00	16.50	ST66564
M18 x 1.50	18.25	ST66565
M18 x 2.0	18.50	ST66566A
M18 x 2.50	18.50	ST66566
M20 x 1.50	20.25	ST66567
M20 x 2.0	20.50	ST66568A
M20 x 2.50	20.50	ST66568
M22 x 1.50	22.50	ST66569
M22 x 2.0	22.50	ST66570
M22 x 2.5	22.50	ST66571A
M24 x 2.0	24.25	ST66571
M24 x 3.0	24.75	ST66572

1 per pack

Screw Thread Insert (STI) Taps

B



TAPER PIPE TAPS (NPT)

NEW!

STI SIZE	DRILL SIZE	DECIMAL EQUIV.	STOCK #
FRACTIONAL			
1/8" - 27	Q	0.3320	STNPT66591
1/4" - 18	7/16	0.4375	STNPT66592
3/8" - 18	9/16	0.5625	STNPT66593
1/2" - 14	45/64	0.7031	STNPT66594
3/4" - 14	29/32	0.9062	STNPT66595
1" - 11-1/2	1-9/64	1.1406	STNPT66596

1 per pack

Tap & Die Sets



Available in Fractional, Metric or Combination Sets

NC = Coarse NF = Fine NPT = Pipe MM = Metric



TDS66012NPT

12 PC. PIPE TAP & RETREADING HEXAGON DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66012NPT	HIGH CARBON	12	6 NPT Pipe Taps, and 6 NPT Rethreading Hexagon Dies

Size and threads per inch (NPT sizes)
1/8-27, 1/4-18, 3/8-18, 1/2-14, 3/4-14, 1-11-1/2



TDS66006NPT

6 PC. PIPE TAP SET

IN WOOD CASE

NEW!

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66006NPT	HIGH CARBON	6	6 NPT Pipe Taps

Size and threads per inch (NPT sizes)
1/4-18, 3/8-18, 1/2-14, 3/4-14, 1-11-1/2, 1-1/4-1-1/2



TDS66012

12 PC. TAP & ADJ. ROUND DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66012	HIGH CARBON	12	5 Plug Taps, 5 Adj. 1" O.D. Round Dies, 1 Die Stock 1" O.D. and 1 T-Handle Tap Wrench 1/8" - 1/2"

Size and threads per inch (Fractional sizes)
NC 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13



TDS66022

22 PC. TAP & ADJ. ROUND DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66022	HIGH CARBON	22	10 Plug Taps, 10 Adj. 1" O.D. Round Dies, 1 Die Stock 1" O.D. and 1 T-Handle Tap Wrench 1/8" - 1/2"

Size and threads per inch (Fractional sizes)
NC 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13
NF 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20

Tap & Die Sets - Cont.

Available in Fractional, Metric or Combination Sets

NC = Coarse NF = Fine NPT = Pipe MM = Metric



TDS24MC

24 PC. METRIC TAP & ADJ. ROUND DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS24MC	HIGH CARBON	24	11 Plug Taps, 11 Adj. 2" O.D. Round Dies, 1 Die Stock 2" O.D. and 1 Adj. Tap Wrench
TDS24MH	HIGH-SPEED	24	

Metric sizes: M6 - M20, 1 each tap, 1 each die
6mm x 1.00, 7 x 1.00, 8 x 1.25, 9 x 1.25, 10 x 1.50, 11 x 1.50,
12mm x 1.75, 14 x 2.00, 16 x 2.00, 18 x 2.50, 20 x 2.50



TDS40H (HSS)

40 PC. POPULAR MECHANIC'S TAP & DIE SETS – SAE OR METRIC

WITH HEXAGON DIES IN A DOUBLE TRAY PLASTIC CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
NEW! TDS40C (SAE)	HIGH CARBON	40	17 Plug Taps, 17 - 1" Hexagon Dies, 1 Hexagon Die Stock 1", 2 T Handle Tap Wrenches: 0 to 1/4" & 1/4" to 1/2", 1 Adjustable Tap Wrench 0 - 1", 1 Screwdriver and 1 Pitch Gauge.
NEW! TDS40CM (METRIC)	HIGH CARBON	40	
NEW! TDS40H (HSS)	HIGH-SPEED	40	

SAE Set size and threads per inch (Machine Screw & Fractional sizes)
NC 4-40, 6-32, 8-32, 10-24, 12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13
NF 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20
NPT 1/8-27

Metric Tap and Die sizes

3mm-0.5	4mm-0.75	6mm-0.75	7mm-0.75	10mm-1.25	12mm-1.75
3mm-0.6	5mm-0.8	6mm-1.00	8mm-1.00	10mm-1.50	1/8" Pipe Tap
4mm-0.7	5mm-0.9	7mm-1.00	8mm-1.25	12mm-1.50	



TDS66045C

45 PC. TAP & DIE SET – METRIC

WITH ADJUSTABLE SPLIT ROUND DIES IN A METAL CASE

NEW!

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66045C	HIGH CARBON TOOL STEEL	45	20 Plug Taps, 20 Adj. Round Dies, 2 Die Stock 1" & 2" O.D., 2 Tap Wrenches: #5, #7, 1 Screwdriver.

Metric Tap (Plug) and Die sizes

6mm-1.00	10mm-1.50	14mm-2.00	18mm-2.25	22mm-2.25
6mm-0.75	10mm-1.25	14mm-1.50	18mm-1.50	22mm-1.50
8mm-1.25	12mm-1.75	16mm-2.00	20mm-2.50	24mm-3.00
8mm-1.00	12mm-1.50	16mm-1.50	20mm-1.50	24mm-1.50

Tap & Die Sets - Cont.

Available in Fractional or Combination Sets

NC = Coarse NF = Fine NPT = Pipe MM = Metric



TDS66064H

64 PC. SUPER TAP AND DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66064H	HIGH SPEED	64	28 Plug Taps with: 17 Adjustable 1" O.D. Round Dies, 7 Adjustable 1-1/2" O.D. Round Dies, 4 Adjustable 2" O.D. Round Dies, 3 Die Stocks: 1" O.D., 1-1/2" O.D. and 2" O.D., 1 T-Handle Tap Wrench #0-1/4, 2 Adjustable Tap Wrenches: 1/16-1/2" and 1/4-1 1/8", 1 Screw Driver & 1 Screw Pitch Gauge
TDS66064C	HIGH CARBON	64	Size and threads per inch (Machine Screw & Fractional sizes) NC 4-40, 6-32, 8-32, 10-24, 12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10, 7/8-9, 1-8 NF 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16, 7/8-14, 1-14(NS) NPT 1/8-27, 1/4-18

Tap & Die Sets

B



TDS66060

60 PC. COMBINATION SAE & METRIC SET

WITH HEXAGON DIES IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66060	HIGH CARBON	60	17 Plug Taps & Hexagon Dies SAE 10 Plug Taps & Hexagon Dies METRIC Hexagon Die stock 1", T-Handle Tap Wrench, Adjustable Tap Wrench 0-1", Screw Driver, Thread Gauge Inch & Metric. Size and threads per inch (Machine Screw, Fractional & Metric sizes) SAE NC 4-40, 6-32, 8-32, 10-24, 12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13 NF 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20 NPT 1/8-27 Metric 3mm-0.5, 4mm-0.7, 5mm-0.8, 6mm-1.0, 7mm-1.0, 8mm-1.25, 9mm-1.25, 10mm-1.5, 10mm-1.0, 12mm-1.75



TDS66110

110 PC. TAP & DIE SET - SAE & METRIC

WITH ROUND DIES IN A METAL CASE

NEW!

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66110	HIGH CARBON ALLOY STEEL	110	24 Plug Taps & Dies SAE, 2 Plug Taps & Dies NPT, 9 Plug Taps & Dies METRIC, 2 Die Stocks 1", 1-1/2" O.D., 2 Tap Wrenches #6 and #8, T-Handle Tap Wrench, Taps: Taper & Bottoming Chamfer (70 Pcs.) Dies: (35 Pcs.) Size and threads per inch (NC, NF, NPT & Metric sizes) SAE NC 4-40, 6-32, 8-32, 10-24, 12-24, 1/4-20, 1/4-24, 1/4-32, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10 NF 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16 NPT 1/8-27, 1/4-18 Metric 6mm-1.0, 8mm-1.25, 10mm-1.5, 10mm-1.0, 11mm-1.5, 12mm-1.25, 12mm-1.75, 14mm-1.25, 18mm-1.5

Hexagon Rethreading Dies Sets In Wood Cases

High Carbon Steel



TDS5C



TDS8C



TDS20

RIGHT HAND DIE SET

1 die each size

NO. OF PIECES	DESCRIPTION	STOCK #
5 pc.	NC - 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13	TDS5C
5 pc.	NF - 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20	TDS5F
8 pc.	NC - 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10	TDS8C
8 pc.	NF - 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16	TDS8F
10 pc.	NC - 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10, 7/8-9, 1-8	TDS10C
10 pc.	NF - 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16, 7/8-14, 1-12	TDS10F
20 pc.	NC/NF - 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 9/16-12, 9/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 7/8-9, 7/8-14, 1-8, 1-12	TDS20

LEFT HAND DIE SET

1 die each size

NO. OF PIECES	DESCRIPTION	STOCK #
5 pc.	NC - 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13	TDS5LC
5 pc.	NF - 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20	TDS5LF
8 pc.	NC - 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10	TDS8LC
8 pc.	NF - 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16	TDS8LF
10 pc.	NC - 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10, 7/8-9, 1-8	TDS10LC
10 pc.	NF - 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16, 7/8-14, 1-12	TDS10LF
20 pc.	NC/NF - 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 9/16-12, 9/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 7/8-9, 7/8-14, 1-8, 1-12	TDSL20

Tap & Drill Sets

18 Pc. Tap & Drill Index Sets High-Speed & Carbon Steel Inch or Metric

In Metal Case
NC or NF Threads



Features:

- Organized in a durable metal case.
- Fits conveniently in any toolbox.
- Isolates each tap and drill.
- Prevents chipping.
- Permits easy selection.

HSS TAPS WITH HSS DRILLS

DESCRIPTION	STOCK #	
	ALFA USA	ECO PRO
NC Plug Taps with Jobber Drills Contains 1 ea. 6-32 tap #36 drill 8-32 #29 10-24 #25 10-32 #21 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64"	TDSH118C	TDSH218C
NC HSS Plug Taps with Blitz Bit Drills Contains 1 ea. 6-32 tap #36 drill 8-32 #29 10-24 #25 10-32 #21 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64"	TDSBB18NC	—
NF Plug Taps with Jobber Drills Contains 1 ea. 6-40 tap #33 drill 8-36 #29 10-24 #25 10-32 #21 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64	TDSH118F	TDSH218F
NF HSS Plug Taps with Blitz Bit Drills Contains 1 ea. 6-40 tap #33 drill 8-36 #29 10-24 #25 10-32 #21 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64	TDSBB18NF	—
Metric Plug Taps with Jobber Drills Contains 1 ea. M2.5 x .45 #46 drill M3.0 x .50 #39 M3.5 x .60 #32 M4.0 x .70 #30 M5.0 x .80 #19 M6.0 x 1.0 #8 M8.0 x 1.25 H M10.0 x 1.50 Q M12.0 x 1.75 13/32	TDSH118M	TDSH218M

HIGH CARBON TAPS WITH HSS DRILLS

DESCRIPTION	STOCK #	
	ECO PRO	
NC Taps with Jobber Drills Contains 1 each 6-32 tap #36 drill 8-32 #29 10-24 #25 10-32 #21 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64"	TDSC218C	
NF Taps with Jobber Drills Contains 1 each 6-40 tap #33 drill 8-36 #29 10-24 #25 10-32 #21 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64	TDSC218F	

36 Pc. Tap & Drill Combination Index Sets

In Metal Case
NC & NF Threads



HSS TAPS & HSS DRILLS

DESCRIPTION	STOCK #	
	ALFA USA	ECO PRO
NC/NF Plug Taps with Jobber Drills Contains 1 each NC 6-32 tap #36 drill 8-32 #29 10-24 #25 12-24 #16 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64 and	TDSH136	TDSH236
NF 6-40 tap #33 drill 8-36 #29 10-32 #21 12-28 #15 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64		

HIGH CARBON TAPS & HSS DRILLS

DESCRIPTION	STOCK #	
	ECO PRO	
NC/NF Plug Taps with Jobber Drills Contains 1 each NC 6-32 tap #36 drill 8-32 #29 10-24 #25 12-24 #16 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64 and	TDSC236	
NF 6-40 tap #33 drill 8-36 #29 10-32 #21 12-28 #15 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64		



• ALFA USA taps and drills are manufactured in the United States.

• ECO PRO taps and drills are made outside the United States to ALFA TOOL'S specifications.



Tap Sets

High-Speed & Carbon Steel Inch or Metric

**In Metal Case
NC or NF Threads**

Features:

- Organized in a durable metal case.
- Fits conveniently in any toolbox.
- Isolates each tap.
- Prevents chipping.
- Permits easy selection.

HAND TAP SETS

Expanded

NO. OF PIECES	DESCRIPTION	STOCK #	
		ALFA USA	ECO PRO
HIGH-SPEED STEEL TAP SETS			
10 pc.	Machine Screw & Fractional Plug Taps, 1 size each: 4-40NC, 6-32NC, 8-32NC, 10-24NC, 10-32NF, 1/4-20NC, 5/16-18NC, 3/8-16NC, 1/2-13NC, 5/8-11NC	TDS66010	TDS266010
10 pc.	Metric Plug Taps, 1 size each: 3 x .5, 3.5 x .6, 4 x .7, 4.5 x .75, 5 x .8, 6 x 1.0, 8 x 1.25, 10 x 1.5, 12 x 1.75, 16 x 2.0	TDS66011	TDS266011
10 pc.	Fractional Plug Taps, 1 size each: 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20	TDS66013	TDS266013
16 pc.	Machine Screw & Fractional Plug Taps, 1 size each: 1/2-20, 1/2-13, 7/16-20, 7/16-14, 3/8-24, 3/8-16, 5/16-24, 5/16-18, 1/4-28, 1/4-20, 12-28, 12-24, 10-32, 10-24, 8-32, 6-32	TDS66016	TDS266016
19 pc.	Machine Screw Plug Taps, 1 size each: 0-80, 1-64, 1-72, 2-56, 2-64, 3-48, 3-56 4-40, 4-48, 5-40, 5-44, 6-32, 6-40, 8-32 8-36, 10-24, 10-32, 12-24, 12-28	TDS66019	TDS266019
CARBON STEEL SETS			
10 pc.	Machine Screw & Fractional Plug Taps, 1 size each: 4-40, 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 1/2-13, 5/8-11	—	TDS266014
10 pc.	Fractional Plug Taps, 1 size each: 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20	—	TDS266015



TDS66010



TDS66016



HST70362



HSS TAP BIT SET WITH QUICK CHANGE CHUCK			
13 pc.	Machine Screw & Fractional Plug Taps, 1 size each: 3/8-24, 5/16-24, 1/4-28, 10-32, 8-36, 6-40, 3/8-16, 5/16-18, 1/4-20, 10-24, 8-32, 6-32, and one 1/4" Quick Change Chuck	—	HST70362



1/4" hex shanks are designed for use in power tools with quick change chucks and adapters.



• ALFA USA taps are manufactured in the United States.

• ECO PRO taps are made outside the United States to ALFA TOOL'S specifications.



Tap Sets

B

Tap Dispenser Cabinets

TOOLS NOT INCLUDED

MADE IN
U. S. A.

Features:

- Cost effective tool management & storage.
- Heavy gauge steel cabinets and drawers with vinyl dividers.
- Stackable models with full drawer extensions.
- Baked epoxy finish for long life.

TAP DISPENSER CABINETS

Dimensions: 14-5/8" W x 7-3/8" D x 7-3/4" H

DESCRIPTION	WEIGHT	STOCK #
FOR MACHINE SCREW SIZES 2-56 12-28 Five Drawers	13 lbs.	DIHTMS13550
FOR FRACTIONAL SIZES 1/4"-20 1-14 Three Drawers	10.5 lbs.	DIHTF13500
FOR METRIC SIZES 3mm - 24mm Three Drawers	10.5 lbs.	DIHTM13575



Tap Dispenser Machine Screw Sizes
DIHTMS13550

Fractional Sizes
DIHTMF13500

Metric Taps
DIHTM13575

Stackable
(Not Lockable)

MASTER TAP DISPENSER

(Four Drawers)

Dimensions: 26" W x 12" D x 12-1/2" H

DESCRIPTION	WEIGHT	STOCK #
Holds NC/NF sizes in taper, plug and bottoming chamfer Machine screw sizes 2-56 to 12-28 Fractional sizes 1/4"-20 to 1"-14 Lockable	50 lbs.	DIHTM13580



Master Tap Dispenser
DIHTM13580
(Lockable)
with ball bearing slides

TAP & DRILL DISPENSER

(Three Drawers)

Dimensions: 14-5/8" W x 7-3/8" D x 7-3/4" H

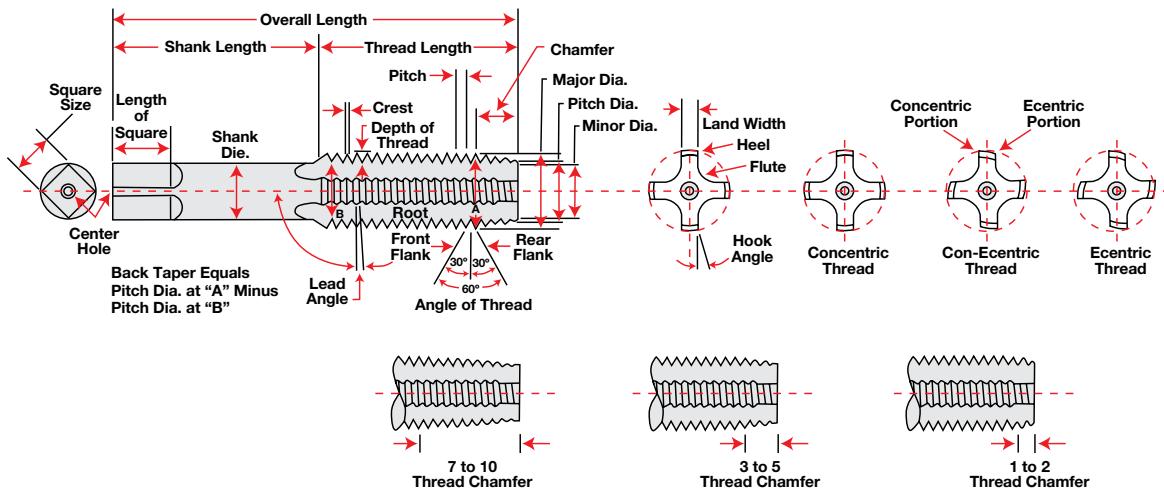
- Stores and organizes correct tap drill with corresponding tap.
- Holds 1 doz. (min.) of each size.

DESCRIPTION		WEIGHT	STOCK #
Tap Drill	Tap Drill	Tap Drill	
6-32 #36	1/4"-28 #3	7/16"-14 U	
8-32 #29	5/16"-18 F	7/16"-20 25/64"	
10-24 #25	5/16"-24 I	1/2"-13 27/64"	
10-32 #21	3/8"-16 5/16"	1/2"-20 29/64"	
1/4"-20 #7	3/8"-24 Q		



Tap & Drill Dispenser
DIHT13590
(Not Lockable)

Tap Terminology



Angle of Thread: The angle included between the flanks of the thread, measured in an axial plane.

Back Taper: A slight axial relief of the tap that makes the pitch diameter of the thread near the shank slightly smaller than the pitch diameter of the thread near the chamfered end.

Basic: The theoretical or nominal standard size from which all variations are made.

Chamfer: The tapering of the threads at the front end of each land. Done by cutting away and relieving the crest of the first few teeth, which distributes the cutting action over several teeth. When the tapering amounts to 7 to 10 threads, the tap is called a "taper" tap; 3 to 5 threads is called a "plug" tap; and 1 to 2 threads is called a "bottoming" tap.

Chamfer Relief: The gradual decrease in height of the lands from cutting edge to heel on the chamfered portion. Provides clearance for the cutting action as the tap advances.

Crest: The top surface joining the two flanks of a thread. The crest of an external thread is at its major diameter, while the crest of an internal thread is at its minor diameter.

Cutting Face: The leading side of the land in the direction of rotation for cutting, on which the chip impinges.

Dryseal: A pipe threaded fuel connection designed for use where the assembled product must withstand high fluid or gas pressures without the use of a sealing compound. Suitable for both external and internal applications.

Flutes: Longitudinal channels formed in a tap to create cutting edges on the thread profile. Provides chip spaces and cutting fluid passages.

Height of Thread: The distance between the crest and the base of a thread, measured normal to the axis.

Helical Flute: A flute with uniform axial lead and constant helix in a helical path around the axis of a cylindrical tap.

Hook Face: A concave cutting face. Usually specified either as chordal hook or tangential hook.

Chordal Hook Angle: The angle between the chord passing through the root and crest of a thread at the cutting face and a radial line through the crest at the cutting edge.

Tangential Hook Angle: The angle between a line tangent to a hook cutting face at the cutting edge and a radial line to the same point.

Interrupted Thread: A tap with an odd number of lands. Every other tooth along the thread helix is removed.

Lead: The distance a screw thread advances axially in one complete turn. On a single lead screw or tap, the lead and pitch are identical. On a double lead screw or tap, the lead is twice the pitch, and so on for higher lead screws or taps.

Pitch: The distance from any point on a screw or tap thread to a corresponding point on the next thread, measured parallel to the axis. The pitch equals on divided by the number of threads per inch.

Pitch Diameter: On straight threads, the pitch diameter is the diameter of an imaginary coaxial cylinder. The surface of this cylinder would pass through the thread profile at points which would make the width of threads and the width of the spaces cut by the surface of the cylinder equal. On taper threads, the pitch diameter is the diameter at a given distance from a reference plane perpendicular to the axis of an imaginary coaxial cone. The surface of this cone would pass through the thread profile at points which would make the width of the threads and the width of the spaces cut by the surface of the cone equal.

Rake: Deviation of a straight cutting face of the tooth from a radial line. Positive rake means the crest of the cutting face is angularly advanced ahead of the balance of the face of the tooth. Negative rake means the crest of the cutting face is angularly behind the balance of the face of the tooth. Zero rake means the cutting face is directly on the center line.

Root: The bottom surface joining the flanks of two adjacent threads. The root of an external thread is at its minor diameter. The root of an internal thread is at its major diameter.

Spiral Point: A supplemental angular fluting cut in the cutting face of the land at the chamfer end. Slightly longer than the chamfer on the tap and the opposite hand to that of rotation. Also known as a "chip driver."

Threads Per Inch: The number of threads in one inch of length.

Thread relief: The clearance produced by removing metal from behind the cutting edge. When the thread angle is relieved from the heel to the cutting edge, it is called an "eccentric" relief. When the thread angle is relieved from the heel to a portion of the land width only, it is called a "con-eccentric" relief.

Burrs End Mills Cutters, Tool Bits

C

Burrs

Carbide

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End Mills

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Solid Carbide End Mills

Two Flute

Center Cutting

Single End.....	C14
NEW! Single End, AITiN Coated	C14
Single End, X-Long.....	C14
NEW! Single End, X-Long, AITiN Coated	C14
Single End Stub	C14
NEW! Single End Stub, AITiN Coated.....	C14
Single End Metric	C15
NEW! Single End Metric, AITiN Coated	C15
Single End Ball	C15
NEW! Single End Ball, AITiN Coated	C15
Double End	C16
NEW! Double End, AITiN Coated	C16
Double End Stub.....	C16
NEW! Double End Stub, AITiN Coated	C16

Solid Carbide End Mills

Three Flute

Center Cutting

Single End 60° Helix	C16
NEW! Single End 60° Helix, AITiN Coated	C16

Four Flute

Center Cutting

Single End.....	C17
NEW! Single End, AITiN Coated	C17
Single End X-Long	C17
NEW! Single End X-Long, AITiN Coated.....	C17
Single End Stub	C17
NEW! Single End Stub, AITiN Coated.....	C17
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Single End Ball	C18
NEW! Single End Ball, AITiN Coated	C18
NEW! Single End, Corner Radius	C18
NEW! Single End, Corner Radius, AITiN Coated	C18
Double End	C19
NEW! Double End, AITiN Coated	C19
Double End Stub.....	C19
NEW! Double End Stub, AITiN Coated	C19
NEW! High Performance Variable Helix, AITiN Coated	C19
NEW! High Performance Ball, Variable Helix, AITiN Coated	C19

Solid Carbide Roughing End Mills

NEW! Four Flute, Coarse Pitch	C20
NEW! Four Flute, Coarse Pitch, AITiN Coated	C20
NEW! Four Flute, Coarse Pitch, Long.....	C20
NEW! Four Flute, Coarse Pitch, Long, AITiN Coated	C20
NEW! Multi-Flute, Fine Pitch	C20
NEW! Multi-Flute, Fine Pitch, AITiN Coated	C20

C

C

**Burrs
End Mills
Cutters, Tool Bits**

High-Speed Steel End Mills

Two Flute

Center Cutting

Single End	C21
Single End Long	C21
Single End Ball	C21
Double End	C22
Double End Ball	C22

Multi-Flute

Center Cutting

Single End	C23
NEW! Single End Long	C23
NEW! Single End X-Long	C23
Single End Ball	C23
NEW! Single End Ball Long.....	C23
NEW! Single End Ball X-Long.....	C23

Non-Center Cutting

Single End.....	C24
Single End Long	C24
Double End	C24

End Mills, Miniature	C25
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Cobalt Steel End Mills

Two Flute

Center Cutting

Single End	C26
Double End	C26

Multi-Flute

Center Cutting

Single End.....	C27
Single End Long	C27
Double End	C27

End Mill Dispenser Cabinet	C27
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Cobalt Roughing End Mills

Coarse Pitch

Single End Multi-Flute.....	C28
Single End Multi-Flute Ball	C28
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Shell Type Multi-Flute	C28

HSS Cutters

Woodruff Keyseat	C29
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Tool Bits

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Indexable Insert Boring Bars	C32
End Mill Terminology	C33



Micrograin Carbide Burrs

- Used in many industries for stock removal and the removal of burrs.
- Manufactured from micrograin carbide on automated CNC machines.
- TiN coating provides longer tool life.

Single Cut



- General purpose style. Provides good stock removal and a smooth finish on materials like steel, cast iron and ferrous metals.

Double Cut



- Best selling style with heavy stock removal qualities on tough materials.
- Engineered to reduce chip size and pulling action.

Alumacut



- Designed for obtaining a great finish on aluminum, reinforced plastics, soft steels and other soft materials.

TiN Coating



- Titanium Nitride coating provides longer edge retention, corrosion resistance and increases tool life by a factor of three or more.

Chipbreaker



- Made to provide better control and reduce chipping. For use on hard materials like steel alloy 50RC-60RC, carbon steel and cast iron.

Diamond Cut



- Reduces chip size almost to powder and with excellent control on tough treated alloy steels.

**Single Cut, Double Cut, Alumacut and TiN Coated Double Cut Burrs available in stock.
Chipbreaker and Diamond Cut are available on request.**

Carbide & High-Speed Steel Burrs

- A full line of burrs for a wide range of applications
- A wide selection of fluting styles
- Extra-long shanks available
- Miniature burrs
- State-of-the-art CNC precision made
- Made in the U.S.A.

APPLICATIONS & SPEED REFERENCE CHARTS

APPLICATIONS

MATERIAL CUTTING	SUITABILITY		
	Single Cut	Double Cut	Alumacut
Aluminum			■
Brass	■	■	
Bronze	■	■	
Carbon Fiber		■*	
Carbon Steel	■	■	
Cast Iron	■	■	
Copper	■	■	
Fiberglass		■*	
Hard Rubber	■	■	
Inconel	■	■	
Magnesium			■
Plastics	■	■	■
Stainless Steel	■	■	
Steel - 45-55Rc	■	■	
Steel - 55-60Rc	■	■	
Steel - Nickel Chrome	■	■	
Steel - Weldments	■	■	
Titanium	■	■	
Zinc			■

*Diamond cut burrs are recommended for carbon fiber and fiberglass and are available by special order. Double cut burrs may be effective, but they carry a greater risk of shredding the fiber weave.

GENERAL BURR SPEED RECOMMENDATIONS

The following chart is a general and approximate recommendation. Variations to achieve desired results may be necessary.

Burr Diameter	Recommended (RPM)
SOLID CARBIDE	
1/16" or 1.5mm	60,000 - 90,000
1/8" or 3mm	45,000 - 50,000
3/16" or 5mm	35,000 - 40,000
1/4" or 6mm	30,000 - 35,000
CARBIDE HEAD BRAZED TO STEEL SHANK	
3/16" on 1/8" shank	35,000 - 40,000
1/4" on 1/8" shank	25,000 - 30,000
5/16" on 1/4" shank	25,000 - 30,000
3/8" on 1/4" shank	25,000 - 30,000
7/16" on 1/4" shank	20,000 - 25,000
1/2" on 1/4" shank	20,000 - 25,000
5/8" on 1/4" shank	15,000 - 20,000
3/4" on 1/4" shank	15,000 - 20,000
1" on 1/4" shank	12,000 - 18,000

Burrs up to 1/4" head diameter are solid carbide. Sizes larger than 1/4" diameter feature solid carbide heads brazed to heat treated shanks.

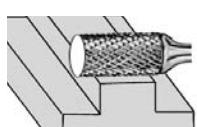
GENERAL USE

- Adjust speeds as needed for optimum performance. Use slower speeds for harder materials and cutting with long shank burrs. Use higher speeds for cutting with smaller diameter burrs.
- Do not run above maximum speeds. This will cause premature wear and damage to burr teeth.
- Do not run below minimum speeds. This may cause chipping.
- All other tools and collets should be in good condition. Using worn tools will cause chipping.
- Not for use in portable drill motors.
- Apply constant pressure while cutting.

Micrograin Carbide Burrs

**1/4" Shank
Right Hand Cut**

MADE IN
U. S. A.



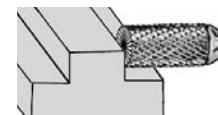
SA

CYLINDRICAL

Expanded

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TIN COATED
SA-11	1/8 x 1/2	B71201	B71201D	B71201DTN
SA-12	1/8 x 5/8	B71301	B71301D	B71301DTN
SA-14	3/16 x 5/8	B71212	B71212D	B71212DTN
SA-1	1/4 x 5/8	B71202	B71202D	B71202DTN
SA-1L	1/4 x 1	B71202B	B71202BD	B71202BDTN
SA-2	5/16 x 3/4	B71204	B71204D	B71204DTN
SA-3	3/8 x 3/4	B71205	B71205D	B71205DTN
SA-3L	3/8 x 1	B71205B	B71205BD	B71205BDTN
SA-3X	3/8 x 1-1/2	B71205C	B71205CD	B71205CDTN
SA-4	7/16 x 1	B71207	B71207D	B71207DTN
SA-5	1/2 x 1	B71208	B71208D	B71208DTN
SA-6	5/8 x 1	B71209	B71209D	B71209DTN
SA-16	3/4 x 3/4	B71303	B71303D	B71303DTN
SA-7	3/4 x 1	B71210	B71210D	B71210DTN
SA-9	1 x 1	B71211	B71211D	B71211DTN

1 per pack



SB

CYLINDRICAL END CUT

Expanded

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TIN COATED
SB-11	1/8 x 1/2	B71291	B71291D	B71291DTN
SB-12	1/8 x 5/8	B71391	B71391D	B71391DTN
SB-14	3/16 x 5/8	B71392	B71392D	B71392DTN
SB-1	1/4 x 5/8	B71292	B71292D	B71292DTN
SB-1L	1/4 x 1	B71292B	B71292BD	B71292BDTN
SB-2	5/16 x 3/4	B71293	B71293D	B71293DTN
SB-3	3/8 x 3/4	B71294	B71294D	B71294DTN
SB-3L	3/8 x 1	B71294B	B71294BD	B71294BDTN
SB-3X	3/8 x 1	B71294C	B71294CD	B71294CDTN
SB-4	7/16 x 1	B71295	B71295D	B71295DTN
SB-5	1/2 x 1	B71296	B71296D	B71296DTN
SB-6	5/8 x 1	B71297	B71297D	B71297DTN
SB-16	3/4 x 3/4	B71398	B71398D	B71398DTN
SB-7	3/4 x 1	B71298	B71298D	B71298DTN
SB-9	1 x 1	B71299	B71299D	B71299DTN

1 per pack



SC

CYLINDRICAL RADIUS END

Expanded

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TIN COATED
SC-11	1/8 x 1/2	B71221	B71221D	B71221DTN
SC-12	1/8 x 5/8	B71333	B71333D	B71333DTN
SC-13	5/32 x 5/8	B71233B	B71233BD	B71233BDTN
SC-14	3/16 x 5/8	B71220	B71220D	B71220DTN
SC-1	1/4 x 5/8	B71222	B71222D	B71222DTN
SC-2	5/16 x 3/4	B71224	B71224D	B71224DTN
SC-3	3/8 x 3/4	B71225	B71225D	B71225DTN
SC-3L	3/8 x 1	B71225B	B71225BD	B71225BDTN
SC-3X	3/8 x 1-1/2	B71225C	B71225CD	B71225CDTN
SC-4	7/16 x 1	B71227	B71227D	B71227DTN
SC-5	1/2 x 1	B71228	B71228D	B71228DTN
SC-6	5/8 x 1	B71229	B71229D	B71229DTN
SC-16	3/4 x 3/4	B71229C	B71229CD	B71229CDTN
SC-7	3/4 x 1	B71230	B71230D	B71230DTN
SC-9	1 x 1	B71231	B71231D	B71231DTN

1 per pack



SD

BALL

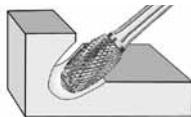
SHAPE	HEAD DIAMETER	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TIN COATED
SD-11	1/8	B71241	B71241D	B71241DTN
SD-14	3/16	B71350	B71350D	B71350DTN
SD-1	1/4	B71242	B71242D	B71242DTN
SD-2	5/16	B71243	B71243D	B71243DTN
SD-3	3/8	B71244	B71244D	B71244DTN
SD-4	7/16	B71245	B71245D	B71245DTN
SD-5	1/2	B71246	B71246D	B71246DTN
SD-6	5/8	B71247	B71247D	B71247DTN
SD-7	3/4	B71248	B71248D	B71248DTN
SD-9	1	B71249	B71249D	B71249DTN

1 per pack

**Chipbreaker and Diamond Cut
are available on request.**

Micrograin Carbide Burrs - Cont.

MADE IN
U. S. A.

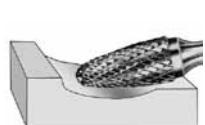


SE

OVAL

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TIN COATED
SE-11	3/16 x 5/16	B71319	B71319D	B71319DTN
SE-1	1/4 x 3/8	B71214	B71214D	B71214DTN
SE-3	3/8 x 5/8	B71215	B71215D	B71215DTN
SE-5	1/2 x 7/8	B71216	B71216D	B71216DTN
SE-6	5/8 x 1	B71217	B71217D	B71217DTN
SE-7	3/4 x 1	B71218	B71218D	B71218DTN

1 per pack

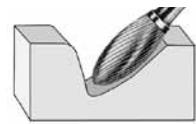
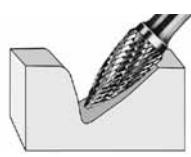


SF

TREE – RADIUS END

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TIN COATED
SF-11	1/8 x 1/2	B71252B	B71252BD	B71252BDTN
SF-1	1/4 x 5/8	B71252	B71252D	B71252DTN
SF-3	3/8 x 3/4	B71253	B71253D	B71253DTN
SF-4	7/16 x 1	B71354	B71354D	B71354DTN
SF-13	1/2 x 3/4	B71258	B71258D	B71258DTN
SF-5	1/2 x 1	B71255	B71255D	B71255DTN
SF-6	5/8 x 1	B71256	B71256D	B71256DTN
SF-7	3/4 x 1	B71257	B71257D	B71257DTN
SF-14	3/4 x 1-1/4	B71351	B71351D	B71351DTN
SF-15	3/4 x 1-1/2	B71259	B71259D	B71259DTN

1 per pack



SH

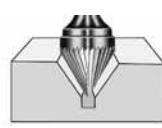


SG

TREE – POINTED END

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TIN COATED
SG-1	1/4 x 5/8	B71261	B71261D	B71261DTN
SG-2	5/16 x 3/4	B71262	B71262D	B71262DTN
SG-3	3/8 x 3/4	B71263	B71263D	B71263DTN
SG-13	1/2 x 3/4	B71364	B71364D	B71364DTN
SG-5	1/2 x 1	B71265	B71265D	B71265DTN
SG-6	5/8 x 1	B71266	B71266D	B71266DTN
SG-7	3/4 x 1	B71267	B71267D	B71267DTN
SG-15	3/4 x 1-1/2	B71268	B71268D	B71268DTN

1 per pack



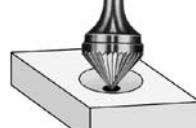
Expanded

SJ

60° CONE

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TIN COATED
SJ-1	1/4 x 3/16	B71260A	B71260AD	B71260ADTN
SJ-2	5/16 x 5/16	B71305	B71305D	B71305DTN
SJ-3	3/8 x 5/16	B71312	B71312D	B71312DTN
SJ-5	1/2 x 7/16	B71313	B71313D	B71313DTN
SJ-6	5/8 x 9/16	B71314	B71314D	B71314DTN
SJ-7	3/4 x 11/16	B71315	B71315D	B71315DTN
SJ-9	1 x 15/16	B71316	B71316D	B71316DTN

1 per pack



SK

90° CONE

Expanded

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TIN COATED
SK-1	1/4 x 1/8	B71321	B71321D	B71321DTN
SK-2	5/16 x 3/16	B71321B	B71321BD	B71321BDTN
SK-3	3/8 x 3/16	B71322	B71322D	B71322DTN
SK-5	1/2 x 1/4	B71323	B71323D	B71323DTN
SK-6	5/8 x 5/16	B71324	B71324D	B71324DTN
SK-7	3/4 x 3/8	B71325	B71325D	B71325DTN
SK-9	1 x 1/2	B71326	B71326D	B71326DTN

1 per pack

Chipbreaker and Diamond Cut are available on request.

Carbide Burrs

C-5

Micrograin Carbide Burrs - Cont.

MADE IN
U. S. A.



SL

14° TAPER/CONE – RADIUS END

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TiN COATED
SL-1	1/4 x 5/8	B71281	B71281D	B71281DTN
SL-2	5/16 x 7/8	B71282	B71282D	B71282DTN
SL-3	3/8 x 1-1/16	B71283	B71283D	B71283DTN
SL-4	1/2 x 1-1/8	B71284	B71284D	B71284DTN
SL-5	5/8 x 1-3/16	B71287A	B71287AD	B71287ADTN
SL-6	5/8 x 1-5/16	B71285	B71285D	B71285DTN
SL-7	3/4 x 1-1/2	B71286	B71286D	B71286DTN

1 per pack

SM

TAPER/CONE – POINTED END

SHAPE	HEAD SIZE DIA. x LENGTH	ANGLE	STOCK #		
			SINGLE CUT	DOUBLE CUT	DOUBLE CUT TiN COATED
SM-1	1/4 x 1/2	22°	B71233	B71233D	B71233DTN
SM-2	1/4 x 3/4	14°	B71234	B71234D	B71234DTN
SM-3	1/4 x 1	10°	B71235	B71235D	B71235DTN
SM-4	3/8 x 5/8	28°	B71236	B71236D	B71236DTN
SM-5	1/2 x 7/8	28°	B71237	B71237D	B71237DTN
SM-6	5/8 x 1	31°	B71238	B71238D	B71238DTN

1 per pack

Carbide Burrs

C

*Chipbreaker and Diamond Cut
are available on request.*

MICROGRAIN CARBIDE BURR SETS



BLOW MOLDED CASE

Expanded

SET DESCRIPTION		STOCK #	
		DOUBLE CUT	DOUBLE CUT TiN COATED
8 Pc. Set	1/4" Shank 1/2" Head Contains one each: SA-5, SC-5, SD-5, SE-5, SF-5, SG-5, SL-4, SM-5	B81	B81TN
8 Pc. Set	1/4" Shank 1/4" Head Contains one each: SA-1, SC-1, SD-1, SE-1 SF-1, SG-1, SL-1, SM-1	B82	B82TN

SET DESCRIPTION		STOCK #
12 Pc. Set	1/4" Shank Burrs Contains one each: SA-1, SA-14, SB-1, SC-1, SC-14, SD-1, SE-1, SF-1, SG-1, SH-1, SJ-1, SL-1 Single Cut Double Cut	B71287 B71287D
16 Pc. Set	1/4" Shank Burrs Contains one each: SA-1, SA-3, SA-5, SC-1, SC-3, SC-5, SD-3, SD-5, SE-3, SF-1, SF-3, SF-5, SG-1, SG-3, SL-3, SL-4 Single Cut Double Cut	B71290 B71290D



Micrograin Carbide Burrs – Long Shank

LONG SHANK BURRS

SHANK DIA. 1/4" • LENGTH 6" • SINGLE CUT • DOUBLE CUT

MADE IN
U. S. A.

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #	
		SINGLE CUT	DOUBLE CUT
A - CYLINDRICAL			
SA-1L6	1/4 x 5/8	B71202L	B71202DL
SA-3L6	3/8 x 3/4	B71205L	B71205DL
SA-5L6	1/2 x 1	B71208L	B71208DL
B - CYLINDRICAL END CUT			
SB-1L6	1/4 x 5/8	B71292L	B71292DL
SB-3L6	3/8 x 3/4	B71294L	B71294DL
SB-5L6	1/2 x 1	B71296L	B71296DL
C - CYLINDRICAL RADIUS END			
SC-1L6	1/4 x 5/8	B71222L	B71222DL
SC-3L6	3/8 x 3/4	B71225L	B71225DL
SC-5L6	1/2 x 1	B71228L	B71228DL
D - BALL			
SD-1L6	1/4	B71242L	B71242DL
SD-3L6	3/8	B71244L	B71244DL
SD-5L6	1/2	B71246L	B71246DL
E - OVAL			
SE-1L6	1/4 x 3/8	B71214L	B71214DL
SE-3L6	3/8 x 5/8	B71215L	B71215DL
SE-5L6	1/2 x 7/8	B71216L	B71216DL
F - TREE RADIUS END			
SF-1L6	1/4 x 5/8	B71252L	B71252DL
SF-3L6	3/8 x 3/4	B71253L	B71253DL
SF-5L6	1/2 x 1	B71255L	B71255DL
G - TREE POINTED END			
SG-1L6	1/4 x 5/8	B71261L	B71261DL
SG-3L6	3/8 x 3/4	B71263L	B71263DL
SG-5L6	1/2 x 1	B71265L	B71265DL
H - FLAME			
SH-2L6	5/16 x 3/4	B71272L	B71272DL
SH-5L6	1/2 x 1-1/4	B71273L	B71273DL
L - TAPER CONE POINTED END			
SL-1L6	1/4 x 5/8	B71281L	B71281DL
SL-3L6	3/8 x 1-1/16	B71283L	B71283DL
SL-4L6	5/8 x 1-3/16	B71284L	B71284DL
M - TAPER CONE			
SM-1L6	1/4 x 1/2	B71233L	B71233DL
SM-3L6	1/4 x 1	B71235L	—
SM-5L6	1/2 x 7/8	B71237L	B71237DL

1 per pack

- Features:**
- Long shank burrs are suitable for all hard to reach work.
 - Smaller diameter heads are ideal for small components.
 - Large diameter heads are suitable for deep applications, such as engine block work.

When working with long shank burrs, the burr must be in contact with the workpiece (*or inserted in the bore or slot to be machined*) before the machine is turned on. As a rule, the tool must remain in contact with the workpiece for as long as the machine is running. Failure to observe this procedure may result in shank failure and hence, an increased accident risk.



Longer shanks up to 10" are available.

Micrograin Carbide Burrs – Miniature Series

Single Cut

MADE IN
U. S. A.

- Features:**
- Ideal for delicate work such as engraving.
 - Suitable for use in pencil grinders.
 - Use for deburring, sculpting and removing material in small areas.



1/4" HEAD 1/8" SHANK

Expanded

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SA-51	1/4 x 1/2	B71203
SB-51	1/4 x 3/16	B71219
SC-51	1/4 x 1/2	B71223
SD-51	1/4 x 7/32	B71240
SE-51	1/4 x 3/8	B71269

1 per pack

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SF-51	1/4 x 1/2	B71250
SG-51	1/4 x 1/2	B71260
SM-51	1/4 x 1/2	B71239
SN-51	1/4 x 1/4	B71445

1 per pack



1/8" HEAD 1/8" SHANK

Expanded

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SA-41	1/16 x 1/4	B71205G
SA-42	3/32 x 7/16	B71206
SA-43	1/8 x 9/16	B71213
SB-41	1/16 x 1/4	B71232
SB-43	1/8 x 9/16	B71232B
SC-41	3/32 x 7/16	B71226
SC-42	1/8 x 9/16	B71254
SD-41	3/32 x 3/32	B71239B
SD-42	1/8 x 1/8	B71240A
SE-41	1/8 x 7/32	B71270
SF-41	1/8 x 1/4	B71251
SF-42	1/8 x 1/2	B71251B
SG-41	1/8 x 1/4	B71264

1 per pack

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SG-42	1/8 x 5/16	B71264B
SG-43	1/8 x 3/8	B71264C
SG-44	1/8 x 1/2	B71264E
SH-41	1/8 x 1/4	B71271A
SJ-42	1/8 x 3/32	B71401
SK-42	1/8 x 1/16	B71405
SL-41	1/8 x 3/8	B71410
SL-42	1/8 x 1/2	B71415
SM-41	1/8 x 11/32	B71420
SM-42	1/8 x 7/16	B71425
SM-43	1/8 x 5/8	B71430
SN-41	3/32 x 1/8	B71435
SN-42	1/8 x 3/16	B71440

1 per pack



SET DESCRIPTION		STOCK #
8 Pcs. Set	1/4" Head 1/8" Shank Contains one each: SA-51, SB-51, SC-51, SD-51, SE-51, SF-51, SG-51, SM-51	B71288
10 Pcs. Set	1/8" Head 1/8" Shank Contains one each: SA-42, SA-43, SB-41, SC-41, SC-42, SD-42, SE-41, SF-41, SG-41, SH-41	B71289A

Burrs available TiN coated. Details on request.

Micrograin Carbide Burrs – Alumacut

For Non-Ferrous Metals

1/4" Shank Right Hand Cut

SA/NF



CYLINDRICAL

(Expanded)

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SA-1NF	1/4 x 5/8	B71202A
SA-3NF	3/8 x 3/4	B71205A
SA-5NF	1/2 x 1	B71208A
SA-6NF	5/8 x 1	B71209A
SA-7NF	3/4 x 1	B71210A
*SA-7NFR	3/4 x 1	B71210BA

1 per pack *3/8" shank

SC/NF



**CYLINDRICAL
RADIUS END**

(Expanded)

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SC-1NF	1/4 x 5/8	B71222A
SC-3NF	3/8 x 3/4	B71225A
SC-5NF	1/2 x 1	B71228A
SC-6NF	5/8 x 1	B71229A
SC-7NF	3/4 x 1	B71230A
*SC-7NFR	3/4 x 1	B71230BA

1 per pack *3/8" shank

SE/NF



oval

(Expanded)

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SE-1NF	1/4 x 3/8	B71214A
SE-3NF	3/8 x 5/8	B71215A
SE-5NF	1/2 x 7/8	B71216A
SE-6NF	5/8 x 1	B71217A
SE-7NF	3/4 x 1	B71218A

1 per pack

SD/NF



BALL

(Expanded)

SHAPE	HEAD SIZE DIAMETER	STOCK #
SD-1NF	1/4	B71242A
SD-3NF	3/8	B71244A
SD-5NF	1/2	B71246A
SD-6NF	5/8	B71247A
SD-7NF	3/4	B71248A
*SD-7NFR	3/4	B71248BA

1 per pack *3/8" shank

SF/NF



TREE – RADIUS END

(Expanded)

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SF-1NF	1/4 x 5/8	B71252A
SF-3NF	3/8 x 3/4	B71253A
SF-5NF	1/2 x 1	B71255A
SF-6NF	5/8 x 1	B71256A
SF-7NF	3/4 x 1	B71257A
*SF-7NFR	3/4 x 1	B71258BA
SF-14NF	3/4 x 1	B71258A

1 per pack *3/8" shank

SL/NF



14° TAPER CONE RADIUS END

(NEW!)

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SL-1NF	1/4 x 5/8	B71281A
SL-3NF	3/8 x 1-1/16	B71283A
SL-4NF	1/2 x 1-1/8	B71284A
SL-5NF	5/8 x 1-3/16	B71287AA
SL-6NF	5/8 x 1-5/16	B71285A

1 per pack

5 PC. ALUMACUT BURR SET

DESCRIPTION	STOCK #
Contains one each: SA-3NF SA-5NF SD-5NF SE-5NF SF-3NF	B71290A



Carbide Burr Dispenser



42 PC. CARBIDE BURR DISPENSER

(Three Drawer Cabinet)

MADE IN
U. S. A.



Features:

- Contains 21 of the most popular burr styles.
- All steel welded construction with heavy gauge steel drawers with vinyl dividers.
- Organized dispenser makes burrs readily accessible.
- Dimensions: 14-5/8" W x 7-3/8" D x 7-3/4" H.
- Baked epoxy finish for long life.

Stock # BD42

NEW!

TYPE	QTY.	STOCK #
SA-1 CYLINDRICAL	2	B71202D
SA-3 CYLINDRICAL	2	B71205D
SA-5 CYLINDRICAL	2	B71208D
SC-1 CYLINDRICAL RADIUS END	2	B71222D
SC-3 CYLINDRICAL RADIUS END	2	B71225D
SC-5 CYLINDRICAL RADIUS END	2	B71228D
SD-1 BALL	2	B71242D
SD-3 BALL	2	B71244D
SD-5 BALL	2	B71246D
SE-1 OVAL	2	B71214D
SE-3 OVAL	2	B71215D
SE-5 OVAL	2	B71216D

TYPE	QTY.	STOCK #
SF-1 TREE RADIUS END	2	B71252D
SF-3 TREE RADIUS END	2	B71253D
SF-5 TREE RADIUS END	2	B71255D
SG-1 TREE POINTED END	2	B71261D
SG-5 TREE POINTED END	2	B71265D
SL-1 14° TAPER/CONE RADIUS END	2	B71281D
SL-4 14° TAPER/CONE RADIUS END	2	B71284D
SM-4 TAPER/CONE FLAT END	2	B71236D
SM-5 TAPER/CONE FLAT END	2	B71237D

Note: All burrs in standard dispenser are double cut.



BURR DISPENSER Available without tools.

Stock # DIH13200

Micrograin Carbide Fiberglass Routers

Straight Shank Diamond Cut



MADE IN
U. S. A.

Features:

- Suitable for cutting fiberglass, epoxies and similar composite materials.

STYLE	TOOL DIA.	LENGTH OF CUT	SHANK DIA.	OAL	STOCK #			
					NO END CUT	BURR END	END MILL END	DRILL END
FGR-1	1/16	3/16	1/8	1-1/2	B71701A	B71701B	B71701C	B71701D
FGR-1.1	3/32	3/8	1/8	1-1/2	B71703A	B71703B	B71703C	B71703D
FGR-2	1/8	1/2	1/8	1-1/2	B71705A	B71705B	B71705C	B71705D
FGR-3	3/16	5/8	3/16	2	B71707A	B71707B	B71707C	B71707D
FGR-4	3/16	5/8	1/4	2	B71709A	B71709B	B71709C	B71709D
FGR-5	1/4	3/4	1/4	2	B71711A	B71711B	B71711C	B71711D
FGR-6	1/4	3/4	1/4	2-1/2	B71713A	B71713B	B71713C	B71713D
FGR-6.2	1/4	1	1/4	3	B71715A	B71715B	B71715C	B71715D
FGR-7	5/16	1	5/16	2-1/2	B71717A	B71717B	B71717C	B71717D
FGR-8	3/8	1	3/8	2-1/2	B71719A	B71719B	B71719C	B71719D
FGR-9	1/2	1	1/2	3	B71721A	B71721B	B71721C	B71721D

1 per pack

HSS Burrs • Rotary Files

High-Speed Steel

1/4" Shank Right Hand Cut

Features:

- Recommended for use on non-ferrous and other soft materials.

MADE IN
U. S. A.

SHAPE	HEAD SIZE DIA. x LENGTH IN.	STOCK #
A - CYLINDRICAL		
A-100	1/8 x 1/2	BH74201
A-106	1/4 x 1	BH74202
A-107	1/4 x 1-1/2	BH74203
A-109	3/8 x 1	BH74204
A-110	3/8 x 1-1/2	BH74205
A-111	1/2 x 1	BH74206
A-112	1/2 x 1-1/2	BH74207
A-114	5/8 x 1	BH74208
A-116	3/4 x 3/4	BH74209
A-118	1 x 1	BH74210
B - BALL SHAPE		
B-600	1/8 x 1/8	BH74215
B-602	1/4 x 1/4	BH74216
B-603	5/16 x 5/16	BH74217
B-604	3/8 x 3/8	BH74218
B-606	1/2 x 1/2	BH74219
B-609	3/4 x 3/4	BH74220
R - TREE-RADIUS NOSE		
R-503	1/4 x 3/4	BH74221
R-507	1/2 x 1-1/8	BH74222
R-509	3/4 x 1-1/4	BH74223
R-511	1-1/8 x 1-3/4	BH74224
T - TREE POINTED		
T-521	1/4 x 3/4	BH74226
T-523	3/8 x 3/4	BH74227
T-525	1/2 x 3/4	BH74228
T-527	1/2 x 1-1/8	BH74229
T-529	5/8 x 1	BH74230
I - INVERTED CONE		
I-471	1/2 x 1/2	BH74235
I-472	3/4 x 1/2	BH74236
D - DEBURRING		
D-404	1/2 x 60° ANGLE	BH74238
D-406	5/8 x 60° ANGLE	BH74239

1 per pack



SHAPE	HEAD SIZE DIA. x LENGTH IN.	STOCK #
AE - CYLINDRICAL END CUT		
AE-100	1/8 x 1/2	BH74240
AE-106	1/4 x 1	BH74241
AE-107	1/4 x 1-1/2	BH74242
AE-109	3/8 x 1	BH74243
AE-110	3/8 x 1-1/2	BH74244
AE-111	1/2 x 1	BH74245
AE-112	1/2 x 1-1/2	BH74246
AE-114	5/8 x 1	BH74247
AE-116	3/4 x 3/4	BH74248
AE-118	1 x 1	BH74249
C - CYLINDRICAL ROUND		
C-700	1/8 x 1/2	BH74251
C-710	1/4 x 1	BH74252
C-714	3/8 x 1	BH74254
C-716	3/8 x 1-1/2	BH74255
C-718	1/2 x 1	BH74256
C-722	5/8 x 1	BH74257
Q - OLIVE SHAPED		
Q-901	3/16 x 5/16	BH74261
Q-903	1/4 x 7/16	BH74262
Q-905	3/8 x 5/8	BH74263
Q-909	1/2 x 7/8	BH74264
Q-911	5/8 x 1	BH74265
Q-913	3/4 x 1	BH74266
Q-915	1 x 1-3/8	BH74267
H - CONE SHAPE		
H-223	1/4 x 1/2	BH74270
H-226	1/4 x 3/4	BH74271
H-229	1/4 x 1	BH74272
H-232	1/4 x 1-1/4	BH74273
H-235	5/16 x 1	BH74274
H-238	3/8 x 5/8	BH74275
H-241	1/2 x 7/8	BH74276
H-244	5/8 x 1	BH74277
H-245	1 x 1-3/8	BH74278

1 per pack

7 PC. SUPER HSS BURR SET

DESCRIPTION	STOCK #
Contains one each: A-116 B-606 C-722 Q-915 T-529 H-244 R-507	BH7



Deburring Tools

ISRAEL

ZIP / BURR™ SYSTEM

Zip / Burr™ "B" Set for "B" Series Blades



- Takes all "B" series blades.
- Includes one B-10 blade and one B-20 blade.
- Handle has storage compartment for spare blades.
- Holder telescopes from 1/2" to 5".
- Blade can be inserted at 90° for deburring cross holes.
- Handle has lifetime guarantee.

Complete Zip / Burr "B" Set	1 Per Pack	DT22600
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Zip / Burr™ Heavy Duty "E" Set for "E" Series Blades



- Same features as "B" set but takes all heavy duty "E" series blades.
- Blade can't be inserted at 90°.
- Includes one E-100 blade, one E-200 blade and one E-300 blade.

Complete Zip / Burr "E" Set	1 Per Pack	DT22620
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MULTI / BURR DEBURRING TOOLS

Multi / Burr-5



- Blades can be stored in lightweight plastic handle.
- Blades easily changed by depressing locking button.
- Comes with **five** blades—one each of E-100, E-200, E-350 E-101 and E-102.
- Handle has lifetime guarantee.

Plastic handle complete w/ 5 blades	1 Per Pack	DT22022
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SLIM-GRIP DEBURRING TOOLS

Slim-Grip Disposable Burr



- Handles almost every deburring job.
- Useable for removing burrs from steel and aluminum.
- Consists of Heavy Duty E-100 blade, handle, and handy pocket clip.

Slim-Grip Disposable Burr	Box of 10	DT22050
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REVERSIBLE COUNTERSINK



- Large reversible countersink includes one R-2 blade and has a range of 13/64" - 11/32".

Complete Standard Reversible Countersink	1 Per Pack	DT22465
R-2 Standard Blade Only	1 Per Pack	DT22139

BLADES FOR DEBURRING TOOL

STANDARD DUTY "B" SERIES

BLADES PER PKG. STOCK

B-10	10	DT22110
HSS for steel & aluminum.		
B-10A	10	DT22109
HSS for steel, aluminum and plastic.		
B-20	10	DT22120
HSS for brass & cast iron; can rotate clockwise and counterclockwise.		
B-30	10	DT22130
HSS; removes internal & external burrs simultaneously from holes drilled into tubing & sheet metal.		
B-60	10	DT22135
HSS; for internal deburring, especially for inaccessible locations.		

HEAVY DUTY "E" SERIES

E-100	10	DT22025
Heavy Duty HSS for steel & aluminum.		
E-100A	10	DT22034
Heavy Duty M42 steel. Good for plastic & hard materials.		
E-1500	10	DT22046
Heavy Duty HSS for holes as small as 1/16" dia. in steel and aluminum.		
E-200	10	DT22030
Heavy Duty HSS for brass and cast iron.		
E-300	10	DT22040
Heavy Duty HSS; removes internal and external burrs simultaneously from holes drilled into tubing & sheet metal.		

10 Blades per pack

End Mills – Information & Coatings

The End Mill is the most-used tool in the tool crib arsenal in any machine shop. It is used for **milling, profiling, contouring, slotting, counterboring, drilling** and **reaming**.



END MILL TYPES

- Finishing end mills
- Square end mills
- Ball end mills
- Taper body mills
- Roughing end mills
(Coarse tooth & fine tooth)

END MILL MATERIALS

- High-speed steel (HSS)
- Cobalt-M42 (8% cobalt HSS)
- Powder metal (PM) cobalt
- Solid carbide (micrograin)
- Carbide tipped

Standard Helix Angle is 30°
Mill dia. Tolerance +0.000
-0.002

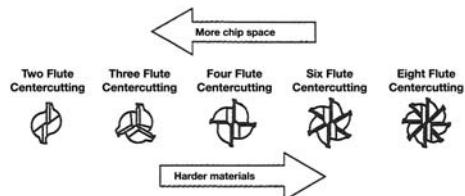
Max. Operating Temperature

Uncoated	750°F
TiN	1110°F
TiAlN	1450°F

END MILL SELECTION SUMMARY

- Select the **shortest** possible end mill for the greatest rigidity.
- Select two or three flutes for slotting or heavy stock removal.
- Select multiple flutes for finishing and greater rigidity.
- Use the largest diameter possible for added strength and rigidity.
- Apply **coatings** for higher feeds, speeds and tool life.
- Use cobalt, PM/Plus and carbide for **tougher** and **harder** materials, and for high production applications.

FLUTE TYPE



- **Two Flute:** The two-flute end mill has the greatest amount of flute space allowing for **more chip carrying capacity**. Used primarily in slotting and pocketing of non-ferrous materials where chip removal is a concern.
- **Three Flute:** While this tool has the same flute space as two flutes, it has a larger cross-sectional area providing for **greater strength** and the ability to pocket and slot both ferrous and non-ferrous materials.
- **Four/Multiple Flute:** Ideal for peripheral and finish milling. The additional flutes allow **faster feed rates**, but due to the reduced flute space, chip removal may be a problem. Produces a much **finer finish** than two and three flute tools.

MILLING FORMULAE

$$\text{RPM} = \text{SFM} \times 3.82/\text{tool diameter}$$

$$\text{IPM} = \text{RPM} \times \text{number of flutes} \times \text{chip load}$$

$$\text{Chip load} = \text{IPM}/\text{RPM} \times \text{number of flutes}$$

$$\text{SFM} = .262 \times \text{tool diameter} \times \text{RPM}$$

- **Revolutions per minute (RPM):** Number of revolutions the cutter has in one minute.
- **Inches per minute (IPM):** Number of inches the cutter passes through the workpiece in one minute.
- **Chip load:** Amount each flute cuts during a single revolution of the cutting tool.
- **Surface feet per minute (SFM):** Number of feet a given point on the circumference of the cutter travels per minute. This is the measure of cutting speed of the end mill used in the United States.

SURFACE TREATMENT AND COATINGS

Description	Characteristics	Application
TiN	<ul style="list-style-type: none"> • Titanium Nitride: Gold color, General Purpose coating. • Consists of a very hard coating on surface of tool. • Provides excellent wear resistance with good lubricity. • Reduces friction and prevents galling. 	<ul style="list-style-type: none"> • Recommended for ferrous and non-metallic materials.
TiCN	<ul style="list-style-type: none"> • Titanium Carbonitride: Blue-Grey color, abrasion resistant coating. • Consists of an extremely hard coating on surface of tool. • Provides excellent wear resistance. 	<ul style="list-style-type: none"> • Recommended for Silicon Aluminum, brass and bronze applications, cast iron and alloy steels. • Very effective at higher speeds.
AlTiN	<ul style="list-style-type: none"> • Aluminum Titanium Nitride: Blue-Black color, multi-layered high heat-resistant coating. • Provides excellent wear resistance. • Forms an aluminum oxide layer at high speeds and elevated temperatures. 	<ul style="list-style-type: none"> • Recommended for semi and dry milling applications in high temperature alloys and hardened steel materials. • Very effective at higher speeds and in some tapping applications.

Micrograin Solid Carbide End Mills

30° Right Hand Helix Right Hand Cut

Features:

- Micrograin solid carbide end mills provide outstanding performance and allow optimum cutting speeds and feeds, high rigidity and minimum tool deflection.
- Designed for aggressive milling of most materials.

MADE IN
U. S. A.

Two Flute, Single End, Center Cutting

Square End



Regular Length

Expanded

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/32	1/8	3/32	1-1/2	SC61300	SC61300AL
3/64	1/8	1/8	1-1/2	SC61300A	SC61300AAL
1/16	1/8	1/4	1-1/2	SC61301	SC61301AL
5/64	1/8	1/4	1-1/2	SC61302	SC61302AL
3/32	1/8	3/8	1-1/2	SC61303	SC61303AL
7/64	1/8	3/8	1-1/2	SC61304	SC61304AL
1/8	1/8	1/2	1-1/2	SC61305	SC61305AL
9/64	3/16	9/16	2	SC61306	SC61306AL
5/32	3/16	9/16	2	SC61307	SC61307AL
11/64	3/16	9/16	2	SC61308	SC61308AL
3/16	3/16	5/8	2	SC61309	SC61309AL
13/64	1/4	5/8	2-1/2	SC61310	SC61310AL
7/32	1/4	5/8	2-1/2	SC61311	SC61311AL
15/64	1/4	3/4	2-1/2	SC61312	SC61312AL
1/4	1/4	3/4	2-1/2	SC61313	SC61313AL
17/64	5/16	7/8	2-1/2	SC61314	SC61314AL
9/32	5/16	7/8	2-1/2	SC61315	SC61315AL
19/64	5/16	7/8	2-1/2	SC61316	SC61316AL
5/16	5/16	7/8	2-1/2	SC61317	SC61317AL

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
21/64	3/8	7/8	2-1/2	SC61318	SC61318AL
11/32	3/8	7/8	2-1/2	SC61319	SC61319AL
23/64	3/8	7/8	2-1/2	SC61320	SC61320AL
3/8	3/8	7/8	2-1/2	SC61321	SC61321AL
25/64	7/16	7/8	2-1/2	SC61322	SC61322AL
13/32	7/16	7/8	2-1/2	SC61323	SC61323AL
27/64	7/16	7/8	2-1/2	SC61324	SC61324AL
7/16	7/16	1	2-1/2	SC61325	SC61325AL
29/64	1/2	1	3	SC61326	SC61326AL
15/32	1/2	1	3	SC61327	SC61327AL
31/64	1/2	1	3	SC61328	SC61328AL
1/2	1/2	1	3	SC61329	SC61329AL
9/16	9/16	1-1/4	3-1/2	SC61330	SC61330AL
5/8	5/8	1-1/4	3-1/2	SC61331	SC61331AL
11/16	3/4	1-1/2	4	SC61332	SC61332AL
3/4	3/4	1-1/2	4	SC61333	SC61333AL
7/8	7/8	1-1/2	4	SC61334	SC61334AL
1	1	1-1/2	4	SC61335	SC61335AL

1 per tube

30° Right Hand Helix Right Hand Cut

Two Flute, Single End, Center Cutting

Square End



X-Long Length

Expanded

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/8	1/8	3/4	2	SCL61351	SCL61351AL
3/16	3/16	1-1/8	3	SCL61353	SCL61353AL
1/4	1/4	1-1/2	4	SCL61355	SCL61355AL
5/16	5/16	1-5/8	4	SCL61357	SCL61357AL
3/8	3/8	2	4	SCL61359	SCL61359AL
7/16	7/16	2	4	SCL61361	SCL61361AL
1/2	1/2	3	6	SCL61364	SCL61364AL
5/8	5/8	3	6	SCL61366	SCL61366AL
3/4	3/4	3	6	SCL61368	SCL61368AL
1	1	3	6	SCL61370	SCL61370AL

1 per tube

Two Flute, Single End, Center Cutting

Expanded

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/16	1/8	1/8	1-1/2	SCS61341	SCS61341AL
3/32	1/8	3/16	1-1/2	SCS61342	SCS61342AL
1/8	1/8	1/4	1-1/2	SCS61343	SCS61343AL
5/32	3/16	5/16	2	SCS61344	SCS61344AL
3/16	3/16	3/8	2	SCS61345	SCS61345AL
7/32	1/4	7/16	2	SCS61346	SCS61346AL
1/4	1/4	1/2	2	SCS61347	SCS61347AL
5/16	5/16	1/2	2	SCS61348	SCS61348AL
3/8	3/8	5/8	2	SCS61349	SCS61349AL
7/16	7/16	5/8	3	SCS61350	SCS61350AL
1/2	1/2	5/8	2-1/2	SCS61351	SCS61351AL
5/8	5/8	3/4	3	SCS61352	SCS61352AL
3/4	3/4	1	3	SCS61353	SCS61353AL

1 per tube

Micrograin Solid Carbide End Mills

30° Right Hand Helix, Right Hand Cut

- Features:**
- Micrograin solid carbide end mills provide outstanding performance and allow optimum cutting speeds and feeds, high rigidity and minimum tool deflection.
 - Designed for aggressive milling of most materials.

MADE IN
U. S. A.

Two Flute, Single End, Metric with Metric Shanks

Square End



TOLERANCE +.000/-.002

Regular Length

MILL DIA. MM	SHANK DIA. MM	FLUTE LENGTH	OAL MM	STOCK #	
				UNCOATED	AITiN COATED
2.00	3.00	6	38	SCM91302	SCM91302AL
2.50	3.00	7	38	SCM91304	SCM91304AL
3.00	3.00	12	38	SCM91306	SCM91306AL
3.50	4.00	12	50	SCM91308	SCM91308AL
4.00	4.00	14	50	SCM91310	SCM91310AL
4.50	5.00	14	50	SCM91312	SCM91312AL
5.00	5.00	16	50	SCM91314	SCM91314AL
6.00	6.00	19	63	SCM91316	SCM91316AL
7.00	8.00	19	63	SCM91318	SCM91318AL
8.00	8.00	19	63	SCM91320	SCM91320AL

MILL DIA. MM	SHANK DIA. MM	FLUTE LENGTH	OAL MM	STOCK #	
				UNCOATED	AITiN COATED
9.00	10.00	22	70	SCM91322	SCM91322AL
10.00	10.00	22	70	SCM91324	SCM91324AL
11.00	11.00	25	70	SCM91325	SCM91325AL
12.00	12.00	25	75	SCM91326	SCM91326AL
14.00	14.00	30	88	SCM91327	SCM91327AL
16.00	16.00	32	88	SCM91328	SCM91328AL
18.00	18.00	36	100	SCM91329	SCM91329AL
20.00	20.00	38	100	SCM91330	SCM91330AL
22.00	22.00	38	100	SCM91331	SCM91331AL

1 per tube

30° Right Hand Helix Right Hand Cut

- Features:**
- Micrograin solid carbide end mills provide outstanding performance and allows optimum cutting speeds and feeds, high rigidity and minimum tool deflection.
 - Ball nose geometry for inside corner radius and CNC contouring.

Two Flute, Single End, Ball Nose, Center Cutting

Ball End



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITiN COATED
1/32	1/8	3/32	1-1/2	SCB61365	SCB61365AL
3/64	1/8	1/8	1-1/2	SCB61366	SCB61366AL
1/16	1/8	1/4	1-1/2	SCB61367	SCB61367AL
5/64	1/8	1/4	1-1/2	SCB61368	SCB61368AL
3/32	1/8	3/8	1-1/2	SCB61369	SCB61369AL
7/64	1/8	3/8	1-1/2	SCB61370	SCB61370AL
1/8	1/8	1/2	1-1/2	SCB61371	SCB61371AL
5/32	3/16	9/16	2	SCB61372	SCB61372AL
3/16	3/16	5/8	2	SCB61373	SCB61373AL
7/32	1/4	5/8	2-1/2	SCB61374	SCB61374AL
1/4	1/4	3/4	2-1/2	SCB61375	SCB61375AL

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITiN COATED
9/32	5/16	7/8	2-1/2	SCB61376	SCB61376AL
5/16	5/16	7/8	2-1/2	SCB61377	SCB61377AL
3/8	3/8	7/8	2-1/2	SCB61378	SCB61378AL
7/16	7/16	1	2-1/2	SCB61379	SCB61379AL
1/2	1/2	1	3	SCB61380	SCB61380AL
9/16	9/16	1-1/4	3-1/2	SCB61381	SCB61381AL
5/8	5/8	1-1/4	3-1/2	SCB61382	SCB61382AL
3/4	3/4	1-1/2	4	SCB61383	SCB61383AL
7/8	7/8	1-1/2	4	SCB61384	SCB61384AL
1	1	1-1/2	4	SCB61385	SCB61385AL

1 per tube

Micrograin Solid Carbide End Mills

30° Right Hand Helix Right Hand Cut

Features:

- Micrograin solid carbide end mills provide outstanding performance and allows optimum cutting speeds and feeds, high rigidity and minimum tool deflection.
- Designed for aggressive milling of most materials.

MADE IN
U. S. A.

Two Flute, Double End, Center Cutting



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/32	1/8	3/32	2	DEC66801	DEC66801AL
3/64	1/8	1/8	2	DEC66802	DEC66802AL
1/16	1/8	3/16	2	DEC66803	DEC66803AL
3/32	1/8	1/4	2	DEC66804	DEC66804AL
1/8	1/8	3/8	2	DEC66805	DEC66805AL
5/32	3/16	7/16	2-1/2	DEC66807	DEC66807AL
3/16	3/16	1/2	2-1/2	DEC66809	DEC66809AL
7/32	1/4	9/16	2-1/2	DEC66811	DEC66811AL
1/4	1/4	5/8	2-1/2	DEC66813	DEC66813AL
5/16	5/16	3/4	3-1/2	DEC66815	DEC66815AL
3/8	3/8	3/4	3-1/2	DEC66817	DEC66817AL
7/16	7/16	7/8	4	DEC66819	DEC66819AL
1/2	1/2	1	4	DEC66821	DEC66821AL

1 per tube

Two Flute, Double End, Center Cutting



Stub Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/32	1/8	1/16	1-1/2	DEC66830	DEC66830AL
3/64	1/8	3/32	1-1/2	DEC66831	DEC66831AL
1/16	1/8	1/8	1-1/2	DEC66832	DEC66832AL
3/32	1/8	3/16	1-1/2	DEC66833	DEC66833AL
1/8	1/8	1/4	1-1/2	DEC66839	DEC66839AL
5/32	3/16	5/16	2	DEC66841	DEC66841AL
3/16	3/16	3/8	2	DEC66843	DEC66843AL
7/32	1/4	1/2	2-1/2	DEC66845	DEC66845AL
1/4	1/4	1/2	2-1/2	DEC66847	DEC66847AL
5/16	5/16	1/2	2-1/2	DEC66849	DEC66849AL
3/8	3/8	1/2	2-1/2	DEC66851	DEC66851AL
7/16	7/16	1/2	2-1/2	DEC66853	DEC66853AL
1/2	1/2	5/8	3	DEC66855	DEC66855AL

1 per tube

60° High Helix, Right Hand Cut

Features:

- Increased cutting edge engagement reduces vibration and improves surface finish.
- Engineered for plunging, slotting and peripheral milling applications.

Three Flute, Single End, Center Cutting



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/4	1/4	3/4	2-1/2	SCH91628	SCH91628AL
5/16	5/16	13/16	2-1/2	SCH91630	SCH91630AL
3/8	3/8	1	2-1/2	SCH91632	SCH91632AL
1/2	1/2	1	3	SCH91636	SCH91636AL
5/8	5/8	1-1/4	3-1/2	SCH91640	SCH91640AL
3/4	3/4	1-1/2	4	SCH91642	SCH91642AL

1 per tube

Micrograin Solid Carbide End Mills

30° Right Hand Helix Right Hand Cut

- Features:**
- Micrograin solid carbide end mills provide outstanding performance and allows optimum cutting speeds and feeds, high rigidity and minimum tool deflection.
 - Designed for aggressive milling of most materials.

MADE IN
U. S. A.

Four Flute, Single End, Center Cutting

Square End



Regular Length

Expanded

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/32	1/8	3/32	1-1/2	SC60600	SC60600AL
3/64	1/8	1/8	1-1/2	SC60600A	SC60600AAL
1/16	1/8	1/4	1-1/2	SC60601	SC60601AL
5/64	1/8	1/4	1-1/2	SC60602	SC60602AL
3/32	1/8	3/8	1-1/2	SC60603	SC60603AL
7/64	1/8	3/8	1-1/2	SC60604	SC60604AL
1/8	1/8	1/2	1-1/2	SC60605	SC60605AL
9/64	3/16	9/16	2	SC60606	SC60606AL
5/32	3/16	9/16	2	SC60607	SC60607AL
11/64	3/16	9/16	2	SC60608	SC60608AL
3/16	3/16	5/8	2	SC60609	SC60609AL
13/64	1/4	5/8	2-1/2	SC60610	SC60610AL
7/32	1/4	5/8	2-1/2	SC60611	SC60611AL
15/64	1/4	3/4	2-1/2	SC60612	SC60612AL
1/4	1/4	3/4	2-1/2	SC60613	SC60613AL
17/64	5/16	7/8	2-1/2	SC60614	SC60614AL
9/32	5/16	7/8	2-1/2	SC60615	SC60615AL
19/64	5/16	7/8	2-1/2	SC60616	SC60616AL
5/16	5/16	7/8	2-1/2	SC60617	SC60617AL

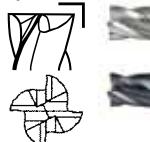
MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
21/64	3/8	7/8	2-1/2	SC60618	SC60618AL
11/32	3/8	7/8	2-1/2	SC60619	SC60619AL
23/64	3/8	7/8	2-1/2	SC60620	SC60620AL
3/8	3/8	7/8	2-1/2	SC60621	SC60621AL
25/64	7/16	7/8	2-1/2	SC60622	SC60622AL
13/32	7/16	7/8	2-1/2	SC60623	SC60623AL
27/64	7/16	7/8	2-1/2	SC60624	SC60624AL
7/16	7/16	1	2-1/2	SC60625	SC60625AL
29/64	1/2	1	3	SC60626	SC60626AL
15/32	1/2	1	3	SC60627	SC60627AL
31/64	1/2	1	3	SC60628	SC60628AL
1/2	1/2	1	3	SC60629	SC60629AL
9/16	9/16	1-1/4	3-1/2	SC60630	SC60630AL
5/8	5/8	1-1/4	3-1/2	SC60631	SC60631AL
11/16	3/4	1-1/2	4	SC60632	SC60632AL
3/4	3/4	1-1/2	4	SC60633	SC60633AL
7/8	7/8	1-1/2	4	SC60634	SC60634AL
1	1	1-1/2	4	SC60635	SC60635AL

1 per tube

30° Right Hand Helix Right Hand Cut

Four Flute, Single End, Center Cutting

Square End



X-Long Length

Expanded

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/8	1/8	3/4	2	SCL60651	SCL60651AL
3/16	3/16	1-1/8	3	SCL60653	SCL60653AL
1/4	1/4	1-1/2	4	SCL60655	SCL60655AL
5/16	5/16	1-5/8	4	SCL60657	SCL60657AL
3/8	3/8	2	4	SCL60659	SCL60659AL
7/16	7/16	2	4	SCL60661	SCL60661AL
1/2	1/2	3	6	SCL60664	SCL60664AL
5/8	5/8	3	6	SCL60666	SCL60666AL
3/4	3/4	3	6	SCL60668	SCL60668AL
1	1	3	6	SCL60670	SCL60670AL

1 per tube

30° Right Hand Helix Right Hand Cut

Four Flute, Single End, Center Cutting

Square End



Stub Length

Expanded

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/16	1/8	1/8	1-1/2	SCS60641	SCS60641AL
3/32	1/8	3/16	1-1/2	SCS60642	SCS60642AL
1/8	1/8	1/4	1-1/2	SCS60643	SCS60643AL
5/32	3/16	5/16	2	SCS60644	SCS60644AL
3/16	3/16	3/8	2	SCS60645	SCS60645AL
7/32	1/4	7/16	2	SCS60646	SCS60646AL
1/4	1/4	1/2	2	SCS60647	SCS60647AL
5/16	5/16	1/2	2	SCS60648	SCS60648AL
3/8	3/8	5/8	2	SCS60649	SCS60649AL
7/16	7/16	5/8	3	SCS60650	SCS60650AL
1/2	1/2	5/8	2-1/2	SCS60651	SCS60651AL
5/8	5/8	3/4	3	SCS60652	SCS60652AL
3/4	3/4	1	3	SCS60653	SCS60653AL

1 per tube

Micrograin Solid Carbide End Mills

30° Right Hand Helix Right Hand Cut

Four Flute, Single End, Metric with Metric Shanks



30° Right Hand Helix Right Hand Cut

MADE IN
U. S. A.

Four Flute, Single End, Ball Nose, Center Cutting

Features:

- Micrograin solid carbide end mills provide outstanding performance and allows optimum cutting speeds and feeds, high rigidity and minimum tool deflection.
- Ball nose geometry for inside corner radius and CNC contouring.



Regular Length

Expanded

MILL DIA. MM	SHANK DIA. MM	FLUTE LENGTH	OAL MM	STOCK #	
				UNCOATED	AITIN COATED
2.00	3.00	6	38	SCM91602	SCM91602AL
2.50	3.00	7	38	SCM91604	SCM91604AL
3.00	3.00	12	38	SCM91606	SCM91606AL
3.50	4.00	12	50	SCM91608	SCM91608AL
4.00	4.00	14	50	SCM91610	SCM91610AL
4.50	5.00	14	50	SCM91612	SCM91612AL
5.00	5.00	16	50	SCM91614	SCM91614AL
6.00	6.00	19	63	SCM91616	SCM91616AL
7.00	8.00	19	63	SCM91618	SCM91618AL
8.00	8.00	19	63	SCM91620	SCM91620AL
9.00	10.00	22	70	SCM91622	SCM91622AL
10.00	10.00	22	70	SCM91624	SCM91624AL
11.00	11.00	25	70	SCM91625	SCM91625AL
12.00	12.00	25	75	SCM91626	SCM91626AL
14.00	14.00	30	88	SCM91627	SCM91627AL
16.00	16.00	32	88	SCM91628	SCM91628AL
18.00	18.00	36	100	SCM91629	SCM91629AL
20.00	20.00	38	100	SCM91630	SCM91630AL
22.00	22.00	38	100	SCM91631	SCM91631AL

1 per tube

Regular Length

Expanded

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/32	1/8	3/32	1-1/2	SCB60665	SCB60665AL
3/64	1/8	1/8	1-1/2	SCB60666	SCB60666AL
1/16	1/8	1/4	1-1/2	SCB60667	SCB60667AL
5/64	1/8	1/4	1-1/2	SCB60668	SCB60668AL
3/32	1/8	3/8	1-1/2	SCB60669	SCB60669AL
7/64	1/8	3/8	1-1/2	SCB60670	SCB60670AL
1/8	1/8	1/2	1-1/2	SCB60671	SCB60671AL
3/16	3/16	5/8	2	SCB60672	SCB60672AL
1/4	1/4	3/4	2-1/2	SCB60673	SCB60673AL
5/16	5/16	7/8	2-1/2	SCB60674	SCB60674AL
3/8	3/8	7/8	2-1/2	SCB60675	SCB60675AL
7/16	7/16	1	2-1/2	SCB60676	SCB60676AL
1/2	1/2	1	3	SCB60677	SCB60677AL
5/8	5/8	1-1/4	3-1/2	SCB60678	SCB60678AL
3/4	3/4	1-1/2	4	SCB60679	SCB60679AL
1	1	1-1/2	4	SCB60680	SCB60680AL

1 per tube

Micrograin Solid Carbide Corner Radius End Mills

Corner Radius Right Hand Cut

Four Flute, Single End



- Features:**
- Used for generating corner radius on workpiece, eliminating sharp corners.
 - Promotes additional strength, longer tool life, resulting in greater productivity.
 - Designed for a wide range of ferrous materials, including stainless steels and high temperature alloys.



NEW!

Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #			
				.015 RADIUS		.030 RADIUS	
				UNCOATED	AITIN COATED	UNCOATED	AITIN COATED
1/8	1/8	1/2	1-1/2	CRM71505	CRM71505AL	CRM73005	CRM73005AL
3/16	3/16	5/8	2	CRM71509	CRM71509AL	CRM73009	CRM73009AL
1/4	1/4	3/4	2-1/2	CRM71513	CRM71513AL	CRM73013	CRM73013AL
5/16	5/16	13/16	2-1/2	CRM71517	CRM71517AL	CRM73017	CRM73017AL
3/8	3/8	1	2-1/2	CRM71521	CRM71521AL	CRM73021	CRM73021AL
1/2	1/2	1	3	CRM71529	CRM71529AL	CRM73029	CRM73029AL
5/8	5/8	1-1/4	3-1/2	CRM71531	CRM71531AL	CRM73031	CRM73031AL
3/4	3/4	1-1/2	4	CRM71533	CRM71533AL	CRM73033	CRM73033AL

Micrograin Solid Carbide End Mills

**30° Right Hand Helix,
Right Hand Cut**

MADE IN
U. S. A.

**Four Flute, Double End,
Center Cutting**

Features:

- Micrograin solid carbide end mills provide outstanding performance and allows optimum cutting speeds and feeds, high rigidity and minimum tool deflection.
- Designed for aggressive milling of most materials.

Square End



Regular Length

Expanded

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/32	1/8	3/32	2	DEC66861	DEC66861AL
3/64	1/8	1/8	2	DEC66862	DEC66862AL
1/16	1/8	3/16	2	DEC66863	DEC66863AL
3/32	1/8	1/4	2	DEC66864	DEC66864AL
1/8	1/8	3/8	2	DEC66865	DEC66865AL
5/32	3/16	7/16	2-1/2	DEC66867	DEC66867AL
3/16	3/16	1/2	2-1/2	DEC66869	DEC66869AL
7/32	1/4	9/16	2-1/2	DEC66871	DEC66871AL
1/4	1/4	5/8	2-1/2	DEC66873	DEC66873AL
5/16	5/16	3/4	3-1/2	DEC66875	DEC66875AL
3/8	3/8	3/4	3-1/2	DEC66877	DEC66877AL
7/16	7/16	7/8	4	DEC66879	DEC66879AL
1/2	1/2	1	4	DEC66881	DEC66881AL

1 per tube

**Four Flute, Double End,
Center Cutting**

Features:

- Micrograin solid carbide end mills provide outstanding performance and allows optimum cutting speeds and feeds, high rigidity and minimum tool deflection.
- Designed for aggressive milling of most materials.

Square End



Stub Length

Expanded

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/32	1/8	1/16	1-1/2	DEC66883	DEC66883AL
3/64	1/8	3/32	1-1/2	DEC66885	DEC66885AL
1/16	1/8	1/8	1-1/2	DEC66887	DEC66887AL
3/32	1/8	3/16	1-1/2	DEC66889	DEC66889AL
1/8	1/8	1/4	1-1/2	DEC66891	DEC66891AL
5/32	3/16	5/16	2	DEC66892	DEC66892AL
3/16	3/16	3/8	2	DEC66893	DEC66893AL
7/32	1/4	1/2	2-1/2	DEC66894	DEC66894AL
1/4	1/4	1/2	2-1/2	DEC66895	DEC66895AL
5/16	5/16	1/2	2-1/2	DEC66896	DEC66896AL
3/8	3/8	1/2	2-1/2	DEC66897	DEC66897AL
7/16	7/16	1/2	2-1/2	DEC66898	DEC66898AL
1/2	1/2	5/8	3	DEC66899	DEC66899AL

1 per tube

Micrograin Solid Carbide High Performance End Mills

**Variable Helix Finishing
Right Hand Spiral
Right Hand Cut**

Features:

- Variable indexed flute-to-flute reduces vibrations, allowing increased feeds and speeds.
- Eccentric-radial O.D. relieved for increased tool strength, allowing greater feeds and speeds.
- Standard with AITiN coating for heavy fast metal removal rates.
- Can be used dry.
- Shank O.D. coolant groove in each flute to maximize cooling & chip evacuation velocity.

Four Flute



Regular Length

NEW!

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				AITIN COATED	
1/8	1/8	3/8	1-1/2	HPSC60605AL	
3/16	3/16	7/16	2	HPSC60609AL	
1/4	1/4	5/8	2-1/2	HPSC60613AL	
5/16	5/16	13/16	2-1/2	HPSC60617AL	
3/8	3/8	7/8	2-1/2	HPSC60621AL	
7/16	7/16	1	2-3/4	HPSC60625AL	
1/2	1/2	1	3	HPSC60629AL	
5/8	5/8	1-1/4	3-1/2	HPSC60631AL	
3/4	3/4	1-1/2	4	HPSC60633AL	
1	1	1-1/2	4	HPSC60635AL	

1 per tube

Four Flute, Ball Nose



Regular Length

NEW!

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				AITIN COATED	
1/8	1/8	3/8	1-1/2	HPSCB60671AL	
3/16	3/16	7/16	2	HPSCB60672AL	
1/4	1/4	5/8	2-1/2	HPSCB60673AL	
5/16	5/16	13/16	2-1/2	HPSCB60674AL	
3/8	3/8	7/8	2-1/2	HPSCB60675AL	
7/16	7/16	1	2-3/4	HPSCB60676AL	
1/2	1/2	1	3	HPSCB60677AL	
5/8	5/8	1-1/4	3-1/2	HPSCB60678AL	
3/4	3/4	1-1/2	4	HPSCB60679AL	
1	1	1-1/2	4	HPSCB60680AL	

1 per tube

Micrograin Solid Carbide Roughing End Mills

Right Hand Helix Right Hand Cut

MADE IN
U. S. A.

- Features:**
- Provides excellent roughing with reduced heat in the cut for hard material.
 - Form relieved on high strength carbide for excellent profile milling.
 - Suitable for profiling, plunging, and ramping roughing operations in all types of hard material.
 - Fine profile.
 - Small corner radius for strength.

COARSE PITCH

Four Flute, Coarse Pitch



FINE PITCH

Multi-Flute, Fine Pitch



Regular Length

NEW!

CUTTER DIA.	SHANK DIA.	LENGTH OF CUT	OAL	STOCK #	
				UNCOATED	AITIN COATED
1/4	1/4	3/4	2-1/2	SCREM50801	SCREM50801AL
5/16	5/16	3/4	2-1/2	SCREM50802	SCREM50802AL
3/8	3/8	1	2-1/2	SCREM50803	SCREM50803AL
7/16	7/16	1	3	SCREM50803A	SCREM50803AAL
1/2	1/2	1-1/4	3	SCREM50804	SCREM50804AL
5/8	5/8	1-1/4	3-1/2	SCREM50806	SCREM50806AL
3/4	3/4	1-1/2	4	SCREM50811	SCREM50811AL
1	1	1-1/2	4	SCREM50818	SCREM50818AL

Long Length

CUTTER DIA.	SHANK DIA.	LENGTH OF CUT	OAL	STOCK #
				UNCOATED
1/4	1/4	1-1/8	3	SCREM50829
3/8	3/8	1-1/4	3	SCREM50830
1/2	1/2	2	4	SCREM50831
5/8	5/8	2-1/4	5	SCREM50832
3/4	3/4	2-1/4	5	SCREM50833
1	1	2-1/4	5	SCREM50841

1 per tube

Regular Length

NEW!

CUTTER DIA.	SHANK DIA.	LENGTH OF CUT	OAL	NO. OF FLUTES	STOCK #	
					UNCOATED	AITIN COATED
1/4	1/4	3/4	2-1/2	3	SCREM60901	SCREM60901AL
5/16	5/16	3/4	2-1/2	3	SCREM60902	SCREM60902AL
3/8	3/8	7/8	2-1/2	3	SCREM60903	SCREM60903AL
1/2	1/2	1	3	4	SCREM60904	SCREM60904AL
5/8	5/8	1-1/4	3-1/2	4	SCREM60906	SCREM60906AL
3/4	3/4	1-1/2	4	4	SCREM60911	SCREM60911AL
1	1	1-1/2	4	6	SCREM60918	SCREM60918AL

1 per tube

SOLID CARBIDE ROUGHERS – SPEEDS & FEEDS

MATERIAL	HARDNESS HRc	SFM UNCOATED	SFM ALTiN COATED	CHIP LOAD PER TOOTH	
				1/4" - 1/2"	1/2" - 1"
LOW AND PLAIN CARBON, ALLOY & TOOL STEELS	< 19	258 - 345	430 - 575	.0015 - .003	.003 - .0045
LOW AND PLAIN CARBON, ALLOY & TOOL STEELS	20 - 30	210 - 258	350 - 430	.0015 - .003	.003 - .0045
LOW AND PLAIN CARBON, ALLOY & TOOL STEELS	31 - 40	126 - 192	210 - 320	.0011 - .0021	.0021 - .0032
AUSTENITIC STAINLESS STEELS, 200 & 300 SERIES 135-275	< 28	150 - 300	250 - 500	.0010 - .0025	.0025 - .0040
FERRITIC, MARTENSITIC 400, 500 & PH STAINLESS STEELS	< 35	135 - 258	225 - 430	.0015 - .0030	.0030 - .0045
TITANIUM ALLOYS	32 - 43	75 - 129	125 - 215	.0009 - .0018	.0018 - .0027
NICKEL-BASED HIGH TEMPERATURE ALLOYS	< 32	39 - 87	65 - 145	.0009 - .0018	.0018 - .0027
NICKEL-BASED HIGH TEMPERATURE ALLOYS	32 - 50	33 - 66	55 - 110	.0009 - .0018	.0018 - .0027
COBALT-BASED HIGH TEMPERATURE ALLOYS	< 45	27 - 45	45 - 75	.0009 - .0018	.0018 - .0027

HSS End Mills

**Weldon Shank
30° Right Hand Helix
Right Hand Cut**

MADE IN

U. S. A.

Two Flute, Single End, Center Cutting

- Used for general purpose milling operations including profiling, slotting, keyways, pockets and plunge cutting.



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
ALFA USA				
1/8	3/8	3/8	2-5/16	SE151301
3/16	3/8	7/16	2-5/16	SE151302
1/4	3/8	1/2	2-5/16	SE151303
5/16	3/8	9/16	2-5/16	SE151304
3/8	3/8	9/16	2-5/16	SE151305
7/16	3/8	13/16	2-1/2	SE151306
1/2	3/8	13/16	2-1/2	SE151307
1/2	1/2	1	3	SE151308
9/16	1/2	1-1/8	3-1/8	SE151309
5/8	1/2	1-1/8	3-1/8	SE151310
5/8	5/8	1-5/16	3-7/16	SE151311
11/16	1/2	1-5/16	3-5/16	SE151312
11/16	5/8	1-5/16	3-7/16	SE151313
3/4	1/2	1-5/16	3-5/16	SE151314
3/4	5/8	1-5/16	3-7/16	SE151315
3/4	3/4	1-5/16	3-9/16	SE151316
13/16	3/4	1-1/2	3-3/4	SE151317
7/8	5/8	1-1/2	3-5/8	SE151318
7/8	3/4	1-1/2	3-3/4	SE151319
7/8	7/8	1-1/2	3-3/4	SE151320
15/16	3/4	1-1/2	3-3/4	SE151321
1	3/4	1-1/2	3-3/4	SE151324
1	1	1-5/8	4-1/8	SE151325
1-1/8	3/4	1-1/2	3-7/8	SE151326
1-1/8	1	1-5/8	4-1/8	SE151327
1-1/4	3/4	1-1/2	3-7/8	SE151328
1-1/4	1	1-5/8	4-1/8	SE151329
1-1/4	1-1/4	1-5/8	4-1/8	SE151330
1-3/8	3/4	1-1/2	3-7/8	SE151331
1-3/8	1	1-5/8	4-1/8	SE151332
1-1/2	3/4	1-1/2	3-7/8	SE151334
1-1/2	1	1-5/8	4-1/8	SE151335
1-1/2	1-1/4	1-5/8	4-1/8	SE151336
1-5/8	1-1/4	1-5/8	4-1/8	SE151338
1-3/4	3/4	1-1/2	3-7/8	SE151339
1-3/4	1-1/4	1-5/8	4-1/8	SE151340
1-7/8	1-1/4	1-5/8	4-1/8	SE151341
2	3/4	1-1/2	3-7/8	SE151342
2	1-1/4	1-5/8	4-1/8	SE151344

1 per tube

All end mills available TiN, TiCN, AlTiN
and TiAlN coated. Details on request.

Two Flute, Single End, Center Cutting

- Used for general purpose milling including profiling, slotting, keyways, pockets and plunge cutting.
- Provides an alternative length of cut for deep milling and profiling applications.



Long Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
ALFA USA				
3/8	3/8	1-1/2	3-1/4	SEL151351
1/2	1/2	2	4	SEL151352
5/8	5/8	2	4-1/8	SEL151353
3/4	3/4	2-1/4	4-1/2	SEL151354
7/8	7/8	2-1/2	4-3/4	SEL151355
1	1	3	5-1/2	SEL151356
1-1/8	1	3	5-1/2	SEL151357
1-1/4	1	3	5-1/2	SEL151358
1-1/4	1-1/4	3	5-1/2	SEL151359
1-3/8	1	3	5-1/2	SEL151360
1-1/2	1-1/4	3	5-1/2	SEL151361
1-5/8	1-1/4	3	5-1/2	SEL151362
1-3/4	1-1/4	3	5-1/2	SEL151363
1-7/8	1-1/4	3	5-1/2	SEL151364
2	1-1/4	3	5-1/2	SEL151365

1 per tube

Two Flute, Single End, Ball Nose, Center Cutting

- Used for all general purpose radius and slot milling, die sinking and profile milling.
- Also designed to plunge cut.



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
ALFA USA				
1/8	3/8	3/8	2-5/16	SEB151371
3/16	3/8	1/2	2-3/8	SEB151372
1/4	3/8	5/8	2-7/16	SEB151373
5/16	3/8	3/4	2-1/2	SEB151374
3/8	3/8	3/4	2-1/2	SEB151375
7/16	1/2	1	3	SEB151376
1/2	1/2	1	3	SEB151377
9/16	1/2	1	3-1/16	SEB151378
5/8	1/2	1-3/8	3-3/8	SEB151379
5/8	5/8	1-3/8	3-1/2	SEB151380
3/4	1/2	1-5/8	3-5/8	SEB151381
3/4	3/4	1-5/8	3-7/8	SEB151382
7/8	7/8	2	4-1/4	SEB151383
1	1	2-1/4	4-3/4	SEB151384
1-1/8	1	2-1/4	4-3/4	SEB151385
1-1/4	1-1/4	2-1/2	5	SEB151386
1-1/2	1-1/4	2-1/2	5	SEB151387

1 per tube

HSS End Mills

**Weldon Shank
30° Right Hand Helix
Right Hand Cut**

MADE IN

U. S. A.

Two Flute, Double End, Center Cutting

- Used for general purpose milling operations including profiling, slotting, keyways, pockets and plunge cutting.



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
ALFA USA				
1/8	3/8	3/8	3-1/16	DE150731
5/32	3/8	7/16	3-1/8	DE150732
3/16	3/8	7/16	3-1/8	DE150733
7/32	3/8	1/2	3-1/8	DE150734
1/4	3/8	1/2	3-1/8	DE150735
9/32	3/8	9/16	3-1/8	DE150736
5/16	3/8	9/16	3-1/8	DE150737
11/32	3/8	9/16	3-1/8	DE150738
3/8	3/8	9/16	3-1/8	DE150739
13/32	1/2	13/16	3-3/4	DE150740
7/16	1/2	13/16	3-3/4	DE150741
15/32	1/2	13/16	3-3/4	DE150742
1/2	1/2	13/16	3-3/4	DE150743
9/16	5/8	1-1/8	4-1/2	DE150744
5/8	5/8	1-1/8	4-1/2	DE150745
11/16	3/4	1-5/16	5	DE150746
3/4	3/4	1-5/16	5	DE150747
13/16	7/8	1-9/16	5-1/2	DE150748
7/8	7/8	1-9/16	5-1/2	DE150749
15/16	1	1-5/8	5-7/8	DE150750
1	1	1-5/8	5-7/8	DE150751

1 per tube

Two Flute, Double End, Ball Nose, Center Cutting

- Used for contour or pocket milling where the ball end is required to produce a radius in the work piece.
- Can be used for general purpose milling including slots, keyways, pockets and plunge cutting.



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
ALFA USA				
1/8	3/8	3/8	3-1/16	DEB150761
3/16	3/8	7/16	3-1/8	DEB150762
1/4	3/8	1/2	3-1/8	DEB150763
5/16	3/8	9/16	3-1/8	DEB150764
3/8	3/8	9/16	3-1/8	DEB150765
7/16	1/2	13/16	3-3/4	DEB150766
1/2	1/2	13/16	3-3/4	DEB150767
5/8	5/8	1-1/8	4-1/2	DEB150768
3/4	3/4	1-5/16	5	DEB150769
7/8	7/8	1-9/16	5-1/2	DEB150770
1	1	1-5/8	5-7/8	DEB150771

1 per tube

**All end mills available TiN, TiCN, AlTiN
and TiAlN coated. Details on request.**

HSS End Mills

Weldon Shank

30° Right Hand Helix

Right Hand Cut

MADE IN
U. S. A.

Multi-Flute, Single End, Center Cutting

- Used for general purpose milling operations including profiling, slotting, keyways, pockets and plunge cutting.



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OVERALL LENGTH	STOCK #
					ALFA USA
1/8	3/8	3/8	4	2-5/16	SECC151031
3/16	3/8	1/2	4	2-3/8	SECC151032
1/4	3/8	5/8	4	2-7/16	SECC151033
5/16	3/8	3/4	4	2-1/2	SECC151034
3/8	3/8	3/4	4	2-1/2	SECC151035
1/2	1/2	1-1/4	4	3-1/4	SECC151036
5/8	5/8	1-5/8	4	3-3/4	SECC151037
3/4	3/4	1-5/8	4	3-7/8	SECC151038
7/8	7/8	1-7/8	4	4-1/8	SECC151039
1	1	2	4	4-1/2	SECC151040
1-1/8	1	2	4	4-1/2	SECC151042
1-1/4	1-1/4	2	4	4-1/2	SECC151043
1-1/4	1-1/4	2	6	4-1/2	SECC151044
1-1/2	1-1/4	2	4	4-1/2	SECC151047
1-1/2	1-1/4	2	6	4-1/2	SECC151048
1-1/2	1-1/4	3	4	5-1/2	SECC151049
1-3/4	1-1/4	2	6	4-1/2	SECC151051
2	1-1/4	2	6	4-1/2	SECC151052

Long Length

NEW!

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OVERALL LENGTH	STOCK #
					ALFA USA
1/4	3/8	1-1/4	4	3-1/16	SECL151033
5/16	3/8	1-3/8	4	3-1/8	SECL151034
3/8	3/8	1-1/2	4	3-1/4	SECL151035
1/2	1/2	2	4	4	SECL151036
5/8	5/8	2-1/2	4	4-5/8	SECL151037
3/4	3/4	3	4	5-1/4	SECL151038
7/8	7/8	3-1/2	4	5-3/4	SECL151039
1	1	4	4	6-1/2	SECL151041
1-1/4	1-1/4	4	4	6-1/2	SECL151043
1-1/4	1-1/4	4	6	6-1/2	SECL151044
1-1/2	1-1/4	4	4	6-1/2	SECL151045
1-1/2	1-1/4	4	6	6-1/2	SECL151046
2	1-1/4	4	6	6-1/2	SECL151054

X-Long Length

NEW!

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OVERALL LENGTH	STOCK #
					ALFA USA
1/4	3/8	1-3/4	4	3-9/16	SECCXL151033
5/16	3/8	2	4	3-3/4	SECCXL151034
3/8	3/8	2-1/2	4	4-1/4	SECCXL151035
1/2	1/2	3	4	5	SECCXL151036
5/8	5/8	4	4	6-1/8	SECCXL151037
3/4	3/4	4	4	6-1/4	SECCXL151038
7/8	7/8	5	4	7-1/4	SECCXL151039
1	1	6	4	8-1/2	SECCXL151041
1-1/4	1-1/4"	6	6	8-1/2	SECCXL151044

1 per tube

Multi-Flute, Single End, Ball Nose, Center Cutting

- Used for all general purpose radius and slot milling, die sinking and profile milling. Also designed to plunge cut.



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OVERALL LENGTH	STOCK #
					ALFA USA
1/4	3/8	3/4	4	2-9/16	SEB150730
5/16	3/8	1	4	2-3/4	SEB150730A
3/8	3/8	1	4	2-3/4	SEB150731
1/2	1/2	1-1/2	4	3-1/2	SEB150732
5/8	5/8	1-3/4	4	3-7/8	SEB150733
3/4	3/4	1-1/2	4	3-3/4	SEB150734
1	1	2	4	4-1/2	SEB150735

Long Length

NEW!

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OVERALL LENGTH	STOCK #
					ALFA USA
1/4	3/8	1-1/4	4	3-1/16	SEBL150730
5/16	3/8	1-1/2	4	3-1/4	SEBL150730A
3/8	3/8	1-1/2	4	3-1/4	SEBL150731
1/2	1/2	2	4	4	SEBL150732
5/8	5/8	2-1/2	4	4-5/8	SEBL150733
3/4	3/4	2-1/4	4	4-1/2	SEBL150734
1	1	3	4	5-1/2	SEBL150735

1 per tube

X-Long Length

NEW!

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OVERALL LENGTH	STOCK #
					ALFA USA
1/4	3/8	1-1/2	4	3-5/16	SEBXL150730
3/8	3/8	2-1/2	4	4-5/16	SEBXL150731
1/2	1/2	3	4	5	SEBXL150732
5/8	5/8	3	4	5-1/8	SEBXL150733
3/4	3/4	3-3/4	4	6	SEBXL150734
1	1	4	4	6-1/2	SEBXL150735

All end mills available TiN, TiCN, AlTiN and TiAlN coated. Details on request.

HSS End Mills
C

HSS End Mills

**Weldon Shank
30° Right Hand Helix
Right Hand Cut**

MADE IN
U. S. A.

Multi-Flute, Single End, Non-Center Cutting

- Used for general purpose milling including profile milling and producing open-ended slots or pockets where a plunge feed-in is not required.



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OVERALL LENGTH	STOCK #
					ALFA USA
1/8	3/8	3/8	4	2-5/16	SE150651
3/16	3/8	1/2	4	2-3/8	SE150652
1/4	3/8	5/8	4	2-7/16	SE150653
5/16	3/8	3/4	4	2-1/2	SE150654
3/8	3/8	3/4	4	2-1/2	SE150655
7/16	3/8	1	4	2-11/16	SE150656
1/2	3/8	1	4	2-11/16	SE150657
1/2	1/2	1-1/4	4	3-1/4	SE150658
9/16	1/2	1-3/8	4	3-3/8	SE150659
5/8	1/2	1-3/8	4	3-3/8	SE150660
5/8	5/8	1-5/8	4	3-3/4	SE150661
11/16	1/2	1-5/8	4	3-5/8	SE150662
11/16	5/8	1-5/8	4	3-3/4	SE150663
3/4	1/2	1-5/8	4	3-5/8	SE150664
3/4	5/8	1-5/8	4	3-3/4	SE150665
3/4	3/4	1-5/8	4	3-7/8	SE150666
13/16	3/4	1-7/8	4	4-1/8	SE150667
7/8	5/8	1-7/8	6	4	SE150668
7/8	3/4	1-7/8	4	4-1/8	SE150669
7/8	7/8	1-7/8	4	4-1/8	SE150670
15/16	3/4	1-7/8	4	4-1/8	SE150671
1	5/8	1-7/8	6	4	SE150673
1	3/4	1-7/8	4	4-1/8	SE150674
1	1	2	4	4-1/2	SE150675
1-1/8	3/4	1-1/2	6	3-7/8	SE150676
1-1/8	1	2	6	4-1/2	SE150677
1-1/4	3/4	1-1/2	6	3-7/8	SE150678
1-1/4	1	2	6	4-1/2	SE150679
1-1/4	1-1/4	2	4	4-1/2	SE150680
1-1/4	1-1/4	2	6	4-1/2	SE150681
1-3/8	3/4	1-1/2	6	3-7/8	SE150682
1-3/8	1	2	6	4-1/2	SE150683
1-1/2	3/4	1-1/2	6	3-7/8	SE150684
1-1/2	1	2	6	4-1/2	SE150685
1-1/2	1-1/4	2	4	4-1/2	SE150686
1-1/2	1-1/4	2	6	4-1/2	SE150687
1-5/8	1-1/4	2	6	4-1/2	SE150689
1-3/4	3/4	1-1/2	6	3-7/8	SE150690
1-3/4	1-1/4	2	4	4-1/2	SE150691
1-3/4	1-1/4	2	6	4-1/2	SE150692
1-7/8	1-1/4	2	6	4-1/2	SE150693
2	3/4	1-1/2	8	3-7/8	SE150694
2	1-1/4	2	4	4-1/2	SE150695
2	1-1/4	2	6	4-1/2	SE150696

1 per tube

All end mills available TiN, TiCN, AlTiN and TiAlN coated. Details on request.

Multi-Flute, Single End, Non-Center Cutting

- Provides an alternative length of cut for deep milling and profiling applications.



Long Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OVERALL LENGTH	STOCK #
					ALFA USA
1/4	3/8	1-1/4	4	3-1/16	SEL150701
5/16	3/8	1-3/8	4	3-1/8	SEL150702
3/8	3/8	1-1/2	4	3-1/4	SEL150703
7/16	1/2	1-3/4	4	3-3/4	SEL150704
1/2	1/2	2	4	4	SEL150705
5/8	5/8	2-1/2	4	4-5/8	SEL150706
3/4	3/4	3	4	5-1/4	SEL150707
7/8	7/8	3-1/2	4	5-3/4	SEL150708
1	1	4	4	6-1/2	SEL150709
1-1/8	1	4	6	6-1/2	SEL150710
1-1/4	1	4	6	6-1/2	SEL150711
1-1/4	1-1/4	4	4	6-1/2	SEL150712
1-1/4	1-1/4	4	6	6-1/2	SEL150713
1-1/2	1	4	6	6-1/2	SEL150715
1-1/2	1-1/4	4	6	6-1/2	SEL150716
1-3/4	1-1/4	4	6	6-1/2	SEL150717
2	1-1/4	4	6	6-1/2	SEL150718

1 per tube

Multi-Flute, Double End, Non-Center Cutting



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OVERALL LENGTH	STOCK #
					ALFA USA
1/8	3/8	3/8	4	3-1/16	DE151401
5/32	3/8	7/16	4	3-1/8	DE151402
3/16	3/8	1/2	4	3-1/4	DE151403
7/32	3/8	9/16	4	3-1/4	DE151404
1/4	3/8	5/8	4	3-3/8	DE151405
9/32	3/8	11/16	4	3-3/8	DE151406
5/16	3/8	3/4	4	3-1/2	DE151407
11/32	3/8	3/4	4	3-1/2	DE151408
3/8	3/8	3/4	4	3-1/2	DE151409
13/32	1/2	1	4	4-1/8	DE151410
7/16	1/2	1	4	4-1/8	DE151411
15/32	1/2	1	4	4-1/8	DE151412
1/2	1/2	1	4	4-1/8	DE151413
9/16	5/8	1-3/8	4	5	DE151414
5/8	5/8	1-3/8	4	5	DE151415
11/16	3/4	1-5/8	4	5-5/8	DE151416
3/4	3/4	1-5/8	4	5-5/8	DE151417
13/16	7/8	1-7/8	4	6-1/8	DE151418
7/8	7/8	1-7/8	4	6-1/8	DE151419
15/16	1	1-7/8	4	6-3/8	DE151420
1	1	1-7/8	4	6-3/8	DE151421

1 per tube

HSS End Mills – Miniature

Right Hand Cut

Two Flute, Double End, Center Cutting



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/32	3/16	3/32	2-1/4	DE50753
1/16	3/16	7/32	2-1/4	DE50754
5/64	3/16	1/4	2-1/4	DE50755
3/32	3/16	5/16	2-1/4	DE50756
7/64	3/16	11/32	2-1/4	DE50757
1/8	3/16	3/8	2-1/4	DE50758
9/64	3/16	13/32	2-1/4	DE50759
5/32	3/16	7/16	2-1/4	DE50760
11/64	3/16	15/32	2-1/4	DE50761
3/16	3/16	1/2	2-1/4	DE50762

1 per pack

Four Flute, Double End, Regular End



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/16	3/16	5/16	2-1/4	DE51423
5/64	3/16	5/16	2-1/4	DE51424
3/32	3/16	5/16	2-1/4	DE51425
7/64	3/16	5/16	2-1/4	DE51426
1/8	3/16	3/8	2-1/4	DE51427
9/64	3/16	3/8	2-1/4	DE51428
5/32	3/16	7/16	2-1/4	DE51429
11/64	3/16	7/16	2-1/4	DE51430
3/16	3/16	1/2	2-1/4	DE51431

1 per pack

Features: • For cutting and finishing in hard-to-reach applications.



Long Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/16	3/16	7/32	2-1/2	DE50754L
5/64	3/16	1/4	2-1/2	DE50755L
3/32	3/16	9/32	2-5/8	DE50756L
7/64	3/16	9/32	2-5/8	DE50757L
1/8	3/16	3/4	3-1/8	DE50758L
9/64	3/16	3/4	3-1/8	DE50759L
5/32	3/16	7/8	3-1/4	DE50760L
11/64	3/16	7/8	3-1/4	DE50761L
3/16	3/16	1	3-3/8	DE50762L

1 per pack

Long Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
5/64	3/16	1/4	2-5/8	DE51424L
3/32	3/16	9/32	2-5/8	DE51425L
7/64	3/16	9/32	2-5/8	DE51426L
1/8	3/16	3/4	3-1/8	DE51427L
9/64	3/16	3/4	3-1/8	DE51428L
5/32	3/16	7/8	3-1/4	DE51429L
11/64	3/16	7/8	3-1/4	DE51430L
3/16	3/16	1	3-3/8	DE51431L

1 per pack

Features: • Most cost-effective option for shallow milling.
• Shorter length improves rigidity of tool.



Stub Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/32	3/16	3/64	2	DE50753S
1/16	3/16	3/32	2	DE50754S
5/64	3/16	1/8	2	DE50755S
3/32	3/16	9/64	2	DE50756S
7/64	3/16	5/32	2	DE50757S
1/8	3/16	3/16	2	DE50758S
9/64	3/16	7/32	2	DE50759S
5/32	3/16	15/64	2	DE50760S
11/64	3/16	1/4	2	DE50761S
3/16	3/16	9/32	2	DE50762S

1 per pack



Stub Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/16	3/16	3/32	2	DE51423S
5/64	3/16	1/8	2	DE51424S
3/32	3/16	9/64	2	DE51425S
7/64	3/16	5/32	2	DE51426S
1/8	3/16	3/16	2	DE51427S
9/64	3/16	7/32	2	DE51428S
5/32	3/16	15/64	2	DE51429S
11/64	3/16	1/4	2	DE51430S
3/16	3/16	9/32	2	DE51431S

1 per pack

MADE IN
U. S. A.

Cobalt M42 End Mills

**Weldon Shank
30° Right Hand Helix
Right Hand Cut**

MADE IN
U. S. A.

- Features:**
- Designed for tougher cutting assignments on high-strength, high-temp steels and exotic materials or for extended production runs in conventional and non-conventional milling operations.
 - Used for general purpose milling including profiling, slotting, keyways, pockets and plunge cutting.

**Two Flute, Single End,
Center Cutting**



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
				ALFA USA
1/8	3/8	3/8	2-5/16	CO51301
3/16	3/8	7/16	2-5/16	CO51302
1/4	3/8	1/2	2-5/16	CO51303
5/16	3/8	9/16	2-5/16	CO51304
3/8	3/8	9/16	2-5/16	CO51305
7/16	3/8	13/16	2-1/2	CO51306
1/2	3/8	13/16	2-1/2	CO51307
1/2	1/2	1	3	CO51308
9/16	1/2	1-1/8	3-1/8	CO51309
5/8	1/2	1-1/8	3-1/8	CO51310
5/8	5/8	1-5/16	3-7/16	CO51311
3/4	1/2	1-5/16	3-5/16	CO51314
3/4	5/8	1-5/16	3-7/16	CO51315
3/4	3/4	1-5/16	3-9/16	CO51316
7/8	5/8	1-1/2	3-5/8	CO51318
7/8	7/8	1-1/2	3-3/4	CO51320
1	5/8	1-1/2	3-5/8	CO51323
1	3/4	1-1/2	3-3/4	CO51324
1	1	1-5/8	4-1/8	CO51325
1-1/4	1-1/4	1-5/8	4-1/8	CO51330
1-1/2	1-1/4	1-5/8	4-1/8	CO51336
2	1-1/4	1-5/8	4-1/8	CO51343

1 per tube

**Two Flute, Double End,
Center Cutting**



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
				ALFA USA
1/8	3/8	3/8	3-1/16	CO50731
5/32	3/8	7/16	3-1/8	CO50732
3/16	3/8	7/16	3-1/8	CO50733
7/32	3/8	1/2	3-1/8	CO50734
1/4	3/8	1/2	3-1/8	CO50735
9/32	3/8	9/16	3-1/8	CO50736
5/16	3/8	9/16	3-1/8	CO50737
3/8	3/8	9/16	3-1/8	CO50739
13/32	1/2	13/16	3-3/4	CO50740
7/16	1/2	13/16	3-3/4	CO50741
1/2	1/2	13/16	3-3/4	CO50743
9/16	5/8	1-1/8	4-1/2	CO50744
5/8	5/8	1-1/8	4-1/2	CO50745
3/4	3/4	1-5/16	5	CO50747
7/8	7/8	1-9/16	5-1/2	CO50749
1	1	1-5/8	5-7/8	CO50751

1 per tube

*All end mills available TiN, TiCN, AlTiN
and TiAlN coated. Details on request.*

Cobalt M42 End Mills - Cont.

**Weldon Shank
30° Right Hand Helix
Right Hand Cut**

MADE IN
U. S. A.

- Features:**
- Designed for tougher cutting assignments on high-strength, high-temp steels and exotic materials or for extended production runs in conventional and non-conventional milling operations.
 - Used for general purpose milling including profiling, slotting, keyways, pockets and plunge cutting.

**Multi-Flute, Single End,
Center Cutting**



Regular Length

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OVERALL LENGTH	STOCK #
					ALFA USA
1/8	3/8	3/8	4	2-5/16	CO50651
3/16	3/8	1/2	4	2-3/8	CO50652
1/4	3/8	5/8	4	2-7/16	CO50653
5/16	3/8	3/4	4	2-1/2	CO50654
3/8	3/8	3/4	4	2-1/2	CO50655
1/2	1/2	1-1/4	4	3-1/4	CO50658
5/8	5/8	1-5/8	4	3-3/4	CO50661
3/4	3/4	1-5/8	4	3-7/8	CO50666
7/8	7/8	1-7/8	4	4-1/8	CO50667
1	1	2	4	4-1/2	CO50675
1-1/4	1-1/4	2	4	4-1/2	CO50680
1-1/4	1-1/4	2	6	4-1/2	CO50681
1-1/2	1-1/4	2	4	4-1/2	CO50686
1-1/2	1-1/4	2	6	4-1/2	CO50687
2	1-1/4	2	6	4-1/2	CO50688

Long Length

3/8	3/8	1-1/2	4	3-1/4	CO50655L
1/2	1/2	2	4	4	CO50658L
5/8	5/8	2-1/2	4	4-5/8	CO50661L
3/4	3/4	3	4	5-1/4	CO50666L
1	1	4	4	6-1/2	CO50675L
1-1/4	1-1/4	4	4	6-1/2	CO50680L
1-1/4	1-1/4	4	6	6-1/2	CO50681L

1 per tube

*All end mills available TiN, TiCN, AlTiN
and TiAlN coated. Details on request.*



DIH13300
DIH13325
(Lockable)

TOOLS NOT INCLUDED

END MILL DISPENSER

(Three Drawers)

Dimensions: 26" W x 12" D x 9-5/16" H

DESCRIPTION	WEIGHT	STOCK #
FOR TWO FLUTE END MILLS Holds sizes 1/16" to 1" Lockable, stackable	37 lbs.	DIH13300
FOR FOUR FLUTE END MILLS Holds sizes 1/16" to 1" Lockable, stackable	37 lbs.	DIH13325

MADE IN
U. S. A.

Cobalt M42 End Mills

C

Cobalt M42 Roughing End Mills

30° Right Hand Helix

Right Hand Cut

Sinusoidal Tooth Form

MADE IN
U. S. A.

COARSE PITCH

**Multi-Flute,
Coarse Pitch,
Non-Center Cutting**



Round Profile

**Multi-Flute, Ball Nose,
Coarse Pitch,
Center Cutting**



Round Profile

Regular Length

CUTTER DIA.	SHANK DIA.	LENGTH OF CUT	OAL	NO. OF FLUTES	STOCK #
1/4	3/8	5/8	2-7/16	3	REM50801
5/16	3/8	3/4	2-1/2	3	REM50802
3/8	3/8	3/4	2-1/2	4	REM50803
5/8	5/8	1-5/8	3-3/4	4	REM50806
3/4	3/4	1-5/8	3-7/8	4	REM50811
7/8	3/4	1-7/8	4-1/8	5	REM50813
1	1	2	4-1/2	5	REM50818
1-1/8	1	2	4-1/2	6	REM50819
1-1/4	1-1/4	2	4-1/2	6	REM50822
1-1/2	1-1/4	2	4-1/2	6	REM50823
2	1-1/4	2	4-1/2	8	REM50825
2	2	4	7-3/4	8	REM50828

Medium & Long Length

CUTTER DIA.	SHANK DIA.	LENGTH OF CUT	OAL	NO. OF FLUTES	STOCK #
1/2	1/2	2	4	4	REM50831
5/8	5/8	2-1/2	4-5/8	4	REM50832
3/4	3/4	3	5-1/4	4	REM50833
7/8	3/4	3-1/2	5-3/4	5	REM50834
1	1	4	6-1/2	5	REM50841
1-1/4	1-1/4	4	6-1/2	6	REM50842
1-1/2	1-1/4	4	6-1/2	6	REM50843
2	1-1/4	4	6-1/2	8	REM50845
2	2	8	11-3/4	8	REM50846
2	2	10	13-3/4	8	REM50847
2	2	12	15-3/4	8	REM50848

1 per pack

**Multi-Flute, For Bridgeport,
Coarse Pitch**



CUTTER DIA.	SHANK DIA.	LENGTH OF CUT	OAL	NO. OF FLUTES	STOCK #
1	3/4	1-7/8	4-1/8	5	REM51134
1	3/4	4	6-1/4	5	REM51135
1-1/4	3/4	2	4-1/4	6	REM51138
1-1/4	3/4	4	6-1/4	6	REM51139
1-1/2	3/4	2-1/4	4-1/2	6	REM51141
1-1/2	3/4	4	6-1/4	6	REM51142

1 per pack

Regular, Medium & Long Length

CUTTER DIA.	SHANK DIA.	LENGTH OF CUT	OAL	NO. OF FLUTES	STOCK #
1/2	1/2	1-1/4	3-1/4	4	REM50881
1/2	1/2	2	4	4	REM50882
5/8	5/8	1-5/8	3-3/4	4	REM50883
5/8	5/8	2-1/2	4-5/8	4	REM50884
3/4	3/4	1-5/8	3-7/8	4	REM50885
3/4	3/4	3	5-1/4	4	REM50886
1	1	2	4-1/2	5	REM50888
1	1	4	6-1/2	5	REM50889
1-1/4	1-1/4	2	4-1/2	6	REM50890
1-1/4	1-1/4	4	6-1/2	6	REM50891
1-1/2	1-1/4	2	4-1/2	6	REM50892
1-1/2	1-1/4	4	6-1/2	6	REM50893

1 per pack

**Multi-Flute, Shell Type,
20° Right Hand Helix,
Right Hand Cut,
Non-Center
Cutting**



CUTTER DIA.	LENGTH OF CUT	HOLE OF CUT	NO. OF FLUTES	STOCK #
2	2	3/4	8	REM50853
2-1/4	2	1	8	REM50857
2-1/2	2	1	8	REM50861
2-3/4	2	1	8	REM50865
3	2	1-1/4	10	REM50869
3-1/2	2	1-1/4	10	REM50871
4	2-1/4	1-1/2	12	REM50872
4-1/2	2-1/4	1-1/2	14	REM50873
5	2-1/4	1-1/2	14	REM50874
5-1/2	2-1/4	2	16	REM50875
6	2-1/4	2	16	REM50876

1 per pack

HSS Cutters

Straight Teeth with 1/2" Dia. Shank



- Suitable for cutting smaller woodruff keysets.

WOODRUFF KEYSEAT CUTTERS

OLD STANDARD	AMERICAN STANDARD	NOMINAL DIA.	FACE WIDTH	OAL	STOCK #
1	204	1/2	1/16	2-1/16	WKC51761
2	304	1/2	3/32	2-3/32	WKC51762
3	305	5/8	3/32	2-3/32	WKC51763
4	404	1/2	1/8	2-1/8	WKC51764
5	405	5/8	1/8	2-1/8	WKC51765
7	406	3/4	1/8	2-1/8	WKC51766
6	505	5/8	5/32	2-5/32	WKC51767
61	605	5/8	3/16	2-3/16	WKC51768
8	506	3/4	5/32	2-5/32	WKC51769
91	806	3/4	1/4	2-1/4	WKC51770
10	507	7/8	5/32	2-5/32	WKC51771
9	606	3/4	3/16	2-3/16	WKC51772
11	607	7/8	3/16	2-3/16	WKC51773
12	707	7/8	7/32	2-7/32	WKC51774
13	608	1	3/16	2-3/16	WKC51775
14	708	1	7/32	2-7/32	WKC51776
152	1208	1	3/8	2-3/8	WKC51777
16	609	1-1/8	3/16	2-3/16	WKC51778

OLD STANDARD	AMERICAN STANDARD	NOMINAL DIA.	FACE WIDTH	OAL	STOCK #
A	807	7/8	1/4	2-1/4	WKC51779
15	808	1	1/4	2-1/4	WKC51780
17	709	1-1/8	7/32	2-7/32	WKC51781
18	809	1-1/8	1/4	2-1/4	WKC51782
19	610	1-1/4	3/16	2-3/16	WKC51783
20	710	1-1/4	7/32	2-7/32	WKC51784
21	810	1-1/4	1/4	2-1/4	WKC51785
22	811	1-3/8	1/4	2-1/4	WKC51786
24	812	1-1/2	1/4	2-1/4	WKC51787
B	1008	1	5/16	2-5/16	WKC51788
C	1009	1-1/8	5/16	2-5/16	WKC51789
D	1010	1-1/4	5/16	2-5/16	WKC51790
23	1011	1-3/8	5/16	2-5/16	WKC51791
25	1012	1-1/2	5/16	2-5/16	WKC51792
E	1210	1-1/4	3/8	2-3/8	WKC51793
F	1211	1-3/8	3/8	2-3/8	WKC51794
G	1212	1-1/2	3/8	2-3/8	WKC51795

1 per pack

CORNER ROUNDING CUTTERS



- Suitable for milling convex quarter circles on the edge of all types of materials.

RADIUS	SHANK DIA.	HEAD DIA.	OAL	STOCK #
1/16"	3/8"	7/16"	2-1/2"	CREM51702
3/32"	3/8"	1/2"	2-1/2"	CREM51703
1/8"	1/2"	5/8"	3"	CREM51704
5/32"	1/2"	3/4"	3"	CREM51705
3/16"	1/2"	7/8"	3"	CREM51706
1/4"	1/2"	1"	3"	CREM51708
5/16"	1/2"	1-1/8"	3-1/4"	CREM51711
3/8"	1/2"	1-1/4"	3-1/2"	CREM51714
7/16"	3/4"	1-3/8"	3-3/4"	CREM51716
1/2"	3/4"	1-1/2"	3-7/8"	CREM51717

1 per pack

DOVETAIL CUTTERS



- Suitable for dovetail milling in all types of materials.

ANGLE	CUTTER		SHANK DIA.	OAL	STOCK #
	DIA.	WIDTH			
60°	1/2"	1/4"	3/8"	2-1/8"	DTC51731
45°	1/2"	5/32"	3/8"	2-1/8"	DTC51732
60°	3/4"	5/16"	3/8"	2-1/8"	DTC51733
45°	3/4"	1/4"	3/8"	2-1/8"	DTC51734
60°	1-3/8"	9/16"	5/8"	2-7/8"	DTC51735
45°	1-3/8"	7/16"	5/8"	2-7/8"	DTC51736
60°	1-7/8"	13/16"	7/8"	3-1/4"	DTC51737
45°	1-7/8"	5/8"	7/8"	3-1/4"	DTC51738
60°	2-1/4"	1-1/16"	1"	3-3/4"	DTC51739
45°	2-1/4"	5/8"	1"	3-3/4"	DTC51740

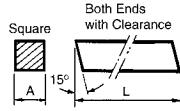
1 per pack

Tool Bits



High-Speed Steel Cobalt Steel • Ground

HIGH-SPEED STEEL SQUARE TOOL BITS BOTH ENDS BEVELED



Features:

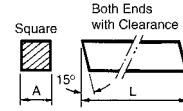
- Useable for general purpose applications.
- Unique tungsten-molybdenum high-speed steel tool bit provides excellent strength and toughness.
- Ideally suited for a wide variety of applications in ferrous and non-ferrous alloys.



SIZE A	OVERALL LENGTH L	STOCK #
		HSS
3/16	2-1/2	TBHS60803
1/4	2-1/2	TBHS60805
1/4	4	TBHS60806
5/16	2-1/2	TBHS60807
3/8	3	TBHS60809
7/16	3-1/2	TBHS60811
1/2	4	TBHS60813
1/2	6	TBHS60814
5/8	4-1/2	TBHS60815
3/4	5	TBHS60817
7/8	6	TBHS60819
1	7	TBHS60821

3/16" to 1/2", 5 per pack,
5/8" and above, 1 per pack

COBALT STEEL M-35 SQUARE TOOL BITS BOTH ENDS BEVELED



Features:

- Useable for the toughest applications.
- Manufactured from premium cobalt M-35 high-speed steel, these tools are designed to provide the best wear resistance on difficult-to-machine alloys and heat treated, high-strength steels.
- For production applications where higher speeds for feeds are desired with mild materials.



SIZE A	OVERALL LENGTH L	STOCK #
		COBALT
3/16	2-1/2	TBCS60803
1/4	2-1/2	TBCS60805
1/4	4	TBCS60806
5/16	2-1/2	TBCS60807
3/8	3	TBCS60809
7/16	3-1/2	TBCS60811
1/2	4	TBCS60813
1/2	6	TBCS60814
5/8	4-1/2	TBCS60815
3/4	5	TBCS60817
7/8	6	TBCS60819
1	7	TBCS60821

3/16" to 1/2", 5 per pack,
5/8" and above, 1 per pack

Carbide Tipped Tool Bits

Grade C2 for Cast Iron &
Non-Ferrous Metals Grade C5 for Steel



STYLE "AR & AL" Straight Turning Tool



RIGHT HAND

SIZE SQ x LENGTH	ANSI #	STOCK #		ANSI #	STOCK #	
		C2	C5		C2	C5
1/4" x 2"	AR4	TBAR4C2	TBAR4C5	AL4	TBAL4C2	TBAL4C5
5/16" x 2-1/4"	AR5	TBAR5C2	TBAR5C5	AL5	TBAL5C2	TBAL5C5
3/8" x 2-1/2"	AR6	TBAR6C2	TBAR6C5	AL6	TBAL6C2	TBAL6C5
7/16" x 3"	AR7	TBAR7C2	TBAR7C5	AL7	TBAL7C2	TBAL7C5
1/2" x 3-1/2"	AR8	TBAR8C2	TBAR8C5	AL8	TBAL8C2	TBAL8C5
5/8" x 4"	AR10	TBAR10C2	TBAR10C5	AL10	TBAL10C2	TBAL10C5
3/4" x 4-1/2"	AR12	TBAR12C2	TBAR12C5	AL12	TBAL12C2	TBAL12C5

1/4" to 3/8", 10 per pack, 7/16" to 3/4", 5 per pack

STYLE "BR & BL" Lead angle Turning Tool



LEFT HAND

ANSI #	STOCK #		ANSI #	STOCK #	
	C2	C5		C2	C5
BR4	TBBR4C2	TBBR4C5	BL4	TBBL4C2	TBBL4C5
BR5	TBBR5C2	TBBR5C5	BL5	TBBL5C2	TBBL5C5
BR6	TBBR6C2	TBBR6C5	BL6	TBBL6C2	TBBL6C5
BR7	TBBR7C2	TBBR7C5	BL7	TBBL7C2	TBBL7C5
BR8	TBBR8C2	TBBR8C5	BL8	TBBL8C2	TBBL8C5
BR10	TBBR10C2	TBBR10C5	BL10	TBBL10C2	TBBL10C5
BR12	TBBR12C2	TBBR12C5	BL12	TBBL12C2	TBBL12C5

STYLE "D" 80° POINTED NOSE TOOL



SIZE SQ x LENGTH	ANSI #	STOCK #	
		C2	C5
1/4" x 2"	D4	TBD4C2	TBD4C5
5/16" x 2-1/4"	D5	TBD5C2	TBD5C5
3/8" x 2-1/2"	D6	TBD6C2	TBD6C5
7/16" x 3"	D7	TBD7C2	TBD7C5
1/2" x 3-1/2"	D8	TBD8C2	TBD8C5
5/8" x 4"	D10	TBD10C2	TBD10C5
3/4" x 4-1/2"	D12	TBD12C2	TBD12C5

1/4" to 3/8", 10 per pack, 7/16" to 3/4", 5 per pack

STYLE "C" SQUARE NOSE TOOL



ANSI #	STOCK #	
	C2	C5
C4	TBC4C2	TBC4C5
C5	TBC5C2	TBC5C5
C6	TBC6C2	TBC6C5
C7	TBC7C2	TBC7C5
C8	TBC8C2	TBC8C5
C10	TBC10C2	TBC10C5
C12	TBC12C2	TBC12C5

STYLE "E" 60° THREADING TOOL



ANSI #	STOCK #	
	C2	C5
E4	TBE4C2	TBE4C5
E5	TBE5C2	TBE5C5
E6	TBE6C2	TBE6C5
E7	TBE7C2	TBE7C5
E8	TBE8C2	TBE8C5
E10	TBE10C2	TBE10C5
E12	TBE12C2	TBE12C5

STYLE "FR & FL" END CUTTING OFFSET TOOL



SIZE SQ x LENGTH	ANSI #	STOCK #		ANSI #	STOCK #	
		C2	C5		C2	C5
1/2" x 3-1/2"	FR8	TBFR8C2	TBFR8C5	FL8	TBFL8C2	TBFL8C5
5/8" x 4"	FR10	TBFR10C2	TBFR10C5	FL10	TBFL10C2	TBFL10C5
3/4" x 4-1/2"	-	-	-	-	-	-

1/2" to 3/4", 4/5 per pack

STYLE "GR & GL" SIDE CUTTING OFFSET TOOL



ANSI #	STOCK #		ANSI #	STOCK #	
	C2	C5		C2	C5
GR8	TBGR8C2	TBGR8C5	GL8	TBGL8C2	TBGL8C5
GR10	TBGR10C2	TBGR10C5	GL10	TBGL10C2	TBGL10C5
GR12	TBGR12C2	TBGR12C5	GL12	-	TBGL12C5

STYLE "CTR & CTL" CUT-OFF TOOL



SIZE SQ x H x LENGTH	ANSI #	TIP WIDTH	STOCK #	
			C2	C5
1/2" x 1" x 5"	CTR11	1/8"	TBCTR11C2	TBCTR11C5
	CTR22	3/16"	TBCTR22C2	TBCTR22C5
	CTR33	1/4"	TBCTR33C2	TBCTR33C5
LEFT HAND				
1/2" x 1" x 5"	CTL11	1/8"	TBCTL11C2	TBCTL11C5
	CTL22	3/16"	TBCTL22C2	TBCTL22C5
	CTL33	1/4"	TBCTL33C2	TBCTL33C5

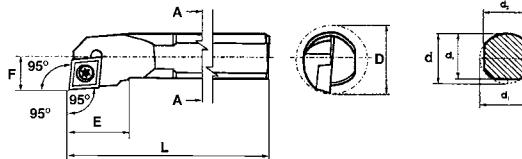
5 per pack

Indexable Insert Boring Bars

Screw-On Type



Negative 5° End and Side Cutting Angle
Positive 80° Diamond CCMT Inserts



Individual Boring Bars supplied without inserts.

BORING BAR STYLE	SHANK SIZE	MIN. BORE	LENGTH L	CENTER LINE F	INSERTS STYLE	STOCK #		LOCKING SCREW STOCK #	TORX KEY STOCK #
						RH	LH		
SCLCR/L 4-2	.315"	.354	4"	.1875	CCMT	BB870042R	BB870042L	SC2504	T7
SCLCR/L 6-2	3/8"	.468	6"	.2500	-21.51	BB870062R	BB870062L	SC2506	
SCLCR/L 8-3	1/2"	.600	7"	.3120		BB870083R	BB870083L		
SCLCR/L 10-3	5/8"	.866	8"	.4060	CCMT	BB870103R	BB870103L		
SCLCR/L 12-3	3/4"	.920	10"	.5000	-32.52	BB870123R	BB870123L	SC4008	T8
SCLCR/L 16-3	1"	1.120	12"	.6094		BB870163R	BB870163L		

1 per pack

25 per pack

REPLACEMENT CARBIDE INSERTS

STYLE	COATING	MATERIALS	APPLICATIONS	STOCK #
STAINLESS STEEL				
CCMT 21.51	TiAlN	Steels, Stainless,	Milling, Turning,	BBR310
CCMT 32.51	TiAlN	Cast Irons, HRSA	Drilling, Threading	BBR320
CCMT 32.52	TiAlN			BBR330
SHARP EDGE				
CCGT 21.51	Uncoated	Aluminum, Fiberglass,	Turning	BBR410
CCGT 32.51	Uncoated	Plastic, Teflon, Brass		BBR420
CCGT 32.52	Uncoated			BBR430

10 per pack

INDEXABLE BORING BAR SETS

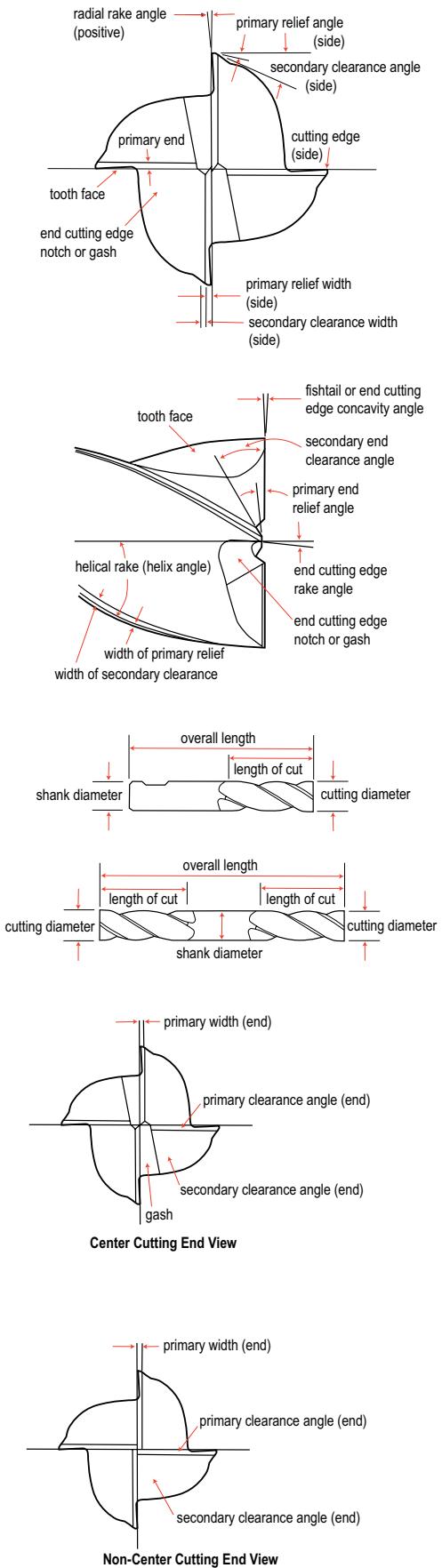
IN FITTED WOODEN BOX



BB870500

SET QTY.	BORING BAR SIZES	INSERTS IN SET	ACCESSORIES	STOCK #
11 Pcs.	1 each .315", 3/8", 1/2"	6 Pcs. CCM215L	1 Screw 1 Key	BB870500
13 Pcs.	1 each 3/8", 1/2", 5/8"	2 Pcs. CCMT21.51 4 Pcs. CCMT32.52	2 Screws 2 Keys	BB870515
11 Pcs.	1 each 1/2", 5/8", 3/4"	6 Pcs. CCMT32.52	1 Screw 1 Key	BB870510
19 Pcs.	1 ea. .315", 3/8", 1/2", 5/8", 3/4"	4 Pcs. CCMT21.51 6 Pcs. CCMT32.52	2 Screws 2 Keys	BB870505

End Mill Terminology



An end mill is a straight or tapered shank milling cutter, which extends or projects from the milling machine spindle unobstructed. It is one of the most versatile and most-used of the cutting tools in any machine shop. It is capable of milling, drilling, reaming, planning, shaping, contour cutting and more. Improvements in cutting efficiency through both design and material changes have only increased the use of this style of tool.

Axial Relief: The relief, measured in the axial direction, between a plane perpendicular to the axis at the cutting edge and the relieved surface.

Clearance (Secondary Relief): The additional space provided behind the relieved land. Eliminates undesirable contact between the mill and the workpiece.

Cutting Edge: The leading edge of the cutter tooth.

Flute: The chip space between the back of one tooth and the face of the following tooth.

Gash: The secondary cuts on a mill. Provides chip room.

Heel: The back edge of the relieved land.

Helical Rake: The angle between the tool axis and a tangent plane at a given point on the flute face.

Helix Angle: The cutting edge angle made by a helical cutting edge with a plane containing the axis of a cylindrical mill. When viewed from the cutter end of the mill, the flute will move clockwise for a right hand helix.

Hook: A concave condition of a tooth face. The rake of a hooked tooth face must be determined at a given point.

Land: Used to define the width of a specified surface.

Left Hand Cut: When viewed from the cutting end of the mill, a clockwise rotation of the mill is required to cut.

Length of Cut: The effective axial length of the relieved peripheral cutting edge.

Radial Rake: The angle between the tooth face and a radial line passing through the cutting edge in a plane perpendicular to the cutting axis.

Rake: The angular relationship between a reference plane or line and the tooth face or a tangent to the tooth face at a given point.

Relief: The result of the removal of tool material behind or adjacent to the cutting edge. Provides clearance and prevents rubbing.

Relief Angle: The angle formed between a relieved surface and a point on the cutting edge, or a given plane tangent to the axis.

Right Hand Cut: When viewed from the cutting end of the mill, a counterclockwise rotation is required to cut. Most end mills are right hand cut.

Shank: The projecting portion of a cutter which locates and drives the cutter from the machine spindle.

Tooth Face: The surface of the tooth on which the chip forms.



Bormax®

MEGACUT®
RouterMax™

NOMI™

Monolock®
QUICK CHANGE SYSTEM

Saws & Woodworking Tools

D

MegaCut® Circular Saw Blades

Carbide Tipped Saw Blades	D2-3
NEW! Carbide Tipped Saw Blades Metal Cutting ...	D4-5

Reciprocating & Jig Saw Blades

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NEW! Recip. Carbide Strip Saw Blades	D8
NEW! Recip. Carbide Grit Edge Saw Blades	D8
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NEW! Jig Saw Carbide Strip T-Shank Blades.....	D11
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NEW! The Bormax ³ ®, Carbide Tipped.....	D17
NEW! Super Forstner – Famag	D18
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Multi-Spur Forstner Bit, 7/16" Power Shank ..	D20

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NEW! Brad Point Drills - Double Land	D25
NEW! Auger Bits, Ship	D26
Auger Bits, Pipe	D27
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NEW! Auger Bits, Tri-Flute, Monolock® 1/4" Shank ..	D27
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NEW! Brad Point Drill Router / Set	D35
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Rotary Rasp / File Set.....	D37
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Carbide Tipped Circular Saw Blades

Carbide Tipped

Circular Saw Blades

D

MEGACUT®



SB68001



SB68072



SB68003



SB68004



SB68006



SB67064

Features:

- MEGACUT® blades cut smoother, faster, and cleaner than ordinary carbide blades.
- No burning and swirl marks, edge tear-outs or rough finishes.
- Tungsten carbide teeth retain a cutting edge for up to 50 times longer than steel blades.
- Use for high volume sawing in woods, non-ferrous metals, and rough materials such as compositions, roofing and flooring.
- Suitable for problematic applications such as cutting nail-embedded wood.
- Provides high performance and durability.
- All tungsten carbide blades cut without coolant.

ULTRA THIN KERF – ANTI-KICKBACK SHOULDER

BLADE SIZE	NO. OF TEETH	ARBOR	KERF	RPM	STOCK #
6-1/2" Combination	24	5/8"	.065	9800	SB68001
7-1/4" Combination	24	5/8"	.065	9400	SB68002

HEAVY DUTY CONTRACTOR BLADES

7-1/4" Combination	24	5/8" UNI	.082	9000	SB67064
7-1/4" Cross-Cut	40	5/8" UNI	.082	9000	SB67072
8-1/4" Combination	24	5/8" UNI	.084	7900	SB67069
10" Combination	40	5/8"	.094	7000	SB67077
10" Cross-Cut	60	5/8"	.094	7000	SB67066

THIN KERF – PROFESSIONAL BLADES

3-3/8" Combination	24	15mm	.065	12000	SB68003
4-3/8" Combination	18	20mm	.065	12000	SB68004
5-3/8" Combination	24	10mm	.065	10400	SB68005
6-1/2" Framing	18	5/8" UNI	.065	9800	SB68006
7-1/4" Framing	18	5/8" UNI	.065	9400	SB68007
8-1/4" Framing	40	5/8"	.090	8200	SB68008
10" Framing	24	5/8"	.090	7000	SB68009
12" Finishing	60	1"	.100	6400	SB68010

1 per clamshell pkg

Carbide Tipped Circular Saw Blades - Cont.

Carbide Tipped

Features:

- MEGACUT® blades cut smoother, faster, and cleaner than ordinary carbide blades.
- No burning and swirl marks, edge tear-outs or rough finishes.
- Tungsten carbide teeth retain a cutting edge for up to 50 times longer than steel blades.
- Use for high volume sawing in woods, non-ferrous metals, and rough materials such as compositions, roofing and flooring.
- Suitable for problematic applications such as cutting nail-embedded wood.
- Provides high performance and durability.
- All tungsten carbide blades cut without coolant.

NAIL CUTTING BLADES

BLADE SIZE	NO. OF TEETH	ARBOR	KERF	RPM	STOCK #
7-1/4"	14	5/8" UNI	.120	9400	SB68011
10"	24	5/8"	.130	7000	SB68012

SOLID SURFACES CUTTING BLADES – CORIAN

7-1/4"	40	5/8" UNI	.100	9400	SB68013
10"	60	5/8"	.130	7000	SB68014

NON-FERROUS METAL CUTTING BLADES

7-1/4"	40	5/8" UNI	.100	9400	SB68015
10"	60	5/8"	.100	7000	SB68016

1 per clamshell pkg

MEGACUT®



SB68011



SB68013



SB68015



SB68011

Carbide Tipped Circular Saw Blades - Metal Cutting

Carbide Tipped
Dry Cutting

MADE IN
U. S. A.

Metal Cutting

MEGACUT®



SB69903



SB69910

Features:

- Premium quality MEGACUT® Metal Cutting Blades are designed to quickly and cleanly cut difficult materials including: pipes, threaded rods, profiles, wire ducts, corrugated and trapezoidal sheets, sandwich panels, dry mortarless construction profiles and many more.
- Tungsten carbide teeth provide exceptional wear resistance for longer, more consistent blade life.
- Hardened to withstand heavy loads.
- Delivers precision performance each and every time.
- Body construction lowers vibration and dampens noise.
- Provides cool, burr-free cutting.
- Suitable for use in both stationary and portable metal cutting saws.
- Offers higher performance and durability than ordinary steel blades.

STAINLESS STEEL

NEW!

BLADE SIZE	NO. OF TEETH	ARBOR SIZE	MAX RPM	STOCK #
7"	48	20mm	5800	SB69901
9"	60	1"	3200	SB69902
14"	90	1"	1800	SB69903

STEEL

7"	40	20mm	5800	SB69910
8"	42	5/8"	5800	SB69911
9"	48	1"	3200	SB69912
14"	66	1"	1800	SB69913

1 per clamshell pkg

Carbide Tipped Circular Saw Blades - Metal Cutting - Cont.

Carbide Tipped Dry Cutting

MADE IN
U. S. A.

Metal Cutting

Features:

- Premium quality MEGACUT® Metal Cutting Blades are designed to quickly and cleanly cut difficult materials including: pipes, threaded rods, profiles, wire ducts, corrugated and trapezoidal sheets, sandwich panels, dry mortarless construction profiles and many more.
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- Body construction lowers vibration and dampens noise.
- Provides cool, burr-free cutting.
- Suitable for use in both stationary and portable metal cutting saws.
- Offers higher performance and durability than ordinary steel blades.

MEGACUT®



SB69932

STEEL STUDS

NEW!

BLADE SIZE	NO. OF TEETH	ARBOR SIZE	MAX RPM	STOCK #
14"	81	1"	1800	SB69920

ALUMINUM

7"	54	20mm	5800	SB69930
8"	60	5/8"	5800	SB69931
9"	72	1"	3200	SB69932
14"	80	1"	3800	SB69933

1 per clamshell pkg



SB69920



SB69930

*Cuts faster, smoother, cooler
and longer with MEGACUT® Cutting Lubricant*

Reciprocating Saw Blades

COBALT BI-METAL RECIPROCATING SAW BLADES

MADE IN
U. S. A.

1/2" Universal Shank

**The best blade technology
for cutting wood and metal,
including steel, stainless steel,
iron, sheet metal and pipe.**



Features:

- Unique combination of features provide triple the life of standard reciprocating saw blades.
- 8% Cobalt cutting edge is electron beam welded to a high strength steel backer for greater wear resistance and longer life.
- Wide size range for virtually all cutting applications.
- Available in different thicknesses to meet flexibility and stiffness needs for various applications.



Expanded

Reciprocating Saw Blades

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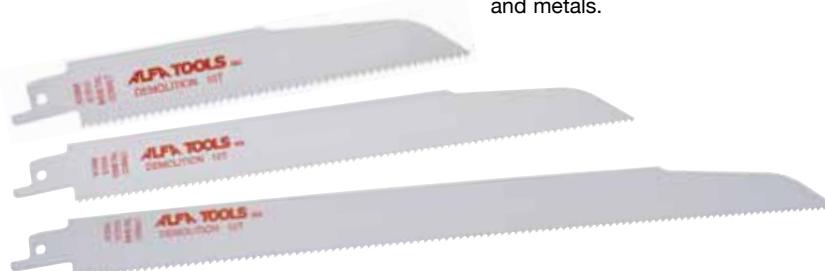
BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES	MM			BOXED 50 / BOX	TUBED 5 / TUBE
	4 x 3/4 x .035	100 x 20 x .9	14	Heavy gauge metals over 1/8" thick, Barstock & Angles	RSBM414	RSBM414P
	4 x 3/4 x .035	100 x 20 x .9	18	Metal over 18 gauge to 1/8" thick, Conduit, pipe, channels & tubing	RSBM418	RSBM418P
	4 x 3/4 x .035	100 x 20 x .9	24	Metal cutting 18 gauge & under, Galvanized pipe under 18 gauge	RSBM424	RSBM424P
	6 x 3/4 x .035	150 x 20 x .9	10	Wood, nail embedded wood, compositions, plastic, cast aluminum, & non-ferrous metals	RSBM610	RSBM610P
	6 x 3/4 x .035	150 x 20 x .9	14	Heavy gauge metals over 1/8" thick, Barstock & Angles	RSBM614	RSBM614P
	6 x 3/4 x .035	150 x 20 x .9	18	Heavy gauge metals of 18 gauge to 1/8" thick, conduit, pipe, channels & tubing	RSBM618	RSBM618P
	6 x 3/4 x .035	150 x 20 x .9	24	Metal cutting 18 gauge & under, Galvanized pipe under 18 gauge	RSBM624	RSBM624P
	8 x 3/4 x .035	200 x 20 x .9	10	Wood, nail embedded wood, composition materials, plastic, cast aluminum, light metals	RSBM810	RSBM810P
	8 x 3/4 x .035	200 x 20 x .9	14	Heavy gauge metals over 1/8" thick, Barstock & Angles	RSBM814	RSBM814P
	8 x 3/4 x .035	200 x 20 x 1.3	18	Heavy gauge metals of 18 gauge to 1/8" thick, conduit, pipe, channels & tubing	RSBM818	RSBM818P
	12 x 3/4 x .035	300 x 20 x .9	18	Heavy gauge metals of 18 gauge to 1/8" thick, conduit, pipe, channels & tubing	RSBM1218	RSBM1218P
	6 x 3/4 x .050	150 x 20 x 1.3	6	Heavy duty, all woods, nail embedded woods	RSBM66	RSBM66P
	6 x 7/16 x .050	150 x 11 x 1.3	6	Heavy duty, wood scroll cuts	RSBM556	RSBM556P
	9 x 3/4 x .050	225 x 20 x 1.3	6	Heavy duty, all woods, nail embedded woods	RSBM96	RSBM96P
	12 x 3/4 x .050	300 x 20 x 1.3	6	Heavy duty, all woods, nail embedded woods	RSBM126	RSBM126P
	6 x 3/4 x .035	150 x 20 x .9	6	Plaster with metal lath, sheet rock, plasterboard, plaster walls. Tooth design cuts both forward & on back stroke	RSBM66W	RSBM66WP

Reciprocating Saw Blades - Cont.

DEMOLITION BLADES

1/2" Universal Shank

Specially designed for the toughest demolition jobs.



Features:

- Reinforced teeth for long life in wood with nails and metal.
- Extra thickness and width for straight, powerful cuts.
- Cuts all wood, nail-embedded wood and metals.

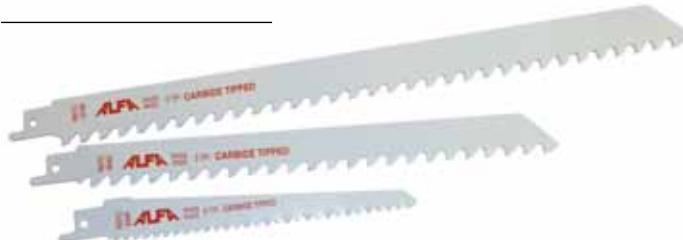


MADE IN
U. S. A.

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS INCHES	TPI	APPLICATION	STOCK #	
				BOXED 25 / BOX	TUBED 3 / TUBE
	6 x 7/8 x .062	6	All woods, nail-embedded woods and metals	RSBM6786	RSBM6786P
		10		RSBM67810	RSBM67810P
	9 x 7/8 x .062	6		RSBM9786	RSBM9786P
		10		RSBM97810	RSBM97810P
	12 x 7/8 x .062	6		RSBM12786	RSBM12786P
		10		RSBM127810	RSBM127810P

CARBIDE TIPPED RECIPROCATING SAW BLADES

1/2" Universal Shank



Features:

- Tungsten carbide tipped reciprocating saw blades out-perform and outlast ordinary blades many times over.
- Cutting tools tipped with tungsten carbide resist heat and dulling, even in rigorous high-speed production use.
- Can handle abrasive materials, such as plaster over lath, tempered hardboard and fiberglass.
- Performs extremely well on wood and non-ferrous metals.

NEW!

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES	MM			TUBED 5 / TUBE	
	9 x 3/4 x .050	250 x 20 x 1.3	3	Aerated Concrete Red Brick Fiberglass Insulation Fiber Boards Durock Boards Hardie Boards Temper Boards Plaster over Lath All Woods & Abrasive Materials	RSTC9343	
	12 x 7/8 x .059	300 x 22 x 1.3				RSTC12783
	6 x 3/4 x .050	150 x 20 x 1.3	6	All Woods & Abrasive Materials	RSTC6346	

Reciprocating Saw Blades - Cont.

CARBIDE STRIP RECIPROCATING SAW BLADES

1/2" Universal Shank

Features:

- High quality tungsten carbide strip welded onto backing.
- Precision ground teeth.
- Used on stainless steel sheets, pipes and profiles.
- Also suitable for cutting glass, fiber-reinforced plastics and epoxy.



NEW!

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #
	INCHES	MM			TUBED 5 / TUBE
1/2" UNIVERSAL SHANK	6 x 3/4 x .039	150 x 20 x 1	18	Stainless Steel Long Life	RSC63418

Notes:

Reduce the stroke rate, work without pendulum action. Use coolant.

CARBIDE GRIT EDGE RECIPROCATING SAW BLADES

1/2" Universal Shank



Features:

- Cutting edges have carbide grains bonded to an alloy backer and will not snag.
- Superior resistance to heat and shock for cutting material too hard for standard bi-metal blades.
- Cuts smooth and clean. No teeth to dull.



NEW!

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		APPLICATION	STOCK #
	INCHES	MM		TUBED 5 / TUBE
1/2" UNIVERSAL SHANK	9 x 3/4 x .050	228 x 20 x 1.3	Cutting Fiberglass, Lath, Plaster, Ceramics, Soil Pipe, Laminates, Marble and Hardened Steel	RCG912

Reciprocating Saw Blades - Cont.

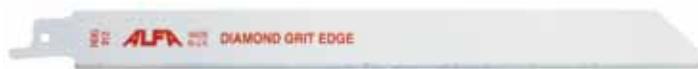


DIAMOND GRIT EDGE RECIPROCATING SAW BLADES

1/2" Universal Shank

Features:

- Diamond grit lasts 3 times longer than standard carbide grit.
- Ideal for abrasive materials such as cast iron, carbon-fiber reinforced plastic composites, fiber, Durock and Hardie boards, brick, building blocks and marble.



NEW!

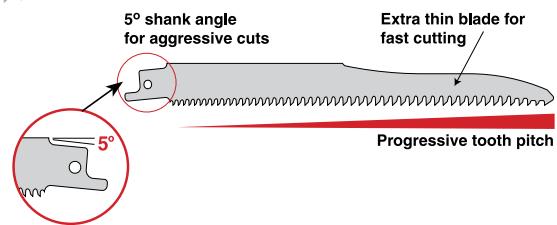
BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		APPLICATION	STOCK #
	INCHES	MM		TUBED 5 / TUBE
1/2" UNIVERSAL SHANK	9 x 3/4 x .039	228 x 20 x 1	Cutting Fiberglass, Lath, Plaster, Ceramics, Soil Pipe, Laminates, Marble and Hardened Steel	RDG912

RECIPROCATING SAW BLADES FOR CORDLESS POWERTOOLS

1/2" Universal Shank

Features:

- Progressive tooth pitch for rapid cuts.
- 5° shank angle.



NEW!

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES	MM			BOXED 50 / BOX	TUBED 5 / TUBE
	8 x 3/4 x .039	200 x 20 x 1.0	Prog. 6-10	Wood Construction timber, Boards: chip, MDF, plywood, plastic, wooden panels.	RSC834	RSC834T
	6 x 3/4 x .035	150 x 20 x .9	Prog. 8-18	Metal Thin to thick sheet metal, thin to thick profiles.	RSBM6341	RSBM6341T
	6 x 3/4 x .035	150 x 20 x .9	Prog. 6-12	General Purpose Wood with nails / metal, chipboards, sheet metal, aluminum profiles, plastics, reinforced plastics, profiles.	RSBM6342	RSBM6342T

Jig Saw Blades

COBALT BI-METAL JIG SAW BLADES

1/4" Universal Shank

Features:

- Cobalt matrix teeth with flexible alloy back.
- Tooth hardness of RC 65-67 enables a sharp, long-lasting cutting edge.
- Shatterproof.
- Handles the toughest cutting jobs.

MADE IN
U. S. A.



BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES	MM			BOXED 50 / BOX	TUBED 5 / TUBE
	4 x 3/8 x .035	100 x 10 x .9	6	Wood, fiber board, fibre base.	JSBM4386	JSBM4386P
	4 x 3/8 x .035	100 x 10 x .9	10	Wood, plywood, hard board.	JSBM43810	JSBM43810P
	4 x 3/8 x .035	100 x 10 x .9	14	Non-ferrous metals, fiberglass, hard rubber, nail-embedded wood.	JSBM23414	JSBM23414P
	3 x 3/8 x .035	75 x 10 x .9	18	Metal 18 gauge & under.	JSBM23418	JSBM23418P
	3 x 3/8 x .035	75 x 10 x .9	24	Metal and non-ferrous metal up to 1/8".	JSBM23424	JSBM23424P

Jig Saw Blades

D

COBALT BI-METAL JIG SAW BLADES

T-Shank

Features:

- For jig saws requiring T-Shank.
- Super hard Cobalt Matrix teeth with flexible alloy back.
- Tooth hardness of RC 65-67 enables a sharp, long-lasting cutting edge.
- Shatterproof.
- Handles the toughest cutting jobs.



Expanded

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES	MM			BOXED 50 / BOX	TUBED 5 / TUBE
	3 x 3/8 x .035	75 x 10 x .9	14	Steel and non-ferrous metals, over 1/8".	JSBM314	JSBM314P
	3 x 3/8 x .035	75 x 10 x .9	18	Metals over 18 gauge. Tubing, conduit.	JSBM318	JSBM318P
	3 x 3/8 x .035	75 x 10 x .9	24	Thin metals, plastic, Fine cuts under 18 gauge.	JSBM324	JSBM324P
	4 x 5/16 x .035	100 x 8 x 1.0	10	All woods, composition materials, plastics, plywood.	JSBM410	JSBM410P
	4 x 5/16 x .035	100 x 8 x 1.0	8	General purpose.	JSBM408	JSBM408P
	4 x 5/16 x .035	100 x 8 x 1.0	6	Wood, fiberboard, wood compositions.	JSBM406	JSBM406P

Jig Saw Blades - Cont.

HIGH-CARBON STEEL JIG SAW BLADES

1/4" Universal Shank

MADE IN
U. S. A.



Features:

- Hardened carbon steel blade for long life.
- Precision sharpened to cut fine, intricate shapes.
- Fits all jig saws using 1/4" Universal Shank.

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES	MM			BOXED 50 / BOX	TUBED 5 / TUBE
	3-1/8 x 5/16 x .032	79 x 8 x .8	10	Coarse cut in wood and composition board.	JSC31810	JSC31810P
	2-3/4 x 1/4 x .035	70 x 6 x .9	12	Scroll cutting wood, plywood, plastics. 1/4" to 1" thick. Smooth cuts.	JSC23412	JSC23412P
	2-3/4 x 3/16 x .050	70 x 5 x 1.3	20	Scroll cutting wood, plywood, plastics. Super fine finish.	JSC23420	JSC23420P

HIGH-CARBON STEEL JIG SAW BLADES

T-Shank

SWISS MADE



NEW!

Features:

- Hardened carbon steel blades for long life.
- Clean laminate cutting and performance scrolling.
- Fits all jig saws requiring T-Shank.

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES	MM			BOXED 50 / BOX	TUBED 5 / TUBE
	4 x 5/16 x .050	100.4 x 7.20 x 1.25	10	Reverse splinter-free cuts in wood, laminates and plastics.	JSC410R	JSC410RP
	3-1/4 x 5/32 x .040	82.6 x 3.90 x 1.00	12	Smooth scroll cutting in softwood, plywood and OSB.	JSC31412	JSC31412P

CARBIDE STRIP JIG SAW BLADES

T-Shank

SWISS MADE



NEW!

Features:

- High quality tungsten carbide strip welded onto backing.
- Precision ground teeth.
- Carbide strip teeth provide exceptional wear resistance over ordinary blades.
- Cutting tools with tungsten carbide strip resist heat and dulling.

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES	MM			TUBED 5 / TUBE	
	3 x 3/8 x .040	75 x 9.3 x 1	18	Medium Thick Stainless Steel Sheets	JSCG33818	
	3-1/4 x 3/8 x .040	83 x 9.3 x 1	24	Thin Stainless Steel Sheets	JSCG33824	

Jig Saw Blades - Cont.

CARBIDE GRIT EDGE JIG SAW BLADES

T-Shank

Features:

- Cutting edges have carbide grains bonded to an alloy backer and will not snag.
- Resistance to heat and shock make them ideal for cutting materials too hard for standard blades.
- Cuts smooth and clean. No teeth to dull.



U.K.



BLADE CONFIGURATION	TYPE x INCHES	APPLICATION	STOCK #
			TUBED 5 / TUBE
T-SHANK	MEDIUM x 3-1/4	Tile, Slate, Fiberglass	JCG314

CARBIDE TIPPED JIG SAW BLADES

T-Shank

Features:

- Tungsten carbide tipped jig saw blades out-perform and outlast ordinary blades many times over.
- Designed for fast, coarse cuts.
- Use on cement board, fiberglass and plaster board up to 3/4" thick.



BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #
	INCHES	MM			TUBED 5 / TUBE
T-SHANK	4 x 5/16 x .050	100 x 8 x 1.3	6	Fiberglass Insulation Fiber Boards Durock Boards Hardie Boards, Fiberglass & Plaster Boards Temper Boards Plaster over Lath All Woods & Abrasive Materials	JSTC45166

Jig Saw Blades - Cont.

JIG SAW BLADES FOR CORDLESS POWERTOOLS

**Provides more cuts per charge
Longer battery life**

T-Shank

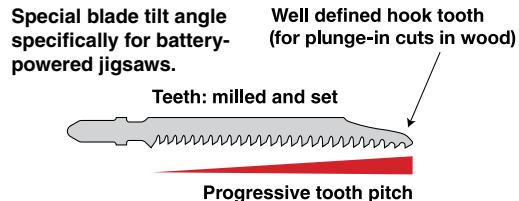


Features:

- Progressive tooth pitch for rapid cuts in thick and thin materials.
- T-Shank.



SWISS
MADE



NEW!

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES	MM			BOXED 50 / BOX	TUBED 5 / TUBE
T-SHANK	4 x 3/8 x .050	100 x 8.9 x 1.25	Prog. 8 -10	Wood Clean cuts in thin or thick stock.	JSC438	JSC438T
T-SHANK	4 x 3/8 x .030 HSS	100 x 9.2 x 0.8	Prog. 10 -18	Metal Sheets, pipes, profiles, including aluminum.	JSH4381	JSH4381T
T-SHANK	4 x 3/8 x .040 HSS	100 x 9.2 x 1.0	Prog. 6 -10	General Purpose Rough cuts in wood with nails, plastics, pipes / profiles, including aluminum.	JSH4382	JSH4382T

Air Saw Blades

BI-METAL AIR SAW BLADES

**For pneumatic
saw machines**



MADE IN
U. S. A.

Features:

- Blades have fine teeth for cutting metal.
- Very popular with autobody / muffler shops or other metal fabricating shops.
- Cuts smooth and clean.
- Fits most popular pneumatic saw machines.

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES	MM			BOXED 50 / BOX	TUBED 5 / TUBE
	3 x 1/2 x .025	75 x 12.7 x .6	18	Scroll-cut in metal, hard plastic.	JSA31218	JSA31218P
	3 x 1/2 x .025	75 x 12.7 x .6	24	Scroll-cut in thin metals, plastics, fiberglass.	JSA31224	JSA31224P
	3 x 1/2 x .025	75 x 12.7 x .6	32	Scroll-cut in thin sheet metals, fiberglass.	JSA31232	JSA31232P
	4 x 1/2 x .025	100 x 12.7 x .6	18	General purpose, metal over 18 gauge.	JSA418	JSA418P
	4 x 1/2 x .025	100 x 12.7 x .6	32	General purpose, thin metal, fine cutting.	JSA432	JSA432P

Portable Band Saw Blades

Bi-Metal Cobalt Band Saw Blades

MADE IN
U. S. A.

Variable Pitch



Features:

- Bi-metal construction increases tool life.
- RC 65-67 Cobalt Matrix cutting teeth with flexible alloy back.
- Variable pitch reduces vibration and outperforms standard pitch blades.

Applications:

- Fits all standard portable band saw machines.
- For pipe, tubing, solids and all machinable metals.

LENGTH x WIDTH x THICKNESS		VARIABLE PITCH TPI	STOCK #
INCHES	MM		
44-7/8 x 1/2 x .020	1140 x 12.7 x .50	10/14	BS1014
44-7/8 x 1/2 x .020	1140 x 12.7 x .50	14/18	BS1418
44-7/8 x 1/2 x .020	1140 x 12.7 x .50	20/24	BS2024

Carbide Grit Rod Saws

MADE IN
U. S. A.



Features:

- Fits standard hack saw frame.
- Carbide Grit hardness RC70.
- Alloy steel and backing.
- Cuts in any direction.
- Cuts Hardened Steel RC60-RC62, bolts, ceramics, thin wall pipe, glass and fiberglass.

LENGTH	STOCK #	
	BULK	CARDED
STANDARD (0.100 Dia.)		
10"	HOSA76053	HOSA76053C
12"	HOSA76054	HOSA76054C

Bulk 100 per pack

Card 1 per card

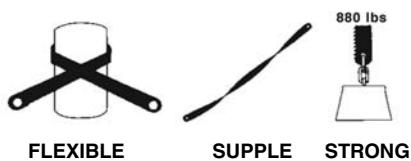
Hacksaw Blades

Bi-Metal Cobalt

MADE IN
U. S. A.

Features:

- The ultimate safety blade which is flexible, shatterproof, supple and strong.
- Latest technology is used for the finest sawing performance
- Cobalt steel teeth stay sharper and last longer.
- 10° Rake teeth give smoother, faster and easier cuts.
- 65 HRC hardened teeth have 50 HRC back hardness, allowing rigidity during use.
- One-piece construction can handle the toughest materials.



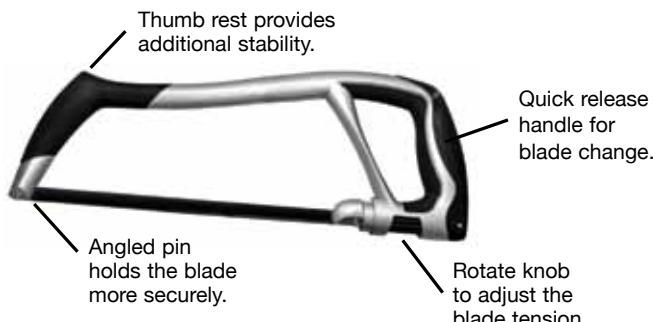
BLADE SIZE	TPI	TEETH RAKE	STOCK #
12" x 1/2" x .025" (300 x 13 x .65 mm.)	18	10°	HB18
	24	10°	HB24
	32	10°	HB32

10 blades per pack

Hand Hacksaw Frames

HIGH PRECISION INDUSTRIAL DESIGN

ULTRA SUPER FRAME STOCK # HSF40



Features:

- For the most demanding professional.
- Computer aided design produces a light, sturdy metallic body, steel bow and Zamac handle.
- Exclusive lever locking system provides high precision tensioning of blades and ultimate blade control.
- Frame includes spare blade storage in bow and adjusts for flush and angle cuts.
- Supplied with cobalt 12" x 24 TPI blade.
- Easily adjustable.
- 1 per pack

COMPACT HEAVY DUTY POPULAR JACK FRAME STOCK # HSF41



Features:

- Heavy gauge chrome polished steel body, with wraparound heavy duty unbreakable light alloy handle.
- One position flush cutting angle.
- Easily adjustable.
- Supplied with 12" x 24 TPI cobalt blade.
- 1 per pack

THE NEW, AGGRESSIVE FORSTNER BIT

Patented worldwide.

US-PAT. No. 5,975,814

US-PAT. No. 5,312,207

Bormax®

Features:

- Razor sharp cutting teeth for an excellent finish.
- Side clearance provides tear-free, accurate holes in soft and hard woods, panel materials and plastic laminated boards.
- Modified cutting head for less friction.
- Side reliefs dissipate heat allowing tool to work cooler, longer.
- Unique wave-form cutting teeth require less power and work cooler.
- Longer life compared to other Forstner Bits.



Modified cutting
head for more
power due to the
new wave-form
cutting teeth.



FBM64030



FBM64044

REGULAR SERIES

HOLE SIZE	SHANK DIA. (MM)	OVERALL LENGTH	STOCK #
5/8	8	3-1/2	FBM64002
11/16	8	3-1/2	FBM64003
3/4	8	3-1/2	FBM64004
13/16	8	3-1/2	FBM64006
7/8	10	3-1/2	FBM64008
15/16	10	3-1/2	FBM64009
1	10	3-1/2	FBM64010
1-1/16	10	3-1/2	FBM64012
1-1/8	10	3-1/2	FBM64013
1-3/16	10	3-1/2	FBM64015
1-1/4	10	3-1/2	FBM64016
1-5/16	10	3-1/2	FBM64017
1-3/8	10	3-1/2	FBM64018
35mm	10	3-1/2	FBM64019
1-1/2	10	3-1/2	FBM64020
40mm	10	3-1/2	FBM64021
1-5/8	10	3-1/2	FBM64022
1-3/4	10	3-1/2	FBM64023
1-7/8	10	3-1/2	FBM64024
2	10	3-1/2	FBM64026
2-1/8	10	3-1/2	FBM64027
2-1/4	10	3-1/2	FBM64028

1 per pack

BORMAX SETS in fitted wooden box

DESCRIPTION	STOCK #
5 Pcs. Set contains one each of sizes: 5/8", 3/4", 1", 1-1/8" & 1-3/8"	FBM64030
16 Pcs. Set contains one each of sizes: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-5/8", 1-3/4", 1-7/8", 2", 2-1/8" 1/4", 3/8", 1/2" sizes are Super Forstner bits	FBM64044
COUNTER DISPLAY	
12 - 5 Pcs. sets in an attractive Display Box	FBM64031



FBM64031

LONG SERIES

HOLE SIZE	SHANK DIA. (MM)	OVERALL LENGTH	STOCK #
1	13	5-1/4	FBM64032
1-1/4	13	5-1/2	FBM64033
1-1/2	13	5-3/4	FBM64034
1-3/4	13	6	FBM64035
2	13	6	FBM64036
2-1/8	13	6	FBM64037
2-1/4	13	6-1/8	FBM64038
2-3/8	13	6-1/8	FBM64039
2-1/2	13	6-1/4	FBM64040
3	13	6-1/4	FBM64041
3-1/2	16	6-1/4	FBM64042
4	16	6-1/4	FBM64043

1 per pack

Bormax® 3 Forstner Bit – Carbide Tipped

The Bormax® 3 Forstner Bit
Carbide Tipped



THE NEW, AGGRESSIVE FORSTNER BIT

Patented worldwide.

US-PAT. No. 5,975,814

US-PAT. No. 5,312,207

Bormax®³

Features:

- For drilling & boring soft, hard and extra hard woods, as well as composites, plastics, Corian™ and other difficult-to-machine materials.
- Produces clean, tear-free accurate holes.
- Unique razor-sharp tooth design and side reliefs enable cool operation, high-efficiency and extra long tool life.
- Modified cutting head produces less friction, meaning no overheating.
- For use freehand and in stationary boring machines.

NEW!

HOLE SIZE	SHANK DIA. (MM)	LENGTH (MM)	STOCK #
METRIC SIZES			
15	8	90	FBM63015
16	8	90	FBM63016
18	8	90	FBM63018
20	8	90	FBM63020
22	10	90	FBM63022
25	10	90	FBM63025
26	10	90	FBM63026
30	10	90	FBM63030
35	10	90	FBM63035
40	10	90	FBM63040
45	10	90	FBM63045
50	10	90	FBM63050
FRACTIONAL			
5/8	8	90	FBM63219
3/4	8	90	FBM63221
7/8	10	90	FBM63223
1	10	90	FBM63225
1-1/8	10	90	FBM63227
1-1/4	10	90	FBM63229
1-3/8	10	90	FBM63231
1-1/2	10	90	FBM63233
1-3/4	10	90	FBM63237
2	10	90	FBM63241

1 per pack



FBM63241



FBM63505

BORMAX®³ SETS

in fitted wooden box

DESCRIPTION	STOCK #
METRIC	
5 Pcs. Set contains one each of sizes: 15, 20, 25, 30, 35	FBM63505
FRACTIONAL	
5 Pcs. Set contains one each of sizes: 5/8, 3/4, 1, 1-1/8, 1-3/8	FBM63605

Special Tool Steel



Made in
Germany

THE NEW, AGGRESSIVE FORSTNER BIT

Patented worldwide. Made in Germany.

US-PAT. No. 5,312,207

FRACTIONAL

HOLE SIZE	SHANK DIA. (MM)	OVERALL LENGTH	STOCK #
			FAMAG
1/4	8	3-1/2	FB61450
5/16	8	3-1/2	FB61451
3/8	8	3-1/2	FB61452
7/16	8	3-1/2	FB61453
1/2	8	3-1/2	FB61454
9/16	8	3-1/2	FB61455
5/8	8	3-1/2	FB61456
11/16	8	3-1/2	FB61457
3/4	8	3-1/2	FB61458
13/16	8	3-1/2	FB61459
7/8	10	3-1/2	FB61460
15/16	10	3-1/2	FB61461
1	10	3-1/2	FB61462
1-1/16	10	3-1/2	FB61463
1-1/8	10	3-1/2	FB61464
1-3/16	10	3-1/2	FB61465
1-1/4	10	3-1/2	FB61466
1-5/16	10	3-1/2	FB61467
1-3/8	10	3-1/2	FB61468
1-7/16	10	3-1/2	FB61469
1-1/2	10	3-1/2	FB61470
1-5/8	10	3-1/2	FB61472
1-3/4	10	3-1/2	FB61474
1-7/8	10	3-1/2	FB61477
2	10	3-1/2	FB61478
2-1/8	10	3-1/2	FB61479
2-1/4	10	3-1/2	FB61479A

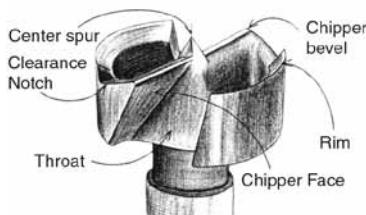
1 per pack

Features:

- Premium quality design.
- Bores precision tear-free holes at any angle.
- New chip groove geometry.



Wunderbar!
Made in Germany



"BEST OVERALL QUALITY & PERFORMANCE"
Fine Woodworking Magazine

SETS

in wooden box



FB61497

DESCRIPTION	STOCK #
	FAMAG
4 Pc. Set contains one each: 5/8", 3/4", 7/8" & 1"	FB61497
7 Pc. Set contains one each: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8" & 1"	FB61498
16 Pc. Set contains one each: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-5/8", 1-3/4", 1-7/8", 2" & 2-1/8"	FB61499

EXTENSION SHANKS

Made in Germany



BARREL I.D. (MM)	SHANK DIA. (MM)	OVERALL LENGTH	STOCK #
8	10	5	FB61490
8	10	9-3/4	FB61491
10	10	5-1/8	FB61492
10	10	9-7/8	FB61493
13	13	5-1/8	FB61494
13	13	9-7/8	FB61495

1 per pack



FBM61465

Monolock®
QUICK CHANGE SYSTEM

HEX SHANK ADAPTORS



BARREL I.D.	SHAFT DIA.	OVERALL LENGTH	STOCK #
1/4"	1/4" Hex	3"	SA1014
5/16"	1/4" Hex	3"	SA1015
3/8"	1/4" Hex	3"	SA1016

1 per pack

1 per pack



Super Forstner Bits

Special Tool Steel



ROUND SHANK



HOLE SIZE	SHANK DIA.	OVERALL LENGTH	STOCK #
			ECO PRO
1/4	5/16	3-1/2	FB61550
5/16	5/16	3-1/2	FB61551
3/8	5/16	3-1/2	FB61552
7/16	5/16	3-1/2	FB61553
1/2	5/16	3-1/2	FB61554
9/16	5/16	3-1/2	FB61555
5/8	5/16	3-1/2	FB61556
11/16	5/16	3-1/2	FB61557
3/4	5/16	3-1/2	FB61558
13/16	5/16	3-1/2	FB61559
7/8	3/8	3-1/2	FB61560
15/16	3/8	3-1/2	FB61561
1	3/8	3-1/2	FB61562
1-1/16	3/8	3-1/2	FB61563
1-1/8	3/8	3-1/2	FB61564
1-3/16	3/8	3-1/2	FB61565
1-1/4	3/8	3-1/2	FB61566
1-5/16	3/8	3-1/2	FB61567
1-3/8	3/8	3-1/2	FB61568
1-7/16	3/8	3-1/2	FB61569
1-1/2	3/8	3-1/2	FB61570
1-5/8	3/8	3-1/2	FB61572
1-3/4	3/8	3-1/2	FB61574
1-7/8	3/8	3-1/2	FB61577
2	3/8	3-1/2	FB61578
2-1/8	3/8	3-1/2	FB61579
2-1/4	3/8	3-1/2	FB61579A

1 per pack



FB61501

SETS

DESCRIPTION	STOCK #
7 Pcs. Set contains one each: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8" & 1"	FB61501
16 Pcs. Set contains one each: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-5/8", 1-3/4", 1-7/8", 2" & 2-1/8"	FB61502



MONOLOCK® SHANK

1/4" HEX POWER SHANK FORSTNER BITS

HOLE SIZE	SHANK DIA.	OVERALL LENGTH	STOCK #
			ECO PRO
1/4	6.35	3-1/2	ML61550
5/16	7.94	3-1/2	ML61551
3/8	9.53	3-1/2	ML61552
7/16	11.11	3-1/2	ML61553
1/2	12.70	3-1/2	ML61554
9/16	14.29	3-1/2	ML61555
5/8	15.88	3-1/2	ML61556
11/16	17.46	3-1/2	ML61557
3/4	19.05	3-1/2	ML61558
13/16	20.64	3-1/2	ML61559
7/8	22.23	3-1/2	ML61560
15/16	23.81	3-1/2	ML61561
1	25.40	3-1/2	ML61562
1-1/16	26.99	3-1/2	ML61563
1-1/8	28.58	3-1/2	ML61564
1-3/16	30.16	3-1/2	ML61565
1-1/4	31.75	3-1/2	ML61566
1-5/16	33.34	3-1/2	ML61567
1-3/8	34.93	3-1/2	ML61568
1-7/16	36.51	3-1/2	ML61569
1-1/2	38.10	3-1/2	ML61570
1-5/8	41.28	3-1/2	ML61572
1-3/4	44.45	3-1/2	ML61574
1-7/8	47.63	3-1/2	ML61577
2	50.80	3-1/2	ML61578
2-1/8	53.98	3-1/2	ML61579
2-1/4	57.15	3-1/2	ML61579A

1 per pack



ML61502



16 PC. MONOLOCK® SHANK SET

1/4" HEX POWER SHANK FORSTNER BITS
in wooden case

DESCRIPTION	STOCK #
16 Pcs. Set contains one each: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-5/8", 1-3/4", 1-7/8", 2" & 2-1/8"	ML61502

ECO PRO® Multi-Spur Pipe Self-Feed Forstner Bits

Special Tool Steel With Self-Feed Screw



Features:

- Inside cutting plane shaves holes smoothly.
- Each bit includes one self-feeding screw and one hex wrench.
- Coarse feed screw for softwoods.
- Fine feed screw for hardwoods.
- Set screw is recessed on shank to allow use of an extension for applications requiring extra reach.
- Solid one piece construction.

HOLE SIZE	SHANK	APPLICATION	STOCK #
1-3/8	7/16	For 3/4" Pipes	MSB61400
1-1/2	7/16	For 1" Pipes	MSB61401
1-3/4	7/16	For 1-1/4" Pipes	MSB61405
2-1/8	7/16	For 1-1/2" Pipes and Door Lock Installation	MSB61410
2-9/16	7/16	For 2" Pipes	MSB61415
3-5/8	7/16	For 3" Pipes	MSB61416
4-5/8	7/16	For 4" Pipes	MSB61417

1 per pack



REPLACEMENT PILOT FEED SCREW

BIT SIZE	FITS	STOCK #
3/16"	1-3/8" - 1-1/2"	MSB61418
1/4"	1-3/4" - 3"	MSB61419
3/8"	3-5/8" - 4-5/8"	MSB61420



MULTI-SPUR FORSTNER BITS FOR LARGER HOLES

HOLE SIZE	SHANK DIA.	OVERALL LENGTH	STOCK #
			ECO PRO
2-1/4	1/2	6-1/4	FB61480
2-3/8	1/2	6-1/4	FB61481
2-1/2	1/2	6-1/4	FB61482
2-5/8	1/2	6-1/4	FB61483
2-3/4	1/2	6-1/4	FB61484
2-7/8	1/2	6-1/4	FB61485
3	1/2	6-1/4	FB61486
3-1/8	1/2	6-1/4	FB61487

1 per pack

HOLE SIZE	SHANK DIA.	OVERALL LENGTH	STOCK #
			ECO PRO
2-1/4	57.15	6-1/4	ML61480
2-3/8	60.33	6-1/4	ML61481
2-1/2	63.50	6-1/4	ML61482
2-5/8	66.80	6-1/4	ML61483
2-3/4	69.85	6-1/4	ML61484
2-7/8	73.03	6-1/4	ML61485
3-7/16	76.20	6-1/4	ML61486
3-1/8	79.38	6-1/4	ML61487

1 per pack

ECO PRO® • ECO PRO Forstner Bits are made outside the United States to ALFA TOOLS' specifications.

Tenon & Plug Cutters

Special Tool Steel

Features:

- Heavy duty and smooth cutting makes these tenon & plug cutters so popular.
- Multiple cutting spurs give a clean finish.
- Dowels up to 3" are possible.
- Precision ground and hardened.



Made in Germany

TENON & PLUG CUTTER



DESCRIPTION	SHANK	STOCK #
3/8	1/2	TPC61443
1/2	1/2	TPC61444
5/8	1/2	TPC61445
3/4	1/2	TPC61446
1	1/2	TPC61447
5 PC. SET IN WOODEN CASE		
5 Pcs. Set contains one each: 3/8", 1/2", 5/8", 3/4", 1"		TPC61448

Set individually boxed

1 per pack

PLUG CUTTER



Four blade cutter gives smooth chamfered plug



TPC61448

PLUG CUTTER		SHANK	STOCK #
DIA.	LENGTH		
3/8	1/2	3/8	PC61430
1/2	1/2	3/8	PC61434
5/8	3/4	3/8	PC61436
3/4	3/4	1/2	PC61438
1	3/4	1/2	PC61442

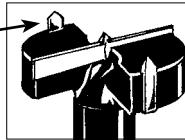
1 per pack

FAMAG® Carbide Boring Bits

Carbide Tipped Super Precision



Carbide Spur



Carbide Center Cutter

5 Pcs. Set
in wooden case
Contains one each:
15, 20, 25, 30, 35 mm

FBT76545



HOLE DIA. (MM)	SHANK DIA. (MM)	OVERALL LENGTH	STOCK #
8	10	3-1/2	FBT76501
10	10	3-1/2	FBT76502
11	10	3-1/2	FBT76503
12	10	3-1/2	FBT76504
13	10	3-1/2	FBT76505
14	10	3-1/2	FBT76506
15	10	3-1/2	FBT76507
16	10	3-1/2	FBT76508
17	10	3-1/2	FBT76509
18	10	3-1/2	FBT76510
19	10	3-1/2	FBT76511
20	10	3-1/2	FBT76512
21	10	3-1/2	FBT76513
22	10	3-1/2	FBT76514
23	10	3-1/2	FBT76515
24	10	3-1/2	FBT76516
25	10	3-1/2	FBT76517
26	10	3-1/2	FBT76518
27	10	3-1/2	FBT76519

1 per pack

Features:

- Two diamond ground spurs and one central cutting edge cut effortlessly through hard, soft and knotted wood, laminates, fiberboard and chipboard.
- Short centering point ensures accurate, cylindrical holes.
- Ideal for window installers, carpenters and joiners.
- Works extremely well in abrasive materials.



Made in Germany

HOLE DIA. (MM)	SHANK DIA. (MM)	OVERALL LENGTH	STOCK #
28	10	3-1/2	FBT76520
29	10	3-1/2	FBT76521
30	10	3-1/2	FBT76522
31	10	3-1/2	FBT76523
32	10	3-1/2	FBT76524
33	10	3-1/2	FBT76525
34	10	3-1/2	FBT76526
35	10	3-1/2	FBT76527
36	10	3-1/2	FBT76528
37	10	3-1/2	FBT76529
38	10	3-1/2	FBT76530
39	10	3-1/2	FBT76531
40	10	3-1/2	FBT76532
42	10	3-1/2	FBT76534
44	10	3-1/2	FBT76536
45	10	3-1/2	FBT76537
46	10	3-1/2	FBT76538
48	10	3-1/2	FBT76540
50	10	3-1/2	FBT76541

FAMAG® Hinge Boring Bits

Available in Alloy Steel or
Carbide Tipped

Features:

- For boring clean, accurate holes in all types of wood, composites and boards.
- Ideal for installing European style hinges.



SIZE (MM)	TYPE	SHANK DIA. (MM)	OVERALL LENGTH	STOCK #
26	Alloy Steel	8	2-1/4	HB61422
30	Alloy Steel	8	2-1/4	HB61423
35	Alloy Steel	8	2-1/4	HB61424
25	Carbide Tipped	8	2-1/4	HB61431
26	Carbide Tipped	8	2-1/4	HB61432
30	Carbide Tipped	8	2-1/4	HB61433
35	Carbide Tipped	8	2-1/4	HB61434
40	Carbide Tipped	8	2-1/4	HB61436

1 per pack

Bormax® Hinge Boring Bits

Special Tool Steel

Features:

- All the Bormax features for clean, precision boring.
- Ideal for installing European style hinges.
- Excellent tool life.



HOLE SIZE, MM	SHANK DIA. (MM)	OVERALL LENGTH	STOCK #
26	10	2-1/2"	FBM64050
35	10	2-1/2"	FBM64051

1 per pack



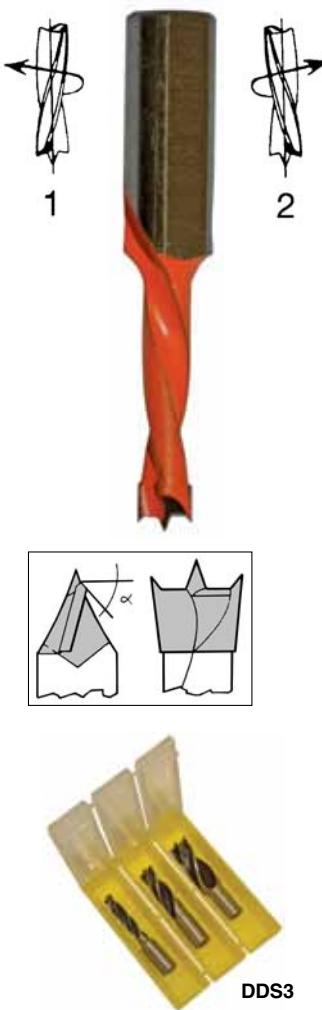
Made in Germany

Boring Bits

D

Carbide Tipped Dowel Drills

Carbide Tipped Dowel Drills & Through Bore Drills



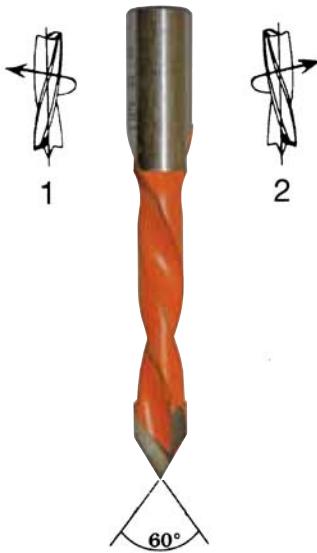
- Features:**
- For drilling tear-free and accurate holes in solid wood, panel material and plastic laminate boards.
 - Centering tip, 2 cutting edges, 2 spurs, cylindrical shank with flat and length adjusting screw.
 - High cutting quality achieved by negatively ground spurs.
 - Spiral flute coated for reduced friction and better chip flow.

Color Code: Black - R. H. Cutting
Orange - L. H. Cutting

SIZE DIA.	SHANK MM	FL MM	OAL MM	STOCK #	
				RIGHT HAND	LEFT HAND
5 mm	10 x 20	30	57.5	DD74401R	DD74401L
6 mm	10 x 20	30	57.5	DD74402R	DD74402L
1/4"	10 x 20	30	57.5	DD74403R	DD74403L
7 mm	10 x 20	30	57.5	DD74404R	DD74404L
8 mm	10 x 20	30	57.5	DD74405R	DD74405L
9 mm	10 x 20	30	57.5	DD74406R	DD74406L
3/8"	10 x 20	30	57.5	DD74407R	DD74407L
10 mm	10 x 20	30	57.5	DD74408R	DD74408L
12 mm	10 x 20	30	57.5	DD74409R	DD74409L
1/2"	10 x 20	30	57.5	DD74410R	DD74410L
14 mm	10 x 20	30	57.5	DD74411R	DD74411L
15 mm	10 x 20	30	57.5	DD74412R	DD74412L
5 mm	10 x 20	45	70	DD74413R	DD74413L
1/4"	10 x 20	45	70	DD74414R	DD74414L
8 mm	10 x 20	45	70	DD74415R	DD74415L
10 mm	10 x 20	45	70	DD74416R	DD74416L
5 mm	10 x 27	27	57.5	DD74417R	DD74417L
5 mm	10 x 30	35	70	DD74418R	DD74418L
8 mm	10 x 30	35	70	DD74419R	DD74419L
3 Pc. DOWEL DRILL SET					
1/4", 3/8", 1/2"	10 x 20	30	57.5	DDS3	—

1 per pack

Carbide Tipped Through Bore Drills



Features:

- 60° V - shaped tip.
- Flat on shank with length adjustment screw.
- Flutes coated for efficient chip ejection.

Color Code: Black - R. H. Cutting
Orange - L. H. Cutting

SIZE DIA.	SHANK MM	FL MM	OAL MM	STOCK #	
				RIGHT HAND	LEFT HAND
5 mm	10 x 24	27	57.5	TB74421R	TB74421L
6 mm	10 x 24	27	57.5	TB74422R	TB74422L
8 mm	10 x 24	27	57.5	TB74423R	TB74423L
10 mm	10 x 24	27	57.5	TB74424R	TB74424L
5 mm	10 x 24	35	70	TB74425R	TB74425L
6 mm	10 x 24	35	70	TB74426R	TB74426L
8 mm	10 x 24	35	70	TB74427R	TB74427L
10 mm	10 x 24	35	70	TB74428R	TB74428L
5 mm	10 x 24	44	77	TB74429R	TB74429L
8 mm	10 x 24	44	77	TB74430R	TB74430L

1 per pack

Screw Countersink Tool

**Complete with
Hex Key**



Includes hex key

- Features:**
- For predrilling correct woodscrew holes.
 - Taper single flute drill penetrates fast and efficiently.
 - Depth collar ensures correct pilot hole length.
 - Counter bore permits clean plug hole or flush 82° countersink.

COMPLETE COUNTERSINK TOOL



STRAIGHT SHANK

SCREW SIZE	STOCK #	
	BULK	CARDED
#3	CSK51053	CSK51053C
#4	CSK51054	CSK51054C
#5	CSK51055	CSK51055C
#6	CSK51056	CSK51056C
#7	CSK51057	CSK51057C
#8	CSK51058	CSK51058C
#9	CSK51059	CSK51059C
#10	CSK51060	CSK51060C
#12	CSK51062	CSK51062C

Bulk 6 per pack Card 1 per card

1/4" HEX POWER SHANK

SCREW SIZE	STOCK #	
	BULK	CARDED
#3	CSK51033	CSK51033C
#4	CSK51034	CSK51034C
#5	CSK51035	CSK51035C
#6	CSK51036	CSK51036C
#7	CSK51037	CSK51037C
#8	CSK51038	CSK51038C
#9	CSK51039	CSK51039C
#10	CSK51040	CSK51040C
#12	CSK51041	CSK51041C

Bulk 6 per pack Card 1 per card

COUNTERSINK TOOL COMPONENTS

TAPER DRILLS

SCREW SIZE	DRILL SIZE	STRAIGHT SHANK	HEX POWER SHANK	COUNTERSINK WITH COLLAR
#3	7/64"	CSK51080	HSD51003	CSK51089
#4	7/64"	CSK51081	HSD51004	CSK51089A
#5	1/8"	CSK51082	HSD51005	CSK51090
#6	9/64"	CSK51083	HSD51006	CSK51091
#7	5/32"	CSK51084	HSD51007	CSK51092
#8	11/64"	CSK51085	HSD51008	CSK51093
#9	3/16"	CSK51086	HSD51009	CSK51094
#10	13/64"	CSK51087	HSD51010	CSK51095
#12	7/32"	CSK51088	HSD51012	CSK51096

Taper Drills: 6 per pack



Countersink
with
depth collar

Countersink: 1 per pack



• ECO PRO Screw Countersink tools are made outside the United States to ALFA TOOLS' specifications.

FAMAG® Vario Adjustable Countersink

Carbide Tipped



Includes hex key

Features:

- Easily adjusts to fit any drill bit between 3mm and 8mm.
- Use for boring and countersinking in a single operation.
- Ideal for use in hardwood, laminated panels and plastics.
- For predrilling correct and tearout-free wood screw holes.
- Includes hex key. Drill not included.

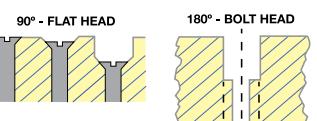
NEW!

SCREW STYLE	COUNTERSINK ANGLE	STOCK #
Flat Head	90°	FV30900
Bolt Head	180°	FV31800

1 per pack

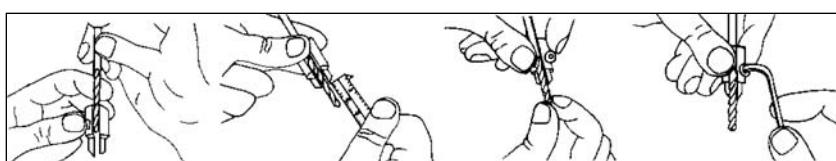


Made in
Germany



Drill not
included.

Adjustable to fit drills
between 3mm to 8mm



Application: The countersink is easily mounted on the drill. The milled edges inside the countersink make sure that the countersink is axial to the drill. After adjusting the length of the drill, the countersink is fixed on the drill using two hex screws.

DRILL SIZE	COUNTERSINK OUTER DIA.
3 mm	10.5 mm
4 mm	11.5 mm
5 mm	12.5 mm
6 mm	13.5 mm
7 mm	14.5 mm
8 mm	15.5 mm



Brad Point Drills

**For Precision Drilling In
Woods, Plastics, Composites**

Features:

- Precision cutting spurs enable clean, splinter-free holes.
- Center point permits precision targeting.
- Use on all types of wood.



BPW61137P

BPW61137S

SETS

DESCRIPTION	STOCK #
3 Pc. Set in Vinyl Pouch Sizes: 3/16", 1/4", 5/16"	BPW61133P
5 Pc. Set in Vinyl Pouch Sizes: 1/4", 5/16", 3/8", 7/16", 1/2"	BPW61135P
7 Pc. Set in Vinyl Pouch. Sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	BPW61137P
7 Pc. Set in Plastic Case. Sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	BPW61137S
7 Pc. Metric Set in Vinyl Pouch Sizes: 4, 5, 6, 7, 8, 10, 12 mm	BPW61155P



**Super Wear Resistant
Chrome Vandium Steel**

FRACTIONAL

DRILL SIZE	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #
				POUCHED
1/8	1/8	1-5/16	2-3/8	BPW61103P
5/32	5/32	1-3/4	3	BPW61105P
3/16	3/16	2-1/16	3-3/8	BPW61107P
7/32	7/32	2-1/4	3-5/8	BPW61108P
1/4	1/4	2-1/4	3-11/16	BPW61110P
9/32	9/32	2-1/4	3-11/16	BPW61109P
5/16	5/16	2-11/16	4-5/8	BPW61111P
11/32	11/32	2-3/4	4-7/8	BPW61106P
3/8	3/8	3-7/16	5-1/4	BPW61112P
7/16	3/8	3-7/16	5-1/4	BPW61113P
1/2	3/8	4	5-3/4	BPW61114P
9/16	3/8	4-1/4	6-3/16	BPW61115P
5/8	3/8	4-3/4	7	BPW61117P
3/4	3/8	4-3/4	7-1/2	BPW61119P
7/8	3/8	5	8-1/4	BPW61121P
1	3/8	5-1/2	8-1/2	BPW61123P

LONG LENGTH 10" OAL

1/4	1/4	6	10	BPW623073P
5/16	5/16	6	10	BPW623074P
3/8	3/8	6	10	BPW623075P
7/16	3/8	6	10	BPW623076P
1/2	3/8	6	10	BPW623077P
9/16	3/8	6	10	BPW623078P
5/8	1/2	6	10	BPW623079P

METRIC

DRILL SIZE MM	SHANK DIA. MM	FL MM	OAL MM	STOCK #
				POUCHED
3	3	33	61	BPW61141P
4	4	43	75	BPW61142P
5	5	52	86	BPW61143P
6	6	57	93	BPW61144P
7	7	65	104	BPW61145P
8	8	70	114	BPW61146P
9	8	70	122	BPW61147P
10	8	80	127	BPW61148P
11	8	94	142	BPW61149P
12	8	101	151	BPW61150P
13	8	101	151	BPW61162P
14	10	108	160	BPW61151P
15	10	114	169	BPW61152P
16	10	120	178	BPW61153P
17	10	125	184	BPW61163P
18	10	130	191	BPW61164P
20	10	140	205	BPW61154P

Drills individually pouched



BPW61137P

SETS

DESCRIPTION	STOCK #
3 Pc. Set in Vinyl Pouch Sizes: 3/16", 1/4", 5/16"	BPW61133P
5 Pc. Set in Vinyl Pouch Sizes: 1/4", 5/16", 3/8", 7/16", 1/2"	BPW61135P
7 Pc. Set in Vinyl Pouch. Sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	BPW61137P
7 Pc. Set in Plastic Case. Sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	BPW61137S
7 Pc. Metric Set in Vinyl Pouch Sizes: 4, 5, 6, 7, 8, 10, 12 mm	BPW61155P

SUPER HIGH-SPEED STEEL

JOBBER LENGTH

DRILL SIZE	FLUTE LENGTH	OAL	STOCK #
1/8	1-5/8	2-3/4	BPH62301
9/64	1-3/4	2-7/8	BPH62302
5/32	2	3-1/8	BPH62303
11/64	2-1/8	3-1/4	BPH62304
3/16	2-5/16	3-1/2	BPH62305
13/64	2-7/16	3-5/8	BPH62306
7/32	2-1/2	3-3/4	BPH62307
15/64	2-5/8	3-7/8	BPH62308
1/4	2-3/4	4	BPH62309
17/64	2-7/8	4-1/8	BPH62310
9/32	2-15/16	4-1/4	BPH62311
19/64	3-1/16	4-3/8	BPH62312
5/16	3-3/16	4-1/2	BPH62313
11/32	3-7/16	4-3/4	BPH62314
3/8	3-5/8	5	BPH62316
13/32	3-7/8	5-1/4	BPH62317
7/16	4-1/16	5-1/2	BPH62320
1/2	4-1/2	6	BPH62324

Bulk 1/8" to 5/16", 12 per pack, 11/32" to 1/2", 6 per pack

SUPER HIGH-SPEED STEEL SILVER & DEMING DRILLS

1/2" REDUCED SHANK

3 FLATS ON SHANK

DRILL SIZE	FLUTE LENGTH	OAL	STOCK #
9/16	3-1/8	6	BPH623030
5/8	3-1/8	6	BPH623034
3/4	3-1/8	6	BPH623042
7/8	3-1/8	6	BPH623050
1	3-1/8	6	BPH623058
1-1/16	3-1/8	6	BPH623060
1-1/8	3-1/8	6	BPH623061
1-3/16	3-1/8	6	BPH623062
1-1/4	3-1/8	6	BPH623063
1-5/16	3-1/8	6	BPH623064
1-3/8	3-1/8	6	BPH623065
1-7/16	3-1/8	6	BPH623066
1-1/2	3-1/8	6	BPH623067

1 per tube



Brad Point Drills - Cont.

For Precision Drilling In
Woods, Plastics, Composites



36 Pc. BRAD POINT DRILL DISPLAY

Super Wear Resistant
Chrome Vandium Steel

DESCRIPTION	STOCK #
6 ea.: 1/8", 5/32", 3/16", 1/4"	
3 ea.: 5/16", 3/8", 7/16", 1/2"	BPW36

Individually pouched



BPW61136B

CARBIDE TIPPED BRAD POINT DRILL SET

DESCRIPTION	STOCK #
5 Pcs. Metric Set. Carbide Tipped Drills in Wooden Box Sizes: 5, 6, 8, 10, 12 mm	BPW61136B

Double Land Brad Point Drills

Chrome Vanadium Steel

FRACTIONAL				
DRILL SIZE	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #
				POUCHED
1/8*	1/8	1-5/16	2-3/8	DLB62201
5/32*	5/32	1-3/4	3	DLB62202
3/16	3/16	2-1/16	3-3/8	DLB62203
7/32	7/32	2-1/4	3-5/8	DLB62204
1/4	1/4	2-1/4	3-11/16	DLB62205
9/32	9/32	2-1/4	3-11/16	DLB62206
5/16	5/16	2-11/16	4-5/8	DLB62207
11/32	11/32	2-3/4	4-7/8	DLB62208
3/8	3/8	3-7/16	5-1/4	DLB62209
7/16	3/8	3-7/16	5-1/4	DLB62210
1/2	3/8	4	5-3/4	DLB62211
9/16	25/64	4-11/32	6-3/8	DLB62212
5/8	25/64	4-23/32	7-5/64	DLB62213
3/4	25/64	5-7/64	7-11/16	DLB62214
7/8	1/2	5-1/2	8-1/4	DLB62215
1	1/2	5-1/2	8-3/8	DLB62216

Individually pouched

*Not double land



SETS
in vinyl pouch

DESCRIPTION	STOCK #
7 Pcs. Set contains one each: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	DLB62250
7 Pcs. Metric Set contains one each: 4, 5, 6, 7, 8, 10, 12 mm	DLB62360



DLB62250

Individually pouched



• ECO PRO drills are made outside the United States to ALFA TOOLS' specifications.

Ship Auger Bits

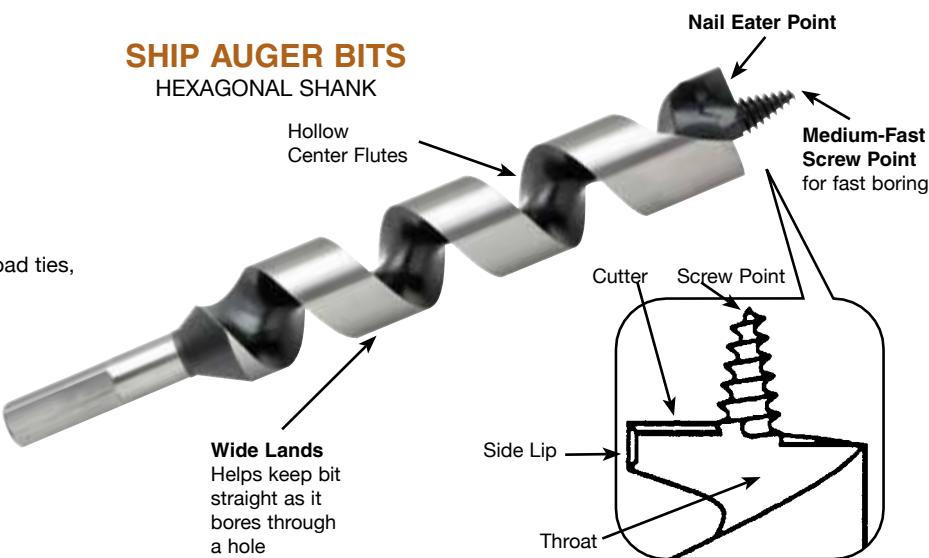
Made Of Premium Steel

Features:

- Single twist, single cutter.
- Machine ground hollows.
- Self-feeding screw point.
- Deep throat.
- Ideal for boring creosoted poles, railroad ties, bulkheads, and other heavy timber.
- Recommended where chip clogging is a problem, such as in green wood and creosoted poles.
- Nail eater point (head).

SHIP AUGER BITS

HEXAGONAL SHANK



8" OAL SHORT SERIES

BORE DIA.	HEX SHANK	FLUTE LENGTH	OAL	STOCK #
				TUBED
1/2	5/16	6	8	AUG61209
9/16	5/16	6	8	AUG61211
5/8	5/16	6	8	AUG61216
11/16	5/16	6	8	AUG61221
3/4	5/16	6	8	AUG61226
13/16	5/16	6	8	AUG61231
7/8	7/16	6	8	AUG61236
15/16	7/16	6	8	AUG61241
1	7/16	6	8	AUG61246
1-1/8	7/16	6	8	AUG61251
1-1/4	7/16	6	8	AUG61256
1-3/8	7/16	6	8	AUG61261
1-1/2	7/16	6	8	AUG61266

1 per tube

18" OAL LONG SERIES

BORE DIA.	HEX SHANK	FLUTE LENGTH	OAL	STOCK #
				TUBED
3/8	5/16	12	18	AUG61308
1/2	5/16	12	18	AUG61309
9/16	7/16	12	18	AUG61311
5/8	7/16	12	18	AUG61316
11/16	7/16	12	18	AUG61321
3/4	7/16	12	18	AUG61326
13/16	7/16	12	18	AUG61331
7/8	7/16	12	18	AUG61336
15/16	7/16	12	18	AUG61341
1	7/16	12	18	AUG61346
1-1/8	7/16	12	18	AUG61351
1-1/4	7/16	12	18	AUG61356
1-3/8	7/16	12	18	AUG61361
1-1/2	7/16	12	18	AUG61366

1 per tube

24" OAL EXTRA LONG SERIES NEW!

BORE DIA.	HEX SHANK	FLUTE LENGTH	OAL	STOCK #
				TUBED
9/16	7/16	18	24	AUG61411
5/8	7/16	18	24	AUG61416
11/16	7/16	18	24	AUG61421
3/4	7/16	18	24	AUG61426
13/16	7/16	18	24	AUG61431
7/8	7/16	18	24	AUG61436
15/16	7/16	18	24	AUG61441
1	7/16	18	24	AUG61446

1 per tube

16 Pc. DISPLAY

8" OAL, 6" FLUTE LENGTH

STOCK # AUG16
Contains 2 each:
1/2" AUG61209
9/16" AUG61211
5/8" AUG61216
11/16" AUG61221
3/4" AUG61226
13/16" AUG61231
7/8" AUG61236
1" AUG61246
Bits in individual tube



1 per box

8 Pc. DISPLAY

18" OAL, 12" FLUTE LENGTH

STOCK # AUG8
Contains one each:
1/2" AUG61309
9/16" AUG61311
5/8" AUG61316
11/16" AUG61321
3/4" AUG61326
13/16" AUG61331
7/8" AUG61336
1" AUG61346
Bits in individual tube



1 per box



• ECO PRO Auger Bits are made outside the United States to ALFA TOOLS' specifications.

Ship Auger Bits - Cont.

PIPE AUGER BITS

HEXAGONAL SHANK

Features:

- Double spurs, double twist wood auger bits.
- Self-feeding screw point.
- 2 set screw recesses on shank for power bit extensions.
- Ideal for plumbing, heating / cooling and other pipe installations.

BORE DIA.	HEX SHANK	FLUTE LENGTH	OAL	STOCK #
				TUBED
3/4	7/16	4	6-1/2	AUG61280
7/8	7/16	4	6-1/2	AUG61281
1	7/16	4	6-1/2	AUG61282
1-1/8	7/16	4	6-1/2	AUG61283
1-1/4	7/16	4	6-1/2	AUG61284
1-3/8	7/16	4	6-1/2	AUG61285
1-1/2	7/16	4	6-1/2	AUG61286

1 per tube



ELECTRICIAN'S AUGER BITS

HEXAGONAL SHANK

Features:

- Single spur, double twist, single cutter wood auger bits.
- Self-feeding screw point.
- 2 set screw recesses on shank for power bit extensions.
- For electricians, pipefitters and plumbers.

BORE DIA.	HEX SHANK	FLUTE LENGTH	OAL	STOCK #
				TUBED
5/8	5/16	5-1/2	8-1/2	AUG61268
11/16	5/16	5-1/2	8-1/2	AUG61269
3/4	5/16	5-1/2	8-1/2	AUG61270
13/16	5/16	5-1/2	8-1/2	AUG61271
7/8	5/16	5-1/2	8-1/2	AUG61272
1	5/16	5-1/2	8-1/2	AUG61273
1-1/8	7/16	5-1/2	8-1/2	AUG61274
1-1/4	7/16	5-1/2	8-1/2	AUG61275
1-3/4	7/16	5-1/2	8-1/2	AUG61277

1 per tube



SHORT AUGER BITS

With 1/4" Hex Power Shank
for cordless machines.

BORE DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
			CARDED
1/4	2	4	AUG61371C
5/16	2	4	AUG61372C
3/8	2	4	AUG61373C
7/16	2	4	AUG61374C
1/2	2	4	AUG61375C

Card 1 per card



TRI-FLUTE AUGER BITS

With 1/4" Hex Power Shank
for cordless machines.

NEW!

BORE DIA.	OVERALL LENGTH	STOCK #
		TUBED
3/8	6-1/2	AUG361409
15/32	6-1/2	AUG361411
1/2	6-1/2	AUG361413
9/16	6-1/2	AUG361415
5/8	6-1/2	AUG361417
3/4	6-1/2	AUG361419
13/16	6-1/2	AUG361421
7/8	6-1/2	AUG361423
1	6-1/2	AUG361425
1-1/8	6-1/2	AUG361427
1-1/4	6-1/2	AUG361429
1-3/8	6-1/2	AUG361431

1 per tube



POWER BIT EXTENSIONS

Fits most boring tools with
1/4", 5/16" and 7/16" Hex Shank.
I.E. AUGER, MULTISPUR & SPADE BITS

Each extension comes with 2 set screws and a hex key.

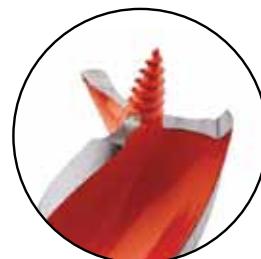
HEX DIA.	OVERALL LENGTH	STOCK #
		TUBED
1/4	6	EXT61289
1/4	12	EXT61290
1/4	18	EXT61291
1/4	24	EXT61292
5/16	18	EXT61293
5/16	24	EXT61294
7/16	12	EXT61295
7/16	18	EXT61296
7/16	24	EXT61297

1 per tube



Features:

- With lead screw.
- Quick Change shank.
- Fast, clean and accurate hole cutting.



See page A75 for
Monolock® Quick Change
Chuck Information



• ECO PRO Auger Bits are made outside the United States to ALFA TOOLS' specifications.

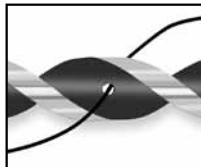
Bell Hanger – Feeler Bits with Fish Hole

High Speed Steel Bell Hanger - Feeler Bits

Bright Finish

Features:

- Fish eye hole near tip of flutes aids in pulling wire after drilling.
- Tapered for quick chip clearance.
- Suitable for drilling in wood and metal.
- Suitable for burglar alarms, telephone installations and other wire & cable applications for drilling of wire feed holes.
- Available in 12", 18", 24", 30" and 42" overall lengths.



DRILL SIZE	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #
1/4	1/4	4	12	BH74500
5/16	5/16	3-1/2	12	BH74501
3/8	3/8	5	12	BH74502
1/2	1/2	5	12	BH74503
1/4	1/4	4	18	BH74504
5/16	5/16	3-1/4	18	BH74505
3/8	3/8	5	18	BH74506
1/2	1/2	4-3/4	18	BH74507

1 per pack

DRILL SIZE	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #
1/4	1/4	4	24	BH74508
5/16	5/16	3-1/4	24	BH74509
3/8	3/8	3-1/2	24	BH74510
1/2	1/2	4-1/2	24	BH74511
1/4	1/4	2-3/4	30	BH74512
3/8	3/8	3-1/2	30	BH74513
1/2	1/2	4-1/2	30	BH74514
1/4	1/4	3	42	BH74515
3/8	3/8	3-1/2	42	BH74516
1/2	1/2	4-1/2	42	BH74517

1 per pack

Carbide Tipped Bell Hanger - Feeler Bits

Black Oxide

Features:

- Fish eye hole near tip of flutes aids in pulling wire after drilling.
- Designed for application in masonry and wood.
- Available in 13", 18", 24", 30" and 42" overall lengths.



NEW!

DRILL SIZE	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #
1/4	1/4	8	13	TCBH74501
5/16	5/16	8	13	TCBH74502
3/8	3/8	8	13	TCBH74503
1/2	3/8	8	13	TCBH74504
5/8	1/2	8	13	TCBH74505
3/4	1/2	8	13	TCBH74506
1/4	1/4	12	18	TCBH74507
5/16	5/16	12	18	TCBH74508
3/8	3/8	12	18	TCBH74509
1/2	3/8	12	18	TCBH74510
5/8	1/2	12	18	TCBH74511
3/4	1/2	12	18	TCBH74512

1 per pack

DRILL SIZE	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #
1/4	1/4	16	24	TCBH74513
5/16	5/16	16	24	TCBH74514
3/8	3/8	16	24	TCBH74515
1/2	3/8	16	24	TCBH74516
5/8	1/2	16	24	TCBH74517
3/8	3/8	20	30	TCBH74518
1/2	3/8	20	30	TCBH74519
5/8	1/2	20	30	TCBH74520
3/4	1/2	20	30	TCBH74521
3/8	3/8	30	42	TCBH74522
1/2	3/8	30	42	TCBH74523
5/8	1/2	30	42	TCBH74524
3/4	1/2	30	42	TCBH74525

1 per pack



16 Pcs. CARBIDE TIPPED WALL DISPLAY

STOCK # TCBH16	
18" OAL	Contains 2 each: 24" OAL
1/4" TCBH74507	1/4" TCBH74513
5/16" TCBH74508	5/16" TCBH74514
3/8" TCBH74509	3/8" TCBH74515
1/2" TCBH74510	1/2" TCBH74516

Bits in individual tube

1 per box

ECO PRO® • ECO PRO Bell Hanger Bits are made outside the United States to ALFA TOOLS' specifications.



Wood Spade Bits

Forged Heat Treated Tool Steel 1/4" Hex Shank



DIA.	STOCK #
POUCHED	
6-1/8" OAL	
1/4	WSB61155P
5/16	WSB61156P
3/8	WSB61157P
7/16	WSB61158P
1/2	WSB61159P
9/16	WSB61160P
5/8	WSB61161P
11/16	WSB61162P
3/4	WSB61163P
13/16	WSB61164P
7/8	WSB61165P
15/16	WSB61166P
1	WSB61167P
1-1/8	WSB61168P
1-1/4	WSB61169P
1-3/8	WSB61170P
1-1/2	WSB61171P
16" OAL	
1/4	WSB61172P
3/8	WSB61173P
1/2	WSB61174P
5/8	WSB61175P
3/4	WSB61176P
7/8	WSB61177P
1	WSB61178P
1-1/8	WSB61178AP

1 per pouch



WOOD SPADE BIT SET

Packaged in reusable vinyl pouches

DESCRIPTION	STOCK #
6 Pc. Set Sizes: 3/8", 1/2", 5/8", 3/4", 7/8", 1" ALL 6-1/8" OAL BITS	WSB61192

Features:

- For all general wood boring performed by high-speed electrical drills.
- Greater efficiency attained at 1500-2000 RPM.
- Forged heat treated tool steel for long tool life.
- 1/4" Hex shank fits securely in 3 jaw chuck.
- Wing tip design.
- Available in 6-1/8" and 16" overall length.
- Large size markings make tools easily identifiable.
- Built-in hole for pulling wires back through walls, ceilings and floors.
- The Monolock Quick Change system allows swift changing of drill bits without needing to change the chuck.



POWER BIT EXTENSIONS

Features:

- Adds extra reach to any 1/4" hex shank bit, with or without power groove.
- Extension head will follow 5/8" and larger bits through hole.
- Takes all standard ANSI, DIN and JIS.
- Holds screwdriver bits 1" and larger.
- Fast changing of accessories in just seconds.
- Replaces all magnetic/non-magnetic bit holders.

HEX SHANK	OVERALL LENGTH	STOCK #
1/4"	3-1/2"	HSA51076
1/4"	8"	HSA51077
1/4"	12"	HSA51078

1 per pack

See page A75 for
Monolock® Quick Change
Chuck Information



WOOD SPADE BIT WALL DISPLAYS

DESCRIPTION	STOCK #
30 Pc. Wall Display 5 ea.: 3/8", 1/2", 5/8", 3/4", 7/8", 1" ALL 6-1/8" OAL Bits	WSB61193
18 Pc. Wall Display 3 ea.: 3/8", 1/2", 5/8", 3/4", 7/8", 1" ALL 16" OAL Bits	WSB61194



• ECO PRO Wood Spade Bits are made outside the United States to ALFA TOOLS' specifications.

Carbide Tipped

RouterMax™ Router Bits are designed and built for professionals. The finest grade micrograin tungsten carbide router tips are induction silver brazed, and are diamond lapped for a perfect cutting edge. The anti-kickback body design and a high visibility teflon coating enables smoother and faster operations.



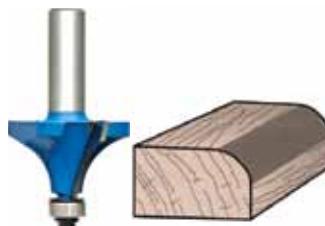
EDGE FORMING BITS

ROUNDING OVER BITS

Rounding over bits with bearing guides – quarter rounds, softens edges

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	RADIUS	SHANK DIA.	STOCK #
5/8	3/8	2	1/16	1/4	RB75062
3/4	3/8	2	1/8	1/4	RB75064
7/8	3/8	2	3/16	1/4	RB75066
1	1/2	2	1/4	1/4	RB75068
1-1/8	1/2	2-1/8	5/16	1/4	RB75070
1-1/4	5/8	2-1/4	3/8	1/4	RB75072
1-1/2	3/4	2-3/8	1/2	1/4	RB75074
3/4	3/8	2-1/4	1/8	1/2	RB75076
7/8	3/8	2-1/4	3/16	1/2	RB75078
1	1/2	2-1/4	1/4	1/2	RB75080
1-1/8	1/2	2-3/8	5/16	1/2	RB75082
1-1/4	5/8	2-1/2	3/8	1/2	RB75084
1-1/2	3/4	2-5/8	1/2	1/2	RB75086
1-3/4	7/8	2-3/4	5/8	1/2	RB75088
2	1	2-7/8	3/4	1/2	RB75090

1 per vinyl pouch



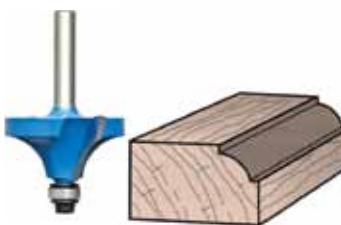
The most popular edge-forming bit. These shear angle bits create a perfect radius edge by slicing through the wood like a knife to reduce or eliminate wood fiber tear-out.

BEADING BITS

Two flutes with bearing guide – drawer fronts, mouldings, chair rails

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	RADIUS	SHANK DIA.	STOCK #
3/4	3/8	2	1/8	1/4	RB75092
7/8	3/8	2	3/16	1/4	RB75094
1	1/2	2	1/4	1/4	RB75096
1-1/4	5/8	2-1/8	5/16	1/4	RB75098
1-1/2	3/4	2-3/8	1/2	1/4	RB75100

1 per vinyl pouch



Very popular for furniture and mill work. These bits create a round edge with either a single step or the traditional double stepped bead.

RouterMax™ Router Bits - Cont.

Carbide Tipped

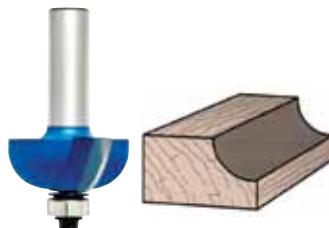
EDGE FORMING BITS

COVE BITS

Two flutes with bearing guide – mouldings and furniture accents

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	RADIUS	SHANK DIA.	STOCK #
1	1/2	2	1/4	1/4	RB75102
1-1/4	5/8	2-1/8	3/8	1/4	RB75104
1-1/2	5/8	2-1/4	1/2	1/4	RB75106
1-1/2	5/8	2-1/2	1/2	1/2	RB75108

1 per vinyl pouch



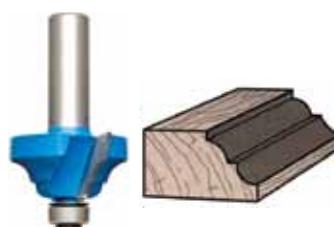
The up-shear angle on these bits enables making decorative edgings on case goods, mouldings and other projects very smoothly and efficiently.

CLASSICAL BITS

With bearing guide – creates beautiful decorative edging

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	CUTTING WIDTH	SHANK DIA.	STOCK #
1-1/4	5/8	2-1/8	3/8	1/4	RB75110
1-1/2	3/4	2-1/4	1/2	1/4	RB75112
1-1/2	3/4	2-1/2	1/2	1/2	RB75114

1 per vinyl pouch



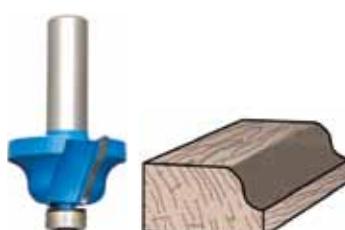
This classical design combines a bead with a cove. For use on 5/8" and 3/4" materials.

ROMAN OGEE

Two flutes with bearing guide – decorative edging for millwork and furniture

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	RADIUS	SHANK DIA.	STOCK #
1-1/8	1/2	2-1/16	5/32	1/4	RB75116
1-1/2	3/4	2-1/4	1/4	1/4	RB75118
1-1/8	1/2	2-1/4	5/32	1/2	RB75120
1-1/2	3/4	2-1/2	1/4	1/2	RB75122

1 per vinyl pouch



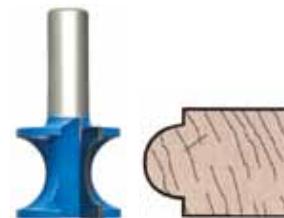
This edge-forming bit adds style to any work. By changing the protrusion from the router, an ogee or cove design can be achieved. A popular and versatile bit for beautiful edge work.

BULL NOSE BITS

Beading and rounding edges on mouldings, frames and countertops

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	DIA.	SHANK DIA.	STOCK #
7/8	11/16	1-7/8	3/8	1/4	RB75124
1	13/16	2	1/2	1/4	RB75126
1	5/8	2-1/8	3/8	1/2	RB75128
1-3/8	1-1/16	2-1/2	3/4	1/2	RB75130

1 per vinyl pouch



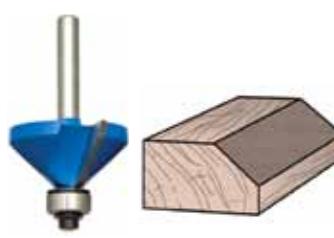
This bit will create a full bead or a full round edge. Excellent for casement and staircase work.

CHAMFER BITS

Two flutes with bearing guide – for beveling and chamfering – 45°

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	BEVEL LENGTH	SHANK DIA.	STOCK #
1	7/16	2	1/4	1/4	RB75132
1-3/8	5/8	2-1/4	3/8	1/4	RB75134

1 per vinyl pouch



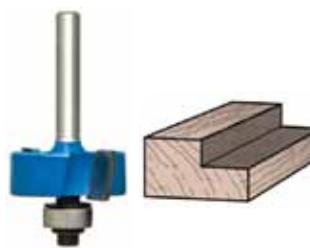
This full shoulder chamfer bit design allows you to make both the standard cut as well as a cut with a bead. The angled cutting edge gives a very clean cut.

RABBETING BITS

With bearing guide – for windows and picture frames

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	SHANK DIA.	STOCK #
1-1/4	1/4	2	1/4	RB75136
1-1/4	3/8	2-1/8	1/4	RB75138
1-1/4	1/2	2-1/8	1/4	RB75140

1 per vinyl pouch



This bit produces super clean cuts on both surfaces of the rabbet. Ideal for inserting glass, wood, or plastic panels into wood frame. Good for windows, cabinets and picture frames.

RouterMax™ Router Bits - Cont.

Carbide Tipped

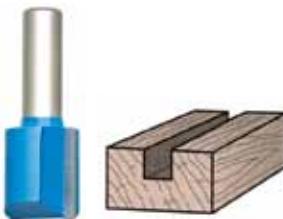
STRAIGHT BITS

STRAIGHT BITS

Plunge cutting – two flutes

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	SHANK DIA.	STOCK #
1/4	3/4	2	1/4	RB75001
3/8	3/4	2	1/4	RB75003
1/2	3/4	2	1/4	RB75005
3/4	3/4	2	1/4	RB75007
1/4	3/4	2-1/2	1/2	RB75008
3/8	3/4	2-1/2	1/2	RB75009
1/2	1-3/16	3	1/2	RB75011
5/8	1-1/8	2-5/8	1/2	RB75013
3/4	1-1/8	2-5/8	1/2	RB75015
1	1-1/8	2-5/8	1/2	RB75017

1 per vinyl pouch

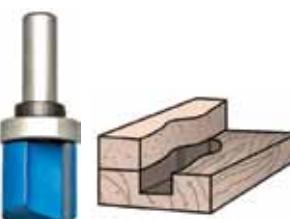


This router is mostly used for cutting dadoes, rabbets, circles and general purpose work. Cuts all types of wood and wood composites. End bit relief permits fast plunge cutting.

Pattern cutting bits – for use with template

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	SHANK DIA.	STOCK #
1/2	3/4	2-1/4	1/4	RB75020
3/4	3/4	2-1/4	1/4	RB75022
3/4	1	2-1/2	1/2	RB75029
1-1/8	1-1/8	3	1/2	RB75026

1 per vinyl pouch



Used for pattern cutting when pattern is mounted on top of work piece. Excellent for part duplication and lettering. End of bit relief allows for fast plunge cutting.

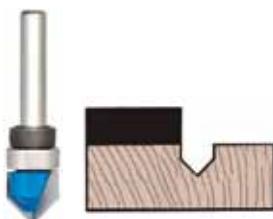
GROOVE FORMING BITS

90° V-GROOVE BITS

Pattern cutting bits – for use with template, with bearing guide

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	ANGLE	SHANK DIA.	STOCK #
1/2	1/2	2	45°	1/4	RB75030

1 per vinyl pouch



Excellent for lettering on signs and decorative grooving on doors and cabinets. Up-shear angle provides excellent chip clearance.

DOVETAIL BITS

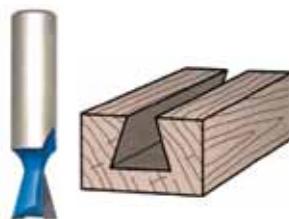
Groove forming bits – cabinet drawers and furniture

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	ANGLE	SHANK DIA.	STOCK #
3/8	3/8	1-3/4	8°	1/4	RB75032
1/2	1/2	1-3/4	14°	1/4	RB75034
1/2	1/2	2-1/4	14°	1/2	RB75036

Pattern cutting bits - for use with template, with bearing guide

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	ANGLE	SHANK DIA.	STOCK #
1/2	1/2	2-1/4	14°	1/4	RB75038

1 per vinyl pouch



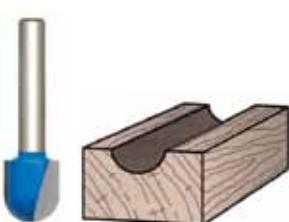
Used for cutting when a pattern is mounted on top of work piece. Shear angle provides a good chip clearance.

CORE BOX BITS

Groove forming bits – veining and fluting, excellent chip removal, smooth finish.

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	RADIUS	SHANK DIA.	STOCK #
1/4	3/8	1-3/4	1/8	1/4	RB75040
3/8	7/16	1-3/4	3/16	1/4	RB75042
1/2	9/16	1-7/8	1/4	1/4	RB75044

1 per vinyl pouch



Designed with an up-shear for smooth cutting and efficient chip removal. These bits produce a perfect radius groove for decorative work on cabinet doors and other projects.

RouterMax™ Router Bits - Cont.

Carbide Tipped

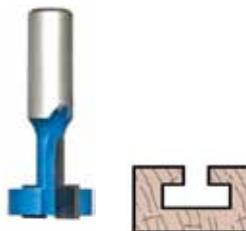
SPECIALTY BITS

T-SLOT BITS

Specialty bits – create slot wall panels
for displays

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	T-WIDTH	SHANK DIA.	STOCK #
1	7/8	2-5/16	3/8	1/2	RB75046

1 per vinyl pouch



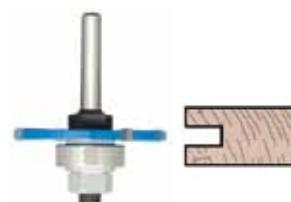
This bit creates slots on
wall paneling for commercial
display hanging.

5/32" SLOT CUTTER BITS

Four flutes with bearing guide –
for biscuit joining

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	CUTTING DEPTH	SHANK DIA.	STOCK #
2	5/32	2-1/4	9/16	1/4	RB75048

1 per vinyl pouch



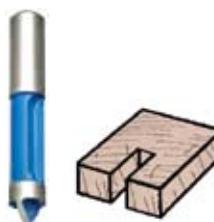
This bit is designed to
produce a precision slot
for "T" mouldings, spine
joints and biscuit joining –
#10, #20 biscuits. 4 cutting
edges provide a super smooth
and accurate slot.

PANEL BITS

Create cutouts in floors, ceilings and panels

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	NO. OF FLUTES	SHANK DIA.	STOCK #
1/2	1-1/8	3-1/8	2	1/2	RB75050

1 per vinyl pouch



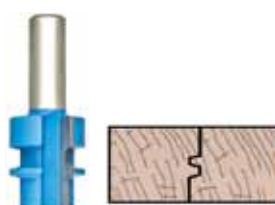
Used in the construction
trade to rout cutouts in floors,
ceilings and panels for
electrical boxes and windows.

GLUE JOINT BITS

Specialty bit – for table tops
and panels 3/4" to 1"

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	SHANK DIA.	STOCK #
1	1-3/16	2-5/8	1/4	RB75052
1-1/8	1-1/4	2-5/8	1/2	RB75054

1 per vinyl pouch



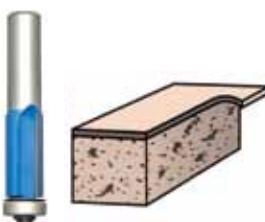
These bits are used for
joining 3/4" to 1" stock to make
wide panels for table tops and
other projects. Align the bit to
the center of the stock and
simply reverse the board for
a perfect glue joint.

LAMINATE FLUSH TRIMMING BITS

Two flutes with bearing guide

CUTTER DIA.	CUTTING LENGTH	OVERALL LENGTH	SHANK DIA.	STOCK #
3/8	1-3/16	2-3/4	1/4	RB75056
1/2	1-3/16	2-3/4	1/4	RB75058
1/2	1-3/16	3-1/4	1/2	RB75059
5/8	1-3/16	3	1/2	RB75060

1 per vinyl pouch



Excellent for smooth
trimming of wood, wood
composites, laminates or
man-made materials such
as a CORIAN®.

RouterMax™ Router Bits - Cont.

Carbide Tipped Router Bit Sets For Professional Use



4 PC. ROUNDOVER ROUTER BIT SET

DESCRIPTION	SHANK DIA.	STOCK #
Set includes four of the most popular sizes of roundover bits: Radius sizes: 1/8", 1/4", 3/8" and 1/2"	1/4"	RB75165
	1/2"	RB75166

Individually boxed



5 PC. EDGE FORMING ROUTER BIT SET

DESCRIPTION	SHANK DIA.	STOCK #
Set includes five versatile edge forming bits: 1/2" Flush Trim 3/8" Rabbet 3/8" Roundover 5/32" Roman Ogee 45° Chamfer	1/4"	RB75164

Individually boxed



15 PC. MULTI-PURPOSE ROUTER BIT SET

DESCRIPTION	SHANK DIA.	STOCK #
Comprehensive bit selection consisting of: 3/8" Flush Trim 3/8" Roundover 1/2" Flush Trim 5/32" Roman Ogee 1/2" Cove 1/4" x 3/4" Straight 90° V-Groove 1/2" x 3/4" Straight 45° Chamfer 3/4" x 3/4" Straight 3/8" Rabbet 1/2" x 3/4" Pattern 1/2" Rabbet 1/2" Core 1/2" 14° Dovetail	1/4"	RB75163

Individually boxed

Replacement Bearings for Router Bits

Features:

- These high quality router bit bearings stand up to heavy use and can be used with other manufacturers' bits.
- Some bits can use different size bearings.



BEARING SIZE	STOCK #
3/8" x 3/16"	RB75151
1/2" x 3/16"	RB75152
1/2" x 1/4"	RB75153
5/8" x 1/4"	RB75154
3/4" x 1/4"	RB75155
3/4" x 1/2"	RB75156
1-1/8" x 1/2"	RB75157

1 per pack

Drill Routers / Drill Saws / Brad Point Drill Routers

Super High-Speed Steel

135° Split Point

DRILL ROUTERS / DRILL SAWS

Features:

- All purpose: usable on wood, plywood, plastic and metal.
- 1/4" hex shanks are designed for use in power tools with quick change chucks and adapters. They also provide added stability when used in standard drill chucks.

2" cutting and sawing section on shank



1/4" HEX POWER SHANK

SIZE	FINISH	STOCK #	
		ENVELOPED	CARDED
1/4"	REGULAR	DSH50113	DSH50113C
1/4"	TiN COATED	DSH50113TN	DSH50113TNC

CR-VA Tool Steel

Hardened for long usage

BRAD POINT DRILL ROUTERS / DRILL SAWS

Features:

- For drilling into wood and easily enlarging, scrolling and contouring holes for secondary purpose.



REGULAR SHANK NEW!

DRILL SIZE	STOCK #
5/32"	DS50114
1/4"	DS50115
5/16"	DS50116
3/8"	DS50117
1/2"	DS50118

1 per pack



REGULAR SHANK

SIZE	FINISH	STOCK #	
		ENVELOPED	CARDED
1/4"	REGULAR	DS50113	DS50113C
1/4"	TIN COATED	DS50113TN	DS50113TNC

Bulk 12 per envelope
Card 1 per card



See page A75 for Monolock®
Quick Change Chuck Information



SET NEW!

DESCRIPTION	STOCK #
6 Pc. Set in Wood Case – 1 ea.: 5/32", 1/4", 5/16", 3/8", 1/2" 1/2" Countersink	DS50119

NOMI™ Chisels For Fine Woodworking



PROFESSIONAL QUALITY



NOMI™

Very sharp and tough chisel edge for delicate as well as heavy woodworking

Features:

- High quality laminated steel (The art of joining harder steel for a cutting edge onto a soft steel body was developed in Japan).
- Single hollow ground back reduces area of contact with the workpiece, which lessens friction and results in smooth, clean cuts.
- High quality red oak handle.
- Steel ring on handle for work with mallet or hammer allows both delicate, fine detail work as well as heavier tasks.

**Rated #1 by
Fine Woodworking
Magazine's Chisel
Survey**

*Superior chisels
from Japan
for the craftsman*



3 Pc. Set



WC66951

10 Pc. Set includes
handy wood storage case



WC66952

CHISEL SIZE	STOCK #
1/4"	WC66941
3/8"	WC66942
1/2"	WC66943
5/8"	WC66944
3/4"	WC66945
7/8"	WC66946
1"	WC66947
1-3/8"	WC66948
1-1/2"	WC66949
1-5/8"	WC66950

1 per pack

CHISEL SETS

DESCRIPTION	STOCK #
3 Pc. Set – 1 ea.: 3/8", 1/2", 5/8"	WC66951
10 Pc. Set – 1 ea.: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-3/8", 1-1/2", 1-5/8"	WC66952

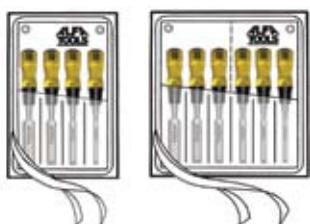
Sharpening and care instruction sheet supplied with each chisel.

Wood Chisels

D

LignaCraft® Wood Chisels

**Wood Chisels, Drop Forged
With Metal Striking Cap Handles**



CHISEL SETS

NEW!

DESCRIPTION	STOCK #
4 Pc. Set – 1 ea.: 1/4", 1/2", 3/4", 1"	WCP04
6 Pc. Set – 1 ea.: 1/4", 3/8", 1/2", 5/8", 3/4", 1"	WCP06

Sharpening and care instruction sheet supplied with each chisel.



Professional Quality

Features:

- Drop forged from premium chrome vanadium steel. Blade surface and tapered, beveled sides are precision ground to a satin polish finish.
- Each chisel is approximately 10" in length with a 5" handle.
- Metal striking cap in the handle protects the chisel during repeated uses.
- Smooth, contoured handle shape is lathe turned from a solid piece of acetate to prevent distortion.

CHISEL SIZE	STOCK #
1/4"	WC66911
3/8"	WC66912
1/2"	WC66913
5/8"	WC66914
3/4"	WC66915
7/8"	WC66916
1"	WC66917
1-1/4"	WC66918
1-1/2"	WC66919



Clamshell 6 per carton

Woodworker's Shop Aids

OAK MALLETS



KIZUCHI,
Japan

Features:

- A well-balanced mallet crafted from Japanese oak.
- Used in cases where a metal hammer is inappropriate, such as striking a chisel.

SIZE DIA.	STOCK #
36 mm	WM36
42 mm	WM42
48 mm	WM48
54 mm	WM54

1 per pack

FLUSH CUT SAWS



Features:

- Flexible steel blade, without teeth set, permits cutting right at the surface without marring it.
- Ideal for flush cutting dowels, tenons, pegs and trimming.

BLADE LENGTH	T.P.I.	STOCK #
5-3/4"	22	SB67042

1 per pack

KEYHOLE SAW



Features:

- Blade mounted into a 4-1/2" oak handle cuts fast on the pull stroke.
- The narrow keyhole blade makes very small radius cuts possible.

TRIM SAW



Features:

- This small key keyhole saw is perfect for cutting roughness or removing stock in tight areas.
- Particularly useful for the trimming and fixing of joints.

SAW TYPE	BLADE LENGTH	T.P.I.	STOCK #
KEYHOLE SAW	8"	11	SB67043
TRIM SAW	4-3/4"	18	SB67044

1 per pack



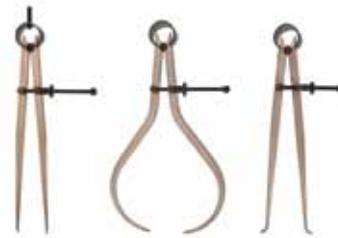
HAND COUNTERSINKS

Features:

- Handy 5 flute, 90° countersink with wood handle.
- 1/2" diameter.

Stock # CSF50566

FLAT LEG DIVIDERS & CALIPERS



Features:

- Easy adjustment screw.
- Balanced legs, uniform tension.
- Polished natural steel finish.

LEG SIZE	STOCK #		
	DIVIDER	OUTSIDE CALIPER	INSIDE CALIPER
4"	HT10130	HT10120	HT10110
6"	HT10132	HT10122	HT10112
8"	HT10134	HT10124	HT10114
10"	HT10136	HT10126	HT10116
12"	HT10138	HT10128	HT10118

1 per pack

WING DIVIDERS

Features:

- Heavy duty divider with cast alloy body.
- Hardened steel points, fully polished and nickel plated.



LEG SIZE	STOCK #
6"	HT10142
8"	HT10143
10"	HT10144
12"	HT10145

1 per pack

6 PC. ROTARY RASP / FILE SET



Made in
Germany



Features:

- Handy power cutters for small filing jobs.
- 1/4" diameter shank.

Contains: 3 rasps for wood
2 files for non-ferrous metal
1 countersink 1/2"

Stock # WRF61699



5 PC. GIMLET SET

Features:

- The perfect tool to start a hole by hand. Great for making holes for fasteners in drywall.
- For use in wood or plastic.

Contains one each: Dia. 5/32", 1/8", 3/16",
1/4" and 5/16".

Stock # GS105

Screw Driving Tools

Screw Driving Accessories

Screwdriver Bit Technical Information	E1-3
Insert Bits / Power Bits	E4-8
Insert Bits Tamperproof	E9
NEW! Torsion-buffer Grooved Bits	E10
NEW! Merchandiser / Dispenser	E10
Bit Holders / Magnetic	E11
NEW! Bit Holders / Magnetic / Specialty	E11
Bit Holder / Driver Quick Lock	E11
Bit Holder Flexible	E11
Nut Setters and Sets	E12
Hex Socket Extensions	E13
Square Drive Impact Sockets	E13
Square Drive Bit Holders	E13
Keys - L-Keys, Hex Keys, Sets	E14-15

E

Screwtech® Screwdrivers & Nut Drivers

Screwdrivers Quick Change	E16-17, 23
Screwdrivers Custom Imprint	E16-17
Screwdrivers & Displays	E18-19
Nut Drivers & Displays	E20
NEW! Wing Nut Drivers	E20
Specialty Screwdrivers	E21
Hangerbolt Driver	E21
Professional Screwdriver Sets	E21
NEW! Screwdrivers High-Voltage	E22
NEW! Screwdrivers Electrician's	E22
Screwdrivers Marine	E23
NEW! Screwdrivers Tamperproof	E23
Screwdrivers Magnetic	E24
Screwdrivers Electronic	E24
Screwdriver Bit & Security Bit Sets	E25
Ball Hex Drivers	E25

Specialty Tools, Sets & Kits

Flexible Ratcheting Driver Kit	E26
All-Purpose Tool Kit	E26
Insert Bit Kits & Dial-A-Bit Dispensers .	E27
Screwdriver Bit Block Sets	E27



FASTENER AND SCREWDRIVER BITS USAGE BY INDUSTRY

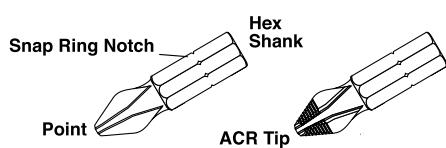
Profile	Phillips®	Square Recess (Robertson®)	Slotted®	Phillips® Square Driv®	Pozidriv®	Torx®	Hex	Trix® w/pin	Tri-Wing®	Hex w/pin	Spanner
Automotive	■		■		■	■	■	■		■	
Aviation	■		■			■	■		■	■	
Appliance	■	■	■	■	■	■	■				
Furniture	■	■	■								
Construction/Decking	■	■	■	■	■						
Public Transportation	■		■	■				■			
Electronics	■		■			■					
HVAC	■		■					■		■	
Recreation	■		■								
Hobby	■		■								
Marine	■		■								
Security		■						■	■	■	■
Drywall	■										
Subfloor	■										
Machine Tools/Metal						■	■				

• Tri-Wing®, Pozidriv®, ACR®, Phillips Square-Driv® and Phillips® are registered trademarks of the Phillips Screw Company.
 • Torx® is a registered trademark of Acument® Global Technologies.

**Screwdriver Inserts and Power Bits are made from Industrial Grade S2 Tool Steel, heat treated to HRC58 – HRC62.
 ACR® bits have Anti Cam-out Ribs which allow precision fit and resist slippage.**

FINDING THE RIGHT SCREWDRIVER BIT

INSERT BITS

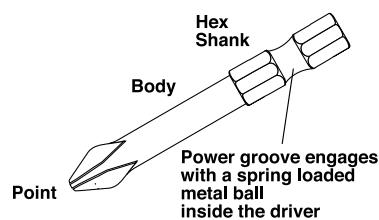


Insert Bits are engineered for use in hand driving applications or with power tools when used with insert bit holder. These compact bits are economical, change over quickly and require less storage space. Available in 1" OAL with 1/4" hex shank and 1-1/4", 1-1/2" OAL with 5/16" shank.

Features:

- Compact 1" standard length.
- Wide variety of point sizes to fit many different applications.
- Bits are milled for a precise fit.

POWER BITS

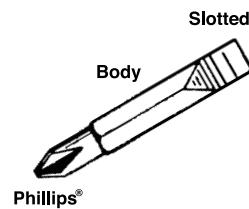


Power Bits are specifically built for the higher torque requirements of power tools. They fit directly into the power tool for improved concentricity and easier clearance. They are 1-15/16" and up OAL with 1/4" hex power shanks.

Features:

- Used in high-torque power tools.
- Designed for use in drill chuck and quick change chuck adapter.
- 1/4" hex power shank.
- Wide variety of tip configurations.

DOUBLE END BITS



Double End Bits deliver both speed and convenience by combining screwdriver bits in a one-piece design. These high quality bits are made to withstand the same high torque use as power bits.

Features:

- Combine two tip styles in one tool.
- Designed for three jaw chuck.

Screwdriver Bits Information Chart

BIT SELECTION CHART

Locate the type and size of screw you will be driving for each type of fastener.

Then move to the left column to find the point size you need.

PHILLIPS®



POINT SIZE	WOOD SCREW SIZE			MACHINE SCREW SIZE		SHEET METAL SCREW SIZE
	FLAT, OVAL	ROUND	FLAT, OVAL, BINDING	ROUND, FILLISTER	TRUSS, BRAZIER BUTTON	FLAT, OVAL, ROUND, STOVE, BINDING
0	0, 1	0, 1	0, 1	0, 1	0, 1	0, 1
1	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4, 5	2, 3, 4
2	5, 6, 7, 8, 9	5, 6, 7, 8, 9, 10	5, 6, 7, 8, 10	5, 6, 7, 8, 10	6, 8, 10	5, 6, 7, 8, 10
3	10, 12, 14, 16	12, 14, 16	12, 14	12, 1/4", 5/16"	12, 1/4"	12, 14
4	18, 20, 24	18, 20, 24	5/16", 3/8", 7/16", 1/2"	3/8", 7/16", 1/2"	5/16", 3/8", 7/16", 1/2"	—

SLOTTED®



SLOTTED POINT SIZE	SCREW SLOT WIDTH	
	MINIMUM	MAXIMUM
1 - 2	0.019	0.026
2 - 3	0.023	0.031
3 - 4	0.027	0.035
4 - 5	0.031	0.039
6 - 8	0.035	0.043
8 - 10	0.039	0.048
10 - 12	0.045	0.054
12 - 14	0.056	0.067

SQUARE RECESS



SQUARE RECESS POINT SIZE	TAPPING SCREW SIZE	WOOD SCREW SIZE	MACHINE SCREW SIZE
0	3, 4	3, 4	3, 4
1	5, 6, 7	5, 6, 7	5, 6
2	8, 10	8, 9, 10	8, 10
3	12, 14	12, 14	12, 14

HEX

SAE Fractional



POINT SIZE	SOCKET HEAD CAP SCREW SIZE	SET SCREW SIZE
5/64"	2, 3	8
3/32"	4, 5	10
7/64"	6	—
1/8"	—	1/4"
5/32"	10	5/16"
3/16"	1/4"	3/8"
7/32"	—	7/16"
1/4"	5/16"	1/2"
5/16"	3/8"	5/8"
3/8"	7/16", 1/2"	3/4"
Metric		
M2.0	M2.3, 2.5, 2.6	M4
M2.5	M3	M5
M3.0	M4	M6
M4.0	M5	M8
M5.0	M6	M10
M6.0	M8	M12, 14

TORX®



TORX® POINT SIZE	TORX® DIA.
T6	0.065
T7	0.077
T8	0.090
T9	0.097
T10	0.107
T15	0.128
T20	0.151
T25	0.173
T27	0.195
T30	0.216
T40	0.260
T45	0.306
T50	0.346
T55	0.440

General Information:



Nut Setters

Popular for the pre-engineered building industry. For use with Hex Head Screws. 1/4" Hex Shank.



Bit Holders

Use in conjunction with insert bits. Magnetic. "Extra heavy duty" bit holders have "C" ring retainers. One or two piece construction.



Extensions/ Socket Adapters

Adapts a hand driver or drill into a socket wrench.

Screwdriver Bits Cross-Reference Chart (Apex® - Alfa Tools)

PHILLIPS®

Size x OAL	Apex®	Alfa Tools
1/4" Hex Insert Bits		
#1 x 1"	440-1X	HSB15802
#2 x 1"	440-2X	HSB15803
#3 x 1"	440-3X	HSB15804
1/4" Hex Insert Bits - Reduced		
#1 x 1"	446-1X	HSB15806
#2 x 1"	446-2X	HSB15805
ACR® 1/4" Hex Insert Bits		
#1 x 1"	440-1-ACR1X	HSB26110
#2 x 1"	440-2-ACR2X	HSB26111
#3 x 1"	440-ACR3X	HSB26112
ACR® 1/4" Hex Insert Bits - Reduced		
#2 x 1"	440-2-ACR2DX	HSB26113
5/16" Hex Insert Bits		
#1 x 1-1/4"	480-1X	HSB16021
#2 x 1-1/4"	480-2X	HSB16022
#3 x 1-1/4"	480-3X	HSB16023
1/4" Power Bits		
#1 x 1-15/16"	491X	HSB15845
#2 x 1-15/16"	492X	HSB15846
#3 x 1-15/16"	493X	HSB15847
#1 x 2-3/4"	491-AX	HSB15848
#2 x 2-3/4"	492-AX	HSB15849
#3 x 2-3/4"	493-AX	HSB15850
#1 x 6"	491CX	HSB15860
#2 x 6"	492-CX	HSB15861
#3 x 6"	493-CX	HSB15862
ACR® 1/4" Power Bits		
#1 x 1-15/16"	491-ACR1X	HSB26114
#2 x 1-15/16"	491-ACR2X	HSB26115
#3 x 1-15/16"	491-ACR3X	HSB26116

SLOTTED®

Size x OAL	Apex®	Alfa Tools
1/4" Insert Bits		
6F-8R x 1"	445-2X	HSB15809
8F-10R x 1"	445-3X	HSB15810
10F-12R x 1"	445-4X	HSB15811
5/16" Insert Bits		
6F-8R x 1-1/2"	485-2X	HSB16026
8F-10R x 1-1/2"	485-3X	HSB16027
10F-12R x 1-1/2"	485-3X	HSB16028
1/4" Power Bits		
1F-2R x 1-15/16"	320-000X	HSB16055
2F-3R x 1-15/16"	320-00X	HSB16056
3F-4R x 1-15/16"	320-0X	HSB16057
4F-6R x 1-15/16"	320-1X	HSB16058
6F-8R x 1-15/16"	320-3X	HSB15864
8F-10R x 1-15/16"	320-4X	HSB15865
10F-12R x 1-15/16"	320-5X	HSB15866
12F-14R x 1-15/16"	320-6X	HSB15871

TORX®

Size x OAL	Apex®	Alfa Tools
1/4" Hex Insert Bits		
T5 x 1"	440-TX-05X	HSB16066
T6 x 1"	440-TX-06X	HSB15820
T7 x 1"	440-TX-07X	HSB15821
T8 x 1"	440-TX-08X	HSB15822
T9 x 1"	440-TX-09X	HSB15823
T10 x 1"	440-TX10X	HSB15824
T15 x 1"	440-TX-15X	HSB15825
T20 x 1"	440-TX-20X	HSB15826
T25 x 1"	440-TX-25X	HSB15827
T27 x 1"	440-TX-27X	HSB15828
T30 x 1"	440-TX-30X	HSB15829
T40 x 1"	440-TX-40X	HSB15830
5/16" Insert Bits		
T30 x 1-1/4"	480-TX-30X	HSB16030
T40 x 1-1/4"	480-TX-40X	HSB16031
T45 x 1-1/4"	480-TX-45X	HSB16032
T47 x 1-1/4"	480-TX-47X	HSB16033
T50 x 1-1/4"	480-TX-50X	HSB16034
1/4" Power Bits		
T10 x 1-15/16"	49-TX-10	HSB15888
T15 x 1-15/16"	49-TX-15	HSB15889
T20 x 1-15/16"	49-TX-20	HSB15890
T25 x 1-15/16"	49-TX-25	HSB15891
T27 x 1-15/16"	49-TX-27	HSB15892
T30 x 1-15/16"	49-TX-30	HSB15893
T40 x 1-15/16"	49-TX-10	HSB15894
T10 x 6"	49-C-TX-10	HSB16081
T15 x 6"	49-C-TX-15	HSB16082
T20 x 6"	49-C-TX-20	HSB16083
T25 x 6"	49-C-TX-25	HSB16084
T27 x 6"	49-C-TX-27	HSB16085
T30 x 6"	49-C-TX-30	HSB16086
T40 x 6"	49-C-TX-40	HSB16087

TORX® TAMPERPROOF

Size x OAL	Apex®	Alfa Tools
1/4" Hex Insert Bits		
TT10 x 1"	440-TX-10-H	HSB15967
TT15 x 1"	440-TX-15-H	HSB15968
TT20 x 1"	440-TX-20-H	HSB15969
TT25 x 1"	440-TX-25-H	HSB15970
TT27 x 1"	440-TX-27-H	HSB15971
TT30 x 1"	440-TX-30-H	HSB15972
TT40 x 1"	440-TX-40-H	HSB15973
5/16" Hex Insert Bits		
TT45 x 1-15/16"	480-TX-45-H	HSB16980
TT50 x 1-15/16"	480-TX-50-H	HSB16981
TT55 x 1-15/16"	480-TX-55-H	HSB16982
1/4" Power Bits		
TT45 x 1-15/16"	490-TX-45-H	HSB16983
TT50 x 1-15/16"	490-TX-50-H	HSB16984
TT55 x 1-15/16"	490-TX-55-H	HSB16985

HEX

Size x OAL	Apex®	Alfa Tools
1/4" Insert Bits		
5/64" x 1"	185-0X	HSB15836
3/32" x 1"	185-1X	HSB15837
7/64" x 1"	185-9X	HSB15838
1/8" x 1"	185-2X	HSB15839
5/32" x 1"	185-3X	HSB15840
3/16" x 1"	185-4X	HSB15841
5/16" Insert Bits		
5/32" x 1-1/4"	315-3X	HSB16045
3/16" x 1-1/4"	315-4X	HSB16046
7/32" x 1-1/4"	315-5X	HSB16047
1/4" x 1-1/4"	315-6X	HSB16048
5/16" x 1-1/4"	315-7X	HSB16049
3/8" x 1-1/4"	315-8X	HSB16051
1/4" Power Bits		
5/64" x 1-15/16"	AM-02-A	HSB16201
3/32" x 1-15/16"	AM-03	HSB16202
1/8" x 1-15/16"	AM-04	HSB16203
5/32" x 1-15/16"	AM-05	HSB16204
3/16" x 1-15/16"	AM-06	HSB16205
7/32" x 1-15/16"	AM-07	HSB16206
1/4" x 1-15/16"	AM-08	HSB15207
5/16" x 1-15/16"	AM-10	HSB15208

SQUARE RECESS®

Size x OAL	Apex®	Alfa Tools
1/4" Insert Bits		
#0 x 1"	950-0X	HSB15814
#1 x 1"	950-1X	HSB15815
#2 x 1"	950-2X	HSB15816
#3 x 1"	950-3X	HSB15817
1/4" Power Bits		
#1 x 1-15/16"	954-1X	HSB15872
#2 x 1-15/16"	954-2X	HSB15873
#3 x 1-15/16"	954-3X	HSB15874



MAGNETIC BIT HOLDERS

Size x OAL	Apex®	Alfa Tools
For 1/4" Insert Bits		
1/4" Shank x 2-5/8"	M-490	HSB66695
1/4" Shank x 4"	M-490-4	HSB66697A
1/4" Shank x 6"	M-490-6	HSB66698
For 5/16" Insert Bits		
1/4" Shank x 3-1/2"	M-498	HSB66700
5/16" Shank x 3-1/16"	M-638	HSB66702

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- Torx® is a registered trademark of Acument® Global Technologies.
- Apex® is a registered trademark of Cooper Industries.



Phillips® Insert Bits - 1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
#0	1"	25	HSB15801	HSB15801C
#1	1"	25	HSB15802	HSB15802C
#2	1"	25	HSB15803	HSB15803C
#3	1"	25	HSB15804	HSB15804C
#3	1-1/4"	25	HSB15807	HSB15807C



Reduced Body

Phillips® Drywall Bits - 1/4" Hex Shank

#1R	1"	25	HSB15806	HSB15806C
#2R	1"	25	HSB15805	HSB15805C



Phillips® Insert Bits - 5/16" Hex Shank

#1	1-1/4"	25	HSB16021	HSB16021C
#2	1-1/4"	25	HSB16022	HSB16022C
#3	1-1/4"	25	HSB16023	HSB16023C



Phillips® ACR® Insert Bits - 1/4" Hex

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
#1	1"	25	HSB26110	HSB26110C
#2	1"	25	HSB26111	HSB26111C
#3	1"	25	HSB26112	HSB26112C



Phillips® ACR® Drywall Bits - 1/4" Hex

#2R	1"	25	HSB26113	HSB26113C
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Phillips® ACR® Power Bits - 1/4" Hex

#1	1-15/16"	25	HSB26114	HSB26114C
#2	1-15/16"	25	HSB26115	HSB26115C
#3	1-15/16"	25	HSB26116	HSB26116C

All assortment displays are on page E10



Phillips® Power Bits - 1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 1 PER CARD
#1	1-15/16"	25	HSB15845	HSB15845C
#1	2-3/4"	10	HSB15848	HSB15848C
#1	3"	10	HSB15851	HSB15851C
#1	3-1/2"	10	HSB15851A	HSB15851AC
#1	4"	10	HSB15854	—
#1	5"	10	HSB15857	—
#1	6"	10	HSB15860	—
#2	1-15/16"	25	HSB15846	HSB15846C
#2	2-3/4"	10	HSB15849	HSB15849C
#2	3"	10	HSB15852	HSB15852C
#2	3-1/2"	10	HSB15852A	HSB15852AC
#2	4"	10	HSB15855	—
#2	5"	10	HSB15858	—
#2	6"	10	HSB15861	—
#3	1-15/16"	25	HSB15847	HSB15847C
#3	2-3/4"	10	HSB15850	HSB15850C
#3	3"	10	HSB15853	HSB15853C
#3	3-1/2"	10	HSB15853A	HSB15853AC
#3	4"	10	HSB15856	—
#3	5"	10	HSB15859	—
#3	6"	10	HSB15862	—



DSP271

- Drives screw perfectly flush into drywall.
- Prevents dimpling / damaging.
- Use in any 1/4" bit holder.



DST40

Drywall Stopper - 1/4" Hex Shank

DESCRIPTION	PACK QTY.	STOCK #
#2 Ph x 1" x 1/4"	25	DSP271
T40 x 1" x 1/4"	25	DST40

Drywall Stopper Power Bit - 1/4" Hex Shank



#2 Ph x 2" x 1/4"

25

DSP272



SELECT-A-BIT JAR DISPLAY



- Clear plastic jar allows maximum product exposure in minimum space.

CONTENTS	ITEM	QTY.	STOCK #
#2 x 1" Phillips® 1/4" Insert Bits	HSB15803	500	CJ8004
#2R x 1" Phillips® Reduced Body For Drywall, 1/4" Insert Bits	HSB15805	500	CJ8008
#2 x 1-15/16" Phillips® 1/4" Power Bits	HSB15846	250	CJ8022
#2 x 1" Phillips® ACR 1/4" Power Bits	HSB26111	500	CJ8031
#2 x 1" Phillips® x 1/4" Phillips® Stopper	DSP271	250	DSPJ271

1 jar display per box

PHILLIPS® - SQUARE COMBO WITH ACR®

ACR® Ribbing ensures maximum efficiency



Two most popular tip styles combined with ACR® (anti-cam-out) technology:

- Extends tool life.
- Reduces worker fatigue.
- Eliminates slippage in the screw.
- Has an improved “stick fit”.
- Mostly used for driving deck screws.
- For use with Phillips® Square-Driv® screws.



Phillips® Square-Driv® Insert Bits 1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
PSD2-1	1"	25	HSB16091	HSB16091C

P2-R2 COMBO 2-in-1 BIT



New P2-R2 combo bits' unique design:

- Allows user to drive #2 Phillips® and #2 Robertson® screws with a single bit.
- Mostly used for drywall, cabinet and electrical rough-in installation.



P2-R2 Combo Insert Bits 1/4" Hex Shank

NEW!

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
P2R2-1	1"	25	HSB16095	HSB16095C

Phillips® Square Driv® Power Bits 1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
PSD2-2	1-15/16"	25	HSB16092	HSB16092C
PSD2-3	3-1/2"	10	HSB16093	HSB16093C

P2-R2 Combo Power Bits 1/4" Hex Shank

NEW!

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
P2R2-2	1-1/2"	25	HSB16096	HSB16096C
P2R2-3	2"	25	HSB16097	HSB16097C

SELECT-A-BIT JAR DISPLAY



- Clear plastic jar allows maximum product exposure in minimum space.

All assortment displays are on page E10

CONTENTS	ITEM	QTY.	STOCK #
PSD2-1 x 1" Phillips® - Sq. Driv® with ACR® 1/4" Insert Bits	HSB16091	500	CJ8060
P2R2-1 x 1" P2-R2 Combo 2-in-1 1/4" Insert Bits	HSB16095	500	CJ8061
PSD2-2 x 1-15/16" Phillips® - Sq. Driv® with ACR® 1/4" Power Bits	HSB16092	250	CJ8063
PSD2-3 x 3-1/2" Phillips® - Sq. Driv® with ACR® 1/4" Power Bits	HSB16093	125	CJ8064
P2R2-2 x 1-1/2" P2-R2 Combo 2-in-1 1/4" Power Bits	HSB16096	250	CJ8065
P2R2-3 x 2" P2-R2 Combo 2-in-1 1/4" Power Bits	HSB16097	250	CJ8066

1 jar display per box

- Tri-Wing®, Pozidriv®, ACR®, Phillips Square-Driv® and Phillips® are registered trademarks of the Phillips Screw Company.
- Torx® is a registered trademark of Acument® Global Technologies.



Square Recess Insert Bits

1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
#0	1"	25	HSB15814	HSB15814C
#1	1"	25	HSB15815	HSB15815C
#2	1"	25	HSB15816	HSB15816C
#3	1"	25	HSB15817	HSB15817C



Square Recess Power Bits

1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 1 PER CARD
#1	1-15/16"	25	HSB15872	HSB15872C
#1	3"	10	HSB15875	—
#1	4"	10	HSB15878	—
#1	5"	10	HSB15881	—
#1	6"	10	HSB15884	—
#2	1-15/16"	25	HSB15873	HSB15873C
#2	3"	10	HSB15876	—
#2	4"	10	HSB15879	—
#2	5"	10	HSB15882	—
#2	6"	10	HSB15885	—
#3	1-15/16"	25	HSB15874	HSB15874C
#3	3"	10	HSB15877	—
#3	4"	10	HSB15880	—
#3	5"	10	HSB15883	—
#3	6"	10	HSB15886	—



SELECT-A-BIT JAR DISPLAY

- Clear plastic jar allows maximum product exposure in minimum space.

CONTENTS	ITEM	QTY.	STOCK #
#2 x 1" Sq. Recess 1/4" Insert Bits	HSB15816	500	CJ8005
#2 x 2" Square Recess 1/4" Power Bits	HSB15873	250	CJ8024

1 jar display per box



Slotted Insert Bits - 1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
#1 - 2	1"	25	HSB16052	HSB16052C
#2 - 3	1"	25	HSB16053	HSB16053C
#3 - 4	1"	25	HSB16054	HSB16054C
#4 - 5	1"	25	HSB15808	HSB15808C
#6 - 8	1"	25	HSB15809	HSB15809C
#8 - 10	1"	25	HSB15810	HSB15810C
#10 - 12	1"	25	HSB15811	HSB15811C
#12 - 14	1-1/4"	25	HSB15812	HSB15812C

Slotted Insert Bits

5/16" Hex Shank

#4 - 5	1-1/2"	25	HSB16025	HSB16025C
#6 - 8	1-1/2"	25	HSB16026	HSB16026C
#8 - 10	1-1/2"	25	HSB16027	HSB16027C
#10 - 12	1-1/2"	25	HSB16028	HSB16028C
#12 - 14	1-1/2"	25	HSB16029	HSB16029C

Slotted ACR® Bits - 1/4" Hex Shank

NEW!

#1-2	1"	25	HSB15920	HSB15920C
#2-3	1"	25	HSB15921	HSB15921C
#3-4	1"	25	HSB15922	HSB15922C

Slotted Power Bits - 1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 1 PER CARD
#1 - 2	1-15/16" 3"	25 10	HSB16055 HSB16059	HSB16055C HSB16059C
#2 - 3	1-15/16" 3"	25 10	HSB16056 HSB16060	HSB16056C HSB16060C
#3 - 4	1-15/16" 3"	25 10	HSB16057 HSB16061	HSB16057C HSB16061C
#4 - 6	1-15/16" 3"	25 10	HSB16058 HSB16062	HSB16058C HSB16062C
#6 - 8	1-15/16" 3"	25 10	HSB15864 HSB16063	HSB15864C HSB16063C
#8 - 10	1-15/16" 3"	25 10	HSB15865 HSB15867	HSB15865C HSB15867C
#10 - 12	1-15/16" 1-15/16"	25 25	HSB15866 HSB15871	HSB15866C HSB15871C



Slotted Power Bits with Finder

#6-8	2"	25	HSB15868	HSB15868C
#8-10	2"	25	HSB15869	HSB15869C
#10-12	2"	25	HSB15870	HSB15870C

All assortment displays are on page E10



Pozidriv® Insert Bits - 1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
#1	1"	25	HSB15832	HSB15832C
#2	1"	25	HSB15833	HSB15833C
#3	1"	25	HSB15834	HSB15834C



Pozidriv® Insert Bits - 5/16" Hex Shank

#1	1-1/4"	25	HSB16041	HSB16041C
#2	1-1/4"	25	HSB16042	HSB16042C
#3	1-1/4"	25	HSB16043	HSB16043C



Torx® Insert Bits - 1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
T4	1"	25	HSB16065	HSB16065C
T5	1"	25	HSB16066	HSB16066C
T6	1"	25	HSB15820	HSB15820C
T7	1"	25	HSB15821	HSB15821C
T8	1"	25	HSB15822	HSB15822C
T9	1"	25	HSB15823	HSB15823C
T10	1"	25	HSB15824	HSB15824C
T15	1"	25	HSB15825	HSB15825C
T20	1"	25	HSB15826	HSB15826C
T25	1"	25	HSB15827	HSB15827C
T27	1"	25	HSB15828	HSB15828C
T30	1"	25	HSB15829	HSB15829C
T40	1"	25	HSB15830	HSB15830C
T45	1"	25	HSB15831	HSB15831C

Torx® Insert Bits - 5/16" Hex Shank



Pozidriv® Power Bits - 1/4" Hex Shank

#1	1-15/16"	25	HSB15896	HSB15896C
#2	1-15/16"	25	HSB15897	HSB15897C
#3	1-15/16"	25	HSB15898	HSB15898C



SELECT-A-BIT JAR DISPLAY



- Clear plastic jar allows maximum product exposure in minimum space.

CONTENTS	ITEM	QTY.	STOCK #
T27 x 1" Torx® 1/4" Insert Bits	HSB15828	500	CJ8050
T30 x 1" Torx® 1/4" Insert Bits	HSB15829	500	CJ8051
T27 x 1-15/16" Torx® 1/4" Power Bits	HSB15892	250	CJ8053
T30 x 1-15/16" Torx® 1/4" Power Bits	HSB15893	250	CJ8054

1 jar display per box

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All assortment displays are on page E10



Torx® Power Bits - 1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 1 PER CARD
T10	1-15/16"	25	HSB15888	HSB15888C
	3"	10	HSB16067	HSB16067C
	4"	10	HSB16074	—
	6"	10	HSB16081	—
T15	1-15/16"	25	HSB15889	HSB15889C
	3"	10	HSB16068	HSB16068C
	4"	10	HSB16075	—
	6"	10	HSB16082	—
T20	1-15/16"	25	HSB15890	HSB15890C
	3"	10	HSB16069	HSB16069C
	4"	10	HSB16076	—
	6"	10	HSB16083	—
T25	1-15/16"	25	HSB15891	HSB15891C
	3"	10	HSB16070	HSB16070C
	4"	10	HSB16077	—
	6"	10	HSB16084	—
T27	1-15/16"	25	HSB15892	HSB15892C
	3"	10	HSB16071	HSB16071C
	4"	10	HSB16078	—
	6"	10	HSB16085	—
T30	1-15/16"	25	HSB15893	HSB15893C
	3"	10	HSB16072	HSB16072C
	4"	10	HSB16079	—
	6"	10	HSB16086	—
T40	1-15/16"	25	HSB15894	HSB15894C
	3"	10	HSB16073	HSB16073C
	4"	10	HSB16080	—
	6"	10	HSB16087	—
T45	4"	10	HSB16080A	—



Hex Socket Insert Bits

1/4" Hex Shank

Expanded

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
5/64"	1"	25	HSB15836	HSB15836C
3/32"	1"	25	HSB15837	HSB15837C
7/64"	1"	25	HSB15838	HSB15838C
1/8"	1"	25	HSB15839	HSB15839C
5/32"	1"	25	HSB15840	HSB15840C
3/16"	1"	25	HSB15841	HSB15841C

Hex Socket Insert Bits

5/16" Hex Shank



5/32"	1-1/4"	25	HSB16045	HSB16045C
3/16"	1-1/4"	25	HSB16046	HSB16046C
7/32"	1-1/4"	25	HSB16047	HSB16047C
1/4"	1-1/4"	25	HSB16048	HSB16048C
5/16"	1-1/4"	25	HSB16049	HSB16049C
3/8"	1-1/4"	20	HSB16051	HSB16051C

Hex Socket Insert Bits

1/4" Hex Shank - Metric



2.0	1"	25	HSB16101	HSB16101C
2.5	1"	25	HSB16102	HSB16102C
3.0	1"	25	HSB16103	HSB16103C
4.0	1"	25	HSB16104	HSB16104C
5.0	1"	25	HSB16105	HSB16105C
6.0	1"	25	HSB16106	HSB16106C

Hex Socket Power Bits

1/4" Hex Shank

NEW!



POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
5/64"	1-15/16"	25	HSB16201	HSB16201C
3/32"	1-15/16"	25	HSB16202	HSB16202C
1/8"	1-15/16"	25	HSB16203	HSB16203C
5/32"	1-15/16"	25	HSB16204	HSB16204C
3/16"	1-15/16"	25	HSB16205	HSB16205C
7/32"	1-15/16"	25	HSB16206	HSB16206C
1/4"	1-15/16"	25	HSB16207	HSB16207C
5/16"	1-15/16"	25	HSB16208	HSB16208C
3/8"	1-15/16"	20	HSB16209	HSB16209C



Double End Insert Bits

1/4" Hex Shank, 1-15/16" OAL

POINT SIZE	STOCK #		
	PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
#2 Phillips® #8-10 Slotted	25	HSB15902A	HSB15902AC
#2 Phillips® #10-12 Slotted	25	HSB15903A	HSB15903AC
#2 Phillips® #2 Phillips®	25	HSB15905A	HSB15905AC



Double End Power Bits

1/4" Hex Shank, 1-7/8" OAL

- Innovative double end power bits fit most popular impact drivers.

POINT SIZE	STOCK #		
	PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
+ #2 Phillips® #6-8 Slotted	25	HSB15901	HSB15901C
+ #2 Phillips® #8-10 Slotted	25	HSB15902	HSB15902C
+ #2 Phillips® #10-12 Slotted	25	HSB15903	HSB15903C
+ #2 Phillips® #1 Phillips®	25	HSB15904	HSB15904C
+ #2 Phillips® #2 Phillips®	25	HSB15905	HSB15905C
+ #1 Phillips® #6-8 Slotted	25	HSB15906	HSB15906C
+ #3 Phillips® #10-12 Slotted	25	HSB15907	HSB15907C
+ #2 Phillips® #2 Sq. Recess	25	HSB15908	HSB15908C
■ #2 Sq. Recess ■ #1 Sq. Recess	25	HSB15909	HSB15909C

Double End Power Bits

1/4" Hex Shank, 2-1/2" OAL

+ #2 Phillips® #2 Phillips®	25	HSB15913	HSB15913C
+ #2 Phillips® #2 Sq. Recess	25	HSB15914	HSB15914C
+ #2 Phillips® #8 Slotted	25	HSB15915	HSB15915C
■ #2 Sq. Recess ■ #1 Sq. Recess	25	HSB15916	HSB15916C



Torx® Tamperproof Insert Bits 1/4" Hex Shank - With Pin

Expanded

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
TT5	1"	25	HSB15962	HSB15962C
TT6	1"	25	HSB15963	HSB15963C
TT7	1"	25	HSB15964	HSB15964C
TT8	1"	25	HSB15965	HSB15965C
TT9	1"	25	HSB15966	HSB15966C
TT10	1"	25	HSB15967	HSB15967C
TT15	1"	25	HSB15968	HSB15968C
TT20	1"	25	HSB15969	HSB15969C
TT25	1"	25	HSB15970	HSB15970C
TT27	1"	25	HSB15971	HSB15971C
TT30	1"	25	HSB15972	HSB15972C
TT40	1"	25	HSB15973	HSB15973C

Tri-Wing Tamperproof Insert Bits 1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
#1	1"	25	HSB15985	HSB15985C
#2	1"	25	HSB15986	HSB15986C
#3	1"	25	HSB15987	HSB15987C
#4	1"	25	HSB15988	HSB15988C
#5	1"	25	HSB15989	HSB15989C
#6	1"	25	HSB15989A	HSB15989AC

Spanner Tamperproof Insert Bits

1/4" Hex Shank

Torx® Tamperproof Insert Bits

5/16" Hex Shank - With Pin

NEW!

POINT SIZE	OAL	PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
TT45	1-1/4"	25	HSB16980	HSB16980C
TT50	1-1/4"	25	HSB16981	HSB16981C
TT55	1-1/4"	20	HSB16982	HSB16982C

Phillips® Tamperproof Insert Bits 5/16" Hex Shank - With Pin

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
#2	1"	25	HSB15940	HSB15940C
#3	1"	25	HSB15941	HSB15941C

Spanner Tamperproof Insert Bits

5/16" Hex Shank



Hex Tamperproof Insert Bits

1/4" Hex Shank - With Pin

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
3/32"	1"	25	HSB15975	HSB15975C
1/8"	1"	25	HSB15976	HSB15976C
9/64"	1"	25	HSB15977	HSB15977C
5/32"	1"	25	HSB15978	HSB15978C
3/16"	1"	25	HSB15979	HSB15979C
7/32"	1"	25	HSB15980	HSB15980C
1/4"	1"	25	HSB15981	HSB15981C
5/16"	1"	25	HSB15982	HSB15982C

- Tri-Wing®, Pozidriv®, ACR®, Phillips Square-Driv® and Phillips® are registered trademarks of the Phillips Screw Company.
- Torx® is a registered trademark of Acument® Global Technologies.

Torsion-buffer Grooved Bits

A-2 Steel Anti-Rust Coating

Features:

- Dual inward grooves on shaft reduces the level of impact from sudden locking.
- Reduces stripping, increases bit life.
- 1/4" hex power shank fits most chucks and adapters.
- Special A-2 steel, heat-treated for higher tensile strength.
- Up to 60% more durable than similar products.



Phillips® Grooved Bits
1/4" Hex Shank

NEW!

POINT SIZE	OAL	PACK QTY.	STOCK #
			BULK
#1	1-3/16"	10	HSB17002
#1	1-15/16"		HSB17003
#2	1-3/16"	10	HSB17004
#2	1-15/16"		HSB17005
#3	1-3/16"	10	HSB17006
#3	1-15/16"		HSB17007



Square Recess Grooved Bits
1/4" Hex Shank

NEW!

POINT SIZE	OAL	PACK QTY.	STOCK #
			BULK
#1	1-3/16"	10	HSB17015
#1	1-15/16"		HSB17016
#2	1-3/16"	10	HSB17017
#2	1-15/16"		HSB17018
#3	1-3/16"	10	HSB17019
#3	1-15/16"		HSB17020

Cookie Jar Merchandiser

Features:

- Point-of-purchase counter display with attractive graphics.
- Display includes bit rack and an assortment of 6 jars of screwdriver bits, nutsetters and bit holders.
- Racks have pegnable hooks.
- Jars have labels.
- Dimensions: 13" h x 10.5" w x 6" d.



Labeled on back of jar

Assortment 1

DESCRIPTION	ITEM	QTY	INDIVIDUAL JAR STOCK #	DISPLAY STOCK #
#2 x 1" Phillips®	HSB15803	500	CJ8004	CJM1
#2 x 2" Phillips®	HSB15846	250	CJ8022	
3" Magnetic Bit Holder	HSB66697	60	CJ8040	
1/4" Nutsetter	HSN15934	50	CJ8042	
5/16" Nutsetter	HSN15935	50	CJ8044	
#2 Phillips® Screwstopper	DSP271	200	DSPJ271	

Assortment 2

DESCRIPTION	ITEM	QTY	INDIVIDUAL JAR STOCK #	DISPLAY STOCK #
#2R x 1" Phillips® Reduced	HSB15805	500	CJ8008	CJM2
#2 x 1" Phillips® ACR®	HSB26111	500	CJ8031	
#2 x 1" Square Recess	HSB15816	500	CJ8005	
PSD2-2 x 1" Phillips®-Sq. Driv® with ACR®	HSB16091	500	CJ8060	
P2-R2-1 x 1" P2-R2 Combo 2-in-1 Bit	HSB16095	500	CJ8061	
T30 x 1" Torx®	HSB15829	500	CJ8051	

Assortment 3

DESCRIPTION	ITEM	QTY	INDIVIDUAL JAR STOCK #	DISPLAY STOCK #
#2 x 2" Phillips®	HSB15846	250	CJ8022	CJM3
#2 x 2" Square Recess	HSB15873	250	CJ8024	
PSD2-2 x 2" Phillips®-Sq. Driv® with ACR®	HSB16092	250	CJ8066	
P2-R2-1 x 1" P2-R2 Combo 2-in-1 Bit	HSB16095	250	CJ8061	
T27 x 2" Torx®	HSB15892	250	CJ8053	
T30 x 2" Torx®	HSB15893	250	CJ8054	

MAGNETIC BIT HOLDERS

Features:

- Magnet retains bit in place for worry-free use.
- 1/4" hex shanks are designed for use in power tools with quick change chucks and adapters.
- Provides added stability when used in standard drill chucks.



STAINLESS STEEL

Expanded

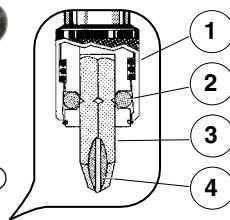
LENGTH	DESCRIPTION	PACK QTY.	STOCK #	
			BULK	CARDED 1 PER CARD
1/4" DRIVE FOR 1/4" INSERT BITS				
2-5/8"	Standard Duty	10	HSB66695	HSB66695C
3"	Heavy Duty	10	HSB66696	HSB66696C
3"	Extra Heavy Duty with Retaining Ring	10	HSB66697	HSB66697C
4"	Extra Heavy Duty with Retaining Ring	10	HSB66697A	—
6"	Extra Heavy Duty with Retaining Ring	10	HSB66698	—
1/4" DRIVE FOR 5/16" INSERT BITS				
3-1/2"	Heavy Duty	10	HSB66700	HSB66700C
5/16" DRIVE FOR 5/16" INSERT BITS				
2-1/2"	Extra Heavy Duty with Retaining Ring	10	HSB66701	HSB66701C
3-1/16"	Extra Heavy Duty with Retaining Ring	10	HSB66702	HSB66702C

QUICK LOCK BIT HOLDER/DRIVER

With a Positive Shake-Proof Lock



HSB16012



By actuating the Sleeve ①, the ball ② releases the insert ③. Balls snugly nestle into insert grooves ④ providing shakeproof lock.



HSB16014

Features:

- The Quick-Lock system, developed in Germany, enables fast, easy handling of screwdriver inserts with a positive shakeproof lock.
- The Quick-Lock system is available either as a bit holder or an ergonomic grip driver for direct manual use.
- Uses any 1/4" Hex insert bit.

TYPE	LENGTH	PACK QTY.	STOCK #	
			BULK	CARDED 1 PER CARD
Bit Holder	2-5/16"	12	HSB16012	HSB16012C
Screwdriver	9"	12	HSB16014	HSB16014C

FLEXIBLE BIT HOLDER


Features:

- Flexible Extensions have heavy duty spiral ring construction that retain flexibility for a longer tool life.

7-1/2" long for 1/4" Hex Inserts
1 per pack Stock # HSB16050

SPECIALTY MAGNETIC BIT HOLDERS

NEW!

LENGTH	DESCRIPTION	MATERIAL	PACK QTY.	STOCK #
1/4" DRIVE FOR 1/4" INSERT BITS				
2"	Driver with Screw Cap & Retaining Ring	Zinc Plated Stainless Steel	1	BH1020
3"			1	BH1030
3"	Driver with Brass Sleeve Guide	Aluminum Holder with Brass Tube	1	BH1230
5"			1	BH1250
1-3/4"	Bit Chuck with Quick Release and Lock	Special Tool Steel	1	BH1000
3"	Adjustable Bit Stopper		1	BS1030



Monolock®
QUICK CHANGE SYSTEM

1/4" hex shanks are designed for use in power tools with quick change chucks and adapters.


**POWER
SHANK
TYPE**
1/4" HEX SHANK
INCH SIZES
Expanded

HEAD SIZE x OAL	STOCK #		
	PACK QTY.	BULK	CARDED 1 PER CARD
MAGNETIC INSERT TYPE			
1/4" x 1-1/16"	10	HSN15911	HSN15911C
5/16" x 1-1/16"	10	HSN15912	HSN15912C
3/8" x 1-1/16"	10	HSN15913	HSN15913C
MAGNETIC POWER SHANK TYPE			
1/4" x 1-3/4"	10	HSN15930	HSN15930C
5/16" x 1-3/4"	10	HSN15931	HSN15931C
3/8" x 1-3/4"	10	HSN15932	HSN15932C
7/16" x 1-3/4"	10	HSN15933	HSN15933C
1/2" x 1-3/4"	10	HSN15933A	HSN15933AC
1/4" x 2-9/16"	10	HSN15934	HSN15934C
5/16" x 2-9/16"	10	HSN15935	HSN15935C
3/8" x 2-9/16"	10	HSN15936	HSN15936C
7/16" x 2-9/16"	10	HSN15937	HSN15937C
1/2" x 2-9/16"	10	HSN15937A	HSN15937AC
1/4" x 4"	10	HSN15938	HSN15938C
5/16" x 4"	10	HSN15939	HSN15939C
3/8" x 4"	10	HSN15940	HSN15940C
7/16" x 4"	10	HSN15941	HSN15941C
1/2" x 4"	10	HSN15942	HSN15942C
1/4" x 6"	10	HSN15943	HSN15943C
5/16" x 6"	10	HSN15944	HSN15944C
3/8" x 6"	10	HSN15945	HSN15945C
7/16" x 6"	10	HSN15946	HSN15946C
1/2" x 6"	10	HSN15947	HSN15947C
NON-MAGNETIC POWER SHANK TYPE			
3/16" x 1-3/8"	10	HSN15920	HSN15920C
1/4" x 1-1/2"	10	HSN15921	HSN15921C
5/16" x 1-1/2"	10	HSN15923	HSN15923C
3/8" x 1-1/2"	10	HSN15925	HSN15925C
7/16" x 1-1/2"	10	HSN15926	HSN15926C
1/4" x 2-9/16"	10	HSN15927	HSN15927C
5/16" x 2-9/16"	10	HSN15928	HSN15928C
3/8" x 2-9/16"	10	HSN15929	HSN15929C


**INSERT
TYPE**
1/4" HEX SHANK
METRIC SIZES

HEAD SIZE x OAL	STOCK #		
	PACK QTY.	BULK	CARDED 1 PER CARD
MAGNETIC INSERT TYPE			
6MM x 1-1/8"	10	HSN15950	HSN15950C
7MM x 1-1/8"	10	HSN15951	HSN15951C
8MM x 1-1/8"	10	HSN15952	HSN15952C
10MM x 1-1/8"	10	HSN15953	HSN15953C
MAGNETIC POWER SHANK TYPE			
6MM x 1-3/4"	10	HSN15956	HSN15956C
7MM x 1-3/4"	10	HSN15957	HSN15957C
8MM x 1-3/4"	10	HSN15958	HSN15958C
10MM x 1-3/4"	10	HSN15959	HSN15959C
6MM x 2-9/16"	10	HSN15961	HSN15961C
7MM x 2-9/16"	10	HSN15962	HSN15962C
8MM x 2-9/16"	10	HSN15963	HSN15963C
10MM x 2-9/16"	10	HSN15964	HSN15964C


7 PC. NUT SETTER SETS

CR-VA sandblast finish in folding wallet


HSN666W2

HSN666W3

**SELECT-A-BIT
JAR DISPLAY**

- Clear plastic jar allows maximum product exposure in minimum space.

CONTENTS	ITEM	QTY.	STOCK #
BIT HOLDERS MAGNETIC			
3" Bit Holder with Retaining Ring	HSB66697	50	CJ8040
NUT SETTERS MAGNETIC POWER SHANK			
1/4" x 2-9/16" Nut Setters	HSN15934	50	CJ8042
5/16" x 2-9/16" Nut Setters	HSN15935	50	CJ8044
3/8" x 2-9/16" Nut Setters	HSN15936	50	CJ8046

1 jar display per box

All assortment displays are on page E10

DESCRIPTION	OAL	STOCK #
Contains one each: 3/16", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16"	1-3/4"	HSN666W2
Contains one each: 3/16", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16"	2-9/16"	HSN666W3

NON-MAGNETIC POWER SHANK TYPE

Contains one each: 3/16", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16"	1-3/4"	HSN66698W
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1 per pack / 12 per case


HSN66698W

Hex Socket Extensions

Square Drive Impact Sockets

PIN / BALL ON MALE SQUARE



PIN TYPE



BALL TYPE

Expanded

HEX SHANK	OAL	LOCK TYPE	PACK QTY.	STOCK #
1/4" SHANK TO FIT 1/4" SQUARE DRIVE				
1/4"	1" 1-3/8"	BALL BALL	10	SE050 SE051
1/4"	2" 2"	PIN BALL	10	SE052 SE053
1/4"	3" 3"	PIN BALL	10	SE054 SE055
1/4"	4" 4"	PIN BALL	10	SE056 SE057
1/4"	6" 6"	PIN BALL	10	SE058 SE059
1/4"	8" 8"	PIN BALL	10	SE058A SE059A
1/4" SHANK TO FIT 3/8" SQUARE DRIVE				
1/4"	1-3/8" 1-3/8"	PIN BALL	10	SE060 SE061
1/4"	2" 2"	PIN BALL	10	SE062 SE063
1/4"	3" 3"	PIN BALL	10	SE064 SE065
1/4"	4" 4"	PIN BALL	10	SE064A SE065A
1/4"	6" 6"	PIN BALL	10	SE064B SE065B
1/4"	8" 8"	PIN BALL	10	SE064C SE065C
1/4" SHANK TO FIT 1/2" SQUARE DRIVE				
1/4"	2" 3"	BALL BALL	10	SE066 SE067
1/4"	4" 5"	BALL BALL	10	SE068 SE069
1/4"	6" 8"	BALL BALL	10	SE075 SE080



SOCKET SIZE	OAL A	BODY DIA. B	NOSE DIA. C	PACK QTY.	STOCK #
MAGNETIC 1/4" SQUARE DRIVE					
3/16"	15/16"	1/2"	3/8"	10	SDS018
1/4"	15/16"	1/2"	7/16"	10	SDS020
5/16"	15/16"	1/2"	1/2"	10	SDS022
3/8"	1"	5/8"	9/16"	10	SDS024
7/16"	1"	11/16"	5/8"	10	SDS026
1/2"	1"	3/4"	3/4"	10	SDS028
MAGNETIC 3/8" SQUARE DRIVE					
1/4"	1-1/4"	3/4"	7/16"	10	SDS030
5/16"	1-1/4"	3/4"	1/2"	10	SDS032
3/8"	1-1/4"	3/4"	9/16"	10	SDS034
7/16"	1-1/4"	3/4"	5/8"	10	SDS036
1/2"	1-1/2"	15/16"	3/4"	10	SDS038
MAGNETIC 1/2" SQUARE DRIVE					
1/4"	1-1/2"	15/16"	7/16"	10	SDS040
5/16"	1-1/2"	15/16"	1/2"	10	SDS042
3/8"	1-1/2"	15/16"	9/16"	10	SDS044
7/16"	1-1/2"	15/16"	5/8"	10	SDS046
1/2"	1-1/2"	15/16"	3/4"	10	SDS048
METRIC – NON MAGNETIC 1/4" SQUARE DRIVE					
4mm	1"	15/32"	5/16"	10	SDS060
5mm	1"	15/32"	5/16"	10	SDS062
6mm	1"	15/32"	25/64"	10	SDS064

Square Drive Bit Holders

Features:

- Suitable for adapting square drive power tools to a variety of insert bits.

SQUARE DRIVE

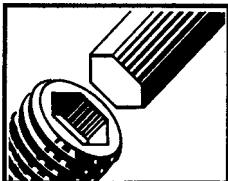


SQ. DRIVE SIZE	INSERT BIT HEX SIZE	OVERALL LENGTH	PACK QTY.	STOCK #
1/4"	1/4"	1"	10	SDS050
3/8"	1/4"	1-1/2"	10	SDS052
3/8"	5/16"	1-1/2"	10	SDS054
1/2"	1/4"	1-3/4"	10	SDS056
1/2"	5/16"	1-3/4"	10	SDS058

All assortment displays are on page E10

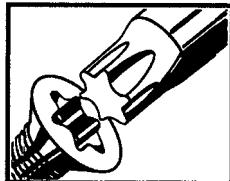
L-Keys • L-Key Sets

MADE IN
U. S. A.



Features:

- Extra torque 8950 chrome nickel alloy.
- Heat treated for maximum strength.
- Finished to resist rust.



HEX-L KEYS, LONG SERIES BOTH END

TIP SIZE	DIMENSIONS		STOCK #
	LONG ARM	SHORT ARM	
1/16"	3.00"	0.56"	HK15204
5/64"	3.19"	0.61"	HK15205
3/32"	3.38"	0.66"	HK15206
7/64"	3.56"	0.70"	HK15207
1/8"	3.75"	0.75"	HK15208
9/64"	3.94"	0.80"	HK15209
5/32"	4.12"	0.84"	HK15210
3/16"	4.50"	0.94"	HK15212
7/32"	4.88"	1.03"	HK15214
1/4"	5.25"	1.12"	HK15216
5/16"	6.00"	1.25"	HK15220
3/8"	6.75"	1.38"	HK15224
7/16"	7.50"	1.50"	HK15228
1/2"	8.25"	1.63"	HK15232
9/16"	9"	1.75"	HK15236
5/8"	9.75"	1.88"	HK15240
3/4"	11.25"	2.13"	HK15248

25 per pack

TAMPER PROOF HEX-L KEYS, LONG SERIES BOTH END

TIP SIZE	DIMENSIONS		STOCK #
	LONG ARM	SHORT ARM	
3/32"	5.25"	1.00"	*HK90206
1/8"	5.25"	1.00"	*HK90208
5/32"	5.25"	1.20"	*HK90210
3/16"	5.25"	1.20"	*HK90212
7/32"	5.25"	1.20"	*HK90214
1/4"	5.25"	1.38"	*HK90216
5/16"	5.25"	1.38"	*HK90220
3/8"	5.25"	1.38"	*HK90224

25 per pack

*Note: New stock numbers

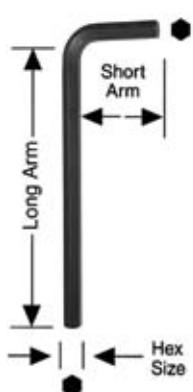


30 Pc. INCH and METRIC HEX-L KEY SET

Cr-V Steel with Black Finish • In plastic index case

TYPE	SIZES	STOCK #
30 Pc.	LONG ARM, INCH SIZES .028, .035, .050, 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8" SHORT ARM, METRIC SIZES 0.7MM, 0.9, 1.3, 1.5, 2.0, 2.5, 3.0, 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 8.0, 10.0	HK10530

1 per pack



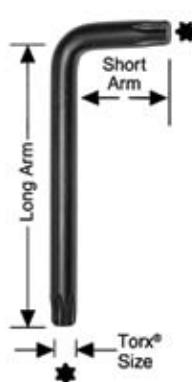
TORX®-L KEYS, SHORT SERIES BOTH END

TIP SIZE	DIMENSIONS		STOCK #
	LONG ARM	SHORT ARM	
T6	1.59"	0.46"	HK15251
T7	1.64"	0.51"	HK15252
T8	1.74"	0.56"	HK15253
T9	1.88"	0.61"	HK15254
T10	2.00"	0.66"	HK15255
T15	2.13"	0.71"	HK15256
T20	2.25"	0.75"	HK15257
T25	2.38"	0.80"	HK15258
T27	2.00"	0.66"	HK15259
T30	2.13"	0.71"	HK15260
T40	2.25"	0.75"	HK15261
T45	2.25"	0.75"	HK15262
T50	2.25"	0.75"	HK15263

25 per pack

TORX®-L KEYS, LONG SERIES BOTH END

NEW!



TIP SIZE	DIMENSIONS		STOCK #
	LONG ARM	SHORT ARM	
T6	2.77"	0.46"	HK15271
T7	2.82"	0.51"	HK15272
T8	2.99"	0.56"	HK15273
T9	3.19"	0.61"	HK15274
T10	3.38"	0.66"	HK15275
T15	3.57"	0.71"	HK15276
T20	3.75"	0.75"	HK15277
T25	3.94"	0.80"	HK15278
T27	4.13"	0.85"	HK15279
T30	4.50"	0.94"	HK15280
T40	4.88"	1.03"	HK15281
T45	5.25"	1.13"	HK15282
T50	6.00"	1.25"	HK15283

25 per pack

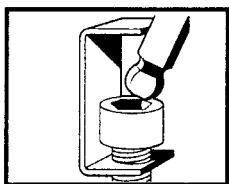
TAMPER PROOF TORX®-L KEYS, LONG SERIES BOTH END

TIP SIZE	DIMENSIONS		STOCK #
	LONG ARM	SHORT ARM	
TT8	2.99"	0.56"	HK15990
TT9	3.19"	0.61"	HK15991
TT10	3.38"	0.66"	HK15992
TT15	3.57"	0.71"	HK15993
TT20	3.75"	0.75"	HK15994
TT25	3.94"	0.80"	HK15995
TT27	4.13"	0.85"	HK15995A
TT30	4.50"	0.94"	HK15996

25 per pack

Hex Keys • Hex Key Sets

MADE IN
U. S. A.



Features:

- Extra torque 8950 chrome nickel alloy.
- Heat treated for maximum strength.
- Finished to resist rust.



BALL HEX-L KEYS, LONG SERIES



TIP SIZE	DIMENSIONS		STOCK #
	LONG ARM	SHORT ARM	
.050	2.84"	0.53"	HK18203
1/16"	3.00"	0.56"	HK18204
5/64"	3.19"	0.61"	HK18205
3/32"	3.38"	0.66"	HK18206
7/64"	3.56"	0.70"	HK18207
1/8"	3.75"	0.75"	HK18208
9/64"	3.94"	0.80"	HK18209
5/32"	4.12"	0.84"	HK18210
3/16"	4.50"	0.94"	HK18212
7/32"	4.88"	1.03"	HK18214
1/4"	5.25"	1.12"	HK18216
5/16"	6.00"	1.25"	HK18220
3/8"	6.75"	1.38"	HK18224

25 per pack



HEX-L KEY SETS

TYPE	SIZES	STOCK #
13 Pcs. HEX	LONG ARM INCH SET .050, 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	HK10213

1 per pack



BALL HEX-L KEY SETS

Turns 360° at up to 25° angle



TYPE	SIZES	STOCK #
13 Pcs. HEX	LONG ARM INCH SET .050, 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	HK13213
9 Pcs. HEX	LONG ARM METRIC SET MM 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	HK13609

1 per pack



6" and 9" ARM HEX-T KEYS Standard grip

SIZE	STOCK #	
	6" ARM	9" ARM
3/32"	HK31606	HK31906
7/64"	HK31607	HK31907
1/8"	HK31608	HK31908
9/64"	HK31609	HK31909
5/32"	HK31610	HK31910
3/16"	HK31612	HK31912
7/32"	HK31614	HK31914
1/4"	HK31616	HK31916
5/16"	HK31620	HK31920
3/8"	HK31624	HK31924

25 per pack



Hex Keys & Sets

E

HEX-T KEY SETS

With stand

TYPE	SIZES	STOCK #
10 Pcs. HEX	6" ARM INCH SET CUSHION GRIP 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	HK50160
8 Pcs. HEX	6" ARM METRIC SET CUSHION GRIP MM 2, 2.5, 3, 4, 5, 6, 8, 10	HK56168

1 per pack



CREATE YOUR OWN CUSTOM IMPRINT

MADE IN
U. S. A.

- Features:**
- In the 6-IN-ONE assembly, bits reverse in a hex tube. One end is a 5/16" hex nut setter; the other end is a 1/4" hex nut setter. All bits are reversible to create different screwdrivers in one handle. Bits reverse in tube. Tube reverses in handle. Two double bits in each end of tube create four different screwdrivers in one handle.
 - Industrial quality tool steel bits are heat treated, tempered and stress relieved.
 - Heavy duty, extended six flute handle provides a stronger grip with less effort.
 - Handles come in five vibrant colors – RED, BLUE, BLACK, GREEN and ORANGE. Select one color or order a mix – 12 pcs. per color minimum.
 - A great promotional item for any occasion. Put your company name, phone number or other promotional message in bright gold letters.



Create Your Own Custom Imprint

Create Your Own Custom imprinting is available for the Custom Imprint 4-IN-ONE and the 6-IN-ONE screwdrivers.



Custom imprinting guidelines

Maximum of 18 characters per line – including spaces and punctuation, with a 3-line limit.

48 piece minimum – must be same imprint for each piece.



Custom imprinting charges

One time die charge on orders of less than 72 pieces.

Nominal imprinting charge per line.



Packaging

All screwdrivers are packed in counter display (12 units per display).

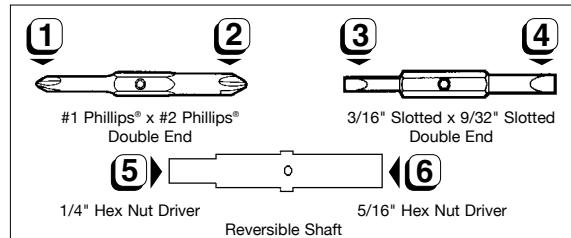


CREATE YOUR OWN CUSTOM IMPRINT

THE PROFESSIONAL

6-IN-ONE

SCREWDRIVER



1/4" HEX REPLACEMENT BITS

DESCRIPTION	STOCK #				
	RED	BLUE	BLACK	GREEN	ORANGE
#1 Phillips® x #2 Phillips® 3/16" Slotted x 9/32" Slotted	SCD61	SCD61B	SCD61BL	SCD61G	SCD61O
#1 Phillips® x #2 Phillips® #1 Sq. Recess x #2 Sq. Recess	SCD62	SCD62B	SCD62BL	SCD62G	SCD62O
T15 Torx® x T20 Torx® T25 Torx® x T30 Torx®	SCD63	SCD63B	SCD63BL	SCD63G	SCD63O

12 per countertop display

DESCRIPTION	STOCK #	
	BULK	CARDED
#1 Phillips® x #2 Phillips®	SRB61	SRB61C
T25 Torx® x T30 Torx®	SRB62	SRB62C

Bulk 25 per pack Carded 1 per card



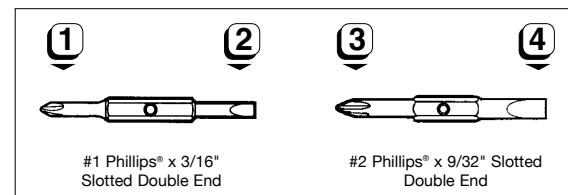
THE CLASSIC

4-IN-ONE

SCREWDRIVER

DESCRIPTION	STOCK #	
	BULK	CARDED
#1 Phillips® x 3/16" Slotted		
#2 Phillips® x 9/32" Slotted		
Red	SCD41R	SCD41RC
Black	SCD42BK	SCD42BKC
Blue	SCD43B	SCD43BC
Green	SCD44G	SCD44GC
Orange	SCD45O	SCD45OC
T15 Torx® x T20 Torx®		
T25 Torx® x T30 Torx®		
Red	SCD47R	—
Black	SCD48BK	—
#1 Phillips® x #2 Phillips®		
#1 Square Recess x #2 Square Recess		
Red	SCD49R	—
Black	SCD50BK	—

12 per countertop display



5/16" HEX REPLACEMENT BITS

DESCRIPTION	STOCK #	
	BULK	CARDED
#1 Phillips® x 3/16" Slotted	SRB41	SRB41C
#2 Phillips® x 9/32" Slotted	SRB42	SRB42C
T15 Torx® x T20 Torx®	SRB43	SRB43C
T25 Torx® x T30 Torx®	SRB44	SRB44C
3/16" Slotted x 9/32" Slotted	SRB45	SRB45C
#1 Phillips® x #2 Phillips®	SRB46	SRB46C
#1 Sq. Recess x #2 Sq. Recess	SRB47	SRB47C

Bulk 25 per pack Carded 1 per card

Quick Change Screwdrivers

E

Create Your Own Custom Imprint



ScrewTech® Quick Change Ergonomic Screwdrivers

THE PROFESSIONAL

4-IN-ONE

SCREWDRIVER

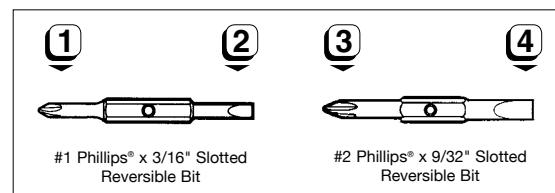
NEW!

DESCRIPTION	STOCK #
4-in-ONE Comfort Grip Screwdriver	SCD4ER
4-in-ONE Screwdriver Display Contains 8 Comfort Grip Screwdrivers per countertop / display carton	SCD4ERD

8 per countertop display



- Features:**
- Ergonomic grip minimizes slippage and muscle fatigue and maximizes torque.
 - Industrial quality steel bits reverse in tube to create four different screwdrivers in one handle.



SCD4ERD

E-17

SCREWDRIVERS CONFORM TO
ASME B107.31M – 1997 SPECIFICATIONS

MADE IN
U. S. A.

Features:

- Crystal ergonomic gold grip handles, shock and impact resistant.
- Chrome Vanadium Tool Steel blade, sand blasted, plated, heat treated for durability.
- Precision tips, black oxide finish for perfect fit.
- Comfortable thumb rest.
- Fluted, tapered, large crystal GOLD GRIP for utmost comfort and maximum torque.

Black Oxide
Precision Tip



Screwdrivers are available
with plastic hangers.

⊕ PHILLIPS®

TIP SIZE	BLADE SIZE	BLADE LENGTH	OAL	STOCK #	
				BULK	W/HANGER
#1	3/16"	3"	6-1/8"	SCD201	SCD201H
#1	3/16"	6"	9-1/8"	SCD202	SCD202H
#2	1/4"	4"	7-1/2"	SCD203	SCD203H
#2	1/4"	6"	9-1/2"	SCD204	SCD204H
#3	5/16"	6"	10"	SCD205	SCD205H
#4	3/8"	8"	12-5/16"	SCD206	SCD206H

⊕ STUBBY PHILLIPS®

#2	1/4"	1-1/2"	3-1/4"	SCD210	SCD210H
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⊕ ACR® PHILLIPS®

#1	1/4"	3-1/2"	7"	SCD112	SCD112H
#2	1/4"	4"	7-1/2"	SCD113	SCD113H
#3	5/16"	6"	10"	SCD114	SCD114H

⊕ PHILLIPS® TAMPER PROOF

#2	1/4"	6"	9-1/2"	SCD116	SCD116H
#3	5/16"	6"	10"	SCD118	SCD118H

12 per pack

⊖ SLOTTED

TIP SIZE	BLADE SIZE	BLADE LENGTH	OAL	STOCK #	
				BULK	W/HANGER
3/16"	3/16"	3"	6-1/8"	SCD120	SCD120H
1/4"	1/4"	4"	7-1/2"	SCD121	SCD121H
1/4"	1/4"	6"	9-1/2"	SCD122	SCD122H
5/16"	5/16"	6"	10"	SCD123	SCD123H
3/8"	3/8"	6"	10"	SCD123A	SCD123AH
3/8"	3/8"	8"	12-3/8"	SCD124	SCD124H
3/8"	3/8"	10"	14-3/8"	SCD125	SCD125H

⊖ STUBBY SLOTTED

1/4"	1/4"	1-1/2"	3-1/4"	SCD127	SCD127H
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12 per pack

□ SQUARE RECESS

TIP SIZE	BLADE SIZE	BLADE LENGTH	OAL	STOCK #	
				BULK	W/HANGER
#1	1/4"	6"	9-1/2"	SCD130	SCD130H
#2	1/4"	6"	9-1/2"	SCD131	SCD131H
#3	5/16"	6"	9-1/2"	SCD132	SCD132H
#1	1/4"	8"	11-1/2"	SCD133	SCD133H
#2	1/4"	8"	11-1/2"	SCD134	SCD134H
#3	5/16"	8"	12"	SCD135	SCD135H

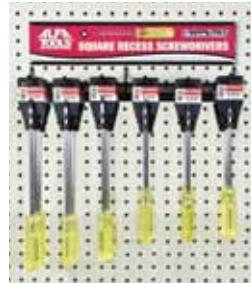
12 per pack



18 PC. SLOTTED DISPLAY
STOCK # SCDSL18

Contains 3 each

3/16" x 6-1/8"	SCD120H
1/4" x 7-1/2"	SCD121H
1/4" x 9-1/2"	SCD122H
5/16" x 10"	SCD123H
3/8" x 12-3/8"	SCD124H
3/8" x 14-3/8"	SCD125H



18 PC. SQUARE RECESS DISPLAY
STOCK # SCDSQ18

Contains 3 each

#1 x 9-1/2"	SCD130H
#2 x 9-1/2"	SCD131H
#3 x 9-1/2"	SCD132H
#1 x 11-1/2"	SCD133H
#2 x 11-1/2"	SCD134H
#3 x 12"	SCD135H

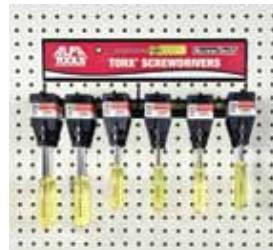
SCREWDRIVERS CONFORM TO
ASME B107.31M – 1997 SPECIFICATIONS

MADE IN
U. S. A.



TORX®

TIP SIZE	BLADE SIZE	BLADE LENGTH	OAL	STOCK #	
				BULK	W/HANGER
T10	3/16"	3"	6-1/8"	SCD142	SCD142H
T15	3/16"	3"	6-1/8"	SCD143	SCD143H
T20	3/16"	3"	6-1/8"	SCD144	SCD144H
T25	3/16"	3"	6-1/8"	SCD145	SCD145H
T27	1/4"	4"	7-1/2"	SCD146	SCD146H
T30	1/4"	4"	7-1/2"	SCD147	SCD147H



Available in popular sizes
and tips as listed.
Special tips and lengths
available on request.

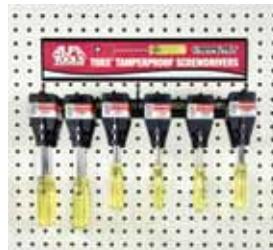
**18 PC. TORX® DISPLAY
STOCK # SCDTX18**

Contains 3 each
T10 x 6-1/8" SCD142H
T15 x 6-1/8" SCD143H
T20 x 6-1/8" SCD144H
T25 x 6-1/8" SCD145H
T27 x 7-1/2" SCD146H
T30 x 7-1/2" SCD147H

12 per pack

TORX® TAMPERPROOF

TIP SIZE	BLADE SIZE	BLADE LENGTH	OAL	STOCK #	
				BULK	W/HANGER
TT10	3/16"	3"	6-1/8"	SCD160	SCD160H
TT15	3/16"	3"	6-1/8"	SCD161	SCD161H
TT20	3/16"	3"	6-1/8"	SCD162	SCD162H
TT25	3/16"	3"	6-1/8"	SCD163	SCD163H
TT27	1/4"	4"	7-1/2"	SCD164	SCD164H
TT30	1/4"	4"	7-1/2"	SCD165	SCD165H



**18 PC. TORX® TAMPERPROOF
DISPLAY – STOCK # SCDTX18T**

Contains 3 each
T10 x 6-1/8" SCD160H
T15 x 6-1/8" SCD161H
T20 x 6-1/8" SCD162H
T25 x 6-1/8" SCD163H
T27 x 7-1/2" SCD164H
T30 x 7-1/2" SCD165H

12 per pack

POZIDRIV®

TIP SIZE	BLADE SIZE	BLADE LENGTH	OAL	STOCK #	
				BULK	W/HANGER
#1	3/16"	3"	6-1/2"	SCD170	SCD170H
#2	1/4"	3"	6-1/2"	SCD171	SCD171H
#3	1/4"	3"	6-1/2"	SCD172	SCD172H
#1	1/4"	4"	8"	SCD173	SCD173H
#2	1/4"	4"	8"	SCD174	SCD174H
#3	1/4"	4"	8"	SCD175	SCD175H



**18 PC. AC® PHILLIPS® & POZIDRIV®
DISPLAY – STOCK # SCDPP18**

Contains 3 each
ACR® Phillips®
#1 x 7" SCD112H
#2 x 7-1/2" SCD113H
#3 x 10" SCD114H
Pozidriv®
#1 x 8" SCD173H
#2 x 8" SCD174H
#3 x 8" SCD175H

12 per pack

SPANNER

TIP SIZE	BLADE SIZE	BLADE LENGTH	OAL	STOCK #	
				BULK	W/HANGER
#4	1/4"	3"	6-5/8"	SCD150	SCD150H
#6	1/4"	4"	8"	SCD151	SCD151H
#8	1/4"	4"	8"	SCD152	SCD152H
#10	1/4"	4"	8"	SCD153	SCD153H
#12	1/4"	4"	8"	SCD154	SCD154H
#14	1/4"	4"	8"	SCD155	SCD155H



**18 PC. SPANNER DISPLAY
STOCK # SCDSP18**

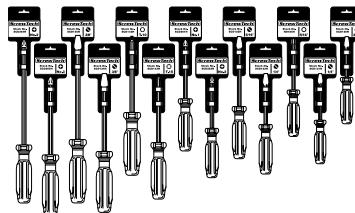
Contains 3 each
#4 x 6-5/8" SCD150H
#6 x 8" SCD151H
#8 x 8" SCD152H
#10 x 8" SCD153H
#12 x 8" SCD154H
#14 x 8" SCD155H

12 per pack

Each display includes
wire rack and header card

All ScrewTech® screwdrivers are available
with plastic hangers for peg hook display.

Plastic hangers show product size,
style and stock number.



PROFESSIONAL HOLLOW SHAFT NUT DRIVERS

CR-VA steel • Chrome plated • Heat treated

MADE IN
U. S. A.

Features:

- Precision made, one piece shaft eliminates tip breakage — assures positive fit and extra long life.
- Hollow shaft accommodates longer bolts and studs.
- Chrome plated to retard rust.
- Large ergonomic handle assures maximum comfort.

INCH SIZES

NUT SIZE	OAL	SHAFT LENGTH	STOCK #	
			BULK	WITH HANGER
3/16"	6-1/2"	3"	ND180	ND180H
1/4"	6-1/2"	3"	ND182	ND182H
5/16"	6-1/2"	3"	ND185	ND185H
11/32"	6-1/2"	3"	ND187	ND187H
3/8"	6-1/2"	3"	ND189	ND189H
7/16"	7-1/4"	3"	ND191	ND191H
1/2"	7-1/4"	3"	ND193	ND193H
7 Pcs. Set in Pouch Contains one each: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"		ND195		

12 per pack



18 PC. NUT DRIVER DISPLAY STOCK # ND32

Contains 3 each

3/16" x 6-1/2"	ND180H
1/4" x 6-1/2"	ND182H
5/16" x 6-1/2"	ND185H
3/8" x 6-1/2"	ND189H
7/16" x 7-1/4"	ND191H
1/2" x 7-1/4"	ND193H

Screwdrivers are available with plastic hangers.

METRIC SIZES

NUT SIZE MM	OAL	SHAFT LENGTH	STOCK #	
			BULK	WITH HANGER
5.5	8-1/2"	5"	ND160	ND160H
6.0	8-1/2"	5"	ND161	ND161H
7.0	9-1/2"	5"	ND162	ND162H
8.0	9-1/2"	5"	ND163	ND163H
9.0	9-1/2"	5"	ND164	ND164H
10.0	9-1/2"	5"	ND165	ND165H
11.0	9-3/4"	5"	ND166	ND166H
13.0	9-3/4"	5"	ND167	ND167H

12 per pack



24 PC. NUT DRIVER DISPLAY METRIC – STOCK # ND32M

Contains 3 each

5.5mm x 8-1/2"	ND160H
6.0mm x 8-1/2"	ND161H
7.0mm x 9-1/2"	ND162H
8.0mm x 9-1/2"	ND163H
9.0mm x 9-1/2"	ND164H
10.0mm x 9-1/2"	ND165H
11.0mm x 9-3/4"	ND166H
13.0mm x 9-3/4"	ND167H

ScrewTech® Wing Nut Drivers

Features:

- Specially designed for use on wing nuts.
- Extremely handy for use in coastal areas for fastening safety windows and barriers during the rough hurricane / tornado season.
- Custom imprinting available.



ScrewTech USA

NEW!



DESCRIPTION	PACK QTY.	STOCK #
7" OAL Wing Nut Driver with translucent grip	1	ND701
3" OAL Power Driver	1	ND703

TACK PULLER



CLAW	1/4"	4"	7-1/4"	SCD180	SCD180H
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12 per pack

AWL POINT

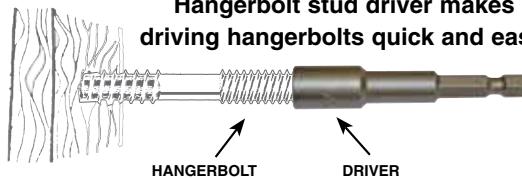


AWL PT.	1/4"	3"	6-1/2"	SCD184	SCD184H
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12 per pack

HANGERBOLT DRIVER

Hangerbolt stud driver makes driving hangerbolts quick and easy.



- The driver has internal threads with a pin stop in the barrel.
- The hangerbolt will not tighten inside the driver, allowing the driver to be easily reversed.

THREAD SIZE x OAL	PACK QTY.	STOCK #
		BULK
1/4" - 20 x 2-9/16"	10	HSN16020
5/16" - 18 x 2-9/16"	10	HSN16022
3/8" - 16 x 2-9/16"	10	HSN16021

ScrewTech® Professional Screwdriver Sets

CHROME VANDIUM BLADES



SETS	DESCRIPTION
ScrewTech® 6 PC. TORX® SCREWDRIVER SET CRYSTAL GOLD GRIP ERGONOMIC HANDLE In countertop or hang-up display box. Available in popular tip styles. Made in USA	Set contains one each: (Tip size x OAL) TORX® T10 x 6-1/8", T15 x 6-1/8", T20 x 6-1/8", T25 x 6-1/8", T27 x 7-1/2", T30 x 7-1/2" STOCK # SCD189



SCD189



SETS	DESCRIPTION
ScrewTech® 7 PC. SCREWDRIVER SET CRYSTAL GOLD GRIP ERGONOMIC HANDLE In countertop or hang-up display box. Available in popular tip styles. Made in USA	Set contains one each: (Tip size x OAL) SLOTTED 1/4" x 7-1/2", 1/4" x 9-1/2", 5/16" x 10", 3/8" x 10" PHILLIPS® #1 x 9-1/8", #2 x 7-1/2", #3 x 10" STOCK # SCD188



SCD188

**1000V AC • 1500V DC
INSULATED**

6-IN-ONE SCREWDRIVER



- Features:**
- 6 most-used sizes of hardened industrial bits in handle grip case.
 - Certified for use up to 1000V AC, 1500V DC.
 - Thermoplastic polyester elastomer molded handle grip prevents unintentional slippage.
 - Safe working temperature range -4°F / -20°C to 158°F / 70°C
 - Each screwdriver independently tested up to 10 Kv.
 - Conforms to EN-6090 up to 1000V and meets DIN/ISO standards.

On a Hangup Display Card

NEW!

DESCRIPTION	STOCK #
Contains one each: Slotted #3, #4; Phillips® #1, #2; Torx® T15, T20	HVD06



ScrewTech® Electrician's Screwdriver

Ergonomic Handle

Taiwan

Precision Tip
Hardened, Tempered, Plated

- Features:**
- Insulated handle protects against shock.
 - Ergonomic design for rapid rotation, greater comfort and control.
 - Hardened tip and shaft for maximum work load.



TIP SIZE x OAL	STOCK #	
	BULK	CARDED
SLOTTED		
3/16" x 8"	SCDE111	SCDE111C
3/16" x 10"	SCDE113	SCDE113C
17/64" x 8"	SCDE115	SCDE115C
17/64" x 10"	SCDE117	SCDE117C
21/64" x 10"	SCDE119	SCDE119C
17/64" x 3-1/2"	SCDE121	SCDE121C
PHILLIPS®		
#1 x 8"	SCDE131	SCDE131C
#1 x 10"	SCDE133	SCDE133C
#2 x 8"	SCDE135	SCDE135C
#2 x 10"	SCDE137	SCDE137C
#3 x 10"	SCDE139	SCDE139C
#2 x 3-1/2"	SCDE141	SCDE141C
SQUARE RECESS		
#0 x 8"	SCDE167	SCDE167C
#1 x 8"	SCDE169	SCDE169C
#2 x 9"	SCDE171	SCDE171C
#3 x 9"	SCDE173	SCDE173C
TORX®		
T8 x 8"	SCDE143	SCDE143C
T9 x 8"	SCDE145	SCDE145C
T10 x 8"	SCDE147	SCDE147C
T15 x 8"	SCDE149	SCDE149C
T20 x 9"	SCDE151	SCDE151C
T25 x 9"	SCDE153	SCDE153C
T27 x 8"	SCDE155	SCDE155C
T30 x 8"	SCDE157	SCDE157C
T40 x 10"	SCDE159	SCDE159C
T45 x 10"	SCDE161	SCDE161C

Bulk 12 per pack Card 1 per blister card

7 Pc. Professional Screwdriver Set



Features:

- Includes Electrical tester with an LED light, simply touch the metal cap to operate.

In a plastic case

NEW!

DESCRIPTION	STOCK #
Contains one each: Slotted 3/16" x 8", 1/4" x 8", 5/16" x 10", Phillips® #1, #2, #3 and 1/8" x 5-1/2" Electronic Tester	SCDE7



18 PC. ELECTRICIAN'S DISPLAY PHILLIPS® and SLOTTED

DISPLAY STOCK # SCDE18			
Contains 3 cards per size			
Phillips®		Slotted	
#2 x 3-1/2"	SCDE141	17/64" x 3-1/2"	SCDE121
#2 x 8"	SCDE135	3/16" x 8"	SCDE111
#3 x 10"	SCDE139	17/64" x 10"	SCDE117

MARINE – Stainless Steel Shaft

MADE IN
U. S. A.

**15-IN-ONE
SCREWDRIVER**

Features:

- Palm-saving rotating cap.
- Patented Quick Change Bit System.
- Industrial quality double-ended bits for most screwdriving applications.
- High impact Triax housing.
- Rotating balance point collar.
- 1/4" Hex drive.

**Stainless Steel Rust-Resistant Shaft,
Electroless Nickel Plated Bits**

For maritime and corrosive atmosphere use

DESCRIPTION	STOCK #	DISPLAY
15-IN-1 QUICK CHANGE MARINE SCREWDRIVER INCLUDES 7 DOUBLE END BITS 1/4" HEX x 2" OAL:		
#0 Phillips® - #3 Phillips®	#0 Sq. Recess x 3 Sq. Recess	MP1500
#1 Phillips® - #2 Phillips®	#1 Sq. Recess x 2 Sq. Recess	
T10 Torx® x T15 Torx®	#4 Slotted x #6 Slotted	
T20 Torx® x T25 Torx®	1/4" Hex Nut Driver	

1 per pack

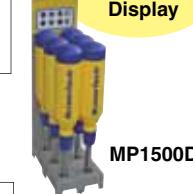
**DOUBLE END REPLACEMENT BITS
NICKEL PLATED – 1/4" HEX x 2" OAL**

	#0 Phillips® #3 Phillips®	MP1501
	#1 Phillips® #2 Phillips®	MP1502
	#0 Sq. Recess #3 Sq. Recess	MP1503
	#1 Sq. Recess #2 Sq. Recess	MP1504

1 per pack

**Weatherproof.
Rust-Resistant.
Suitable for
outdoor /
marine use.**

**6 Pc.
15-IN-ONE
Counter
Display**



MP1500D



TAMPERPROOF

**15-IN-ONE
SCREWDRIVER**

Features:

- Palm saving rotating cap.
- Patented Quick Change Bit System.
- Industrial quality double-ended bits for most screwdriving applications.
- High impact Triax housing.
- Rotating balance point collar.
- 1/4" Hex drive.

Alloy Steel Shaft – S2 Steel Bits

NEW!

DESCRIPTION	STOCK #	DISPLAY
15-IN-1 QUICK CHANGE TAMPERPROOF SCREWDRIVER INCLUDES 7 DOUBLE END BITS 1/4" HEX x 2" OAL:		
1/8" Hex Pin	#6 Spanner	#10 Torx® Pin
9/64" Hex Pin	#8 Spanner	#27 Torx® Pin
5/32" Hex Pin	#10 Spanner	#30 Torx® Pin
3/16" Hex Pin	#12 Spanner	1/4" Hex Nut Driver

1 per pack

**Ideal for
electricians,
locksmiths,
telephone
technicians,
maintenance
personnel.**

**6 Pc.
15-IN-ONE
Counter
Display**



MP1510D



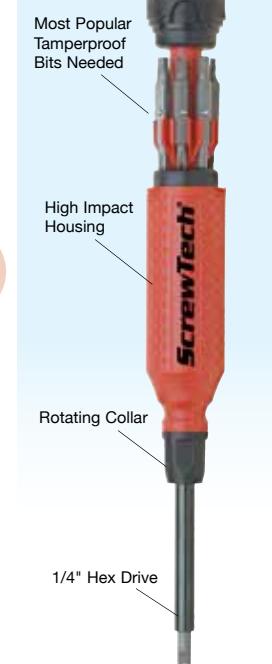
DOUBLE END REPLACEMENT BITS – 1/4" HEX x 2" OAL

	1/8" Hex Pin 9/64" Hex Pin	MP1511
	5/32" Hex Pin 3/16" Hex Pin	MP1512
	#6 Spanner #8 Spanner	MP1513
	#10 Spanner #12 Spanner	MP1514

1 per pack

MADE IN
U. S. A.

Pull-out Rotating Cap



Magnetic Screwdriver

1/4" & 5/16" Hex Drive

ScrewTech®



- With insert bit storage handle
- Capacity to store up to 9 insert bits

MAGNETIC SCREWDRIVER With 5 insert bits in storage handle

HEX SIZE	OAL	BIT SIZES	SHAFT	STOCK #
1/4"	8"	Slotted #6, #8, #10 Phillips® #1, #2	Aluminum Stainless	SCDM100A SCDM100
1/4"	8"	Slotted #4, #6, #8, #10, #12	Aluminum Stainless	SCDM106A SCDM106
1/4"	8"	Torx® T10, T15, T20, T25, T27	Aluminum Stainless	SCDM105A SCDM105
1/4"	8"	Slotted #6, #8 Square #1, #2, #3	Aluminum Stainless	SCDM107A SCDM107
1/4"	8"	Torx® Tamper Proof TT15, TT20, TT25, TT27, TT30	Aluminum Stainless	SCDM108A SCDM108

MAGNETIC SCREWDRIVER Bits not included

HEX SIZE	OAL	SHAFT TYPE	STOCK #
1/4"	7-1/2"	Aluminum	SCDM101
1/4"	7-1/2"	Stainless steel	SCDM102
5/16"	7-1/2"	Stainless steel	SCDM104

12 per pack

Electronic Screwdriver

Super Slim
Chrome Vanadium
Heat Treated Blades

Taiwan

Chrome Finish, Black Tips

Features:

- The new SUPER SLIM screwdrivers incorporate the features required by the micro electronic industry.
- Ergonomically comfortable handles have revolving centering heads, which allow precision fingertip torque control.



BLADE WIDTH MM	BLADE LENGTH		STOCK #
	MM	IN.	
SLOTTED			
2.0	75	3"	SS488001
2.5	75	3"	SS488002
3.0	100	4"	SS488003
3.5	100	4"	SS488004
4.0	100	4"	SS488005
PHILLIPS®			
#1	100	4"	SS488006
#0	100	4"	SS488007
#00	75	3"	SS488008
#000	75	3"	SS488009
TORX®			
T5	50	2-1/4"	SS487705
T6	50	2-1/4"	SS487706
T7	50	2-1/4"	SS487707
T8	60	2-1/2"	SS487708
T9	60	2-1/2"	SS487709
T10	80	3"	SS487710

12 per pack



SETS

Screwdrivers included in sets made of Nickel Chrome Molybdenum Alloy Steel

NEW!

TYPE	DESCRIPTION	STOCK #
3 Pcs.	Contains one each: Slotted: 2mm, 3mm Phillips®: #0, #2	SS48930
6 Pcs.	Contains one each: Slotted: 1.4mm, 2mm, 2.4mm, 3mm Phillips®: #0, #1-2	SS48960

ScrewTech® Screwdriver Bit & Security Bit Sets



Taiwan

29 PC. SCREWDRIVER BIT SET

A complete screwdriver tool kit
in compact tool box.

DESCRIPTION		STOCK #
COMPLETE KIT		
Hand Drive	Magnetic Storage Handle - 8"	
Bit Holder	1/4" Hex Drive - 1-7/8" Long	
Adapter	1/4" Sq. to 1/4" Hex - 1" Long	
TIP STYLE	TIP SIZES	
Phillips®	#0, #1, #2, #3	
Slotted	4-5, 6-8, 8-10, 10-12, 12-14	
Torx®	T10, T15, T20, T25, T30, T40	
Sq. Recess	#0, #1, #2, #3	
Clutch	5/32", 3/16"	
Hex Socket	5/64", 3/32", 7/64, 1/8", 9/64"	
		HT10103

1 per pack

29 PC. SECURITY BIT SET

(Tamperproof)

A complete security tool kit in compact tool box.

DESCRIPTION		STOCK #
COMPLETE KIT		
Hand Drive	Magnetic Storage Handle - 8"	
Bit Holder	1/4" Hex Drive - 1-7/8" Long	
Adapter	1/4" Sq. to 1/4" Hex - 1" Long	
TIP STYLE	TIP SIZES	
Spanner	#6, #8, #10	
Pozidriv®	#1, #2, #3	
Tri-Wing	#1, #2, #3	
Hex Socket	3/32", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16"	
Torx®	TT8, TT9, TT10, TT15, TT20, TT25, TT27, TT30, TT40	
		HSB16010

1 per pack

ScrewTech® Ball Hex Drivers

INCH SIZES

HEX SIZE	BLADE LENGTH	PACK QTY.	STOCK #
.050	2.5	1	BD91103
1/16"	2.5	1	BD91104
5/64"	2.5	1	BD91105
3/32"	2.5	1	BD91106
7/64"	2.5	1	BD91107
1/8"	5.0	1	BD91108
9/64"	5.0	1	BD91109
5/32"	5.3	1	BD91110
3/16"	5.3	1	BD91112
7/32"	5.3	1	BD91114
1/4"	5.5	1	BD91116
5/16"	5.5	1	BD91120
3/8"	5.5	1	BD91124
7/16"	7.2	1	BD91128
1/2"	8.0	1	BD91132



METRIC SIZES

HEX SIZE	BLADE LENGTH	PACK QTY.	STOCK #
1.3	2.5	1	BD91602
1.5	2.5	1	BD91603
2.0	2.5	1	BD91604
2.5	2.5	1	BD91605
3.0	5.0	1	BD91606
4.0	5.3	1	BD91608
5.0	5.3	1	BD91610
6.0	5.5	1	BD91612
8.0	5.5	1	BD91616
10.0	5.5	1	BD91620
12.0	8.1	1	BD91624

13 Pcs. BALL HEX DRIVER SET

In Plastic Pouch

DESCRIPTION	PACK QTY.	STOCK #
Contains one ea: .050, 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	1	BD90113



BD90609

9 Pcs. BALL HEX DRIVER SET

In Plastic Pouch

DESCRIPTION	PACK QTY.	STOCK #
Contains one ea: 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0	1	BD90609

28 PC. FLEXIBLE RATCHETING DRIVER KIT

In a handy set with a strong, blow-molded plastic storage case



Taiwan

Features:

- Versatile, strong, flexible ratchet.
- Ergonomic "firm-grip" handle.
- Industrial S-2 steel screwdriver bits.
- Quick Change Monolock® system for fast tooling changes.
- Handy set with a strong, blow-molded plastic storage case.
- Individually sleeved.

28 Pc. Kit Contains:

- 1 pc. S22 Ratcheting Driver
- 1 pc. NARO Ratcheting Driver
- 1 pc. 60mm Bit Holder
- 1 pc. 25mm Socket Adaptor
- 15 pcs. Industrial Screw Insert Bits:
Phillips®: #1, #2, #3
Slotted: 3/16", 1/4", 1/8"
Torx®: T15, T20
Hex: 1/16", 3/32", 1/8", 3/16", 1/4"
Square Recess: #1, #2
- 9 pcs. CR-VA Socket: 3/16", 1/4", 9/32",
5/16", 11/32", 3/8", 7/16", 15/32", 1/2"



FRD28

DESCRIPTION	PACK QTY.	STOCK #
Contains one 28 Pc. Kit individually sleeved	1	FRD28

All-Purpose Tool Kit

ACCESSORIES FOR CORDLESS POWER TOOLS

32 PC. MONOLOCK™ TOOL KIT

In a handy, impact-resistant storage case



Stock # MLK32

1/4" Hex power shank tool bits for metal, wood and masonry work.

- High speed steel drill bits for metal.
- Carbide tipped drill bits for masonry.
- CR-VA spade bits for wood.

QTY.	DESCRIPTION
5	The kit contains the following: HSS Drill Bits with 1/4" Hex Shank: 1/16", 3/32", 1/8", 5/32", 3/16"
3	Masonry Drill Bits Carbide Tipped with 1/4" Hex Shank: 1/8", 3/16", 1/4"
3	Spade Bits, 4" OAL with 1/4" Hex Shank: CR-VA, 3/8", 1/2", 3/4"
1	Monolock™ Quick Change Chuck
1	2-1/4" Length Bit Holder
1	2" Length 1/4" Drive Socket Adapter
1	90° Countersink with 5 Flute
9	Hex Power Bits CR-VA: 1/4" Hex x 2" OAL Phillips® - #1, #2, #3 (POZI #1, #2, #3) Slotted - 3/16", 9/32" (5mm, 7mm) Torx® - T15, T20 Robertson - R1, R2
7	Nutdrivers - 1/4" Hex Shank 3/16", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16"
1	Impact-Resistant Storage Case 5-1/4" x 8" x 2"

Individually boxed

The Monolock quick change system provides a wide range of instant chucking accessories and screwdriving tools.

ScrewTech® Insert Bit Kits & Dial-A-Bit Dispensers

Features:

- All bits and nutsetters are heat treated and made of a shock-resistant tool steel.
- Durable plastic containers are easily stored in tool boxes.
- Lid dials to release individual bits.



7 PC. DIAL-A-BIT INSERT KIT

DESCRIPTION	STOCK #	
	BULK	1 PER CARD
Contains one ea: #1, #2, #3 Phillips® 6-8, 8-10, 10-12 Slotted 2-5/8" OAL Mag. Bit Holder	HSB66721	HSB66721C

1 per pack

19 PC. DIAL-A-BIT INSERT KIT

DESCRIPTION	STOCK #
Contains one ea: #1, #2, #3 Phillips® 3/4", 1/4" T10, T15, T20, T25, T30 Torx® #1, #2, #3 Sq. Recess 5/64", 3/32", 1/8", 5/32", 3/16" Hex 2-5/8" OAL Magnetic Bit Holder	HSB66734

1 per pack

19 PC. DIAL-A-BIT & SOCKET KIT

DESCRIPTION	STOCK #
Contains one ea: #1, #2, #3 Phillips® 3/16", 1/4" #1, #2, #3 Sq. Recess 5/32", 3/16", 7/32", 1/4" Sq. Drive 9/32", 5/16", 3/8", 7/16", 1/2" Sockets 1" Socket Adapter 2-5/8" OAL Magnetic Bit Holder	HSB66741

1 per pack



20 PC. INSERT BIT "CHEW CANS"

1/4" HEX SHANK Insert Bits

BIT SIZE & TYPE	STOCK #
# 2 x 1" Phillips®	CC15803
# 2R x 1" Phillips® Reduced	CC15805
# 2 x 1" Square Recess	CC15816
# 2 x 1" ACR® Phillips®	CC26110
# 2R x 1" ACR® Phillips® Reduced	CC26113

16 "chew cans" per display carton

Features:

- All bits are made of a shock resistant tool steel & heat treated.
- Durable plastic containers are easily stored in tool boxes.
- Lid dials to release individual bits.

10 PC. DIAL-A-BIT INSERT KIT

DESCRIPTION	STOCK #
	DIAL-A-BIT
Each kit contains one ea: #1, #2, #3 Phillips® 6-8, 8-10, 10-12 Slotted T10, T15, T20 Torx® 2-5/8" OAL Magnetic Bit Holder	HSB66711

Screwdriver Bit Block Sets

35 PC. BIT BLOCK SET ASSORTMENTS

In honeycomb plastic storage case



BBL9001



BBL8001TC

PCS. PER SET		DESCRIPTION	PACK QTY.	STOCK #
				BULK 1 PER CARD
35 Pcs.	⊕	#2 Phillips® Reduced Drywall Bits – 32 each	1	BBL9001 BBL9001C
35 Pcs.	⊖	#2 Square Recess Bits – 32 each	1	BBL9002 BBL9002C
35 Pcs.	⊕ ⊖	#2 Phillips® Reduced Drywall Bits – 16 each #2 Square Recess Bits – 16 each	1	BBL9003 BBL9003C
35 Pcs.	⊕	#2 Phillips® Bits – 32 each	1	BBL9004 BBL9004C
35 Pcs.	⊕ ⊖ ⊙ ⊚ ⊛ ⊜	Professional Assorted Set – 2 ea. of the following: #0, 1, 2, 3 Phillips®; #2 Reduced Phillips®; #6-8, 8-10, 10-12 Slotted; #1, 2, 3 Square Recess; T10, T15, T20, T25, T30 Torx®	1	BBL9005 BBL9005C
35 Pcs.	⊕ ⊖ ⊙ ⊚ ⊛ ⊜	Tamper Proof Set – 1 each of the following: 6mm, 8mm, 10mm Torx®, #4, 6, 8, 10 Spanner; #1, 2, 3, 4 Tri-Wing; 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm Hex, 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" Hex, TT8H, TT10H, TT15H, TT20H, TT25H, TT27H, TT30H, TT35H, TT40H Torx®	1	BBL8001T BBL8001TC

Industrial, Concrete & Masonry Tools

F

Tapcon® - SDS Plus Bits & Screws

Tapcon® Half-Flat Shank Bits	F1
Tapcon® Installation Kit for Concrete Screws ..	F1
Tapcon® SDS-Plus / Hex Drive Bits	F1
Concrete Tapping Screws	F1

Masonry Drill Bits

Fast Spiral / Set / Display	F2
<small>NEW!</small> Monolock® 1/4" Hex Power Shank	F2
Slow Spiral / Set / Display	F3

Carbide Hammer Drill Bits

Roto-Percussion Drill Bits	F4
Spline Shank Rotary Hammer Drill Bits	
Duo	F5
Quadro	F5
<small>NEW!</small> SDS-Plus Rotary Hammer Drill Bits	F6
<small>NEW!</small> SDS 4x4 Quadro Hammer Drill Bits	F7
SDS-Max™ Hammer Drill Bits	
Duo	F8
Quadro	F8
Hammer Drill Adaptors	F9
<small>NEW!</small> Hammer Drill Adaptor Extension System	F9
<small>NEW!</small> Core Cutters for Rotary Hammer Drills	F10
<small>NEW!</small> SDS Drill Stop	F10
Rotary Rebar Cutters	F11

Core Bits For Rotary Hammer Drills

2 Pc. Taper Extension Type	F12
Accessories	F12
<small>NEW!</small> 2 Pc. Screw-On Extension Type	F12
Accessories	F12
1 Pc. Solid Construction	F13
Accessories	F13

Chisels - Masonry

<small>NEW!</small> For Electric Hammers	F14
<small>NEW!</small> For Pneumatic Hammers	F15
<small>NEW!</small> Floor Scraper Chisels	F14

Diamond Core Bits

Segmented Wet Cutting	F16
Full Crown Wet Cutting	F16
Segmented Dry Cutting	F17
Marble / Granite	F17
Accessories	F17

Diamond & Carbide Tipped Drill Bits

<small>NEW!</small> Diamond Core Drills for Hard Tiles / Ceramics ..	F18
Carbide Tipped Glass / Ceramic Drill Bits	F19
<small>NEW!</small> Monolock® Carbide Tipped	F19
Glass / Ceramic Drill Bits	
Fluted Rubbing Brick	F19



Tapcon® Drills

HALF FLAT SHANK BITS

For concrete screw installation



Features:

- Suitable for use on masonry, stone and brick.
- Precisely ground to match strict "screw" tolerance, assuring correct hole diameter for the achievement of maximum thread holding capability.
- Industrial grade tungsten carbide tip provides toughness and durability.
- Flat on shank fits all drill bit adapters designed for this application.
- Shot-Peened finish.

DRILL DIA.	OAL	SCREW SIZE	STOCK #
5/32"	3-1/2"	3/16"	MD60551
5/32"	4-1/2"	3/16"	MD60552
5/32"	5-1/2"	3/16"	MD60553
3/16"	3-1/2"	1/4"	MD60554
3/16"	4-1/2"	1/4"	MD60555
3/16"	5-1/2"	1/4"	MD60556
3/16"	6-3/4"	1/4"	MD60557
3/16"	7-5/8"	1/4"	MD60558

12 per pack

INSTALLATION KIT FOR CONCRETE SCREWS

This Tapcon® installation kit is suitable for both Half Flat Shank and SDS-Plus / HEX Anchor Drive Bits.



DRILL DIA.	OAL	DRILLING DEPTH	SCREW SIZE	STOCK #
5/32"	5"	2"	3/16"	HDSDS62180
5/32"	7"	4"	3/16"	HDSDS62182
3/16"	5"	2"	1/4"	HDSDS62183
3/16"	7"	4"	1/4"	HDSDS62185

12 per pack

Stock # MD60560 – Kit contains:

- | | |
|-------------------------|---------------------------|
| • 1/4" Magnetic Driver | • 1/8" Hex Key |
| • 5/16" Magnetic Driver | • #2 x 1" Phillips Bit |
| • Phillips Bit Adapter | • #3 x 1" Phillips Bit |
| • Masonry Drill Adapter | • Heavy duty plastic case |
| • 6-1/2" Sleeve | |

TAPCON® is a registered trademark of ITW Buildex.

Concrete Tapping Screws



SLOTTED HEX COMBO

1/4" Hex – 3/16" dia.
5/16" Hex – 1/4" dia.



FLAT PHILLIPS

#2 Phillips – 3/16" dia.
#3 Phillips – 1/4" dia.



TSC167206

Features: • Best quality fasteners for all construction work.

Taiwan



SLOTTED
HEX COMBO
SCREW



PHILLIPS
FLAT HEAD
SCREW

DIA.	LENGTH	QUANTITY PER PACK	STOCK #	
			SLOTTED HEX COMBO HEAD	PHILLIPS FLAT HEAD
3/16"	1-1/4"	100	TSC167201	TSC167221
3/16"	1-3/4"	100	TSC167202	TSC167222
3/16"	2-1/4"	100	TSC167203	TSC167223
3/16"	2-3/4"	100	TSC167204	TSC167224
3/16"	3-1/4"	100	TSC167205	TSC167225
3/16"	3-3/4"	100	TSC167206	—
3/16"	4"	100	TSC167207	—
1/4"	1-1/4"	100	TSC167208	TSC167228
1/4"	1-3/4"	100	TSC167209	TSC167229
1/4"	2-1/4"	100	TSC167210	TSC167230
1/4"	2-3/4"	100	TSC167211	TSC167231
1/4"	3-1/4"	100	TSC167212	TSC167232
1/4"	4"	100	TSC167214	TSC167234

100 screws per pack

Each pack also contains 1 masonry drill

SDS-PLUS / HEX DRIVE BITS



Made in
Germany

For concrete screw installation,
to use with SDS-Plus drive machines.



Features:

- Hex above SDS-Plus shank fits directly into most common concrete screw anchor installation tools.
- The 5/16" Hex shoulder eliminates the need for drill adapter.
- Copper / silver brazing.
- Polished finish.

Masonry Drill Bits – Fast Spiral

**Carbide Tipped,
130° Point**

Bright Plated Finish

- Features:**
- Heat treated shank provides shock-proof rotary drilling.
 - Fast spiral flutes clear dust quickly.
 - Suitable for drilling in light to medium hard building materials, i.e. concrete, masonry, brick, tile, slate and cinder block.

MASONRY DRILL BITS



DRILL DIA.	OAL	SHANK DIA.	STOCK #	
			ENVELOPED	CARDED
3/16"	4"	3/16"	MDF60502	MDF60502C
1/4"	4"	1/4"	MDF60503	MDF60503C
5/16"	4"	1/4"	MDF60504	MDF60504C
3/8"	4"	1/4"	MDF60505	MDF60505C
1/2"	4"	1/4"	MDF60506	MDF60506C
3/16"	6"	3/16"	MDF60507A	MDF60507AC
1/4"	6"	1/4"	MDF60507	MDF60507C
5/16"	6"	1/4"	MDF60508	MDF60508C
3/8"	6"	1/4"	MDF60509	MDF60509C
7/16"	6"	1/4"	MDF60510	MDF60510C
1/2"	6"	1/4"	MDF60511	MDF60511C
1/2"	6"	3/8"	MDF60512	MDF60512C
9/16"	6"	3/8"	MDF60513	MDF60513C
5/8"	6"	3/8"	MDF60514	MDF60514C
11/16"	6"	1/2"	MDF60515	MDF60515C
3/4"	6"	1/2"	MDF60516	MDF60516C

Bulk 3/16" to 5/16", 12 per envelope, 3/8" to 1/2", 6 per envelope
9/16" to 3/4", 1 per envelope

Carded 1 per card, 3 cards per standard pack.



MASONRY DRILL BIT SET



MDF60500C

DESCRIPTION	STOCK #
5 Pcs. Set in plastic case: 1 each: 3/16", 1/4", 5/16", 3/8", 1/2", 4" long drills	MDF60500C

18 PC. MASONRY DRILL BIT WALL DISPLAY



DISPLAY STOCK # WMDF18

Contains		
Qty.	Size	Stock #
3	1/4" x 6"	MDF60507C
3	5/16" x 6"	MDF60508C
3	3/8" x 6"	MDF60509C
3	1/2" x 6"	MDF60511C
3	5/8" x 6"	MDF60514C
3	3/4" x 6"	MDF60516C

Each display includes wire rack and header card.



Masonry Drill Bits

**1/4" Hex Power Shank
Carbide Tipped**



Shot-Peened Finish

- 1/4" hex shanks are designed for use in power tools with quick change chucks and adapters. They also provide added stability when used in standard drill chucks.



MDH60572

MASONRY DRILL BIT SET

NEW!

DESCRIPTION	STOCK #
5 Pcs. Set in plastic case: 1 each: 3/16", 1/4", 5/16", 3/8", 1/2", 4" long drills	MDH60572

See page A77 for Monolock®
Quick Change Chuck Information

MASONRY DRILL BITS

DRILL DIA.	OVERALL LENGTH	STOCK #	
		ENVELOPED	1 / CARD
5/32"	4"	MDH60561	MDH60561C
3/16"	4"	MDH60563	MDH60563C
1/4"	4"	MDH60565	MDH60565C
5/16"	4"	MDH60567	MDH60567C
3/8"	4"	MDH60569	MDH60569C
1/2"	4"	MDH60571	MDH60571C

Pack: Up to 5/16" – 12 per envelope
3/8", 1/2" – 6 per envelope



ECO PRO • ECO PRO drills are made outside the United States to ALFA TOOLS' specifications.

Masonry Drill Bits – Slow Spiral

**Carbide Tipped,
130° Point**

**Bright Plated Or
Black Oxide Finished**

Features:

- Heat treated shank for shock-proof rotary & roto-percussion drilling application.
- Slow spiral provides easy debris removal.
- Suitable for drilling in light to medium hard building materials, i.e. dry concrete, masonry, brick, terra cotta, sandstone, tile, slate and cinder block.



DRILL DIA.	OAL	SHANK DIA.	BRIGHT PLATED		BLACK OXIDE	
			STOCK #		STOCK #	
			ENVELOPED	CARDED	ENVELOPED	CARDED
1/8"	3"	1/8"	MD60501	MD60501C	MDBL60501	MDBL60501C
3/16"	4"	3/16"	MD60502	MD60502C	MDBL60502	MDBL60502C
1/4"	4"	1/4"	MD60503	MD60503C	MDBL60503	MDBL60503C
5/16"	4"	1/4"	MD60504	MD60504C	MDBL60504	MDBL60504C
3/8"	4"	1/4"	MD60505	MD60505C	MDBL60505	MDBL60505C
1/2"	4"	1/4"	MD60506	MD60506C	MDBL60506	MDBL60506C
3/16"	6"	3/16"	MD60507A	MD60507AC	MDBL60507A	MDBL60507AC
1/4"	6"	1/4"	MD60507	MD60507C	MDBL60507	MDBL60507C
5/16"	6"	1/4"	MD60508	MD60508C	MDBL60508	MDBL60508C
3/8"	6"	3/8"	MD60509	MD60509C	MDBL60509	MDBL60509C
7/16"	6"	3/8"	MD60510	MD60510C	MDBL60510	MDBL60510C
1/2"	6"	1/4"	MD60511	MD60511C	MDBL60511	MDBL60511C
1/2"	6"	3/8"	MD60512	MD60512C	MDBL60512	MDBL60512C
9/16"	6"	3/8"	MD60513	MD60513C	MDBL60513	MDBL60513C
5/8"	6"	3/8"	MD60514	MD60514C	MDBL60514	MDBL60514C
11/16"	6"	1/2"	MD60515	MD60515C	MDBL60515	MDBL60515C
3/4"	6"	1/2"	MD60516	MD60516C	MDBL60516	MDBL60516C
7/8"	6"	1/2"	MD60517	MD60517C	MDBL60517	MDBL60517C
1"	6"	1/2"	MD60518	MD60518C	MDBL60518	MDBL60518C
1/4"	13"	1/4"	MD60519	MD60519C	MDBL60519	MDBL60519C
5/16"	13"	5/16"	MD60520	MD60520C	MDBL60520	MDBL60520C
3/8"	13"	3/8"	MD60521	MD60521C	MDBL60521	MDBL60521C
1/2"	13"	3/8"	MD60522	MD60522C	MDBL60522	MDBL60522C
5/8"	13"	3/8"	MD60523	MD60523C	MDBL60523	MDBL60523C
3/4"	13"	1/2"	MD60524	MD60524C	MDBL60524	MDBL60524C
7/8"	13"	1/2"	MD60525	MD60525C	MDBL60525	MDBL60525C
1"	13"	1/2"	MD60526	MD60526C	MDBL60526	MDBL60526C
5/16"	18"	5/16"	-	-	MDBL60530	MDBL60530T
3/8"	18"	3/8"	-	-	MDBL60532	MDBL60532T
1/2"	18"	3/8"	-	-	MDBL60534	MDBL60534T
5/8"	18"	1/2"	-	-	MDBL60536	MDBL60536T
3/4"	18"	1/2"	-	-	MDBL60538	MDBL60538T
7/8"	18"	1/2"	-	-	MDBL60540	MDBL60540T
1"	18"	1/2"	-	-	MDBL60542	MDBL60542T

Bulk 1/8" to 5/16", 12 per envelope, 3/8" to 1/2", 6 per envelope, 9/16" to 1", 1 per envelope
Tube 18" OAL Black Oxide Carded 1 per card.



MD60500C

MD6

MASONRY DRILL BIT SETS

Expanded

DESCRIPTION	BRIGHT PLATED	BLACK OXIDE
	STOCK #	STOCK #
5 Pcs. Set in plastic case 1 each: 3/16", 1/4", 5/16", 3/8", 1/2" 4" long drills	MD60500C	MDBL60500C
5 Pcs. Set in plastic case 1 each: 3/16", 1/4", 5/16", 3/8", 1/2" 6" long drills	MD6	MDBL6



WMDBL12

MASONRY DRILL BIT WALL DISPLAYS

30 Pcs. Display 5 each: 1/8" x 3", 3/16", 1/4", 5/16", 3/8", 1/2" 4" long drills	WMD30	WMDBL30
18 Pcs. Display 3 each: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" 6" long drills	WMD18	WMDBL18
12 Pcs. Display 2 each: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" 13" long drills	WMD12	WMDBL12

ECO PRO • ECO PRO drills are made outside the United States to ALFA TOOLS' specifications.

Roto-Percussion Drill Bits

Carbide Tipped, For Roto-Percussion Drilling Heavy-Duty

Straight Shank



DRILL DIA.	DRILLING DEPTH	OAL	SHANK DIA.	STOCK #	
				BULK	TUBE
1/8"	1-1/2"	3"	1/8"	MHD62001	MHD62001P
3/16"	2"	3-1/2"	3/16"	MHD62002	MHD62002P
3/16"	4-1/2"	6"	3/16"	MHD62003	MHD62003P
3/16"	6-1/2"	8"	3/16"	MHD62003A	MHD62003AP
7/32"	4-1/2"	6"	3/16"	MHD62004A	MHD62004AP
1/4"	2-1/2"	4"	1/4"	MHD62004	MHD62004P
1/4"	4-1/2"	6"	1/4"	MHD62005	MHD62005P
1/4"	10-1/2"	12"	1/4"	MHD62006	MHD62006P
1/4"	16"	20"	1/4"	MHD62007	MHD62007P
1/4"	20"	24"	1/4"	MHD62008	MHD62008P
5/16"	3-1/4"	4-3/4"	1/4"	MHD62009	MHD62009P
5/16"	4-1/2"	6"	1/4"	MHD62010	MHD62010P
5/16"	10-1/2"	12"	1/4"	MHD62011	MHD62011P
3/8"	4-1/2"	6"	1/4"	MHD62013	MHD62013P
3/8"	10-1/2"	12"	1/4"	MHD62014	MHD62014P
3/8"	18-1/2"	20"	1/4"	MHD62015	MHD62015P
3/8"	20"	24"	3/8"	MHD62016	MHD62016P
7/16"	4-1/2"	6"	3/8"	MHD62017	MHD62017P
1/2"	4-1/2"	6"	3/8"	MHD62020	MHD62020P
1/2"	10-1/2"	12"	3/8"	MHD62021	MHD62021P
1/2"	16"	20"	3/8"	MHD62022	MHD62022P
1/2"	22-1/2"	24"	3/8"	MHD62023	MHD62023P
5/8"	4-1/2"	6"	3/8" Hex	MHD62024	MHD62024P
5/8"	10-1/2"	12"	3/8" Hex	MHD62025	MHD62025P
5/8"	16"	20"	3/8" Hex	MHD62026	MHD62026P
5/8"	22-1/2"	24"	3/8" Hex	MHD62027	MHD62027P
3/4"	4-1/2"	6"	1/2" Hex	MHD62028	MHD62028P
3/4"	10-1/2"	12"	1/2" Hex	MHD62029	MHD62029P
3/4"	20"	24"	1/2" Hex	MHD62031	MHD62031P
7/8"	4-1/2"	6"	1/2" Hex	MHD62032	MHD62032P
7/8"	10-1/2"	12"	1/2" Hex	MHD62033	MHD62033P
7/8"	20"	24"	1/2" Hex	MHD62035	MHD62035P
1"	4-1/2"	6"	1/2" Hex	MHD62036	MHD62036P
1"	10-1/2"	12"	1/2" Hex	MHD62037	MHD62037P
1"	20"	24"	1/2" Hex	MHD62039	MHD62039P

Bulk 1/8" - 5/16", 6 per pack, 3/8" - 1/2", 3 per pack
5/8" - 1", 1 per pack

Tube 1 per each



MHD5

SET

NEW!

QTY.	SIZES	STOCK #
5 Pcs.	In plastic case 6" long drills: 3/16", 1/4", 5/16", 3/8", 1/2"	MHD5



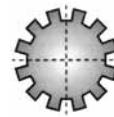
Spline Shank Rotary Hammer Drill Bits

NEW improved head geometry for more aggressive drilling



Made in
Germany

Duo & Quadro Cutting Head
Spline Drive System
For Large Rotary Hammers
Carbide Tipped



Spline Shank



Features:

Duo Cutting Head:

- Symmetrical double flute design reduces vibration and heat.
- High quality tungsten carbide tips vacuum brazed with pure copper.
- Shot-peened finish.
- Made to ANSI standards.

Expanded

DIA.	DRILLING DEPTH	OAL	STOCK #
			TUBE
DUO CUTTING HEAD			
3/8"	5"	10"	HDSS6701
1/2"	5"	10"	HDSS6702
1/2"	11"	16"	HDSS6703
1/2"	17"	22"	HDSS6704
1/2"	24"	29"	HDSS6705
1/2"	31"	36"	HDSS6706
5/8"	5"	10"	HDSS6707
5/8"	11"	16"	HDSS6708
5/8"	17"	22"	HDSS6709
5/8"	31"	36"	HDSS6710
3/4"	5"	10"	HDSS6711
3/4"	11"	16"	HDSS6712
3/4"	17"	22"	HDSS6713
3/4"	31"	36"	HDSS6714
7/8"	11"	16"	HDSS6715
7/8"	17"	22"	HDSS6716
7/8"	31"	36"	HDSS6717
1"	8"	13"	HDSS6718
1"	11"	16"	HDSS6719
1"	17"	22"	HDSS6720
1"	31"	36"	HDSS6721
1-1/8"	11"	16"	HDSS6722
1-1/8"	17"	22"	HDSS6723
1-1/4"	11"	16"	HDSS6724
1-1/4"	17"	22"	HDSS6725
1-1/4"	31"	36"	HDSS6726
1-3/8"	11"	16"	HDSS6727
1-3/8"	17"	22"	HDSS6728
1-1/2"	11"	16"	HDSS6729
1-1/2"	17"	22"	HDSS6730
1-3/4"	17"	22"	HDSS6731
2"	17"	22"	HDSS6732

Tube 1 per each



Features:

Quadro Cutting Head:

- Patented cutting head technology.
- New patented more aggressive 4-cutter head design technology.
- Less strain on user and power tool.
- More accurate holes.
- For use in concrete and hard masonry materials.

Expanded

DIA.	DRILLING DEPTH	OAL	STOCK #		
			TUBE		
QUADRO CUTTING HEAD					
The new generation of spline bits					
5/8"	5"	10"	HDSS6804		
5/8"	11"	16"	HDSS6805		
5/8"	17"	22"	HDSS6806		
5/8"	24"	29"	HDSS6807		
3/4"	5"	10"	HDSS6808		
3/4"	11"	16"	HDSS6809		
3/4"	17"	22"	HDSS6810		
3/4"	24"	29"	HDSS6811		
7/8"	11"	16"	HDSS6812		
7/8"	17"	22"	HDSS6813		
1"	11"	16"	HDSS6814		
1"	17"	22"	HDSS6815		
1-1/8"	11"	16"	HDSS6816		
1-1/8"	17"	22"	HDSS6817		
1-1/4"	11"	16"	HDSS6818		
1-1/4"	17"	22"	HDSS6819		
1-3/8"	11"	16"	HDSS6820		
1-3/8"	17"	22"	HDSS6821		
1-1/2"	17"	22"	HDSS6822		
2"	18"	23"	HDSS6823		

Tube 1 per each

Note: New stock numbers



12 PC. SPLINE SHANK - QUADRO HEAD ROTARY HAMMER DRILL BITS DISPLAY



DISPLAY STOCK # SSQ12

Contains

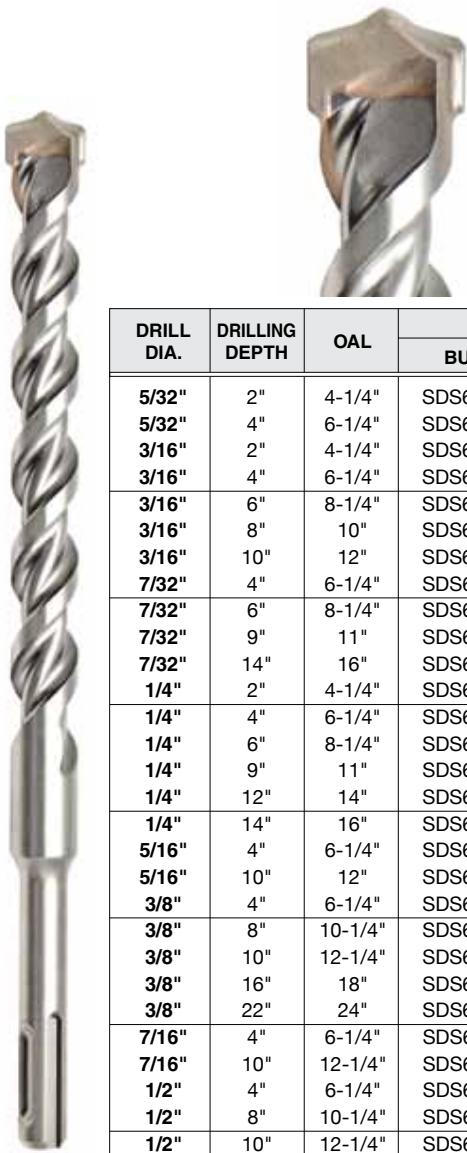
Qty.	Size	Stock #
2	5/8" x 10"	HDSS6804
1	5/8" x 16"	HDSS6805
2	3/4" x 10"	HDSS6808
1	3/4" x 16"	HDSS6809
2	7/8" x 16"	HDSS6812
1	7/8" x 22"	HDSS6813
2	1" x 16"	HDSS6814
1	1" x 22"	HDSS6815

Each display includes wire rack and header card.



SDS-Plus Rotary Hammer Drill Bits

**Carbide Tipped,
For Small Rotary Hammers
With 4-Slot SDS Drive System**



F SDS-Plus Rotary Hammer Drill Bits

F

Features:

- Patented reinforced flute geometry reduces vibration and channels debris quickly away from the hole.
- Versatile 4-slot drive system hammer bits fit most SDS-Plus rotary hammers.
- Chisel shaped head geometry is self-centering and ensures fast penetration.
- Head design to prevent shattering in the event of contact with reinforced steel and concrete.
- High temperature vacuum brazing with pure copper ensures heavy duty tip capability and withstands hard aggregate shocks.
- Shot-peened finish.
- Made to ANSI standards.
- Drills stamped with  insignia satisfy the strict quality control tolerances and specifications of the German Institute for Bautechnik, Berlin.
- For use in concrete, stone, masonry, solid brick, cement board and aggregates.



DRILL DIA.	DRILLING DEPTH	OAL	STOCK #	
			BULK	TUBE
5/32"	2"	4-1/4"	SDS62401	SDS62401P
5/32"	4"	6-1/4"	SDS62402	SDS62402P
3/16"	2"	4-1/4"	SDS62403	SDS62403P
3/16"	4"	6-1/4"	SDS62404	SDS62404P
3/16"	6"	8-1/4"	SDS62405	SDS62405P
3/16"	8"	10"	SDS62406	SDS62406P
3/16"	10"	12"	SDS62407	SDS62407P
7/32"	4"	6-1/4"	SDS62409	SDS62409P
7/32"	6"	8-1/4"	SDS62410	SDS62410P
7/32"	9"	11"	SDS62412	SDS62412P
7/32"	14"	16"	SDS62413	SDS62413P
1/4"	2"	4-1/4"	SDS62414	SDS62414P
1/4"	4"	6-1/4"	SDS62415	SDS62415P
1/4"	6"	8-1/4"	SDS62416	SDS62416P
1/4"	9"	11"	SDS62417	SDS62417P
1/4"	12"	14"	SDS62419	SDS62419P
1/4"	14"	16"	SDS62420	SDS62420P
5/16"	4"	6-1/4"	SDS62421	SDS62421P
5/16"	10"	12"	SDS62422	SDS62422P
3/8"	4"	6-1/4"	SDS62423	SDS62423P
3/8"	8"	10-1/4"	SDS62424	SDS62424P
3/8"	10"	12-1/4"	SDS62425	SDS62425P
3/8"	16"	18"	SDS62426	SDS62426P
3/8"	22"	24"	SDS62427	SDS62427P
7/16"	4"	6-1/4"	SDS62428	SDS62428P
7/16"	10"	12-1/4"	SDS62429	SDS62429P
1/2"	4"	6-1/4"	SDS62430	SDS62430P
1/2"	8"	10-1/4"	SDS62431	SDS62431P
1/2"	10"	12-1/4"	SDS62432	SDS62432P
1/2"	16"	18"	SDS62433	SDS62433P
1/2"	22"	24"	SDS62434	SDS62434P
9/16"	4"	6-1/4"	SDS62435	SDS62435P
9/16"	10"	12-1/4"	SDS62436	SDS62436P
9/16"	16"	18"	SDS62437	SDS62437P
5/8"	4"	6-1/4"	—	SDS62438P
5/8"	6"	8"	—	SDS62439P
5/8"	10"	12"	—	SDS62440P
5/8"	16"	18"	—	SDS62441P
5/8"	22"	24"	—	SDS62442P
11/16"	6"	8"	—	SDS62443P
3/4"	6"	8"	—	SDS62444P
3/4"	10"	12"	—	SDS62445P
3/4"	16"	18"	—	SDS62446P
13/16"	6"	8"	—	SDS62447P
7/8"	6"	8"	—	SDS62448P
7/8"	10"	12-1/4"	—	SDS62449P
1"	8"	10"	—	SDS62450P
1"	16"	18"	—	SDS62452P

Bulk 5/32" - 5/16", 6 per pack,
3/8" to 9/16", 3 per pack

Tube 1 per each

SDS-PLUS CONTRACTOR BULK PACKS				
DRILL DIA.	DRILLING DEPTH	OAL	PKG. QTY	STOCK #
3/16"	4"	6-1/4"	25	HDS624
3/16"	6"	8-1/4"	25	HDS625
1/4"	2"	4-1/4"	25	HDS626
1/4"	4"	6-1/4"	25	HDS627
1/4"	6"	8-1/4"	25	HDS628
1/4"	9"	11"	25	HDS629
5/16"	4"	6-1/4"	25	HDS630
3/8"	4"	6-1/4"	25	HDS631
3/8"	10"	12-1/4"	25	HDS632
1/2"	4"	6-1/4"	15	HDS633
1/2"	10"	12-1/4"	15	HDS634
5/8"	6"	8"	15	HDS635



QTY.	SIZES	STOCK #
5 Pcs.	In plastic case 6-1/4" long drills: 3/16", 1/4", 5/16", 3/8", 1/2"	SDS5



16 PC. SDS-PLUS ROTARY HAMMER DRILL BITS DISPLAY

DISPLAY STOCK # SDSP16						
Contains						
Qty.	Size	Stock #	Qty.	Size	Stock #	
2	3/16" x 8-1/4"	SDS62405P	2	1 1/2" x 12-1/4"	SDS62432P	
2	1 1/4" x 8-1/4"	SDS62416P	2	5/8" x 12"	SDS62440P	
2	3/8" x 10-1/4"	SDS62424P	2	3/4" x 12"	SDS62445P	
2	1 1/2" x 10-1/4"	SDS62431P	2	1" x 10"	SDS62450P	

Each display includes wire rack and header card.



SDS 4x4 Quadro Hammer Drill Bits

**One Piece Solid Carbide Quadro Head
For Small Rotary Hammers
With 4-Slot SDS Drive System**



NEW!

DRILL DIA.	DRILLING DEPTH	OAL	STOCK #	
			BULK	TUBE
3/16"	2"	4-1/4"	SDSQ72401	SDSQ72401P
3/16"	4"	6-1/4"	SDSQ72402	SDSQ72402P
3/16"	6"	8-1/4"	SDSQ72403	SDSQ72403P
3/16"	8"	10-1/4"	SDSQ72404	SDSQ72404P
3/16"	10"	12-1/4"	SDSQ72405	SDSQ72405P
1/4"	2"	4-1/4"	SDSQ72406	SDSQ72406P
1/4"	4"	6-1/4"	SDSQ72407	SDSQ72407P
1/4"	6"	8-1/4"	SDSQ72409	SDSQ72409P
1/4"	8"	10-1/4"	SDSQ72410	SDSQ72410P
1/4"	10"	12-1/4"	SDSQ72411	SDSQ72411P
5/16"	4"	6-1/4"	SDSQ72412	SDSQ72412P
5/16"	10"	12-1/4"	SDSQ72413	SDSQ72413P
5/16"	16"	18-1/4"	SDSQ72414	SDSQ72414P
3/8"	4"	6-1/4"	SDSQ72415	SDSQ72415P
3/8"	10"	12-1/4"	SDSQ72416	SDSQ72416P
3/8"	16"	18"	SDSQ72417	SDSQ72417P
7/16"	4"	6-1/4"	SDSQ72418	SDSQ72418P
7/16"	10"	12-1/4"	SDSQ72419	SDSQ72419P
7/16"	16"	18"	SDSQ72420	SDSQ72420P
1/2"	4"	6-1/4"	SDSQ72421	SDSQ72421P
1/2"	10"	12-1/4"	SDSQ72422	SDSQ72422P
1/2"	16"	18"	SDSQ72423	SDSQ72423P
9/16"	4"	6-1/4"	—	SDSQ72424P
9/16"	10"	12-1/4"	—	SDSQ72425P
9/16"	16"	18"	—	SDSQ72426P

Bulk 3/16" - 1/2", 3 per pack, 9/16" - Individual tubed

Tube 1 per each

SDS 4x4 QUADRO CONTRACTOR BULK PACKS

DRILL DIA.	DRILLING DEPTH	OAL	PKG. QTY	STOCK #
3/16"	4"	6-1/4"	25	SDSQ724
3/16"	6"	8-1/4"	25	SDSQ725
1/4"	2"	4-1/4"	25	SDSQ726
1/4"	4"	6-1/4"	25	SDSQ727
1/4"	8"	10-1/4"	25	SDSQ728
1/4"	10"	12-1/4"	25	SDSQ729
5/16"	4"	6-1/4"	25	SDSQ730
3/8"	4"	6-1/4"	25	SDSQ731
3/8"	10"	12-1/4"	25	SDSQ732
1/2"	4"	6-1/4"	15	SDSQ733
1/2"	10"	12-1/4"	15	SDSQ734

SET

NEW!



QTY.	SIZES	STOCK #
5 Pcs.	In plastic case 6-1/4" long drills: 3/16", 1/4", 5/16", 3/8", 1/2"	SDSQ5

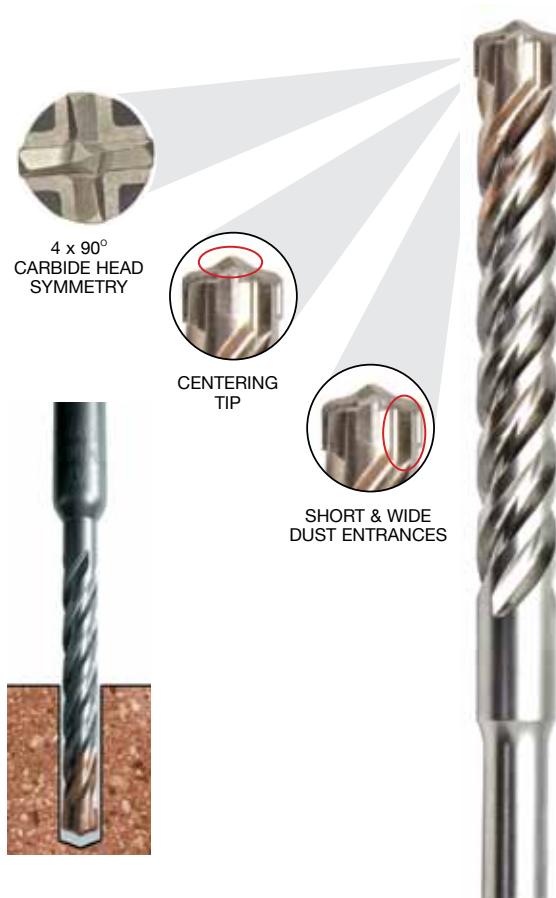
**Solid tip design pulverizes rebar,
avoiding any jamming!**



Made in
Germany

Features:

- SDS 4x4 Quadro features a solid four cutter head design providing optimal drilling performance.
- High temperature vacuum brazing processes ensure proper hardness and strength.
- Centering point provides easy anchor and startup.
- Patented reinforced core and special flute geometry adds strength and reduces vibration.
- Quadro head cuts faster and outperforms all other SDS style drill bits.



SDS 4 x 4 Quadro Hammer Drill Bits

F

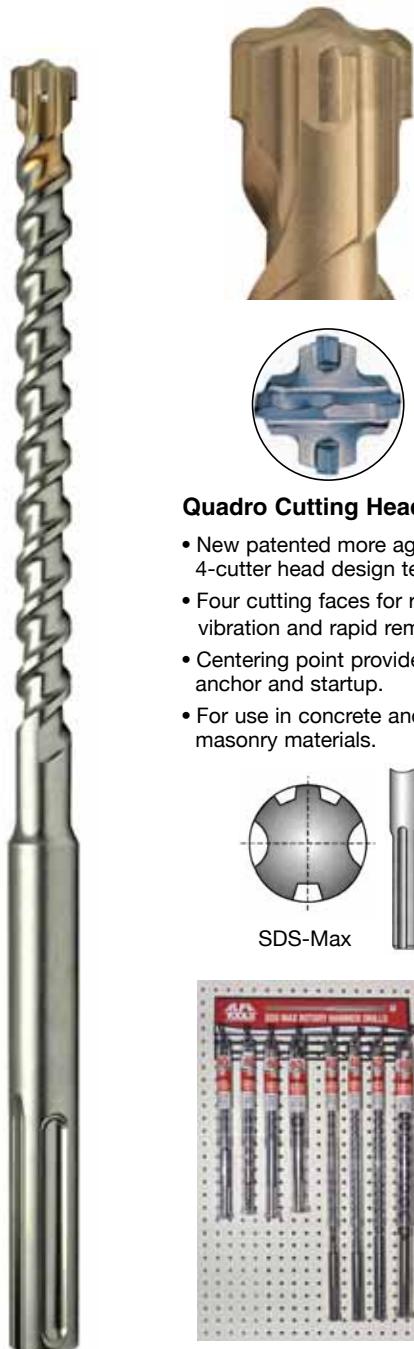


F-7

SDS-Max™ Hammer Drill Bits



**Duo & Quadro Cutting Head
With SDS-Max Drive System
For Large Rotary Hammers
Carbide Tipped**



Quadro Cutting Head

- New patented more aggressive 4-cutter head design technology.
- Four cutting faces for reduced vibration and rapid removal of dust.
- Centering point provides easy anchor and startup.
- For use in concrete and hard masonry materials.



8 PC. SDS-MAX ROTARY HAMMER DRILL BITS DISPLAY

DISPLAY STOCK # SDSM8			
Contains 1 each:			
Size	Stock #	Size	Stock #
1/2" x 13"	SDSM62301	1/2" x 21"	SDSM62303
5/8" x 13"	SDSM62309	5/8" x 21"	SDSM62311
3/4" x 13"	SDSM62317	3/4" x 21"	SDSM62319
1" x 13"	SDSM62329	1" x 21"	SDSM62331

Each display includes wire rack and header card.

Quadro solid tip design pulverizes rebar, avoiding any jamming!

Features:

- Suitable for large rotary hammers with SDS-Max® drive and new large Hilti®, TE-F, TE-FY drive (18mm).
- Patented reinforced core and special flute design adds strength and reduces vibration.
- Highest quality tungsten carbide tips provide extended performance.
- High temperature vacuum brazing with pure copper ensures heavy duty tip capability and withstands hard aggregate shocks.
- Designed for reinforced concrete and the toughest applications in concrete.
- Shot-peened finish.
- Made to ANSI standards.

Expanded

DIA.	DRILLING DEPTH	OAL	STOCK #
			TUBE
DUO CUTTING HEAD			
3/8"	7-1/2"	13"	SDSM62300
1/2"	7-1/2"	13"	SDSM62301
1/2"	12"	17"	SDSM62302
1/2"	15-1/2"	21"	SDSM62303
9/16"	7-1/2"	13"	SDSM62305
9/16"	15-1/2"	21"	SDSM62307
QUADRO CUTTING HEAD			
5/8"	7-1/2"	13"	SDSM62309
5/8"	12"	17"	SDSM62310
5/8"	15-1/2"	21"	SDSM62311
5/8"	30-1/2"	36"	SDSM62313
11/16"	15-1/2"	21"	SDSM62315
3/4"	7-1/2"	13"	SDSM62317
3/4"	12"	17"	SDSM62318
3/4"	17"	21"	SDSM62319
3/4"	31"	36"	SDSM62321
13/16"	17"	21"	SDSM62322
27/32"	17"	21"	SDSM62323
7/8"	8"	13"	SDSM62325
7/8"	12"	17"	SDSM62326
7/8"	17"	21"	SDSM62327
1"	8"	13"	SDSM62329
1"	12"	17"	SDSM62330
1"	17"	21"	SDSM62331
1"	31"	36"	SDSM62333
1-1/16"	18"	23"	SDSM62334
1-1/8"	12"	17"	SDSM62335
1-1/8"	17"	21"	SDSM62337
1-1/4"	10"	15"	SDSM62339
1-1/4"	18"	23"	SDSM62341
1-1/4"	31"	36"	SDSM62343
1-3/8"	18"	23"	SDSM62345
1-1/2"	18"	23"	SDSM62347
1-3/4"	18"	23"	SDSM62349
2"	18"	23"	SDSM62351

Tube 1 per each

Hammer Drill Adaptors

Select Tool Steel



CONVERTER ADAPTOR

Features:

- Manufactured from selected tool steel, precision machined and heat treated for extended life.
- Sturdy design and tight-fitting tolerances allow use in the hardest hitting hammers.
- Smaller diameter drill bits can be used in conjunction with these adaptors in heavy rotary hammer drills.

TYPE	STOCK #
A TAPER SPLINE	ATA62291

A Taper to Spline Drive

1 per pack

QUICK CHANGE ADAPTOR

TYPE	STOCK #
SDS-Plus SPLINE	QCA62296
SDS-Plus SDS-Max™	SDM62294
SPLINE SDS-Max™	SDM62295

SDS-Plus to Spline Drive
SDS-Plus to SDS-Max™
Spline to SDS-Max™

1 per pack

HAMMER DRILL ADAPTOR EXTENSION SYSTEM



HDA2000

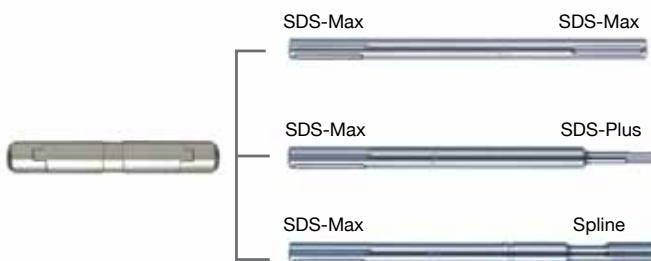
NEW!

DIA.	OAL	STOCK #
1-3/16"	7-1/2"	HDA2000

1 per pack

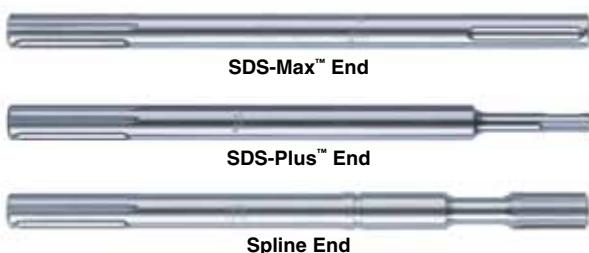
Features:

- Each end has locking SDS-Max input to connect two SDS-Max shanks. Each extension shaft has one SDS-Max end for use with adaptor extension.
- Secure connection with no weak points in the coupling area. Allows for 100% energy transfer from drill motor to the tip of drill bit.
- Extends total length of any SDS-Max drill bit, core bit, concrete cutter, drill head, or chisel.
- Can be combined with all popular chuck systems, reducing tool requirements.



EXTENSION SHAFTS

For use with adaptor



SHANK	OAL	STOCK #
SDS-Max	12-1/2"	HDA2010
SDS-Max	29-1/2"	HDA2020
SDS-Max	43"	HDA2030
SDS-Plus	12-1/2"	HDA2060
SDS-Plus	29-1/2"	HDA2070
Spline	12-1/2"	HDA2080
Spline	29-1/2"	HDA2090

1 per pack

NEW!

Core Cutters for Rotary Hammer Drills

For SDS-Max and Spline Drive Systems
3 Large Spiral Flutes For Fast, Deep Drilling



Features:

- Industrial quality tungsten carbide tipped.
- Copper / Silver brazing of carbide teeth.
- Clean round holes.
- Fast dust removal.
- Fast drilling speeds.
- Suitable for Spline Drive & SDS-Max machines.
- Less vibration.
- ANSI specification.
- Suitable for:
 - Masonry
 - Stone
 - Brick
 - Aggregates



SDS-MAX SHANK CORE CUTTER

NEW!

SIZE		# OF TEETH	STOCK #
DIA.	OAL		
1-1/2"	12-1/4"	4	CCM65001
1-1/2"	22"	4	CCM65002
1-3/4"	12-1/4"	4	CCM65003
1-3/4"	22"	4	CCM65004
1-3/4"	39"	4	CCM65005
2-1/8"	12-1/4"	8	CCM65006
2-1/8"	22"	8	CCM65007
2-1/8"	39"	8	CCM65008
2-1/2"	12-1/4"	8	CCM65009
2-1/2"	22"	8	CCM65010
2-1/2"	39"	8	CCM65011
3-1/8"	12-1/4"	8	CCM65012
3-1/8"	22"	8	CCM65013

1 per pack



SPLINE SHANK CORE CUTTER

NEW!

SIZE		# OF TEETH	STOCK #
DIA.	OAL		
1-1/2"	12-1/4"	4	CCSS66001
1-1/2"	22"	4	CCSS66002
1-3/4"	12-1/4"	4	CCSS66003
1-3/4"	22"	4	CCSS66004
2-1/8"	12-1/4"	8	CCSS66006
2-1/8"	22"	8	CCSS66007
2-1/2"	12-1/4"	8	CCSS66009
2-1/2"	22"	8	CCSS66010
3-1/8"	12-1/4"	8	CCSS66012
3-1/8"	22"	8	CCSS66013

1 per pack

SDS Drill Stop

Carbide Tipped

Made in Germany

Features:

- Built-in stop provides a shoulder for drilling specified depth.
- Prevents hitting reinforcing metals.
- Quickly drill identical size holes.
- Centering tip for accurate hole placement.
- Flute extends into the undercut ring for better dust extraction.
- Provides a cleaner hole.
- Less concrete damage than similar products.



NEW!

DRILL DIA.	DRILLING DEPTH	STOCK #
3/8"	1-1/16"	HAD5015
1/2"	13/16"	HAD5025
1/2"	1-11/16"	HAD5030
5/8"	1-1/16"	HAD5035
5/8"	2-1/16"	HAD5045

1 per pack

Rebar Cutters

Carbide Tipped, 1/2" Straight Shank

For Rotary Use Only

MADE IN
U. S. A.

- Features:**
- Allows user to drill through concrete-embedded rebar.
 - Eliminates need to relocate holes.
 - Prevents breaking or shattering of hammer bits.
 - Use in 1/2" capacity or larger drill motor with a three jaw chuck and no load speed of 440 RPM.



ONE PIECE CUTTER



TWO PIECE CUTTER

ONE PIECE CUTTER

SIZE		SUGGESTED R.P.M.	STOCK #
DIA.	OAL		
3/8"	8"	850-1200	RBC101
1/2"	12"	850-1200	RBC102
9/16"	12"	850-1200	RBC103
5/8"	12"	750-1000	RBC104
5/8"	18"	750-1000	RBC105
11/16"	12"	750-1000	RBC106
3/4"	12"	600-850	RBC107
3/4"	18"	600-850	RBC108
13/16"	12"	600-850	RBC109

1 per pack

One-piece system shanks cannot be removed.

1. When you encounter a rebar, **STOP DRILLING!** The sound of a rotary hammer drill bit hitting steel is very audible compared to cutting concrete. Remove the drill bit from the hole.
2. Mount a rebar cutter of the same diameter as the hole in either a standard 1/2" drill motor or a 1/2" rotary percussion drill with the selector in the "rotary only" position. Insert the rebar cutter into the hole and begin drilling at the suggested RPM speed only. **Do Not Use Excessive Speed on the Machine.** This will either damage or break the rebar cutter.
3. Once rebar is cut through, remove the rebar cutter from the hole and continue drilling with a rotary hammer drill bit.

TWO PIECE CUTTER

SIZE		SUGGESTED R.P.M.	STOCK #
DIA.	OAL		
7/8"	12"	600-850	RBC110
1"	12"	500-750	RBC111
1-1/8"	12"	500-750	RBC112
1-1/4"	12"	450-600	RBC113
1-3/8"	12"	450-600	RBC114
1-1/2"	12"	350-500	RBC115
1-3/4"	12"	350-500	RBC116
2"	12"	350-500	RBC117
2-1/2"	12"	350-500	RBC118

1 per pack

Two-piece system shanks may be combined to achieve a length of 12".

Shanks for 7/8" - 1-3/4" have 1/2" - 13 thread
Shanks for 2" - 2-1/2" have 3/4" - 10 thread

CAUTION: Rebar cutters are problem solvers. They should not be used for drilling concrete.

Rebar Step 1

Hammer Drill



Rebar Step 2

Rebar Drill



Rebar Step 3

Hammer Drill



Core Bits for Rotary Impact Hammer Drills

2 Pc. Taper Extension Type Carbide Tipped



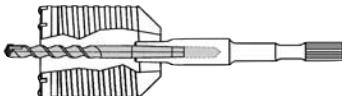
Features:

- Simple to assemble and economical.
- For use with Spline and SDS-Max machines.
- Multiple teeth assure faster cutting and debris evacuation from cutter path.
- Teeth set with negative and positive rakes to cut concrete and screening.
- Tooth edges faced to act as secondary cutter area to reduce snagging on screen or rebar edges.
- Centering bit is necessary for best results.
- For drilling large diameter holes in concrete, rock, artificial stone, and other masonry materials.

PILOT DRILL SHOULD BE REMOVED AFTER CENTERING AND DRILLING UP TO 3/8th DEPTH

SIZE		NUMBER OF TEETH	STOCK #
DIA.	OAL		
1-1/2"	4"	6	HDCD62085
2"	4"	6	HDCD62086
2-1/2"	4"	9	HDCD62087
3-1/8"	4"	9	HDCD62088
3-1/2"	4"	9	HDCD62089
4"	4"	9	HDCD62090
5"	4"	12	HDCD62091

1 per pack



- Extension Adaptor Shanks are manufactured from special impact resistant steel and heat treated for long rugged use.



Spline Shank – HDCD62094



SDS-Max Shank – HDCD62097



Centering Bit – HDA62059



Drift Pin – HDCD62083

2 PC. TAPER ACCESSORIES

DESCRIPTION	PACK	STOCK #
Spline Shank 8-1/2" Long	1	HDCD62094
Spline Shank 17-1/4" Long	1	HDCD62095
SDS-Max Shank 7" Long	1	HDCD62097
SDS-Max Shank 18" Long	1	HDCD62098
Centering Bit For Core Bits 3/8" x 6" Length	1	HDA62059
Drift Pin 5 x 25 mm	1	HDCD62083

2 Pc. Screw-On Extension Type Carbide Tipped



Made in Germany

Features:

- Useable with Spline & SDS-Max machines.
- Multiple teeth assure faster cutting and debris evacuation from cutter path.
- Teeth set with negative and positive rakes to cut concrete and screening.
- Tooth edges faced to act as secondary cutter area to reduce snagging on screen or rebar edges.
- Centering bit must be used with core bit and extension centering bit threads into both pieces.
- Suitable for drilling large diameter holes in concrete, rock, artificial stone and other masonry materials.

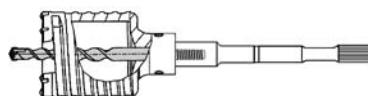
PILOT DRILL REMAINS IN POSITION DURING DRILLING

NEW!

SIZE		NUMBER OF TEETH	STOCK #
DIA.	OAL		
1-3/4"	4"	6	HDCD73050
2"	4"	6	HDCD73051
2-5/8"	4"	6	HDCD73052
3-1/8"	4"	8	HDCD73053
3-1/2"	4"	8	HDCD73054
4"	4"	11	HDCD73055
5"	4"	11	HDCD73056

1 per pack

Note: Part numbers have been changed



- Extension Adaptor Shanks are manufactured from special impact resistant steel and heat treated for long rugged use. Female thread.



Spline Shank – HDCD73057



SDS-Max Shank – HDCD73058



Threaded Centering Bit – HDCA73059

2 PC. SCREW-ON ACCESSORIES

DESCRIPTION	PACK	STOCK #
Spline Shank 7"	1	HDCD73057
SDS-Max Shank 7-3/4"	1	HDCD73058
Threaded Centering Bit For Core Bits 3/8" x 6" Length	1	HDCA73059

SDS-Max™ Core Bits for Rotary Impact Hammer Drills

**1 Pc. Solid Construction
Carbide Tipped**



Features:

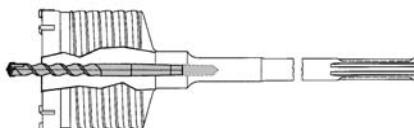
- Simple easy to use 1 Piece Design with centering bit and eject key. Remove centering bit after hole is started for extended bit life.
- Asymmetrical tooth arrangement for faster drilling progress.
- Outer spiral for minimizing friction loss and faster dust extraction.

**REMOVE CENTERING BIT AFTER HOLE IS STARTED
FOR EXTENDED BIT LIFE**

NEW!

SIZE		DRILLING DEPTH	STOCK #
DIA.	OAL		
1-1/2	11-3/8	6-1/4	HDCD9501
1-1/2	22	16-3/4	HDCD9502
1-3/4	11-3/8	6-1/4	HDCD9503
1-3/4	22	16-3/4	HDCD9504
2	11-3/8	6-1/4	HDCD9505
2	22	16-3/4	HDCD9506
2-5/8	11-3/8	6-1/4	HDCD9507
2-5/8	22	16-3/4	HDCD9508
3-1/8	11-3/8	6-1/4	HDCD9509
3-1/8	22	16-3/4	HDCD9510
3-1/2	11-3/8	6-1/4	HDCD9511
3-1/2	22	16-3/4	HDCD9512
4	11-3/8	6-1/4	HDCD9513
4	22	16-3/4	HDCD9514
5	11-3/8	6-1/4	HDCD9515
5	22	16-3/4	HDCD9516
6	22	16-3/4	HDCD9517

1 per pack



Centering Bit – HDA62059

Round Drift Key – HDCD8418

1 PC. TAPER ACCESSORIES

DESCRIPTION	PACK	STOCK #
Centering Bit For Core Bits 3/8" x 6" Length	1	HDA62059
Round 3/8" Drift Key	1	HDCD8418

Chisels for Electric Hammers

Hardened Impact Resistant Steel

Features:

- High performance chisels for electric power tools used in a broad range of applications including road and bridge construction, renovation, demolition, modification of old and new concrete and many other maintenance jobs.
- Shot-peened finish.



Made in Germany



BULLPOINT



FLAT



SCALING



BUSHING HEAD



FLOOR SCRAPER

SPLINE ROTO HAMMERS

SIZE	TYPE	STOCK #
1" x 12"	FLAT	DC63101
1" x 18"	FLAT	DC63103
12"	BULLPOINT	DC63105
18"	BULLPOINT	DC63107
2" x 12"	SCALING	DC63109
BUSHING TOOL		
HEAD 1-3/4" x 1-3/4" SHANK 9-1/4"	DC63112A	

Individually packed

Spline Drive chisels have rounded hex shanks to work effectively in Spline Drive machines.



SDS-MAX SHANK CHISELS

SIZE	TYPE	STOCK #
12"	BULLPOINT	DC63151
18"	BULLPOINT	DC63152
24"	BULLPOINT	DC63157
1" x 12"	FLAT	DC63153
1" x 18"	FLAT	DC63154
1" x 24"	FLAT	DC63156
2" x 12"	SCALING	DC63155
BUSHING TOOL		
HEAD 1-3/4" x 1-3/4" SHANK 9-1/4"	DC63157A	

Individually packed

3/4" HEX SHANK CHISELS

FOR BOSCH DEMO HAMMER 11302-11305;
B&D 5021K; MILWAUKEE 5335

SIZE	TYPE	STOCK #
12"	BULLPOINT	DC63121
18"	BULLPOINT	DC63123
1" x 12"	FLAT	DC63125
1" x 18"	FLAT	DC63127
2" x 12"	SCALING	DC63128
BUSHING TOOL		
HEAD 1-3/4" x 1-3/4" SHANK 9-1/4"	DC63129A	

Individually packed



SDS-PLUS SHANK CHISELS

SIZE	TYPE	STOCK #
10"	BULLPOINT	DC63141
3/4" x 10"	FLAT	DC63142
1-1/2" x 10"	SCALING	DC63143

Individually packed

FLOOR SCRAPER CHISELS

- Suitable for applications in ceramic tile, vinyl flooring, epoxy flooring and tile adhesive.
- Not recommended for prying material.

NEW!

SIZE	SHANK	STOCK #
6" x 25"	SDS-Max	FS1200
6" x 25"	Spline Shank	FS1300
6" x 25"	3/4" Hex	FS1400
Replacement Components for Floor Scraping Chisels		
Replacement Blade		FS1230

Individually packed



1-1/8" HEX SHANK CHISELS

SIZE	TYPE	STOCK #
20"	BULLPOINT	DC63194
1-1/4" x 20"	FLAT	DC63195
3" x 14"	SCALING	DC63196
5" x 17"	ASPHALT CUTTING	DC63197

Individually packed

FOR BOSCH BRUTE 11304; B&D 5027; HITACHI H905SB, H65, H85; MAKITA HM1500B, HM1800; MILWAUKEE 5338

Chisels for Pneumatic Hammers

Hardened Impact Resistant Steel

- Features:**
- High performance chisels for pneumatic hammers.
 - Suitable for demolition of concrete in a wide variety of industries.
 - Can be used in 35lb., 60lb. and 90lb. Class pneumatic hammers.
 - Shot-peened finish.

MADE IN
U. S. A.



FLAT



MOIL



WIDE FLAT



ASPHALT CUTTING



7/8" x 3-1/4"
SHANK CHISELS



SIZE	TYPE	STOCK #
14"	FLAT	DC63161
18"	FLAT	DC63162
24"	FLAT	DC63163
14"	MOIL	DC63164
18"	MOIL	DC63165
24"	MOIL	DC63166
3" x 14"	3" WIDE - 14" long	DC63167
3" x 18"	3" WIDE - 18" long	DC63168
3" x 24"	3" WIDE - 24" long	DC63169
5" x 6"	ASPHALT CUTTING	DC63190

Individually packed

1-1/8" x 6"
SHANK CHISELS

SIZE	TYPE	STOCK #
14"	FLAT	DC63181
18"	FLAT	DC63182
24"	FLAT	DC63183
14"	MOIL	DC63184
18"	MOIL	DC63185
24"	MOIL	DC63186
3" x 14"	3" WIDE - 14" long	DC63187
3" x 18"	3" WIDE - 18" long	DC63188
3" x 24"	3" WIDE - 24" long	DC63189
5" x 6"	ASPHALT CUTTING	DC63193

Individually packed

1" x 4-1/4"
SHANK CHISELS



SIZE	TYPE	STOCK #
14"	FLAT	DC63171
18"	FLAT	DC63172
24"	FLAT	DC63173
14"	MOIL	DC63174
18"	MOIL	DC63175
24"	MOIL	DC63176
3" x 14"	3" WIDE - 14" long	DC63177
3" x 18"	3" WIDE - 18" long	DC63178
3" x 24"	3" WIDE - 24" long	DC63179
5" x 6"	ASPHALT CUTTING	DC63198

Individually packed

1-1/4" x 6"
SHANK CHISELS

NEW!

SIZE	TYPE	STOCK #
14"	FLAT	DC64221
18"	FLAT	DC64222
24"	FLAT	DC64223
14"	MOIL	DC64224
18"	MOIL	DC64225
24"	MOIL	DC64226
3" x 14"	3" WIDE - 14" LONG	DC64227
3" x 18"	3" WIDE - 18" LONG	DC64228
3" x 24"	3" WIDE - 24" LONG	DC64229
5" x 6"	ASPHALT CUTTING	DC64230

Individually packed

Diamond Core Bits

Segmented Core Bits Wet Cutting



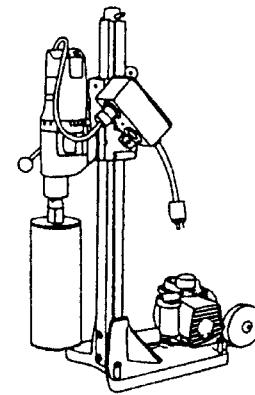
Features:

- Suitable for boring into concrete, marble, granite, asphalt, block, refractories and other hard abrasive materials.
- Core bits have precision aligned built-in adaptors featuring rugged heavy duty steel barrel bodies.
- The SUPREME Core Bit has a higher diamond concentration and is best suited for boring into concrete with hard aggregate and heavy reinforcement.

MADE IN
U. S. A.

SIZE DIA.	THICKNESS	DRILL DEPTH	OAL	THREAD	STOCK #
					SUPREME
1"	.375"	14"	16"	5/8" - 11	CDS1704
1-1/8"	.375"	14"	16"	5/8" - 11	CDS1705
1-1/4"	.375"	14"	16"	5/8" - 11	CDS1706
1-1/2"	.375"	14"	16"	5/8" - 11	CDS1708
1-5/8"	.375"	14"	16"	1-1/4" - 7	CDS1709
1-3/4"	.375"	14"	16"	1-1/4" - 7	CDS1710
2"	.145"	14"	16"	1-1/4" - 7	CDS1520
2.5"	.145"	14"	16"	1-1/4" - 7	CDS1525
3"	.145"	14"	16"	1-1/4" - 7	CDS1530
3.5"	.145"	14"	16"	1-1/4" - 7	CDS1535
4"	.145"	14"	16"	1-1/4" - 7	CDS1540
4.5"	.145"	14"	16"	1-1/4" - 7	CDS1545
5"	.145"	14"	16"	1-1/4" - 7	CDS1550
6"	.145"	14"	16"	1-1/4" - 7	CDS1560
8"	.165"	14"	16"	1-1/4" - 7	CDS1580
10"	.187"	14"	16"	1-1/4" - 7	CDS15100
12"	.187"	14"	16"	1-1/4" - 7	CDS15120
14"	.187"	14"	16"	1-1/4" - 7	CDS15140

1 per pack



Diamond Core Bits

F

Full Crown Core Bits Wet Cutting Diamond Depth .300"



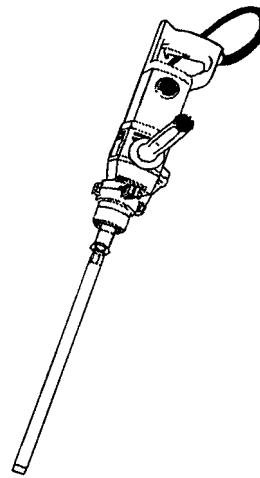
Features:

- Made to tackle jobs that consume segmented bits.
- Fused crown design is perfect for pre-stressed cable or loose rebar and mesh which may cause segment loss.
- The SUPREME Core Bit contains the highest diamond concentration and is suitable for performance in the most difficult materials, especially pre-stressed concrete.

SIZE DIA.	THICKNESS	DRILL DEPTH	OAL	THREAD	STOCK #
					SUPREME
1/2"	.375"	14"	16"	5/8" - 11	CDS1700
5/8"	.375"	14"	16"	5/8" - 11	CDS1701
3/4"	.375"	14"	16"	5/8" - 11	CDS1702
7/8"	.375"	14"	16"	5/8" - 11	CDS1703

1 per pack

Other diameters and lengths are made to order



Diamond Core Bits - Cont.

Segmented Core Bits Dry Cutting



Features:

- The perfect tool for job sites with no water feed.
- Eliminates the hassle and extra time associated with using water-cooled machines.
- Drills clean, neat holes quickly.
- Body vents allow extraction of filled material.
- Useable with any portable / stationary machine.
- Suitable for boring lightweight bricks and blocks only.
Do not use in reinforced concrete.

MADE IN
U. S. A.

SIZE DIA.	DRILL DEPTH	OAL	THREAD	STOCK #
1"	9"	9"	5/8" - 11	CBL1651
1-1/4"	9"	9"	5/8" - 11	CBL1652
1-1/2"	9"	9"	5/8" - 11	CBL1653
1-3/4"	9"	9"	5/8" - 11	CBL1654
2"	9"	9"	5/8" - 11	CBL1655

1 per pack

Thin Wall Marble / Granite Core Bits Continuous Rim Design



Features:

- For precision drilling of holes in tile, marble, granite, stone, concrete block and sanitary brick.
- The continuous rim design makes the holes smooth and clean. These bits fit conveniently in almost any standard electric drill chuck.

SIZE DIA.	DRILL DEPTH	OAL	THREAD	STOCK #
1"	3/8"	2"	4"	CD1670
1-1/4"	3/8"	2"	4"	CD1671
1-3/8"	3/8"	2"	4"	CD1672
1-1/2"	3/8"	2"	4"	CD1673
1-3/4"	3/8"	2"	4"	CD1674
2"	3/8"	2"	4"	CD1675
2-1/2"	3/8"	2"	4"	CD1677
3"	3/8"	2"	4"	CD1679

1 per pack

Diamond Core Bits

F

ACCESSORIES



CB1256



CBSA2



CDCBA

DRY CORE BIT ADAPTERS

Use any electric drill to run your dry core bits. Dry core bit adapters adapt drill chucks to a 5/8" - 11 thread.

CORE BIT EXTENSIONS

DESCRIPTION	STOCK #
6" long, 1-1/4" - 7 thread	CB1256
6" long, 5/8" - 11 thread	CB6256
12" long, 1-1/4" - 7 thread	CB12512
12" long, 5/8" - 11 thread	CB62512

1 per pack

WET CORE BIT SUBADAPTERS

DESCRIPTION	STOCK #
1-1/4" - 7 female thread at top 5/8" - 11 male thread at bottom	CBSA1
5/8" - 11 female thread at top 1-1/4" - 7 male thread at bottom	CBSA2

1 per pack

DESCRIPTION	STOCK #
Adapts 1/2" shank to 5/8" - 11 thread	CDCBA
Adapts 3/8" shank to 5/8" - 11 thread	CDCBA38

1 per pack

Diamond Core Drills

Diamond Drilling / Boring Drills

For Hard Tiles / Ceramics

Features:

- Made of close density diamond particles and are engineered to cut through materials where other bits fail.
- Drills to depths of one-half inch.
- Designed for cutting holes in any hard-to-drill surface, including wall tile, floor tile, glass, porcelain, ceramic and stone.



NEW!

BIT SIZE	HOLE SIZE		SHANK		OAL	DIAMOND GRIT SIZE	STOCK #
	OD	ID	DIA.	LENGTH			
1/8	.13	.07	5/32	1-5/8	2-1/4	60	DD7001
3/16	.19	.12	3/16	2-1/4	2-1/4	60	DD7002
1/4	.26	.19	1/4	2-1/4	2-1/4	60	DD7003
5/16	.32	.25	1/4	1	2-1/4	60	DD7004
3/8	.38	.31	1/4	1	2-1/4	60	DD7005
1/2	.51	.43	1/4	1	2-1/4	60	DD7006
5/8	.63	.54	5/16	1	2-1/4	50	DD7007
3/4	.76	.66	5/16	1	2-1/4	50	DD7008
7/8	.88	.78	5/16	1	2-1/4	50	DD7009
1	1.01	.90	5/16	1	2-1/4	50	DD7010
1-1/8	1.13	1.03	5/16	1	2-1/4	50	DD7011
1-1/4	1.26	1.16	5/16	1	2-1/4	50	DD7012
1-3/8	1.38	1.28	5/16	1	2-1/4	50	DD7013
1-1/2	1.51	1.40	5/16	1	2-1/4	50	DD7014

Individually packaged

Directions for Use – NOT FOR USE ON CONCRETE OR MASONRY

- Diamond drills require adequate water lubrication, proper drill speed, and low drill pressure.
- Improper use can overheat bits, causing heat fractures and/or material breakage.
- Drill-life varies with drilling techniques used and thickness and hardness of material drilled.

NOT FOR USE WITH HAMMER DRILLS

RECOMMENDED DRILL SPEED (RPM)

For Diamond Drilling / Boring Bits

Material	1/8" to 1/2"	5/8" to 1"	1-1/8" to 1-1/2"
Fiberglass	1200	700	525
Glass, Ceramic & China	800	500	375
Limestone & Marble Stone	600	450	325
Ceramic Wall Tile	600	450	325
Porcelain Wall Tile	500	375	275
Porcelain Floor Tile	500	375	275
Granite & Quartz Stone	400	300	225

Glass / Ceramic Drill Bits

Carbide Tipped, Spear Point Drills Tool Steel Body

For Rotary Action Only

Features:

- Unique spear point design.
- Cuts a perfectly round hole.
- Suitable for drilling glass, tile, porcelain and ceramic.
- Slow drilling speeds and lubricants are recommended.
- Steady pressure at 300 to 500 RPM is recommended.



SIZE DIA.	SHANK DIA.	OAL	STOCK #
			HANG-UP TUBE
1/8	7/64	2-7/32	CGD61655P
5/32	7/64	2-1/2	CGD61657P
3/16	9/64	2-1/2	CGD61659P
1/4	11/64	2-9/16	CGD61663P
5/16	7/32	3-3/8	CGD61667P
3/8	1/4	3-1/2	CGD61671P
1/2	5/16	3-1/2	CGD61679P

1 per hang-up tube

5 Pcs. SETS

QTY.	SIZES	STOCK #
5 Pcs.	In plastic case 1/8", 3/16", 1/4", 3/8", 1/2"	CGD61685
Monolock® QUICK CHANGE SYSTEM		
5 Pcs.	In plastic case 1/8", 3/16", 1/4", 3/8", 1/2"	CGDML61985

(ECO PRO) • ECO PRO Glass / Ceramic Drill Bits are made outside the United States to ALFA TOOLS' specifications.

Fluted Rubbing Brick

Fluted Silicon Carbide Rub Bricks with a contoured grip minimizes fatigue for fast and easy concrete smoothening and dressing.



MADE IN
U. S. A.

SIZE	GRIT	STOCK #
6 x 3 x 1	20	RB620
8 x 3-1/2 x 1-1/2	20	RB820

1 per pack

Wire Wheels Brushes Files & Rasps

G



WIRE WHEELS & BRUSHES

- Crimped & Knotted Wire Cup Brushes . . . G1
- Crimped & Knotted Wire End Brushes . . . G2
- Crimped Wide Face Wire Wheel Brushes . . G2
- Crimped Wire Wheels & Brushes G3
- Wire Wheel Threaded Adaptors. G3
- Wire Wheels. G4
- NEW!** Wire Wheels & Brushes Merchandiser . . . G5
- NEW!** Scratch Brushes G5



FILES & RASPS

- NEW!** American Pattern Files & Rasps G6-12
- NEW!** File Grips G10
- NEW!** File Sets & Merchandiser. G11
- Swiss Pattern Files & Sets. G12

Crimped & Knotted Wire Cup Brushes

Balanced • Industrial Applications • Professional Quality



Spain

CRIMPED WIRE CUP BRUSHES

Brass Coated

Features:

- Heavy duty cup brushes with anchor adapters and threads.
- Our unique arbor adapters allow selection of correct arbor size 5/8"-11 or M10 x 1.25 system.
- Used for roughening, deburring, cleaning, removal of rust, paint or any kind of adherent.

NEW!

DIA.	WIRE SIZE	ARBOR HOLE	TRIM LENGTH	MAX. RPM	PKG / BOX	STOCK #
2-3/8"	0.012"	5/8"-11 Threaded	3/4"	11000	1	WB67168G

- Has a protective guard for increased safety.



WB67168G

DIA.	WIRE SIZE	ARBOR HOLE	TRIM LENGTH	MAX. RPM	PKG / BOX	STOCK #
2-3/8"	0.012"	5/8"-11 Threaded	3/4"	11000	1	WB67171
3-1/4" Stainless*	0.012"	5/8"-11 Threaded	1-3/16"	8500	1	WB67174SS
4"	0.012"	5/8"-11 Threaded	1-3/16"	8500	1	WB67172
5"	0.012"	5/8"-11 Threaded	1-9/16"	8500	1	WB67173

*Stainless steel wire is used to reduce discoloration "WB67174SS (3-1/4") wheel is stainless steel and corrosion on stainless and aluminum alloys.



Crimped & Knotted Wire Cup Brushes

KNOTTED WIRE CUP BRUSHES

Single Row

Features:

- The heavy duty twist knot wire cup brushes with anchor adapters and threads.
- Our unique arbor adapters allow selection of correct arbor size 5/8"-11 or M10 x 1.25 system.
- Used for brushing large surfaces with an aggressive cutting action.

NEW!

DIA.	WIRE SIZE	ARBOR HOLE	TRIM LENGTH	MAX. RPM	PKG / BOX	STOCK #
2-3/8"	0.012"	5/8"-11 Threaded	3/4"	15000	1	WB67180G

- Has a protective guard for increased safety.



WB67180G

Expanded						
DIA.	WIRE SIZE	ARBOR HOLE	TRIM LENGTH	MAX. RPM	PKG / BOX	STOCK #
2-3/8" Stainless*	0.020"	5/8"-11 Threaded	3/4"	15000	1	WB67180SS
2-3/8"	0.020"	5/8"-11 Threaded	3/4"	15000	1	WB67181
3-1/4" Stainless*	0.020"	5/8"-11 Threaded	1"	8500	1	WB67184SS
4"	0.020"	5/8"-11 Threaded	1-3/16"	8500	1	WB67182
5"	0.020"	5/8"-11 Threaded	1-9/16"	6000	1	WB67183
6"	0.020"	5/8"-11 Threaded	1-3/8"	6000	1	WB67184

*Stainless steel wire is used to reduce discoloration and corrosion on stainless and aluminum alloys.

*WB67180SS (2-3/8") and WB67184SS (3-1/4") are stainless steel



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G-1

Crimped & Knotted Wire End Brushes

Balanced • Industrial Applications • Professional Quality



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CRIMPED WIRE END BRUSHES

Features:

- Small diameter end brushes are designed for use in restricted or hard to reach areas.
- Excellent for carbon cleaning, finishing for appearance or finish preparation prior to painting or plating.

Expanded



BRUSH DIA.	GRADE	WIRE SIZE	SHANK SIZE	PKG	STOCK #	
					BULK	CLAMSHELL
1/2"	Coarse	0.008"	1/4"	10	WB67117	WB67117C
	Fine	0.020"	1/4"	10	WB67118	WB67118C
3/4"	Coarse	0.008"	1/4"	10	WB67119	WB67119C
	Fine	0.020"	1/4"	10	WB67120	WB67120C
1"	Coarse	0.008"	1/4"	10	WB67121	WB67121C
	Fine	0.020"	1/4"	10	WB67122	WB67122C

Clamshell 1 per hang-up clamshell

KNOTTED WIRE END BRUSHES

Features:

- For hard to reach places.
- Applications include cleaning cylinder heads, pistons and valve ports, removal of rust, scale, paint, tool polishing, weld cleaning, etc.

Expanded



DIA.	WIRE SIZE	SHANK SIZE	TRIM LENGTH	MAX RPM	PKG / BOX	STOCK #
3/4"	0.020"	1/4"	1"	20000	1	WB67179
1"	0.020"	1/4"	1"	20000	1	WB67175
1" Stainless*	0.020"	1/4"	1"	20000	1	WB67176

*WB67176 (1") is stainless steel

CRIMPED WIDE FACE WIRE WHEEL BRUSHES

with multi-adapter arbor hole

Features:

- Dense, high quality, tempered crimped wire construction.
- General purpose brush for bench or pedestal grinders.
- Heavy duty, used for surface processing of metal, rubber, wood, plastic, glass, etc.



DIA.	WIRE SIZE	ARBOR HOLE	TRIM LENGTH	FACE WIDTH	MAX RPM	PKG	STOCK #
6"	0.012"	Multi-Adapter	1-1/8	3/4	6500	1	WB67151
8"	0.012"	Multi-Adapter	1-5/8	1-1/16	4500	1	WB67153
10"	0.012"	Multi-Adapter	2-5/8	1-1/8	3600	1	WB67154

Wheels have telescopic bushing 1/2" - 2"

Crimped Wire Wheels & Brushes

Balanced • Industrial Applications • Professional Quality



Spain

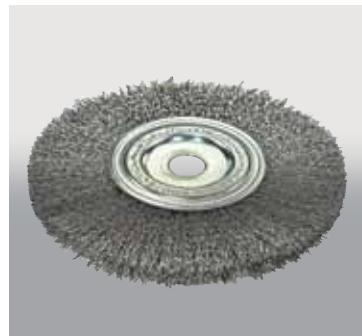
CRIMPED WIRE WHEELS

Features:

- All steel construction assures maximum safety and reliability.
- Applications include deburring, blending, removal of rust, scale, dirt, and finish preparation prior to painting or plating.

DIA.	BORE SIZE	GRADE	WIRE SIZE	MAX RPM	PKG / BOX	STOCK #	
						BULK	CLAMSHELL
3"	1/2"	Coarse	0.012"	4500	10	WB67131	WB67131C
	1/2"	Fine	0.008"	4500	10	WB67132	WB67132C
4"	1/2"	Coarse	0.012"	4500	10	WB67133	WB67133C
	1/2"	Fine	0.008"	4500	10	WB67134	WB67134C
6"	1/2" - 5/8"	Coarse	0.012"	4500	5	WB67137	WB67137C
	1/2" - 5/8"	Fine	0.008"	4500	5	WB67138	WB67138C

Clamshell 1 per hang-up clamshell



CRIMPED WIRE WHEELS

BRUSH DIA.	GRADE	WIRE SIZE	SHANK SIZE	MAX RPM	PKG / BOX	STOCK #	
						BULK	CLAMSHELL
1-1/2"	Coarse	0.012"	1/4"	6000	10	WB67101	WB67101C
	Fine	0.008"	1/4"	6000	10	WB67102	WB67102C
2"	Coarse	0.012"	1/4"	6000	10	WB67103	WB67103C
	Fine	0.008"	1/4"	6000	10	WB67104	WB67104C
3"	Coarse	0.012"	1/4"	6000	10	WB67105	WB67105C
	Fine	0.008"	1/4"	6000	10	WB67106	WB67106C
4"	Coarse	0.012"	1/4"	4500	10	WB67107	WB67107C
	Fine	0.008"	1/4"	4500	10	WB67108	WB67108C

Clamshell 1 per hang-up clamshell



CRIMPED WIRE CUP BRUSHES

BRUSH DIA.	GRADE	WIRE SIZE	SHANK SIZE	PKG / BOX	MAX RPM	STOCK #	
						BULK	CLAMSHELL
2"	Coarse	0.012"	1/4"	10	5000	WB67111	WB67111C
	Fine	0.008"	1/4"	10	5000	WB67112	WB67112C
3"	Coarse	0.012"	1/4"	10	5000	WB67113	WB67113C
	Fine	0.008"	1/4"	10	5000	WB67114	WB67114C

Clamshell 1 per hang-up clamshell



WIRE WHEEL THREADED ADAPTORS

Features:

- Convert 5/8"-11 arbor holes to metric M10.
- Adaptors fit both cup and wheel brushes.

DIMENSIONS		PKG.	STOCK #
5/8"-11 to M10 x 1.25		10	WB67093
5/8"-11 to M10 x 1.50		10	WB67094



Crimped Wire Wheels & Brushes

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G-3

Wire Wheels

Balanced • Industrial Applications • Professional Quality



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KNOTTED WIRE WHEELS

Features:

- Designed for tough applications.
- This high impact action wheel features a quick mount nut and all steel hub construction.
- Excellent for heavy duty cleaning of rust, scale, weld splatter, plastic, rubber, etc.

Expanded



DIA.	WIRE SIZE	ARBOR HOLE	TRIM LENGTH	FACE WIDTH	MAX RPM	PKG / BOX	STOCK #
4" Stainless*	0.020"	5/8"-11	3/4"	1/2"	15000	1	WB67159SS
4"	0.020"	5/8"-11	3/4"	1/2"	15000	1	WB67160
6"	0.020"	5/8"-11	3/8"	1/2"	9000	1	WB67161

*Stainless steel wire is used to reduce discoloration and corrosion on stainless and aluminum alloys.

*WB67159SS (4") is stainless steel

STRINGER BEAD WIRE WHEELS

Features:

- High impact wheel for stringer bead cleaning.
- Rugged construction, precision balanced.
- For use on pipe fabrication, brushing expansion joints & narrow grooves.

GENERAL PURPOSE

Expanded



DIA.	WIRE SIZE	ARBOR HOLE	NO. OF KNOTS	KNOT WIDTH	TRIM LENGTH	MAX RPM	PKG / BOX	STOCK #
4"	0.020"	5/8"-11	32	1/4"	1-3/8"	9000	1	WB67190
4" Stainless*	0.020"	5/8"-11	32	5/16"	1-3/8"	9000	1	WB67191
6"	0.020"	5/8"-11	50	1/4"	1-3/8"	9000	1	WB67192
6-7/8"	0.020"	5/8"-11	56	1/4"	1-3/8"	9000	1	WB67199

*WB67191 (4") is stainless steel

Features:

- The high performance, heavy duty (HD) wheels are popular in the oil and gas industries, providing 2-3 times better life.

HEAVY DUTY

NEW!

4-1/2"	0.020"	5/8"-11	36	1/4"	2"	9000	1	WB67196
6"	0.020"	5/8"-11	56	1/4"	1-3/8"	9000	1	WB67197
6-7/8"	0.020"	5/8"-11	76	1/4"	1-3/8"	9000	1	WB67200



PAVEMENT JOINT WIRE WHEEL

Features:

- Used to repair cracks in bridges, airport runways and other concrete and asphalt applications.
- Fits walk-behind concrete cutting saws.

NEW!

DIA.	WIRE SIZE	ARBOR HOLE	TRIM LENGTH	FACE WIDTH	MAX RPM	PKG / BOX	STOCK #
12"	0.31"	1"	3-1/8"	3/8"	6000	1	WBPJ12

Wire Wheels & Brushes Merchandiser

72 Pc. Wire Wheels and Brushes Display



Features:

- Most popular wire wheels and wire brushes for every purpose in handy hang-up package.
- Each display includes wire rack and header card.

NEW!

DESCRIPTION – STOCK # WBM72	
72 Pc. planogram contains 3 each:	
Cup Brushes – 1/4" Shank	Wire Wheels – 1/2" Bore
2" Coarse WB67111C	3" Coarse WB67131C
2" Fine WB67112C	3" Fine WB67132C
3" Coarse WB67113C	4" Coarse WB67133C
3" Fine WB67114C	4" Fine WB67134C
Wire Wheels – 1/4" Shank	Wire End Brushes – 1/4" Shank
1-1/2" Coarse WB67101C	1/2" Coarse WB67117C
1-1/2" Fine WB67102C	1/2" Fine WB67118C
2" Coarse WB67103C	3/4" Coarse WB67119C
2" Fine WB67104C	3/4" Fine WB67120C
3" Coarse WB67105C	1" Coarse WB67121C
3" Fine WB67106C	1" Fine WB67122C
4" Coarse WB67107C	
4" Fine WB67108C	

Scratch Brushes



WB67143



Plastic Handle

TYPE	DIMENSIONS	STOCK #
Crimped Steel Wire	10-1/4" x 5" x 1-1/4"	WB67141
Stainless Steel	10-1/4" x 5" x 1-1/4"	WB67142
Crimped Brass Wire	10-1/4" x 5" x 1-1/4"	WB67143

5 per pack

High wire density for a higher brushing pressure. Narrow shape allows easy access into slots. Available in carbon steel, stainless steel and brass wire. Ergonomic handle and slight bending at the tip make these brushes the ideal tool for use on any kind of surface – metal, masonry and wood.

ACID BRUSHES



Horsehair brush with tin handle
for cleaning & coating.

NEW!

TYPE	DIMENSIONS	STOCK #
Horsehair Brush Tin Handle	6-1/8" x 7/16" x 7/8"	AB74061
Horsehair Brush Tin Handle	6-1/8" x 9/16" x 7/8"	AB74062

144 per pack

Hardwood Handle

TYPE	TRIM LENGTH	WIRE ROWS	DIMENSIONS	STOCK #
Steel Wire	1-1/8"	3 x 19	15/16" x 6" x 13-3/4"	WB67194
Stainless Wire	1-1/8"	3 x 19	15/16" x 6" x 13-3/4"	WB67195
Long hardwood handle scratch brush with slightly curved handle designed for heavy duty cleaning.				

SMALL (Toothbrush Type)

.006 Stainless Wire	7/16"	3 x 7	7/16" x 7-1/2"	WB67193
Toothbrush-style scratch brush makes a great welder's tool that can be used for a wide variety of cleaning applications.				

Long handle - 10 per pack

Toothbrush type - 100 per pack

WELDING TOOTHBRUSHES



Plastic handle with hang up hole.

NEW!

TYPE	OAL	WIDTH	TRIM LENGTH	STOCK #
Brass	7-1/4	3/8	7/16	WB67210
Stainless Steel	7-1/4	3/8	7/16	WB67212

36 per pack



American Pattern Files & Rasps



SCHMIDT Professional Quality

FLAT FILES

Shape: Rectangular in cross section and tapers towards the point in width. Double cut on both sides, single cut on edges.

Usage: Used primarily in plants, machine shops and garages where rapid stock removal of iron and metal is called for.



			STOCK #		
LENGTH	SIZE	BOX QTY.	BASTARD CUT	SECOND CUT	SMOOTH CUT
6"	5/8" x 5/32"	12	F65001A	F65006A	F65011A
8"	13/16" x 7/32"	12	F65002A	F65007A	F65012A
10"	1" x 1/4"	12	F65003A	F65008A	F65013A
12"	1-3/16" x 9/32"	6	F65004A	F65009A	F65014A
14"	1-3/8" x 5/16"	6	F65005A	F65010A	—

HAND FILES

Shape: Edges parallel in width and tapered slightly in thickness. Double cut, one safe (uncut) edge.

Usage: For work on high alloy tool steels. The safe (uncut) edge allows filing right up to corners.



			STOCK #		
LENGTH	SIZE	BOX QTY.	BASTARD CUT	SECOND CUT	SMOOTH CUT
6"	5/8" x 5/32"	12	F65001	F65006	F65011
8"	13/16" x 7/32"	12	F65002	F65007	F65012
10"	1" x 1/4"	12	F65003	F65008	F65013
12"	1-3/16" x 9/32"	6	F65004	F65009	F65014
14"	1-3/8" x 5/16"	6	F65005	F65010	—

MILL FILES

Shape: Rectangular shape. Tapers slightly in width. Sides and edges are single cut.

Usage: Most commonly used file for a multitude of applications. It is suitable for sharpening various types of saws and tools, draw filing, and finishing metals. A Mill File is similar to a Flat File except a Mill is single cut and a Flat is double cut.



			STOCK #		
LENGTH	SIZE	BOX QTY.	BASTARD CUT	SECOND CUT	SMOOTH CUT
4"	29/64" x 5/64"	12	F65015	F65016	F65017
6"	5/8" x 1/8"	12	F65087	F65092	F65097
8"	13/16" x 7/32"	12	F65088	F65093	F65098
10"	1" x 3/16"	12	F65089	F65094	F65099
12"	1-3/16" x 7/32"	6	F65090	F65095	F65100
14"	1-11/32" x 1/4"	6	F65091	F65096	F65101

ALUMINUM FILES

Shape: Rectangular in cross section and tapers towards the point in width. Double cut on both sides, and single cut on edges.

Usage: Fast cutting tooth design for use on aluminum and other soft metals.



LENGTH	SIZE	BOX QTY.	STOCK #
6"	5/8" x 5/32"	12	F65221
8"	13/16" x 7/32"	12	F65222
10"	1" x 1/4"	12	F65223
12"	1-3/16" x 17/64"	6	F65224

DIAMOND CUT FLAT FILES

A very versatile tool. The exclusive Diamond Cut design features two sets of chip breakers which form a diamond pattern.

Achieve almost any finish required by simply changing feed pressure. Coarse teeth remove metal faster while the chip breakers leave a smooth finish.

Shape: Rectangular in cross section and tapers towards the point in width. Double cut on both sides, single cut on edges.

Usage: Used primarily in plants, machine shops and garages where rapid stock removal of iron and metal is called for.



LENGTH	SIZE	BOX QTY.	STOCK #
			BASTARD CUT
6"	5/8" x 5/32"	12	F65001DC
8"	13/16" x 7/32"	12	F65002DC
10"	1" x 1/4"	12	F65003DC
12"	1-3/16" x 9/32"	6	F65004DC

DIAMOND CUT HALF ROUND FILES

Shape: The Diamond Cut features on the flat side and the "Spiral" cut on the half round side, tapering towards the point in width.

Usage: This combination offers rapid stock removal and smooth finishes on either flat or concave surfaces.



LENGTH	SIZE	BOX QTY.	STOCK #
8"	3/4" x 7/32"	12	F65049DC
10"	15/16" x 9/32"	12	F65050DC
12"	1-1/8" x 11/64"	6	F65051DC

American Pattern Files & Rasps



SCHMIDT Professional Quality

HALF ROUND FILES

Shape: Rounded on one side and flat on the opposite. Both sides are double cut and taper towards the point in width.

Usage: The half round side makes this file ideal for rounding out holes. Also used on concave, convex and flat surfaces.



LENGTH	SIZE	BOX QTY.	STOCK #		
			BASTARD CUT	SECOND CUT	SMOOTH CUT
6"	5/8" x 5/32"	12	F65048	F65053	F65058
8"	3/4" x 7/32"	12	F65049	F65054	F65059
10"	15/16" x 9/32"	12	F65050	F65055	F65060
12"	1-1/8" x 11/32"	6	F65051	F65056	F65061
14"	1-5/16" x 13/32"	6	F65052	F65057	F65062

ROUND FILES - "RAT TAILS"

Shape: Tapers slightly towards the point.

Usage: Primarily used to enlarge circular holes, moldings, concave surfaces and rounded grooves. Tapered point adapts to numerous hole sizes.



LENGTH	SIZE	BOX QTY.	STOCK #		
			BASTARD CUT	SECOND CUT	SMOOTH CUT
4"	3/16"	12	F65019	—	—
6"	1/4"	12	F65020	F65025	F65030
8"	5/16"	12	F65021	F65026	F65031
10"	3/8"	12	F65022	F65027	F65032
12"	1/2"	6	F65023	F65028	F65033
14"	5/8"	6	F65024	—	—

ALL PURPOSE (HANDY) FILE - Farmers' Own



Shape: One side double cut for fast stock removal and one side single cut for smoother finishing. One edge single cut and one edge safe (uncut).

Usage: Has many purposes such as sharpening hoes, lawn mower blades, sharpening metals and smoothening plastics.



LENGTH	SIZE	BOX QTY.	STOCK #
8"	5/32" x 15/16"	12	F65191
10"	5/32" x 15/16"	6	F65191A

KNIFE FILES



Shape: Knife blade shaped, double cut on both sides, single cut on the knife edge with safe back (uncut).

Usage: Features a long wedge section for working in slots. Primarily used by tool & die makers dealing with acute angles.



LENGTH	SIZE	BOX QTY.	STOCK #		
			BASTARD CUT	SECOND CUT	SMOOTH CUT
6"	21/32" x 5/32"	12	F65078	F65081	F65084
8"	27/32" x 3/16"	12	F65079	F65082	F65085
10"	1-1/32" x 1/4"	12	F65080	F65083	F65086

SQUARE FILES



Shape: The cross-section is square. It is double cut and tapers towards the point.

Usage: For filing square holes, slots, keyways, inside corners and general surface filing. All four sides are equal filing surfaces.



LENGTH	SIZE	BOX QTY.	STOCK #		
			BASTARD CUT	SECOND CUT	SMOOTH CUT
6"	1/4"	12	F65063	F65068	F65073
8"	5/16"	12	F65064	F65069	F65074
10"	3/8"	12	F65065	F65070	F65075
12"	1/2"	6	F65066	F65071	F65076
14"	5/8"	6	F65067	F65072	F65077

THREE SQUARE FILES



Shape: Triangular tapered files, double cut on both sides and single cut on edges. Angles are 60° and taper towards the point.

Usage: For use in corners and holes, filing angles, taps and cutters.



LENGTH	SIZE	BOX QTY.	STOCK #		
			BASTARD CUT	SECOND CUT	SMOOTH CUT
6"	1/2"	12	F65035	F65040	F65044
8"	5/8"	12	F65036	F65041	F65045
10"	3/4"	12	F65037	F65042	F65046
12"	27/32"	6	F65038	F65043	F65047

American Pattern Files & Rasps



SCHMIDT Professional Quality

WOOD RASPS - FLAT



Shape: Rasp cut on both sides and single cut on the edges. Width tapers towards point.

Usage: Used extensively by cabinet makers, leather workers, and aluminum craftsmen. Bastard cut.



Expanded

LENGTH	SIZE	BOX QTY.	STOCK #
8"	13/16" x 9/32"	12	F65230
10"	1" x 11/32"	12	F65231
12"	1-3/16" x 13/32"	6	F65232
14"	1-3/16" x 1/4"	6	F65233

WOOD RASPS - HALF ROUND



Shape: Rasp cut on both sides and single cut on edges. Tapers from heel to point in both width and thickness.

Usage: Useful for curved and flat wood or soft metal. Used by cabinet makers and furniture craftsmen.



LENGTH	SIZE	BOX QTY.	STOCK #
8"	13/16" x 5/16"	12	F65136
10"	1" x 13/32"	12	F65137
12"	1-3/16" x 15/32"	6	F65138

FARRIER RASP FILE



Shape: Flat with rasp cut on one side and file cut on opposite side. Single cut on edges.

Usage: Used by blacksmiths and farriers (horseshoers) for racetrack and riding horses. Rasp teeth shape the hoof, while file teeth are used for finishing nails and shoes.



NEW!

LENGTH	SIZE	BOX QTY.	STOCK #
14"	1-51/64" x 13/64"	6	F65039

PIPELINER FILES - HALF ROUND



Shape: Rounded on one side and flat on the opposite side.

Usage: For filing weld beads and scaling from pipe. Can be used on convex, concave and flat surfaces.



NEW!

LENGTH	SIZE	BOX QTY.	STOCK #
14"	1-1/4" x 11/32	6	F65109

CABINET RASPS - HALF ROUND



Shape: Rasp cut on flat and rounded sides with single cut edges. Has a larger radius than a regular Half Round File.

Usage: Primarily used by cabinet makers, woodworkers, leather and aluminum workers.



LENGTH	SIZE	BOX QTY.	STOCK #
8"	15/16" x 1/4"	12	F65201
10"	1-1/8" x 9/32"	12	F65202
12"	1-5/16" x 11/32"	6	F65203

SHOE RASP (Four-in-Hand)



Shape: One side half round with 1/2 rasp cut and 1/2 double cut. Other side flat with 1/2 rasp cut and 1/2 double cut.

Usage: An all-around file used by homeowners, hobbyists, blacksmiths, leather and aluminum workers, etc.



LENGTH	SIZE	BOX QTY.	STOCK #
8"	7/8" x 7/32"	12	F65192
10"	1-1/16" x 9/32"	12	F65193

CHAIN SAW FILES - ROUND



Parallel with special teeth for fast and smooth sharpening of chain saws.



LENGTH	SIZE	BOX QTY.	STOCK #
6"	5/32" (4.0mm)	12	F65150
6"	1/8" (3.2mm)	12	F65151
8"	7/32" (5.5mm)	12	F65152

CHAIN SAW FILES - FLAT

Shape: Rectangular with two round edges and parallel sides. Single cut. Edges are safe (uncut).

Usage: For sharpening the flat portion of chain saws.



NEW!

LENGTH	SIZE	BOX QTY.	STOCK #
6"	5/8" x 1/8"	12	F65112
8"	13/16" x 9/64"	12	F65113

American Pattern Files & Rasps



SCHMIDT Professional Quality

TAPER SAW FILES

Shape: Triangular in shape and tapered towards the point.

Usage: For filing all types of saws with 60° angle teeth.

Single cut edges set and cut for filing gullets between saw teeth. (Single cut sides for hand filing, Double cut sides for use on Saw Filing Machines.)

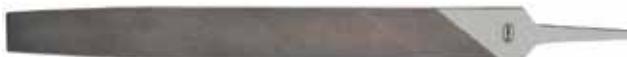


LENGTH	TYPE	SIZE	BOX QTY.	STOCK #
5"	Regular	7/16"	12	F65140
6"	Regular	1/2"	12	F65141
7"	Regular	9/16"	12	F65142
5"	Slim	5/16"	12	F65143
6"	Slim	3/8"	12	F65144
7"	Slim	7/16"	12	F65145
5"	Extra Slim	7/32"	12	F65146
6"	Extra Slim	9/32"	12	F65147
7"	Extra Slim	11/32"	12	F65148

LONG ANGLE LATHE FILES

Shape: Tapered in width towards point. Single cut with two safe (uncut) edges.

Usage: Designed for all metals to achieve a smooth finish.



LENGTH	SIZE	BOX QTY.	STOCK #
10"	1" x 1/4"	12	F65186
12"	1-3/16" x 17/64"	6	F65187
14"	1-23/64" x 19/64"	6	F65188

MILLED CURVED TOOTH FILES

Shape: Rectangular with parallel sides & two safe (uncut) edges.

Usage: For smoothing curved metal surfaces. Used in autobody shops, machine shops, railroad and airport maintenance.



LENGTH	T.P.I.	BOX QTY.	STOCK #
FLAT RIGID With TANG			
8"	15	12	F62234
10"	12	12	F62235
12"	10	6	F62236
FLAT FLEXIBLE Without TANG			
8"	15	12	F62237
10"	12	12	F62238
12"	10	6	F62239

BENT BODY FILES

Shape: File tapers towards the end.

Usage: Commonly used in the automotive industry for metal finishing and repair work.



NEW!

LENGTH	SIZE	TPI	BOX QTY.	STOCK #
14"	1-5/16" x 7/32"	13	6	F65331
14"	1-21/64" x 7/32"	20	6	F65332

BODY BUMPING - FLAT FILES

Shape: File tapers towards the end.

Usage: Commonly used in the automotive industry for metal finishing and repair work.



NEW!

LENGTH	SIZE	BOX QTY.	STOCK #
14"	1-3/8" x 1/4"	6	F65334

BODY BUMPING - HALF ROUND FILES

Shape: File tapers towards the end.

Usage: Commonly used in the automotive industry for metal finishing and repair work.



NEW!

LENGTH	SIZE	BOX QTY.	STOCK #
14"	1-3/8" x 3/8"	6	F65335

MILL BLUNT FILES - TWO ROUND EDGES

Shape: Rectangular with two round edges and parallel sides.

Usage: Used for sharpening mill and circular saws, as well as draw-filing and finishing metals.



NEW!

LENGTH	SIZE	BOX QTY.	STOCK #		
			BASTARD CUT	SECOND CUT	SMOOTH CUT
6"	5/8" x 1/8"	12	F65240	F65246	F65252
8"	13/16" x 9/64"	12	F65242	F65248	F65254
10"	1" x 3/16"	12	F65244	F65250	F65256
12"	1-13/64" x 7/32"	6	F65245	F65251	F65257

American Pattern Files & Rasps



Laminate and Solid Surface Files

FAST MILL FILES

Shape: Rectangular in cross section. Single cut on both sides for precision cutting.

Usage: Laminating files are designed specifically for maximum performance on laminates. Good for edge finishing on plastics and gives a smooth finish.



NEW!

LENGTH	SIZE	BOX QTY.	STOCK #
8"	3/4" x 1/8"	12	F65301
10"	1" x 9/64"	12	F65302
12"	1-1/8" x 11/64"	6	F65303

RAPID CROSS-CUT FILES

Shape: Rectangular in cross section. Double cut for fast material removal.

Usage: Fastest cut file for a wide range of plastics, laminates and other soft materials.



NEW!

LENGTH	SIZE	BOX QTY.	STOCK #
8"	3/4" x 1/8"	12	F65311
10"	1" x 9/64"	12	F65312
12"	1-1/8" x 11/64"	6	F65313

DUAL FILE WITH HANDLE

Shape: Double cut on one side for fast filing and single cut on reverse side for precision cutting. One safe edge.

Usage: Designed for excellent edge filing of laminates. Long handle for comfort grip during use.



NEW!

LENGTH	SIZE	BOX QTY.	STOCK #
8"	3/4" x 1/8"	12	F65321
10"	1" x 9/64"	12	F65322
12"	1-1/8" x 11/64"	6	F65323



File Grips

Regular Plastic, Hardwood, Comfort Grip and Soft Grip Handle

REGULAR GRIP



COMFORT GRIP



NEW!

Plated ferrule, ideal for needle files and chain saw files.

SOFT GRIP



NEW!

Soft grip handle comes with five inserts to fit sizes 6" to 14" files.

SIZE	STOCK #
PLASTIC HANDLE	
4"	F65171
6" - 8"	F65172
10" - 14"	F65173

6 per pack

SIZE	STOCK #
HARDWOOD HANDLE	
4" - 6"	F65181
6" - 8"	F65182
8" - 10"	F65183
10" - 14"	F65184

6 per pack

DESCRIPTION	STOCK #
HARDWOOD HANDLE	
Length x Dia. 2-1/4" x 1-3/8" 1/8" Bore 3/4" Depth	F65185

6 per pack

DESCRIPTION	STOCK #
DUAL COMPONENT HANDLE	
Length 4-3/4"	F65170

1 per pack

File Sets • Merchandiser



An Assortment of Pouched Files with Handles

- Professional quality files.
- Handles have a convenient hang-up hole and are in a handy storage pouch.

32 Pc. MERCHANDISER

NEW!

DESCRIPTION	STOCK #
32 Pc. Assorted Merchandiser with 4 each of the pouched files listed below on a 8 prong display.	FWD32
POPULAR SELECTION OF OPEN STOCK POUCHEO FILES WITH HANDLES	
10" Bastard Flat	F65003AHP
10" Bastard Half Round	F65050HP
10" Bastard Round	F65022HP
10" Bastard Mill	F65089HP
10" Smooth Knife	F65086HP
8" Bastard Three Square	F65036HP
10" Bastard Wood Rasp	F65137HP
10" Farmers own handy file	F65191AHP

Pouched files are also available individually.

MOST POPULAR SIZES



STOCK # FWD32



6 Pc. KEY FILE KIT

- 6 basic mini files, 4" long in a convenient hang-up plastic case.
- Popular with locksmiths, mechanics and the electronic trades.
- Available in sets only.

NEW!

DESCRIPTION	STOCK #
6 Pc. kit contains one each: Flat File Hand File Round File Half Round Square Three Square	F65161HS



DIAMOND NEEDLE FILE SETS

220 Grit

PIECES PER SET	DESCRIPTION	STOCK #
5	5-1/2" OAL	F65197
10	5-1/2" OAL	F65198

4 Pc. PROFESSIONAL FILE KIT

- A file for every purpose. Four of the most popular files in a handy hang-up pouch.
- All files come with handles ready to use.

NEW!



DESCRIPTION	STOCK #
4 Pc. kit contains one each:	
8" Mill Bastard	F65088H
6" Slim Taper	F65144H
6" Round Bastard	F65020H
8" Half Round Rasp	F65136H



DIAMOND POINT SET

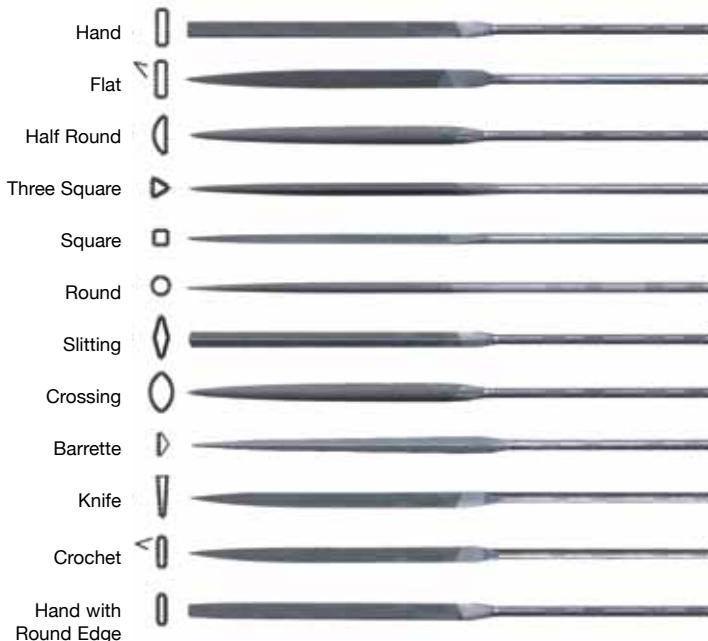
PIECES PER SET	DESCRIPTION	STOCK #
20	In Plastic Index Case 1/8" Shank	F65199

Swiss Pattern Files

Individual Files



- Swiss Pattern Needle Files are primarily used by jewelers, watchmakers and fine tool and die makers.
- These are the finest detail files available.
- Available in Coarse (#0) or Medium (#2) cuts.
- They are also offered in a 12 Pcs. Set.



STYLE	OAL	CUT	STOCK #
INDIVIDUAL FILES			
HAND	6-1/4"	2	F62251
FLAT	6-1/4"	2	F62252
HALF ROUND	6-1/4"	0	F62253
HALF ROUND	6-1/4"	2	F62254
THREE SQUARE	6-1/4"	2	F62255
SQUARE	6-1/4"	2	F62256
ROUND	6-1/4"	2	F62257
SLITTING	6-1/4"	0	F62258
CROSSING	6-1/4"	2	F62259
BARRETTE	6-1/4"	2	F62260
KNIFE	6-1/4"	0	F62261
CROCHET	6-1/4"	2	F62262
HAND WITH ROUND EDGE	6-1/4"	0	F62265

12 per pack

Set contains 1 each of the following styles:
Hand, Flat, Half Round, Three Square, Square,
Round, Slitting, Crossing, Barrette, Knife,
Crochet and Hand with Round Edge.



12 Pcs. FILE WALLET SET

DESCRIPTION	STOCK #
#0 CUT — COARSE	F65158
#2 CUT — MEDIUM	F65159



H

Shop Aids, Gages, Safety Products



Shop Aids

Measuring Tapes.....	H2
Precision Tri Squares	H2
Utility Knives	H3
Drywall / Jabsaw.....	H3
<small>NEW!</small> Dead-Blow Hammers	H3



Gages

Drill Gages.....	H4
Thread Pitch Gages	H4
Radius Gage Blade Sets.....	H4
Radius Gage Sets	H4



Safety Products

Dust Masks	H5
<small>NEW!</small> Valved Respirators	H5
Eye Protection.....	H5
<small>NEW!</small> Safety Goggles	H5
Knee Pads.....	H5
Hearing Protection	H5

H

STEEL TAPE

With Acrylic Coating



MT64443



MT64441Y

Features:

- Durable, sturdy housing.
- Bright yellow blade with black numbers and graduations for easy reading.
- 16" on center printed in red for fast, precise stud locating.
- Triple riveted blade tip.
- Convenient belt clip.

BLADE LENGTH	BLADE WIDTH	COLOR	STOCK #
16'	3/4"	Chrome	MT64442
		Yellow	MT64442Y
25'	1"	Chrome	MT64441
		Yellow	MT64441Y
30'	1"	Chrome	MT64443
		Yellow	MT64443Y

Each tape on hang up card

Tri Squares

ALL STEEL PRECISION TRI SQUARES



Features:

- Made from high quality tool steel.
- Squares have true right angles inside and outside.
- Beams and blades are precision ground.
- Blade is hardened.
- Length of the blade is measured from inner edge of the beam to end of the blade.

BLADE LENGTH	BEAM LENGTH	STOCK #
2"	1-1/2"	TS10153
3"	2-1/2"	TS10154
4"	3"	TS10155
6"	4"	TS10156
9"	6"	TS10157
12"	8"	TS10158

1 per pack

Utility Knives

Retractable Solid Die Cast Body

Taiwan



UK67047

UK67049

- Features:**
- Suitable for cutting and scoring a wide variety of materials, such as fiberboard, wallboard, matboard, cardboard, corkingboard, roofing, linoleum, carpet, plasterboard, veneers, etc.
 - Instantly opens to any one of three different cutting positions.
 - Blade retracts into handle for safety.
 - Includes 3 retractable blades in storage handle.
 - Blades are manufactured from heavy duty alloy steel.



DESCRIPTION	STD. PACK	STOCK #	
		BULK	CARDED
Heavy Duty Retractable Utility Knife with 3 reversible blades	12	UK67047	UK67047C
Spare Blades	100	UK67048	-
Heavy Duty Quick Release, Ergonomic Retractable Utility Knife with 3 reversible blades	12	UK67049	UK67049C

Drywall / Jabsaw

Taiwan



UK64051

- Features:**
- Aggressive blade.
 - Ergonomic handle.

- Applications:**
- Roughing in drywall.
 - Cutting out HVAC & electrical openings.
 - Used by drywall Contractors, Electricians, Plumbers, HVAC.

BLADE LENGTH	STOCK #
6"	UK64051

1 per pack



Utility Knives • Drywall / Jabsaw • Dead-Blow Hammers

Dead-Blow Hammers

Soft Faced, Shot Loaded Durable Polyurethane

Taiwan



DBH35

- Features:**
- Steel-reinforced construction in a durable non-marring polyurethane covering.
 - Does not absorb liquids.
 - No sparks.
 - Steel shot movement in head prevents rebound.
 - Impact resistant.
 - Ergonomic handle.

NEW!

HAMMER WEIGHT	FACE DIA.	HEAD LENGTH	OAL	STOCK #
1 lb.	1.46"	3.58"	11.02"	DBH01
2 lb.	2.17"	4.49"	13.58"	DBH02
3 lb.	2.36"	4.80"	14.76"	DBH03
3.5 lb.	2.56"	5.43"	15.16"	DBH35

1 per pack

DRILL GAGES



DG63051



DG63056

Features:

- Drill gages made of high quality steel and finished.
- Offer a quick and accurate checking of drill and rod sizes.

SIZES	STOCK #
Fractional Sizes 1/16" to 1/2" by 64ths	DG63051
Fractional Sizes 1/2" to 1" by 64ths	DG63056
Number Sizes #1 - #60	DG63052
Number Sizes #61 - #80	DG63053
Letter Sizes A - Z	DG63054
Metric Sizes 1mm - 13mm x 0.5mm	DG63055

THREAD PITCH GAGES

MADE IN
U. S. A.



TPG63043



TPG63041

Features:

- Blades are of a narrow leaf design to permit their use in determining pitch for inside as well as outside screw threads.
- Each blade marked with proper thread size.
- Locking device at each end.

NO. OF BLADES	TPI RANGE	STOCK #
51	4 - 84	TPG63041
28	4 - 80	TPG63042
22	9 - 40	TPG63043
28	0.25 - 2.50 mm	TPG63044

1 per pack

RADIUS GAGE BLADE SETS WITH HOLDER



RG6



RG7

Features:

- Each gage marked with size.
- Each gage has 5 measuring surfaces for convex and concave radii.

NO. OF BLADES	DESCRIPTION	STOCK #
8	9/16" to 1" by 16ths	RG5
25	1/64" to 17/64" by 64ths 9/32" to 1/2" by 32nds	RG6
26	Metric 0.5mm - 13mm by 0.5mm	RG7
25	.010 - .100 by .050 .120 - .220 by .20 .240 - .500 by .50	RG8

1 per pack

Pitch Gage Range

Unified 60°	51 Blades included: 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82 and 84
Unified 60°	28 Blades included: 4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40, 44, 48, 56, 64, 72 and 80
Unified 60°	22 Blades included: 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38 and 40
Metric Gauge	28 Blades included: .25, .30, .35, .40, .45, .50, .55, .60, .65, .70, .75, .80, .85, .90, 1.00, 1.10, 1.20, 1.25, 1.30, 1.40, 1.50, 1.60, 1.70, 1.75, 1.80, 1.90, 2.00 and 2.50

RADIUS GAGE SETS



RG1



RG4

Features:

- Used for measuring concave and convex surfaces.
- Each gage has concave and convex radii.
- Size stamped on each leaf.
- Any of the leaves can be securely locked in desired position by locking screw.
- Burr-free smooth radius throughout.

NO. OF BLADES	RADIUS RANGE	STOCK #
16	1/32" to 17/64" by 64ths	RG1
16	9/32" to 33/64" by 64ths	RG2
32	17/64" to 1/2" by 64ths	RG4

1 per pack



DUST MASK



- Features:**
- Self-support cup design.
 - Designed for economy and comfort.
 - Offer relief only from irritating effects of common nuisance levels of dust such as alfalfa, pollen, animal dander and other nuisance level particles.

Note: Nuisance level refers to concentrations below the OSHA Permissible Exposure Limit (PEL). Do not use if the concentration levels are above the PEL.

STOCK # CSP110 5 per pack/poly bag
CSP113 50 pcs./carton

VALVED RESPIRATORS



NIOSH N95
respirators
with valve

NEW!

- Features:**
- Extremely efficient filtration against solid and liquid aerosols that do not contain oil.
 - Meets NIOSH N95 standards.
 - Exhalation valve releases hot air and makes breathing easier.
 - Protruded wings eliminate staple holes in mask.
 - Foam lining on nose for comfort.

STOCK # CSP105 10 per box

SAFETY GOGGLES

Chemical splash goggles

FITS OVER
PRESCRIPTION
GLASSES!



NEW!

- Features:**
- Durable polycarbonate lens for added protection.
 - Indirect ventilation and side shields protect against chemical splashes, dust and impact.
 - Fits over prescription glasses.
 - Soft, flexible vinyl frame and nose bridge for maximum comfort.
 - ANSI compliant.

STOCK # CSP115 Individually poly bagged

KNEE PADS

NON-MARRING KNEE PADS



- Features:**
- Cap attached with grommets.
 - Black hard PVC cup.
 - Black polyester webbing.
 - Two 1-1/2" adjustable Velcro® straps.

STOCK # CSP102 Individually poly bagged

EYE PROTECTION



FITS OVER
PRESCRIPTION
GLASSES!

- Features:**
- Ultra-soft perforated vinyl frame for comfort and ventilation.
 - Injection-molded frame with clear lens for superior clarity and protection.
 - Heavy duty head strap keeps goggles firmly in place.

STOCK # CSP111 Individually poly bagged

HEARING PROTECTION



- Features:**
- Superior noise reduction; NRR rated at 23 decibels.
 - Fiberglass headband has superior "memory" for a consistently safe and comfortable fit.
 - Independently adjustable ear cups for important sizing flexibility.
 - Soft foam filled cushions wrap around the edge of the ear for the most comfort.
 - Meets ANSI standard S3.19-1974 and can be used in 95% of all industrial noise situations.
 - Safety yellow color.

STOCK # CSP112 Individually poly bagged

Aerosol Cross-Reference Chart

ALFA CHEM	CONTAINER	CRC M-1	SPRAY-ON	LPS	JET-LUBE	BOSTIK NEVERSEEZ DYMON RAINBOW	CROWN	FEL-PRO PERMATEX LOCTITE
ALL-PURPOSE LUBRICANT								
SLM195173	12 OZ.	03005	S00711	00116	37341	04403 DY098	7340	81204
PENETRATING OIL								
AL200	16 OZ.	03006	S00103	00216	39541	DY159 PM140	6030	51221 80031, 68DA
RUST PROTECTOR								
AL300	16 OZ.	03282	S00333	00316	13241	—	—	51211 26579
HEAVY DUTY DEGREASER								
AL550	20 OZ.	03095	S00748	01420	—	87000 04305	8260	51227
MOLY DRY FILM LUBRICANT								
LA750	16 OZ.	03084	S002000	02516	16041	DY105	6080	51026 24378
DRY GRAPHITE								
LA850	16 OZ.	—	S00204	—	—	—	8078	—
SILICONE LUBRICANT								
LA900	16 OZ.	03030	S00416	01516	—	DY404 PM160	8034	81246
WHITE LITHIUM GREASE								
LA012	16 OZ.	03080	S00100	03816	50341	PM200	7037	—



I

Aerosol Cross-Reference Chart



Lubricants

- | | |
|---|-----|
| Megacut® Threading & Cutting Fluid | I 2 |
| Mega FoamCut® Threading & Cutting Foam .. | I 3 |
| Megacut® Dri-Lube | I 4 |



Anti-Seize Compounds

- | | |
|---------------------------------|-----|
| Alfa Chem® Premium Copper | I 4 |
| Alfa Chem® Premium Nickel | I 4 |



Adhesives

- | | |
|---|-----|
| Thread Lockers | I 5 |
| <small>NEW!</small> Anaerobic Adhesives/Retaining Sealants .. | I 6 |
| Anaerobic Adhesives/Pipe Sealants | I 6 |



Adhesive Compounds

- | | |
|--|-----|
| Superbond Instant Adhesive. | I 7 |
| Superbond Instant Adhesive Additives. | I 8 |
| Spray Adhesives | I 8 |



Lubricant Aerosols

- | | |
|---|-----|
| Alfa Chem® Dry Moly Lube | I 9 |
| Alfa Chem® Dry Graphite Lube | I 9 |
| Alfa Chem® Silicone Lubricant | I 9 |
| Alfa Chem® White Lithium (EP) Grease..... | I 9 |



Maintenance Aerosols

- | | |
|--------------------------------------|------|
| Alfa Chem® Penetrating Oil..... | I 10 |
| Alfa Chem® Rust Protector | I 10 |
| Alfa Chem® Heavy Duty Degreaser..... | I 10 |



Cleaning & Polishing

- | | |
|--|------|
| <small>NEW!</small> Metalglas Cleaner & Polisher | I 10 |
|--|------|



MEGACUT® Threading & Cutting Fluid

MADE IN
U. S. A.



MEGACUT® threading and cutting fluid formulation is specially engineered for efficient, close tolerance cutting. It is used on ALL METALS and with great ease on difficult-to-machine aerospace alloys, aluminum and titanium. It is stable at elevated temperatures and withstands pressure beyond the yield point of any known metal.

- Safe and odorless.
- Meets and exceeds OSHA requirements.
- Contains no 1,1,1 Trichloroethane, Sulphur or Carbon Tetrachloride.
- Dramatically extends tool life.
- Controls chip form.
- Refrigerates while it lubricates.
- Will not stain metal workpiece.
- Helps in achieving precision finish and close tolerances.
- Meets Military Spec. MIL-STD-767.



☆☆☆ USDA ☆☆☆
Certified for use in machine shops associated with the meat and poultry inspection program

MEGACUT® SPRITZER

Spray directly at application point – using 4 oz. spritzer bottle.



STOCK # TF7041

MEGACUT® THREADING & CUTTING FLUID

SIZE	CASE QTY.	CASE WEIGHT	STOCK #		
			BULK	CARDED	COUNTER DISPLAY
1 oz.	24	3 lbs.	TF7001	TF7001C	TF7024
4 oz.	12	4 lbs.	TF7004	—	—
16 oz.	12	13 lbs.	TF7016	—	—
1 gal.	4	33 lbs.	TF7028	—	—
5 gal.	2	42 lbs.	TF7640	—	—
4 oz. Spritzer	12	4 lbs.	TF7041	—	—

Bulk Shipped in case quantity
Card 1 per card

24 Pc. Counter Display 1 per box



Now a Threading & Cutting Foam that Cools While it Lubricates!

- ◆ **MAXIMUM VERSATILITY** – Use with confidence on ferrous and nonferrous metals, including inconel and hastalloy.*
- ◆ **MAXIMUM APPLICATIONS** – Ideal for tapping, drilling, reaming, boring, milling, broaching and trepanning.
- ◆ **MAXIMUM EFFICIENCY** – Precise application, provides long contact time with tooling.
- ◆ **MAXIMUM EFFECTIVENESS** – Promotes longer tool life and better finish.
- ◆ **MAXIMUM LUBRICITY** – Unique chemical cooling of the workpiece and tool.

*Not for use on titanium or where chloride is harmful.



MEGA FOAMCUT® SPRITZER

Spray directly at application point — using 2 oz. aerosol can.



STOCK # TF8002

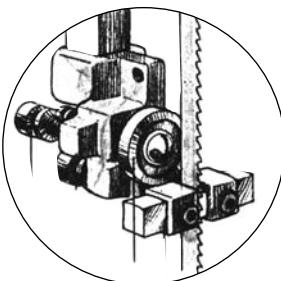
MEGA FOAMCUT® THREADING & CUTTING FOAM

SIZE	CASE QTY.	CASE WT.	STOCK #
2 oz.	12	3 Lbs.	TF8002
8 oz.	12	8 Lbs.	TF8008
17 oz.	12	17 Lbs.	TF8017



MEGACUT® Dri-Lube

MADE IN
U. S. A.



A completely organic lubricating and polishing wax compound produces smoother, cleaner cutting and grinding action.

Natural
Organic



Excellent for use on cutting tools where liquid coolants or lubricants are not recommended.

- Improves cutting.
- Increases tool life.
- Speeds operation.
- Available in a jar and convenient push bottom tube packaging – No spills.
- Use on metal, wood, composites, plastics.

DESCRIPTION	CASE QTY.	STOCK #
8 oz. Tube	12	DL08
12 oz. Jar	12	DL12



Anti-Seize Compounds

MADE IN
U. S. A.



ALFA CHEM® PREMIUM COPPER ANTI-SEIZE

A premium copper/graphite blend anti-seize specifically formulated for high temperature applications.

Benefits:

- Contains no class 1 ozone depleting chemicals.
- Enables faster disassembly when repairs are needed – even after exposure to high temperatures (range -297° to 2,000°F).

Applications:

- Superior anti-seize and extreme pressure lubricant formulated to protect metal parts against rust, corrosion and seizure.

Features:

- Meets specification ASTMD-2783 for extreme pressure properties (32,000 psi) and conforms to MIL-A-907E.

UNIT SIZE	DESCRIPTION	CASE QTY.	STOCK #
8 oz.	Brush Top Can	12	ASC08
1 lb.	Brush Top Can	12	ASC16



ALFA CHEM® PREMIUM NICKEL ANTI-SEIZE

A premium nickel/graphite blend anti-seize specifically formulated for extreme temperatures. This anti-seize also provides excellent chemical resistance.

Benefits:

- Contains no class 1 ozone depleting chemicals.
- Offers the same pressure resistance, corrosion and seizure protection as regular copper grade.

Applications:

- Recommended where applications prohibit the presence of copper and stronger resistance to corrosive acidic and caustic solutions is required.

Features:

- Temperature range -297° to 2,600°F.
- Meets specification ASTMD-2783 for extreme pressure properties (32,000 psi) and conforms to MIL-A-907E.

UNIT SIZE	DESCRIPTION	CASE QTY.	STOCK #
8 oz.	Brush Top Can	12	ASC09
1 lb.	Brush Top Can	12	ASC17



Thread Lockers

MADE IN
U. S. A.

ADHESIVE SEALANTS

Contains no ozone depletion chemicals • Anaerobic • Quick Performing • Single Component

THREAD LOCK TL SERIES

These anaerobic resins are designed for applications where specific viscosities, strengths, and cure speeds are necessary. The **Thread Lock TL Series** prevents vibration loosening while locking and sealing threaded assemblies and metal parts. They distribute

the load over the entire engagement length of the assembly, greatly reducing or completely eliminating fastener and material fatigue. **Thread Lock** significantly reduces production cost while enhancing the reliability of the finished assembly.



**THREAD
LOCK SERIES**
Locks/seals threaded fasteners

SERIES	ITEM	COLOR	SIZE	STOCK #	
				10 ml.	250 ml.
TL22	Small Screw Thread Locker	Purple	10 ml.	TL2210	
			50 ml.	TL2250	
			250 ml.	TL22250	
TL42	Removable Thread Locker	Blue	10 ml.	TL4210	
			50 ml.	TL4250	
			250 ml.	TL42250	
TL43	Removable Thread Locker	Blue	10 ml.	TL4310	
			50 ml.	TL4350	
			250 ml.	TL43250	
TL62	Permanent Thread Locker	Red	10 ml.	TL6210	
			50 ml.	TL6250	
			250 ml.	TL62250	
TL71	Adhesive Sealant	Red	10 ml.	TL7110	
			50 ml.	TL7150	
			250 ml.	TL71250	
TL90	Wicking Grade Thread Locker	Green	10 ml.	TL9010	
			50 ml.	TL9050	
			250 ml.	TL90250	

10 ml. and 50 ml., 10 per case
250 ml., 4 per case



SERIES	ITEM	SPECIFICATIONS						CROSS REFERENCE LOCTITE
		COLOR	GAP	VISCOSITY	SHEAR STRENGTH	TEMP RANGE	CURE SPEED	
TL22	Small Screw Thread Locker	Purple	.006	1200 cps MT	800 psi	-65 to 350° F	10 min.	222
		Meets MIL-S-46163A, Type II, Grade M						
TL42	Removable Thread Locker	Blue	.006	1200 cps MT	1000 psi	-65 to 350° F	10 min.	242
		General purpose threadlocking material for nuts, bolts and screws. Prevents vibration loosening and is removable with hand tools. Meets MIL-S-46163A, Type II, Grade N						
TL43	Removable Thread Locker	Blue	.008	5000 cps MT	1200 psi	-60 to 350° F	10 min.	243
		Medium strength threadlocker with a high viscosity. Offers improved oil resistance, larger diameter fasteners, and is removable.						
TL62	Permanent Thread Locker	Red	.005	3500 cps MT	3000 psi	-65 to 350° F	10 min.	262
		High strength threadlocking material primarily used on Grade 5 and 8 fasteners Resists harsh environments and impact. Meets MIL-S-46163A, Type II, Grade O						
TL71	Adhesive Sealant	Red	.007	500 cps MT	2900 psi	-65 to 350° F	10 min.	271
		High strength threadlocking material used where extreme shock, vibration, and/or environmental conditions are present. Used on fasteners up to 1" in diameter. Meets MIL-S-46163A, Type II, Grade K						
TL90	Wicking Grade Thread Locker	Green	.003	12 cps LT	780 psi	-60 to 350° F	10 min.	290
		High strength, wicking grade threadlocker. Ideal for post application to preassembled fasteners. Secures screws and bolts & seals welds and porous metal parts. Meets MIL-S-46163A, Type III, Grade R						



Anaerobic Adhesives / Retaining Sealants

RETAINING COMPOUND

MADE IN
U. S. A.

RETAINING COMPOUND greatly enhances the reliability and performance properties of cylindrical, non-threaded assemblies.

- The easy-to-use compound fills all the voids between the parts, increasing the overall strength of the assembly by 2 to 3 times that of the original press fit.
- There is only 20 to 30 percent actual metal contact between the surfaces, even in the best press fit applications.
- Eliminates the need for other retaining and locking devices such as keyways, set screws, tapers, splines, knurls, etc.
- Allows for more relaxed machine tolerances, resulting in lower assembly costs and an easier assembly process.

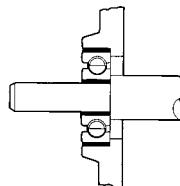


PACK DETAILS	PACK QTY.	STOCK #
50 ml. tube (1.69 oz.)	10 per pack	RC5020
250 ml. tube (8.45 oz.)	4 per pack	RC25020
50 ml. tube (1.69 oz.)	10 per pack	RC5080
250 ml. tube (8.45 oz.)	4 per pack	RC25080

NEW!



SERIES	ITEM	COLOR	TEMP RANGE	VISCOSITY	PRESSURE
RC20	High Strength High Temperature Retaining Compound	Green	-65 to 450°	8500 cps	4000 psi
RC80	High Strength For Slip Fitted Parts	Green	-65 to 450°	1400 cps	4200 psi



Anaerobic Adhesives / Sealants

MADE IN
U. S. A.

PIPE SEALANTS WITH TEFLON®

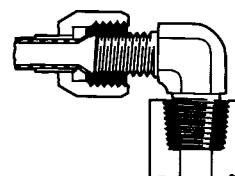
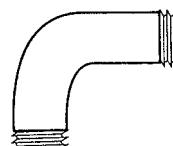
PIPE SEALING COMPOUND is a premium Teflon® enhanced compound which provides superior sealing for most threaded metal or plastic pipe.

- Prevents leaks and seals most common fluids and gases, including fuels, oils, water, refrigerants, steam and inert gases.
- Non-hardening formula will not crack, shred or contaminate most systems.

- Eases assembly and disassembly of metal and plastic fittings.
- Seals to bursting pressure of pipe and is rated to 10,000 psi.
- Not recommended for potable water systems or for use in oxygen service.
- Product safe for incidental food contact.

PACK DETAILS	PACK QTY.	STOCK #
50 ml. tube (1.69 oz.)	10 per pack	PS050192
250 ml. tube (8.45 oz.)	4 per pack	PS250192
4 oz. brush in cap can		PS10701
8 oz. brush in cap can	12 per pack	PS10702
16 oz. brush in cap can		PS10706

- Color: White
- Temperature Range: -65°F - 400°F
- Pressure: 10,000 psi





Adhesive Compounds

MADE IN
U. S. A.

CONTAINS NO OZONE DEPLETION CHEMICALS



SUPERBOND INSTANT ADHESIVES

- Anaerobic • Quick Performing • Single Component
(6 months shelf-life)

ITEM	SIZE	CASE QTY.	STOCK #
RP5 Penetrating capillary action adhesive	1 oz.	5	RP501
	1 lb.	1	RP516
RP30 General Purpose Instant Adhesive Gap Fill: .004 - .006	1 oz.	5	RP301
	1 lb.	1	RP316
RP100 For Plastic, Rubber, Vinyl adhesion Gap Fill: .006	1 oz.	5	RP1001
	1 lb.	1	RP1016
RP1500 Gap Filling high viscosity adhesive suitable for leather, paper, fabrics and porous surfaces Gap Fill: .008	1 oz.	5	RP1501
	1 lb.	1	RP1516
HP1000 For high stress applications such as high temperature, vibration, and impact resistance Gap Fill: .008	1 oz.	5	HP1001
	1 lb.	1	HP1016
TS2400 Bonds plastics, rubber and metals. Excellent vibration, impact, and temperature resistance Gap Fill: .008	1 oz.	5	TS2401
	1 lb.	1	TS2416
M100 Metal Bond instant adhesive. Best for aligning parts up to 10 seconds	1 oz.	5	M1001
	1 lb.	1	M1016
SI120 For wood, PVC, EPDM, and other difficult substrates to bond Gap Fill: .006	1 oz.	5	SI120
	1 lb.	1	SI126
GEL For rubber and plastics Excellent gap filler Gap Fill: .010	20 gram tube	5	RPGEL20

Features:

- Creates fast, strong bonds on porous and smooth surfaces in seconds.
- Single component instant adhesives – no mixing or clamping.
- More time and cost efficient than riveting, soldering and brazing.
- Safe to use – non-flammable.
- Suitable for bonding rubber, plastic, metal, wood and many other surfaces.
- 5 to 25 second initial set time, full strength in 24 hours.
- Industrial strength adhesives for strong, permanent bonds.
- Choose from different viscosities for a wide variety of applications.

SPECIFICATIONS

CHARACTERISTICS	RP5	RP30	RP100	RP1500	HP1000	TS2400	M100	SI120	GEL
Color	Clear	Clear	Clear	Clear	Black	Clear	Clear	Clear	Clear
Viscosity (cps)	5	30	100	1500	1000	2400	100	120	Paste
Base	Ethyl	Ethyl	Ethyl	Ethyl	Modified	Ethyl	Methyl	Ethyl	Ethyl
Strength (psi)	2700/4200	2800/4200	2800/4300	2500/4200	3500	3300	2700/4000	2800/4300	2500
Temperature Range (°F)	-65 to 180	-65 to 180	-65 to 180	-65 to 180	-65 to 220	-65 to 225	-65 to 180	-65 to 180	-65 to 180
Cure Speed (sec.) (Fixture)	5 sec.	15 sec.	15 sec.	25 sec.	35 sec.	45 sec.	10 sec.	15 sec.	45 sec.
Full Cure (hr.)	24 hr.	24 hr.	24 hr.	24 hr.	24 hr.	24 hr.	24 hr.	24 hr.	24 hr.
Mil A 46050 C	Type II Class 1	Type II Class 1	Type II Class 2	Type II Class 3	-	-	Type I Class 2	Type II Class 2	-
Specific Gravity	1.05	1.05	1.05	1.10	1.06	1.10	1.10	1.05	1.10
Soluble in	ADHESIVE DEBONDER								
Cross Reference Loctite	420	495	414	416	380	380 / 410	496	-	409
Perma bond	101 / 260	105	102 / 262	200	-	-	910	-	-



Superbond® Instant Adhesive Additives

MADE IN
U. S. A.

QUICK-TAC ACCELERATOR

FOR FASTER CURING

When faster setting speeds are desired, Quick-Tac will aid the curing process and give exceptionally faster set times. It is also useful when bonding acidic surfaces as in low humidity conditions promoting consistent curing times.



POLY PREP PRIMER

FOR BONDING DIFFICULT SURFACES

This primer is used on difficult to bond surfaces. These surfaces include Polyethylene, Polypropylene, certain elastomers, and other difficult to bond substrates. It can be applied by brushing, spraying, or parts can be dipped prior to assembly.

ADHESIVE DEBONDER

FOR REMOVING ADHESIVE RESIDUE

This unique product easily removes adhesives from applied parts, workstations, assembly tools and skin. Apply and wipe off with a damp cloth in 30 seconds. Repeat as necessary.

ITEM	SIZE	STOCK #
QuickTac II	2 oz. 8 oz.	QT202 QT208
QuickTac IV	2 oz. 8 oz.	QT402 QT408
Poly Prep	2 oz.	PP102
Remover Debonder	2 oz.	AD200

10 per case

SPECIFICATIONS

	Quick-Tac II	Quick-Tac IV	PolyPrep Primer	Remove Debonder
Color	Clear / Amber	Clear	Amber / Brown	Clear / Amber
Base	Acetone	Heptane	Acetone	Nitromethane Blend
Viscosity	3cps	3cps	3cps	3cps
Flash Point	0°F	30°F	0°F	95°F
Specific Gravity	0.74	0.68	1.40	-

Available in 2 oz. and 8 oz. pump spray bottles



Spray Adhesives

MADE IN
U. S. A.



HEAVY DUTY PERMANENT ADHESIVE

- Made from a carefully selected blend of synthetic polymers.
- Controlled molecular weight results in ideal spraying and film formulation.
- Formulation maximizes both adhesive and cohesive forces, optimizing flexibility and toughness.
- Super tough formula holds heavier objects with a strong, instant grip.
- Offers high shear and peel strength with good initial tack.
- Adheres to almost any surface or material, including wood, paper, glass, plastics and the vinyl used by asbestos abatement contractors.
- Adjustable spray head allows horizontal or vertical fan spray pattern.
- Light amber in color.

UNIT SIZE	DESCRIPTION	STOCK #
13 oz.	In 20 oz. aerosol can	SA115

12 per case





Lubricant Aerosols

MADE IN
U. S. A.



ALFA CHEM® DRY MOLY LUBE

- Superior high pressure properties.
- Quick drying.
- Excellent adhesion.
- Temperature resistant up to 750°F.
- High lubricity – 5 times more lubricity than other dry lubricants.

DRY MOLY LUBRICANT forms a quick-drying moly film that provides long wearing lubrication and protection that withstands extreme pressures and temperatures. It is formulated to adhere to most substrates and is ideal for use in high-pressure environments.

Use for break-in lubrication and high-pressure applications. Ideal in preventing the seizing of threaded connections and sliding parts. It is typically used on pistons, gaskets, pump assemblies, lock mechanisms, sliding doors, threaded connections, press fits, taps, pins, keyways, oven chains and cables, oven dollies, hinges, etc.

Stock # LA750 12 oz., in a 16 oz. aerosol can **12 cans/case**



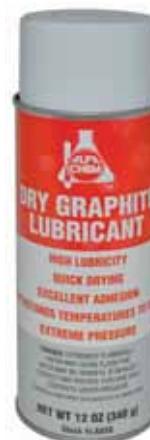
ALFA CHEM® SILICONE LUBRICANT

- Eliminates sticking, binding and squeaking.
- Non-staining.
- Protects against rust and corrosion.
- Lubricates metal, wood, rubber, glass, plastic.
- Very safe.

SILICONE SPRAY LUBRICANT eliminates sticking, binding and squeaking on hinges, locks, chains, rubber weather stripping, garage door rollers and other moving parts. It is formulated to be colorless, odorless and non-staining while providing excellent lubricity. This product is safe for incidental food contact.

Use to lubricate and protect metal, wood, rubber, glass, chrome, plastic parts, rubber weather stripping used on doors & windows, hinges and locks; to waterproof ignition systems; and to prevent snow from sticking to snow shovels and sled runners.

Stock # LA900 11 oz., in a 20 oz. aerosol can **12 cans/case**



ALFA CHEM® DRY GRAPHITE LUBRICANT

- High lubricity.
- Quick drying.
- Excellent adhesion.
- Extreme pressure.
- Temperature resistant up to 850°F.

Use anywhere a dry lubricant is essential: machinery, winches, chains, locks, trunks, lawn mowers, tools, conveyor parts, drawers, doors, hinges, snow blowers, flat springs, mechanisms (such as those in vending machines and parking meters), tracks, instruments, oven parts, wire rope, window slides, die casting machines, pre-assembly operations, etc.

Stock # LA850 12 oz., in a 16 oz. aerosol can **12 cans/case**



ALFA CHEM® WHITE LITHIUM GREASE EXTREME PRESSURE (EP)

- Water-resistant.
- Protects against friction.
- White color permits easy visual inspection.
- Provides high quality lubrication.
- Temperature resistance to 360°F.

White lithium grease is a multi-purpose, all weather lubricant with a wide range of industrial applications. It is formulated with a water-resistant grease that contains rust and oxidation inhibitors that protect metal. It can be used anywhere a non-soiling lubricant is needed. Its white color permits easy visual inspection, allowing quick identification of treated areas.

Use to reduce friction and mechanical sticking of bearings, gears, cables, industrial and construction equipment, machines and hand tools.

Stock # LA012 12 oz., in a 16 oz. aerosol can **12 cans/case**





Maintenance Aerosols

MADE IN
U. S. A.



ALFA CHEM® PENETRATING OIL

- Fast acting penetration.
- Penetrates rust and scale.
- Displaces moisture.
- Superior lubrication.

ALFA CHEM PENETRATING OIL is a fast acting formula that attacks rust and corrosion. It quickly frees frozen parts and loosens dirt, corrosion, scale and other binding elements. It lubricates parts while reducing friction to keep them working longer.

Penetrating oil frees screws, nuts, bolts, and other metal parts that have been frozen due to rust, scale, corrosion, paint, varnish, gum or carbon. It also loosens screws, nuts, joints, studs, fasteners, pins, pipe couplings, machine parts, bolts and pipe fittings. The oil lubricates tight fitting parts such as hinges, locks, cranks, tools, chain drives, locking mechanisms, carburetor linkages, power tools, casters, etc.

Stock # AL200

12 oz., in a 16 oz. aerosol can
12 cans/case



GROUND
FREIGHT ONLY



ALFA CHEM® RUST PROTECTOR

- Provides maximum protection under extreme conditions.
- Safe on most metals.
- Contains no chlorinated solvents.
- Easily removed by degreaser. (Stock # AL550)

ALFA CHEM RUST PROTECTOR is a long-term indoor/outdoor waxy film coating containing rust and corrosion inhibitors. It protects equipment from atmospheric conditions during storage and shipping.

Use as a long-term protective coating to protect all types of metals against salt, moisture, dirt, and other atmospheric conditions which cause damaging rust and corrosion. It protects parts such as construction equipment, salt spreaders, snow plows, pumps, hitches, springs, hoists, and most metals during shipment or storage.

Stock # AL300

11 oz., in a 16 oz. aerosol can
12 cans/case



GROUND
FREIGHT ONLY



ALFA CHEM® HEAVY DUTY DEGREASER

- Penetrates and cleans.
- Contains no CFCs or chlorinated solvents.
- Dissolves grime & grease.
- Leaves no residue.

ALFA CHEM HEAVY DUTY DEGREASER keeps engines, farm and construction equipment and industrial machinery clean and grease-free. This degreaser soaks in and emulsifies oil, grease and other contaminants, allowing parts and equipment to be easily rinsed off.

Use to clean air compressors, conveyors, fork lifts, hand trucks, engine parts, auto and truck engines, diesel and gas engines, various types of farm equipment and industrial machinery. It is also useful in cleaning tools.

Stock # AL550

14 oz., in a 20 oz. aerosol can
12 cans/case



GROUND
FREIGHT ONLY



Cleaning & Polishing

MADE IN
U. S. A.

METALGLAS CLEANER & POLISHER

Cleans and polishes Metal, Glass, Porcelain Tile and Enamelware.



Applications:

- Machine Rolls
- Chrome Idler Rolls
- Monel
- Stainless Steel
- Nickel
- Copper
- Brass

ALFA CHEM Metalglas polish deep cleans all metals, glass and porcelain surfaces. Also fills in hairline scratches and defects to keep surface free from dirt and grime. Improves surface brightness with less effort in future cleanings.

The non-acid formula is safe for stainless steel, chrome, brass, copper and aluminum. Removes buildup from metal rollers in the paper, plastic and textile industries. Removes fresh and salt water stains from boat rails and window screens. Deep cleans lenses on spotlights and headlights.

Apply with damp cloth, rub briskly, then wipe off and polish with dry, clean cloth. May be diluted with water for large surface applications.

Stock # MG2016

16 oz. jar
1 per pack

NEW!

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Extra Long

Extra Long, 12" with 1/2" Shanks.....

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Hole Enlarging

Glass/Ceramic

Glass/Ceramic Monolock®

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