

# Quick Index



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*Our Abrasive Products are featured in a separate publication 15ABR*

*This Quick Index facilitates product category location. All products are sectionalized by type and are placed in categories A - I. Complete product details are listed in each color coded category index.*

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# A

## Drills, Reamers Countersinks, Counterbores Annular Cutters, Accessories

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##### RotaCutters®

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## 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

**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



## Premium High-Speed Steel

**Heavy Duty  
135° Split Point  
Black Oxide & Gold Finish**




### Features:

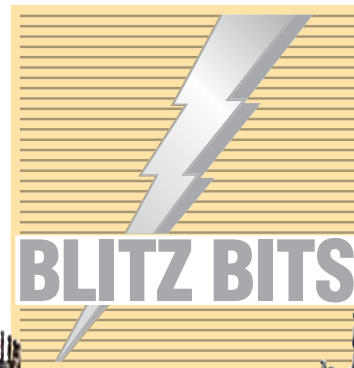
- Engineered for heavy duty work, BLITZ BITS® are high performance drills for production as well as tough maintenance applications.
- Made from a premium grade of M-7 molybdenum high speed steel, which has a special black and gold surface treatment to increase lubricity and reduce friction.
- The strong 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

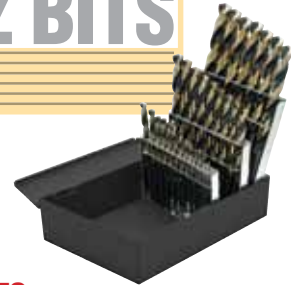
SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
1/16	.0625	7/8	1-7/8	BB74101
5/64	.0781	1	2	BB74102
3/32	.0938	1-1/4	2-1/4	BB74103
7/64	.1094	1-1/2	2-5/8	BB74104
1/8	.1250	1-5/8	2-3/4	BB74105
9/64	.1406	1-3/4	2-7/8	BB74106
5/32	.1562	2	3-1/8	BB74107
11/64	.1719	2-1/8	3-1/4	BB74108
3/16	.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 Pc.	1/16" - 1/4" by 64ths	BB74194
15 Pc.	1/16" - 1/2" by 32nds	BB74193
21 Pc.	1/16" - 3/8" by 64ths	BB74192
29 Pc.	1/16" - 1/2" by 64ths	BB74190
26 Pc.	Letter A - Z	BB74197
60 Pc.	Wire Gage #1 - #60	BB74191
115 Pc.	1/16" - 1/2" by 64ths, A - Z, Wire Gage #1 - #60	BB74199
29 Pc.	Drill Mug 1/16" - 1/2" by 64ths	BB74190DM

Reduced Shank Drills on Page A40



# Blitz Bits® - Jobber Drills - Cont.



## 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

Blitz Bits® - Jobber Drills

**A**



# General Purpose Jobber Drills - Alfa USA

## Super High-Speed Steel



**Jobber Length**  
**118° Point**  
**Black Oxide Or**  
**Bright Finish**



- 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

### LETTER

Jobber Drills

A

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				BLACK OXIDE	BRIGHT FINISH
STOCK #					
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

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				BLACK OXIDE	BRIGHT FINISH
STOCK #					
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



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

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
				BLACK OXIDE	BRIGHT FINISH
STOCK #					
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.

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

Reduced Shank Drills on Page A41

# General Purpose Jobber Drills - Alfa USA - Cont.

Super High-Speed Steel



Jobber Length  
118° Point  
Black Oxide Or  
Bright Finish



## WIRE GAGE

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	BLACK OXIDE	BRIGHT FINISH	SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	BLACK OXIDE	BRIGHT FINISH
				ALFA USA						ALFA USA	
				STOCK #						STOCK #	
1	.2280	2-5/8	3-7/8	J160101	J160101B	41	.0960	1-3/8	2-3/8	J160141	J160141B
2	.2210	2-5/8	3-7/8	J160102	J160102B	42	.0935	1-1/4	2-1/4	J160142	J160142B
3	.2130	2-1/2	3-3/4	J160103	J160103B	43	.0890	1-1/4	2-1/4	J160143	J160143B
4	.2090	2-1/2	3-3/4	J160104	J160104B	44	.0860	1-1/8	2-1/8	J160144	J160144B
5	.2055	2-1/2	3-3/4	J160105	J160105B	45	.0820	1-1/8	2-1/8	J160145	J160145B
6	.2040	2-1/2	3-3/4	J160106	J160106B	46	.0810	1-1/8	2-1/8	J160146	J160146B
7	.2010	2-7/16	3-5/8	J160107	J160107B	47	.0785	1	2	J160147	J160147B
8	.1990	2-7/16	3-5/8	J160108	J160108B	48	.0760	1	2	J160148	J160148B
9	.1960	2-7/16	3-5/8	J160109	J160109B	49	.0730	1	2	J160149	J160149B
10	.1935	2-7/16	3-5/8	J160110	J160110B	50	.0700	1	2	J160150	J160150B
11	.1910	2-5/16	3-1/2	J160111	J160111B	51	.0670	1	2	J160151	J160151B
12	.1890	2-5/16	3-1/2	J160112	J160112B	52	.0635	7/8	1-7/8	J160152	J160152B
13	.1850	2-5/16	3-1/2	J160113	J160113B	53	.0595	7/8	1-7/8	J160153	J160153B
14	.1820	2-3/16	3-3/8	J160114	J160114B	54	.0550	7/8	1-7/8	J160154	J160154B
15	.1800	2-3/16	3-3/8	J160115	J160115B	55	.0520	7/8	1-7/8	J160155	J160155B
16	.1770	2-3/16	3-3/8	J160116	J160116B	56	.0465	3/4	1-3/4	J160156	J160156B
17	.1730	2-3/16	3-3/8	J160117	J160117B	57	.0430	3/4	1-3/4	J160157	J160157B
18	.1695	2-1/8	3-1/4	J160118	J160118B	58	.0420	11/16	1-5/8	J160158	J160158B
19	.1660	2-1/8	3-1/4	J160119	J160119B	59	.0410	11/16	1-5/8	J160159	J160159B
20	.1610	2-1/8	3-1/4	J160120	J160120B	60	.0400	11/16	1-5/8	J160160	J160160B
21	.1590	2-1/8	3-1/4	J160121	J160121B	61	.0390	11/16	1-5/8	J160161	J160161B
22	.1570	2	3-1/8	J160122	J160122B	62	.0380	5/8	1-1/2	J160162	J160162B
23	.1540	2	3-1/8	J160123	J160123B	63	.0370	5/8	1-1/2	J160163	J160163B
24	.1520	2	3-1/8	J160124	J160124B	64	.0360	5/8	1-1/2	J160164	J160164B
25	.1495	1-7/8	3	J160125	J160125B	65	.0350	5/8	1-1/2	J160165	J160165B
26	.1470	1-7/8	3	J160126	J160126B	66	.0330	1/2	1-3/8	J160166	J160166B
27	.1440	1-7/8	3	J160127	J160127B	67	.0320	1/2	1-3/8	J160167	J160167B
28	.1405	1-3/4	2-7/8	J160128	J160128B	68	.0310	1/2	1-3/8	J160168	J160168B
29	.1360	1-3/4	2-7/8	J160129	J160129B	69	.0292	1/2	1-3/8	J160169	J160169B
30	.1285	1-5/8	2-3/4	J160130	J160130B	70	.0280	3/8	1-1/4	J160170	J160170B
31	.1200	1-5/8	2-3/4	J160131	J160131B	71	.0260	3/8	1-1/4	J160171	J160171B
32	.1160	1-5/8	2-3/4	J160132	J160132B	72	.0250	5/16	1-1/8	J160172	J160172B
33	.1130	1-1/2	2-5/8	J160133	J160133B	73	.0240	5/16	1-1/8	J160173	J160173B
34	.1110	1-1/2	2-5/8	J160134	J160134B	74	.0225	1/4	1	J160174	J160174B
35	.1100	1-1/2	2-5/8	J160135	J160135B	75	.0210	1/4	1	J160175	J160175B
36	.1065	1-7/16	2-1/2	J160136	J160136B	76	.0200	3/16	7/8	J160176	J160176B
37	.1040	1-7/16	2-1/2	J160137	J160137B	77	.0180	3/16	7/8	J160177	J160177B
38	.1015	1-7/16	2-1/2	J160138	J160138B	78	.0160	3/16	7/8	J160178	J160178B
39	.0995	1-3/8	2-3/8	J160139	J160139B	79	.0145	1/8	3/4	J160179	J160179B
40	.0980	1-3/8	2-3/8	J160140	J160140B	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	-	89	.0091	5/64	3/4	J160189	-
82	.0125	3/32	3/4	J160182	-	90	.0087	5/64	3/4	J160190	-
83	.0120	3/32	3/4	J160183	-	91	.0083	5/64	3/4	J160191	-
84	.0115	3/32	3/4	J160184	-	92	.0079	1/16	3/4	J160192	-
85	.0110	3/32	3/4	J160185	-	93	.0075	1/16	3/4	J160193	-
86	.0105	3/32	3/4	J160186	-	94	.0071	1/16	3/4	J160194	-
87	.0100	5/64	3/4	J160187	-	95	.0067	1/16	3/4	J160195	-
88	.0095	5/64	3/4	J160188	-	96	.0063	1/16	3/4	J160196	-
						97	.0059	1/16	3/4	J160197	-

1 to 97, 12 per envelope

Jobber Drills



## M2 High-Speed Steel

**Jobber Length**  
**118° Point**  
**Black Oxide**



**Features:**

- General purpose economy drill with a conventional 118° point angle.
- For black oxide drills, typical applications include drilling production parts, maintenance jobs and portable drilling.
- Designed for drilling in a wide range of materials, equipment and operating conditions.

**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

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

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



**SETS**

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



**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



### 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

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.

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

TiN Coated Jobber Drills

A

# TiN Coated Jobber Drills - Cont.

## Super High-Speed Steel



**Jobber Length**  
**118° Point**  
**Titanium Nitride Coated**  
**Gold Finish**



### LETTER

**NEW!**

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



# Heavy Duty Jobber Drills - Alfa USA

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



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

**FRACTIONAL**

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	BLACK OXIDE	BRIGHT FINISH
				ALFA USA STOCK #	
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



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

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.

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

Reduced Shank Drills on Page A41

Heavy Duty Jobber Drills

A

# Heavy Duty Jobber Drills - Alfa USA - Cont.

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



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



SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	BLACK OXIDE		BRIGHT FINISH	
				ALFA USA			
				STOCK #			
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	BLACK OXIDE		BRIGHT FINISH	
				ALFA USA			
				STOCK #			
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	BLACK OXIDE		BRIGHT FINISH	
				ALFA USA			
				STOCK #			
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	BLACK OXIDE		BRIGHT FINISH	
				ALFA USA			
				STOCK #			
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

Heavy Duty Jobber Drills

**A**



## M2 High-Speed Steel NAS 907, Type B

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



**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.

**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.

**SETS**



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

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

**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

ECO PRO Heavy Duty Jobber Drills



# TiN Coated Jobber Drills - Heavy Duty

## Super High-Speed Steel



**Jobber Length**  
**135° Split 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.
- 135° self-centering split point reduces thrust.

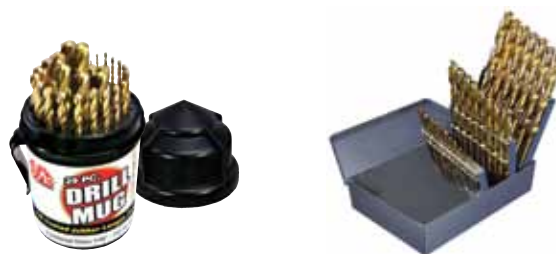
### FRACTIONAL

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



## LETTER

**NEW!**

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

1 to 60, 12 per envelope

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

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

TiN Coated Jobber Drills - Heavy Duty

**A**

# 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

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO STOCK #
19/64	.2969	3-1/16	4-3/8	S40116TT
5/16	.3125	3-3/16	4-1/2	S40117TT
21/64	.2164	3-5/16	4-5/8	S40118TT
11/32	.3438	3-7/16	4-3/4	S40119TT
23/64	.3594	3-1/2	4-7/8	S40120TT
3/8	.3750	3-5/8	5	S40121TT
25/64	.3906	3-3/4	5-1/8	S40122TT
13/32	.4063	3-7/8	5-1/4	S40123TT
27/64	.4219	3-5/16	5-3/8	S40124TT
7/16	.4375	4-1/16	5-1/2	S40125TT
29/64	.4531	4-3/16	5-5/8	S40126TT
15/32	.4688	4-5/16	5-3/4	S40127TT
31/64	.4844	4-3/8	5-7/8	S40128TT
1/2	.5000	4-1/2	6	S40129TT

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

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

1 to 60, 12 per envelope

\* #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**

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

TiN Tipped Jobber Drills - Heavy Duty

**A**

# 3-Flatted Shank Jobber Drills - Heavy Duty

**High-Speed Steel  
Right Hand Cut**

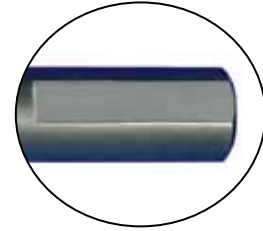


**3-Flat Shank Design  
(On 3/16" and Larger)  
135° Split Point  
Black Oxide Finish**



**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.



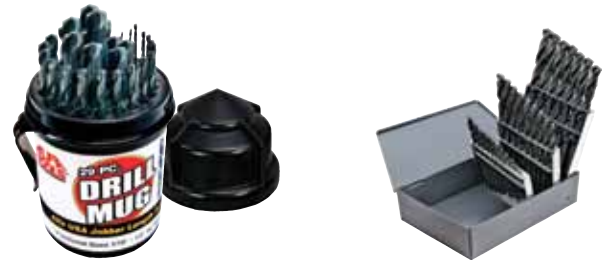
**FRACTIONAL**

**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 #
<b>13 Pc.</b>	1/16" - 1/4" by 64ths	SFL50194
<b>15 Pc.</b>	1/16" - 1/2" by 32nds	SFL50193
<b>21 Pc.</b>	1/16" - 3/8" by 64ths	SFL50192
<b>29 Pc.</b>	1/16" - 1/2" by 64ths	SFL50190
<b>29 Pc.</b>	Drill Mug 1/16" - 1/2" by 64ths	SFL50190DM

3-Flatted Shank Jobber Drills

**A**

# Cobalt M42 Jobber Drills

Heavy Duty  
NAS 907, Type J Standards



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

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

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.

# Cobalt M42 Jobber Drills - Cont.

Heavy Duty  
NAS 907, Type J Standards



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

1 to 80, 12 per envelope

\* #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

Cobalt M42 Jobber Drills

A



# 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®**

SIZE MM	DECIMAL EQUIV.	FLUTE LENGTH		OVERALL LENGTH		ALFA USA	ECO PRO
		MM	INCHES	MM	INCHES	STOCK #	STOCK #
0.50	0.0197	5	3/16	22	7/8	MJ151904	MJ251904
0.55	0.0217	6	1/4	25	1	-	MJ251905
0.60	0.0236	8	5/16	29	1-1/8	MJ151906	MJ251906
0.65	0.0256	10	3/8	32	1-1/4	-	MJ251907
0.70	0.0276	10	3/8	32	1-1/4	MJ151908	MJ251908
0.75	0.0295	13	1/2	35	1-3/8	MJ151909	MJ251909
0.80	0.0315	13	1/2	35	1-3/8	MJ151910	MJ251910
0.85	0.0335	16	5/8	38	1-1/2	MJ151911	MJ251911
0.90	0.0354	16	5/8	38	1-1/2	MJ151912	MJ251912
0.95	0.0374	16	5/8	38	1-1/2	-	MJ251913
1.00	0.0394	18	11/16	41	1-5/8	MJ151914	MJ251914
1.05	0.0413	18	11/16	41	1-5/8	MJ151915	MJ251915
1.10	0.0433	19	3/4	44	1-3/4	MJ151916	MJ251916
1.15	0.0453	19	3/4	44	1-3/4	MJ151917	MJ251917
1.20	0.0472	22	7/8	48	1-7/8	MJ151918	MJ251918
1.25	0.0492	22	7/8	48	1-7/8	MJ151919	MJ251919
1.30	0.0512	22	7/8	48	1-7/8	MJ151920	MJ251920
1.35	0.0531	22	7/8	48	1-7/8	MJ151921	MJ251921
1.40	0.0551	22	7/8	48	1-7/8	MJ151922	MJ251922
1.45	0.0571	22	7/8	48	1-7/8	MJ151923	MJ251923
1.50	0.0591	22	7/8	48	1-7/8	MJ151924	MJ251924
1.55	0.0610	22	7/8	48	1-7/8	MJ151925	MJ251925
1.60	0.0630	22	7/8	48	1-7/8	MJ151926	MJ251926
1.65	0.0650	25	1	51	2	MJ151927	MJ251927
1.70	0.0669	25	1	51	2	MJ151928	MJ251928
1.75	0.0689	25	1	51	2	MJ151929	MJ251929
1.80	0.0709	25	1	51	2	MJ151930	MJ251930
1.85	0.0728	25	1	51	2	MJ151931	MJ251931
1.90	0.0748	25	1	51	2	MJ151932	MJ251932
1.95	0.0768	25	1	51	2	MJ151933	MJ251933
2.00	0.0787	25	1	51	2	MJ151934	MJ251934
2.05	0.0807	29	1-5/32	54	2-1/8	MJ151935	MJ251935
2.10	0.0827	29	1-5/32	54	2-1/8	MJ151936	MJ251936
2.15	0.0846	29	1-5/32	54	2-1/8	MJ151937	MJ251937
2.20	0.0866	32	1-1/4	57	2-1/4	MJ151938	MJ251938
2.25	0.0886	32	1-1/4	57	2-1/4	-	MJ251939
2.30	0.0906	32	1-1/4	57	2-1/4	MJ151940	MJ251940
2.35	0.0925	32	1-1/4	57	2-1/4	-	MJ251941
2.40	0.0945	35	1-3/8	60	2-23/64	MJ151942	MJ251942
2.45	0.0965	35	1-3/8	60	2-23/64	-	MJ251943
2.50	0.0984	35	1-3/8	60	2-23/64	MJ151944	MJ251944
2.55	0.1003	-	-	57	-	-	MJ251945
2.60	0.1024	37	1-29/64	64	2-1/2	MJ151946	MJ251946
2.70	0.1063	37	1-29/64	64	2-1/2	MJ151947	MJ251947
2.75	0.1083	38	1-1/2	67	2-5/8	-	MJ251948
2.80	0.1102	38	1-1/2	67	2-5/8	MJ151949	MJ251949
2.90	0.1142	41	1-5/8	70	2-3/4	MJ151950	MJ251950
3.00	0.1181	41	1-5/8	70	2-3/4	MJ151951	MJ251951
3.10	0.1220	41	1-5/8	70	2-3/4	MJ151952	MJ251952
3.20	0.1260	41	1-5/8	70	2-3/4	MJ151953	MJ251953
3.25	0.1280	41	1-5/8	70	2-3/4	MJ151954	MJ251954
3.30	0.1299	45	1-3/4	73	2-7/8	MJ151955	MJ251955
3.40	0.1339	45	1-3/4	73	2-7/8	MJ151956	MJ251956
3.50	0.1378	45	1-3/4	73	2-7/8	MJ151957	MJ251957
3.60	0.1417	48	1-7/8	76	3	MJ151958	MJ251958
3.70	0.1457	48	1-7/8	76	3	MJ151959	MJ251959
3.75	0.1476	48	1-7/8	76	3	MJ151960	MJ251960
3.80	0.1496	48	1-7/8	76	3	MJ151961	MJ251961
3.90	0.1535	51	2	79	3-1/8	MJ151962	MJ251962
4.00	0.1575	54	2-1/8	83	3-1/4	MJ151963	MJ251963
4.10	0.1614	54	2-1/8	83	3-1/4	MJ151964	MJ251964

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



• ALFA USA drills are made in the United States.



• 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	ECO PRO
		MM	INCHES	MM	INCHES	STOCK #	STOCK #
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



ALFA USA drills are made in the United States.



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

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
		MM	INCHES	MM	INCHES	STOCK #
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

ECO PRO
STOCK #
MJ252026
MJ252027
MJ252028
MJ252029
MJ252030
MJ252031
MJ252032
MJ252033
MJ252034
MJ252035
MJ252036
MJ252037
MJ252038
MJ252039
MJ252040
MJ252041

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	-

MJ252042
MJ252043
MJ252044
MJ252045
MJ252046
MJ252047
MJ252048
MJ252049
MJ252050
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MJ252072
MJ252073
MJ252074
MJ252075
MJ252076

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

ALFA USA

SETS

ECO PRO

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



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



ALFA USA drills are made in the United States.



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.



RS50186BD

## HSS BULLET PILOT-POINT® DRILL SET IN METAL INDEX

QTY.	SIZES	STOCK #
29 Pc.	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



# 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



**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 Pc.	1/16" - 1/4" by 64ths	JDL50194
15 Pc.	1/16" - 1/2" by 32nds	JDL50193
21 Pc.	1/16" - 3/8" by 64ths	JDL50192
29 Pc.	1/16" - 1/2" by 64ths	JDL50190
60 Pc.	#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**



**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 Pc.	1/16" - 1/4" by 64ths	JDLCO93194
15 Pc.	1/16" - 1/2" by 32nds	JDLCO93193
21 Pc.	1/16" - 3/8" by 64ths	JDLCO93192
29 Pc.	1/16" - 1/2" by 64ths	JDLCO93190

Left Hand Jobber Drills - Cobalt M42

A

# Carbide Tipped Jobber Drills

## High-Speed Steel Body



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



### 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.

## FRACTIONAL

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

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

1 per pack

## LETTER

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

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

1 per pack

## WIRE GAGE

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

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

1 per pack

Carbide Tipped Jobber Drills

**A**

# Carbide Tipped Die Drills

## High-Speed Steel Body Right Hand Cut



### 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

Carbide Tipped Die Drills • Drill Blanks

**A**

## 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**



**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.

## FRACTIONAL

Screw Machine Length

**A**

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
<b>135° POINT</b>				
<b>3/64</b>	.0469	1/2	1-3/8	SM50200
<b>1/16</b>	.0625	5/8	1-5/8	SM50201
<b>5/64</b>	.0781	11/16	1-11/16	SM50202
<b>3/32</b>	.0938	3/4	1-3/4	SM50203
<b>7/64</b>	.1094	13/16	1-13/16	SM50204
<b>1/8</b>	.1250	7/8	1-7/8	SM50205
<b>9/64</b>	.1406	15/16	1-15/16	SM50206
<b>5/32</b>	.1562	1	2-1/16	SM50207
<b>11/64</b>	.1719	1-1/16	2-1/8	SM50208
<b>3/16</b>	.1875	1-1/8	2-3/16	SM50209
<b>13/64</b>	.2031	1-3/16	2-1/4	SM50210
<b>7/32</b>	.2188	1-1/4	2-3/8	SM50211
<b>15/64</b>	.2344	1-5/16	2-7/16	SM50212
<b>1/4</b>	.2500	1-3/8	2-1/2	SM50213
<b>17/64</b>	.2656	1-7/16	2-5/8	SM50214
<b>9/32</b>	.2812	1-1/2	2-11/16	SM50215
<b>19/64</b>	.2969	1-9/16	2-3/4	SM50216
<b>5/16</b>	.3125	1-5/8	2-13/16	SM50217
<b>21/64</b>	.3281	1-11/16	2-15/16	SM50218
<b>11/32</b>	.3438	1-11/16	3	SM50219
<b>23/64</b>	.3594	1-3/4	3-1/16	SM50220
<b>3/8</b>	.3750	1-13/16	3-1/8	SM50221
<b>25/64</b>	.3906	1-7/8	3-1/4	SM50222
<b>13/32</b>	.4062	1-15/16	3-5/16	SM50223
<b>27/64</b>	.4219	2	3-3/8	SM50224
<b>7/16</b>	.4375	2-1/16	3-7/16	SM50225
<b>29/64</b>	.4531	2-1/8	3-9/16	SM50226
<b>15/32</b>	.4688	2-1/8	3-5/8	SM50227
<b>31/64</b>	.4844	2-3/16	3-11/16	SM50228
<b>1/2</b>	.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 #
<b>118° POINT</b>				
<b>33/64</b>	.5156	2-3/8	3-7/8	SM50230
<b>17/32</b>	.5312	2-3/8	3-7/8	SM50231
<b>35/64</b>	.5469	2-1/2	4	SM50232
<b>9/16</b>	.5625	2-1/2	4	SM50233
<b>37/64</b>	.5781	2-5/8	4-1/8	SM50234
<b>19/32</b>	.5938	2-5/8	4-1/8	SM50235
<b>39/64</b>	.6094	2-3/4	4-1/4	SM50236
<b>5/8</b>	.6250	2-3/4	4-1/4	SM50237
<b>41/64</b>	.6406	2-7/8	4-1/2	SM50238
<b>21/32</b>	.6562	2-7/8	4-1/2	SM50239
<b>43/64</b>	.6719	2-7/8	4-5/8	SM50240
<b>11/16</b>	.6875	2-7/8	4-5/8	SM50241
<b>45/64</b>	.7031	3	4-3/4	SM50242
<b>23/32</b>	.7188	3	4-3/4	SM50243
<b>47/64</b>	.7344	3-1/8	5	SM50244
<b>3/4</b>	.7500	3-1/8	5	SM50245
<b>49/64</b>	.7656	3-1/4	5-1/8	SM50246
<b>25/32</b>	.7812	3-1/4	5-1/8	SM50247
<b>51/64</b>	.7969	3-3/8	5-1/4	SM50248
<b>13/16</b>	.8125	3-3/8	5-1/4	SM50249
<b>53/64</b>	.8281	3-1/2	5-3/8	SM50250
<b>27/32</b>	.8438	3-1/2	5-3/8	SM50251
<b>55/64</b>	.8594	3-1/2	5-1/2	SM50252
<b>7/8</b>	.8750	3-1/2	5-1/2	SM50253
<b>57/64</b>	.8906	3-5/8	5-5/8	SM50254
<b>29/32</b>	.9062	3-5/8	5-5/8	SM50255
<b>59/64</b>	.9219	3-3/4	5-3/4	SM50256
<b>15/16</b>	.9375	3-3/4	5-3/4	SM50257
<b>61/64</b>	.9531	3-7/8	5-7/8	SM50258
<b>31/32</b>	.9688	3-7/8	5-7/8	SM50259
<b>63/64</b>	.9844	4	6	SM50260
<b>1</b>	1.0000	4	6	SM50261
<b>1-1/16</b>	1.0625	4	6-1/4	SM50262
<b>1-1/8</b>	1.1250	4	6-3/8	SM50263
<b>1-3/16</b>	1.1875	4-1/4	6-5/8	SM50264
<b>1-1/4</b>	1.2500	4-3/8	6-3/4	SM50265

## SETS

QTY.	SIZES	ALFA USA
		STOCK #
<b>13 Pc.</b>	1/16" - 1/4" by 64ths	SM50294
<b>29 Pc.</b>	1/16" - 1/2" by 64ths	SM50290
<b>26 Pc.</b>	Letter Sizes A - Z	SM50297
<b>60 Pc.</b>	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



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

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
N	.302	1-5/8	2-13/16	SM60414
O	.316	1-11/16	2-15/16	SM60415
P	.323	1-11/16	2-15/16	SM60416
Q	.332	1-11/16	3	SM60417
R	.339	1-11/16	3	SM60418
S	.348	1-3/4	3-1/16	SM60419
T	.358	1-3/4	3-1/16	SM60420
U	.368	1-13/16	3-1/8	SM60421
V	.377	1-7/8	3-1/4	SM60422
W	.386	1-7/8	3-1/4	SM60423
X	.397	1-15/16	3-5/16	SM60424
Y	.404	1-15/16	3-5/16	SM60425
Z	.413	2	3-3/8	SM60426

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	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

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
31	.1200	7/8	1-7/8	SM60331
32	.1160	7/8	1-7/8	SM60332
33	.1130	7/8	1-7/8	SM60333
34	.1110	7/8	1-7/8	SM60334
35	.1100	7/8	1-7/8	SM60335
36	.1065	13/16	1-13/16	SM60336
37	.1040	13/16	1-13/16	SM60337
38	.1015	13/16	1-13/16	SM60338
39	.0995	13/16	1-13/16	SM60339
40	.0980	13/16	1-13/16	SM60340
41	.0960	13/16	1-13/16	SM60341
42	.0935	3/4	1-3/4	SM60342
43	.0890	3/4	1-3/4	SM60343
44	.0860	3/4	1-3/4	SM60344
45	.0820	3/4	1-3/4	SM60345
46	.0810	3/4	1-3/4	SM60346
47	.0785	11/16	1-11/16	SM60347
48	.0760	11/16	1-11/16	SM60348
49	.0730	11/16	1-11/16	SM60349
50	.0700	11/16	1-11/16	SM60350
51	.0670	11/16	1-11/16	SM60351
52	.0635	11/16	1-11/16	SM60352
*53	.0595	5/8	1-5/8	SM60353
*54	.0550	5/8	1-5/8	SM60354
*55	.0520	5/8	1-5/8	SM60355
*56	.0465	1/2	1-3/8	SM60356
*57	.0430	1/2	1-3/8	SM60357
*58	.0420	1/2	1-3/8	SM60358
*59	.0410	1/2	1-3/8	SM60359
*60	.0400	1/2	1-3/8	SM60360

\* #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



**Heavy Duty**  
**135° Split Point**  
**Black Oxide & Gold Finish**

- 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

## WIRE GAGE

**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

Blitz Bits® - Screw Machine Length

**A**

# Cobalt Screw Machine Length Drills

## Cobalt M42 High-Speed Steel NAS 907, Type J



**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

12 per envelope

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

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

# Aircraft Extension Drills

High-Speed Steel  
NAS 907, Type B



**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

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

### WIRE GAGE – Cont.

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

### 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

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	STOCK #
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

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

\*Not split point

# Aircraft Extension Drills - Cont.

High-Speed Steel  
NAS 907, Type B



**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.

Cobalt Aircraft Extension Drills

## 6" OVERALL LENGTH FRACTIONAL

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

## 12" OVERALL LENGTH FRACTIONAL

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

## WIRE GAGE

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

## WIRE GAGE

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

Expanded

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

Extra Long Drills

A



# Taper Length Drills

## Premium High-Speed Steel

### 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.



**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

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

1 to 60, 12 per envelope

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

### SETS

Continued



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

# 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



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



**Economy Length**  
**118° Point**  
**Black Oxide Finish**

• Increased strength and rigidity due to short flute length.



**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**

• Flute length is approximately 20% shorter than jobber length, providing increased strength and rigidity.



**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

**Jobber Length**  
**118° Point**  
**Black Oxide Finish**

• Expands the size capacity of a 1/4" portable drill chuck.



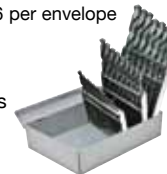
**FRACTIONAL ECO PRO**

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ECO PRO STOCK #
17/64	.2656	2-7/8	4-1/8	RS51801
9/32	.2812	2-15/16	4-1/4	RS51803
19/64	.2969	3-1/16	4-3/8	RS51805
5/16	.3125	3-3/16	4-1/2	RS51807
21/64	.3281	3-5/16	4-5/8	RS51809
11/32	.3438	3-7/16	4-3/4	RS51811
23/64	.3594	3-1/2	4-7/8	RS51813
3/8	.3750	3-5/8	5	RS51815
25/64	.3906	3-3/4	5-1/8	RS51817
13/32	.4062	3-7/8	5-1/4	RS51819
27/64	.4219	3-15/16	5-3/8	RS51821
7/16	.4375	4-1/16	5-1/2	RS51823
29/64	.4531	4-3/16	5-5/8	RS51825
15/32	.4688	4-5/16	5-3/4	RS51827
31/64	.4844	4-3/8	5-7/8	RS51829
1/2	.5000	4-1/2	6	RS51831

17/64" to 5/16", 12 per envelope, 21/64" to 1/2", 6 per envelope

### SET

**29 Pc. Drill Set 1/16" - 1/2" by 64ths**  
 RS250187



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.



### 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.

### SETS

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



### 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	BBRS74122
13/32	.4062	3-7/8	5-1/4	BBRS74123
27/64	.4219	3-15/16	5-3/8	BBRS74124
7/16	.4375	4-1/16	5-1/2	BBRS74125
29/64	.4531	4-3/16	5-5/8	BBRS74126
15/32	.4688	4-5/16	5-3/4	BBRS74127
31/64	.4844	4-3/8	5-7/8	BBRS74128
1/2	.5000	4-1/2	6	BBRS74129

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	BBRS74193
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**




- 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 Pc.	1/16" - 1/2" by 32nds	RS150193
29 Pc.	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 Pc.	1/16" - 1/2" by 32nds	RSS150193
29 Pc.	1/16" - 1/2" by 64ths	RSS150186

Reduced Shank

**A**

# Silver & Deming Drills

## Super High-Speed Steel



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

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



**FRACTIONAL**

**ALFA USA**

**ECO PRO**

### 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**

Silver & Deming

A

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

ECO PRO STOCK #
SD250400
SD250401
SD250402
SD250403
SD250404
SD250405
SD250406
SD250407
SD250408
SD250409
SD250410
SD250411
SD250412
SD250413
SD250414
SD250415
SD250416A
SD250416
SD250417A
SD250417
SD250418A
SD250418
SD250419A
SD250419
SD250420A
SD250420
SD250421A
SD250421
SD250422A
SD250422
SD250423A
SD250423
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SD250425
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SD250429
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SD250431
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SD250433
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SD250435
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SD250437
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SD250439

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

**ECO PRO**

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.

1 per pack



• ALFA USA drills are made in the United States.

**ECO PRO**

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



# 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**



### 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".

### 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.

Not for enlarging existing holes.



### SETS

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

Silver & Deming

A

# Cobalt M42 Silver & Deming Drills

**Heavy Duty  
Super High-Speed Steel**



**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 Pc.	Metal Index 9/16" - 1" by 1/16ths	SDCO50449A
8 Pc.	Molded Plastic Case 9/16" - 1" by 1/16ths	SDCO50449PL
33 Pc.	Metal Stand 1/2" - 1" by 1/64ths	SDCO50450

Silver & Deming

**A**

## 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

### Features:

- 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.



## Right Hand Cut



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

Also called  
"Bowling Ball" drills



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

### 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.

### 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.



### FRACTIONAL

### 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.



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

SIZE	DECIMAL EQUIV.	MT	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1-1/32	1.0312	3	6-1/2	11-1/8	TS50043
1-3/64	1.0469	3	6-5/8	11-1/4	TS50044
1-1/16	1.0625	3	6-5/8	11-1/4	TS50045
1-5/64	1.0781	4	6-7/8	12-1/2	TS50046
1-3/32	1.0938	4	6-7/8	12-1/2	TS50047
1-7/64	1.1094	4	7-1/8	12-3/4	TS50048
1-1/8	1.1250	4	7-1/8	12-3/4	TS50049
1-9/64	1.1406	4	7-1/4	12-7/8	TS50050
1-5/32	1.1562	4	7-1/4	12-7/8	TS50051
1-11/64	1.1719	4	7-3/8	13	TS50052
1-3/16	1.1875	4	7-3/8	13	TS50053
1-13/64	1.2031	4	7-1/2	13-1/8	TS50054
1-7/32	1.2188	4	7-1/2	13-1/8	TS50055
1-15/64	1.2344	4	7-7/8	13-1/2	TS50056
1-1/4	1.2500	4	7-7/8	13-1/2	TS50057
1-17/64	1.2656	4	8-1/2	14-1/8	TS50058
1-9/32	1.2812	4	8-1/2	14-1/8	TS50059
1-19/64	1.2969	4	8-5/8	14-1/4	TS50060
1-5/16	1.3125	4	8-5/8	14-1/4	TS50061
1-21/64	1.3281	4	8-3/4	14-3/8	TS50062
1-11/32	1.3438	4	8-3/4	14-3/8	TS50063
1-23/64	1.3594	4	8-7/8	14-1/2	TS50064
1-3/8	1.3750	4	8-7/8	14-1/2	TS50065
1-25/64	1.3906	4	9	14-5/8	TS50066
1-13/32	1.4062	4	9	14-5/8	TS50067
1-27/64	1.4219	4	9-1/8	14-3/4	TS50068
1-7/16	1.4375	4	9-1/8	14-3/4	TS50069
1-29/64	1.4531	4	9-1/4	14-7/8	TS50070
1-15/32	1.4688	4	9-1/4	14-7/8	TS50071
1-31/64	1.4844	4	9-3/8	15	TS50072
1-1/2	1.5000	4	9-3/8	15	TS50073
1-17/32	1.5312	5	9-3/8	16-3/8	TS50074
1-9/16	1.5625	5	9-5/8	16-5/8	TS50075
1-19/32	1.5938	5	9-7/8	16-7/8	TS50076
1-5/8	1.6250	5	10	17	TS50077
1-21/32	1.6562	5	10-1/8	17-1/8	TS50078
1-11/16	1.6875	5	10-1/8	17-1/8	TS50079
1-23/32	1.7188	5	10-1/8	17-1/8	TS50080
1-47/64	1.7344	5	10-1/8	17-1/8	TS50080A
1-3/4	1.7500	5	10-1/8	17-1/8	TS50081
1-25/32	1.7812	5	10-1/8	17-1/8	TS50082
1-13/16	1.8125	5	10-1/8	17-1/8	TS50083
1-27/32	1.8438	5	10-1/8	17-1/8	TS50084
1-7/8	1.8750	5	10-3/8	17-3/8	TS50085
1-29/32	1.9062	5	10-3/8	17-3/8	TS50086
1-15/16	1.9375	5	10-3/8	17-3/8	TS50087
1-31/32	1.9688	5	10-3/8	17-3/8	TS50088
2	2.0000	5	10-3/8	17-3/8	TS50089
2-13/64	2.2031	5	10-1/8	17-3/8	TS50090
2-5/8	2.6250	5	11-7/8	19-1/2	TS50091

Taper Shank Drills

**A**

1 per pack

### SETS

QTY.	SIZES	STOCK #
16 Pc.	Metal Index 33/64" - 3/4" by 64ths	TS50098
16 Pc.	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

1 per pack

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

Taper Shank Drills • Hole Enlarging Drills

**A**

# Hole Enlarging Core Drills

## High-Speed Steel



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



### 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.

### FRACTIONAL

**NEW!**

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



### 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



### 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 Pc.	1/16" - 1/4" by 64ths	ST50194
15 Pc.	1/16" - 1/2" by 32nds	ST50193



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

# Solid Carbide Straight Flute Drills

Micrograin  
Solid Carbide



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.

Solid Carbide Straight Flute Drills

A

## 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

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
				STOCK #
9/32	.2813	1-1/2	2-11/16	SCSF30115
19/64	.2969	1-9/16	2-3/4	SCSF30116
5/16	.3125	1-5/8	2-13/16	SCSF30117
21/64	.3281	1-11/16	2-15/16	SCSF30118
11/32	.3438	1-11/16	3	SCSF30119
23/64	.3594	1-3/4	3-1/16	SCSF30120
3/8	.3750	1-13/16	3-1/8	SCSF30121
25/64	.3906	1-7/8	3-1/4	SCSF30122
13/32	.4063	1-15/16	3-5/16	SCSF30123
27/64	.4219	2	3-3/8	SCSF30124
7/16	.4375	2-1/16	3-7/16	SCSF30125
29/64	.4531	2-1/8	3-9/16	SCSF30126
15/32	.4688	2-1/8	3-5/8	SCSF30127
31/64	.4844	2-3/16	3-11/16	SCSF30128
1/2	.5000	2-1/4	3-3/4	SCSF30129

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

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

1 per pack

# Solid Carbide Straight Flute Drills - Cont.

## Micrograin Solid Carbide



### 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



### 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

# Solid Carbide Screw Machine Drills

**Micrograin  
Solid Carbide**



**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

**A**

# Solid Carbide Screw Machine Drills - Cont.

## Micrograin Solid Carbide



### 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

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

1 per pack

Solid Carbide Screw Machine Drills  
Solid Carbide Spade Drills

A

# Solid Carbide Spade Drills

## Micrograin Solid Carbide



### 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



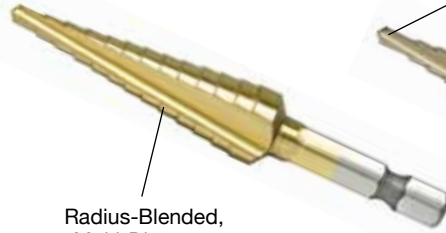
## High-Speed Steel Professional Quality

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

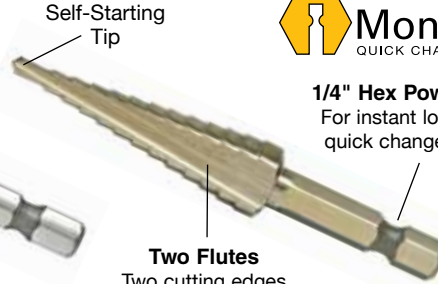
### Features:

- 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

**Two Flutes**  
 Two cutting edges  
 assure true concentricity.

**Monolock®**  
 QUICK CHANGE SYSTEM

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



STYLE	NO. OF STEPS	SIZE RANGE	SHANK SIZE	OAL	BRIGHT FINISH		TiN COATED		COBALT	
					STOCK #		STOCK #		STOCK #	
					PACK	CARDED	PACK	CARDED	PACK	CARDED
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

ProBits™ Step Drills

A



### 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**

**NEW!**

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

## High-Speed Steel Professional Quality



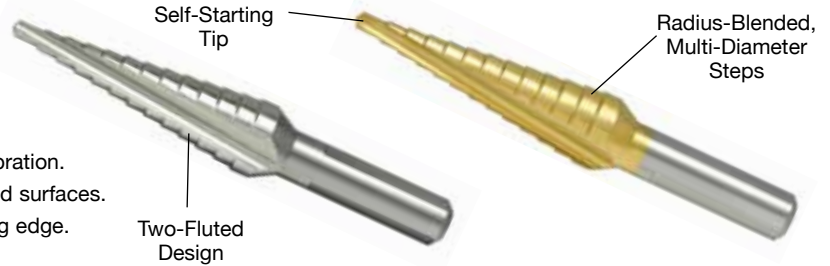
An ideal tool for sheet metal working in various sectors of industry: electrical, sanitary, heating, automotive, mechanical engineering, switching systems and aviation.

Tough and versatile ProBits are suitable for all standard materials: non-ferrous metal, special steels, thermoplastics and duroplastics as well as sheet metal up to 1/8" in thickness.

### 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 #
<b>SET IN HANDY POUCH</b>		
3	Style A, B, C, Bright Finish Style A, B, C, TiN Coated	MBS3 MBS3TN
<b>SETS IN PLASTIC CASE</b>		
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

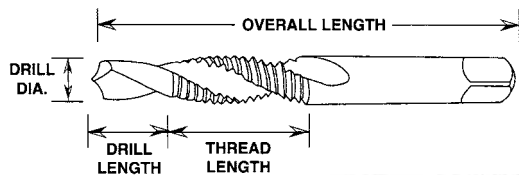
## Premium High-Speed Steel



**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 Pc.	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



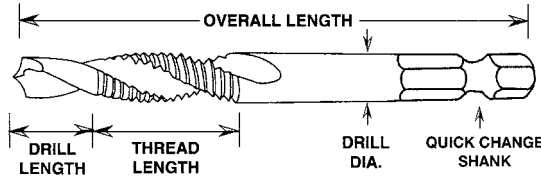
DTH66120

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**



### Features:

- Drill Taps create the hole and thread in one pass, no center drilling or punching required.
- Point is self-centering.
- Designed to drill and tap through holes up to 2X nominal diameter. The drill section must fully penetrate the material before tapping begins.
- Spindle speeds should be set at normal speed for tapping specific material being machined; as with any tapping operation, a reversing spindle is required.
- Hex power shank makes it suitable for cordless drills.

## MACHINE SCREW & FRACTIONAL

**NEW!**

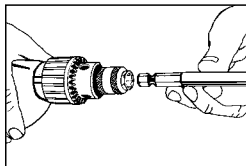
SIZE	PITCH	OVERALL LENGTH	THREAD LENGTH	DRILL LENGTH	DRILL DIAMETER	STOCK #
6	32 NC	3	7/16	5/16	.112	DTML66103
8	32 NC	3-1/8	1/2	3/8	.138	DTML66104
10	24 NC	3-3/8	5/8	13/32	.155	DTML66105
10	32 NF	3-3/8	5/8	13/32	.164	DTML66106
12	24 NC	3-3/8	21/32	15/32	.180	DTML66106A
12	28 NF	3-3/8	21/32	15/32	.180	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

Convert your standard drill with a Slimline Quick Change Adaptor Chuck



## DRILL & TAP SET

IN DELUXE METAL INDEX

SET QTY.	SIZES	STOCK #
16 Pc.	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

Monolock® Hex Shank Drills • Spotting Drills

## High-Speed Steel

### 1/4" Hex Shank Drills 135° Split Point



- 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

\*Not Split Point

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

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

HSD51081



### 1/4" HEX SHANK DRILL SETS

HSD51083



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

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

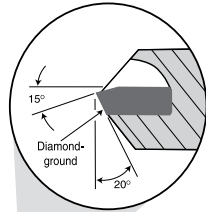
# MegaDrill™ Multi-Purpose Drill Bits

## 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."



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



### Monolock® 1/4" QUICK CHANGE SHANK

DRILL DIA.	DECIMAL EQUIV.	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	BULK	TUBE
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




MD1098



MD1099

### 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

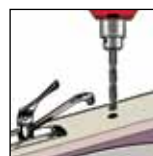
\*1/4" drill is 4-1/4" OAL.



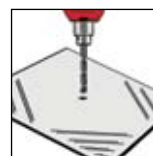
Hardened Steel & Cast Iron



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

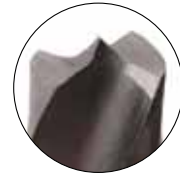
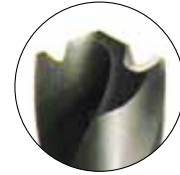


**Features:**

- 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 #
<b>HSS DRILLS</b>					
BLACK STEAM TEMPERED	5/16 (8 mm)	5/16	1-5/8	2-13/16	SWC516
	3/8 (9.5 mm)	3/8	1-13/16	3-1/8	SWC38
<b>COBALT DRILLS</b>					
STRAW GOLD	6 mm	1/4	1-1/4	2-9/16	SWC6SMCO
	8 mm	5/16	1-9/16	2-7/8	SWC8SMCO
	10 mm	3/8	1-7/16	3-7/8	SWC10SMCO
	<b>COBALT EURO POINT DRILLS</b>				
	8 mm Flat on Shank	1/4	3/4	1-3/4	SWC8CO
	10 mm Flat on Shank	3/8	1-3/8	3-3/8	SWC10CO



**EURO POINT**

1 per pack

The Euro point spot weld drill has a “nib” pilot point and is available in Cobalt steel only. The sharp circumferential spurs give a clean burr-free hole.

Spot Weld Drills • Drills for Plastics

**A**

# 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

**A-60**

# 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
<b>7/64</b>	.1094	1/2	1-7/8	SH50204SB	SH50204S
<b>1/8</b>	.1250	1/2	1-7/8	SH50205SB	SH50205S
<b>9/64</b>	.1406	1/2	2-1/16	SH50206SB	SH50206S
<b>5/32</b>	.1562	1/2	2-1/16	SH50207SB	SH50207S
<b>3/16</b>	.1875	1/2	2-3/16	SH50209SB	SH50209S
<b>13/64</b>	.2031	1/2	2	SH50210SB	SH50210S
<b>7/32</b>	.2188	1/2	2	SH50211SB	SH50211S
<b>1/4</b>	.2500	1/2	2-1/2	SH50213SB	SH50213S
<b>#1</b>	.2280	1/2	2	SH60301SB	SH60301S
<b>#11</b>	.1910	1/2	2	SH60311SB	SH60311S
<b>#20</b>	.1610	1/2	2	SH60320SB	SH60320S
<b>#30</b>	.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
<b>7/64</b>	.1094	1/2	1-7/8	SH50204DB	SH50204D	SH50204DTN
<b>1/8</b>	.1250	1/2	2	SH50205DB	SH50205D	SH50205DTN
<b>9/64</b>	.1406	1/2	2	SH50206DB	SH50206D	SH50206DTN
<b>5/32</b>	.1562	1/2	2-1/16	SH50207DB	SH50207D	SH50207DTN
<b>3/16</b>	.1875	1/2	2-3/16	SH50209DB	SH50209D	SH50209DTN
<b>13/64</b>	.2031	1/2	2-3/16	SH50210DB	SH50210D	SH50210DTN
<b>7/32</b>	.2188	1/2	2-3/8	SH50211DB	SH50211D	SH50211DTN
<b>1/4</b>	.2500	1/2	2-1/2	SH50213DB	SH50213D	SH50213DTN
<b>#1</b>	.2280	1/2	2-1/4	SH60301DB	SH60301D	SH60301DTN
<b>#10</b>	.1935	1/2	2-1/4	SH60310DB	SH60310D	SH60310DTN
<b>#11</b>	.1910	1/2	2-1/4	SH60311DB	SH60311D	SH60311DTN
<b>#20</b>	.1610	1/2	2-1/8	SH60320DB	SH60320D	SH60320DTN
<b>#21</b>	.1590	1/2	2	SH60321DB	SH60321D	SH60321DTN
<b>#30</b>	.1285	1/2	2	SH60330DB	SH60330D	SH60330DTN
<b>#40</b>	.0980	1/2	2	SH60340DB	SH60340D	SH60340DTN

12 per pack



# 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.
  - 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

Chucking 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

# Chucking 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.



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

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

1 per pack



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

Chucking & Bridge Reamers

## Bridge Reamers

### High-Speed Steel



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 building, erection and ship construction in aligning bolt or rivet holes.  
• All sizes have five flutes for ease of penetration.



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

#### FRACTIONAL



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



## 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	6-1/4	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

A

**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 #
<b>8A</b>	1/4 to 9/32	3-1/4	HR54601
<b>7A</b>	9/32 to 5/16	3-1/2	HR54603
<b>6A</b>	5/16 to 11/32	4-1/8	HR54605
<b>5A</b>	11/32 to 3/8	4-3/8	HR54607
<b>4A</b>	3/8 to 13/32	4-3/4	HR54609
<b>3A</b>	13/32 to 7/16	5	HR54611
<b>2A</b>	7/16 to 15/32	5-1/4	HR54613
<b>A</b>	15/32 to 17/32	5-1/2	HR54615
<b>B</b>	17/32 to 19/32	5-3/4	HR54617
<b>C</b>	19/32 to 21/32	6-1/2	HR54619
<b>D</b>	21/32 to 23/32	6-3/4	HR54621

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

1 per pack

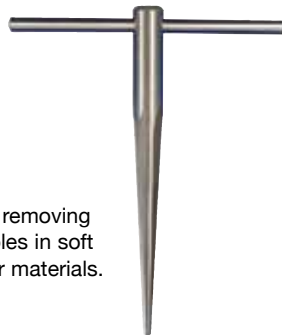
## Mechanic's Reamers

Premium High-Speed Steel



### REPAIRMAN'S REAMERS

HARDENED & GROUND



**Features:**

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

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

### 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
1/4" 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



STRAIGHT FLUTE



SPIRAL FLUTE



HELICAL FLUTE

### 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

Taper Pin Reamers • Structural Reamers

A

# 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

## High-Speed Steel Left Hand Helix

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



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



#### 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.
- Deburrs welded and punched holes.
- Built-in collar prevents overpenetration.
- Sizes .652 and .776 are primarily designed for shoulder bolts used on truck frames.



CRB10055



CR54555

BLITZ – BLACK & GOLD FINISH

ALFA USA

ECO PRO

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



5 PC. SETS  
IN A HANDY ROLL

DESCRIPTION	STOCK #
<b>ALFA USA</b> Set includes sizes: 3/8", 1/2", 9/16", 5/8" & 3/4"	CRB10065
<b>ECO PRO</b> Set includes sizes: 3/8", 1/2", 9/16", 5/8" & 3/4"	CR54565

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

Car Alignment Reamers

A

# Car Alignment Reamers

## High-Speed Steel Left Hand Helix

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



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



#### Features:

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



7/16" HEX SHANK



5 PC. SETS  
IN A HANDY ROLL

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

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

1 per pack

A-68

# 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



CDHK50465

### HSS COMBINED DRILL & COUNTERSINK SET IN A WOOD STAND

SET QTY.	SIZE RANGE	STOCK #
		ALFA USA
5 Pc.	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

*TiN coating is available.  
Details on request.*



• ALFA USA drills are made in the United States.



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

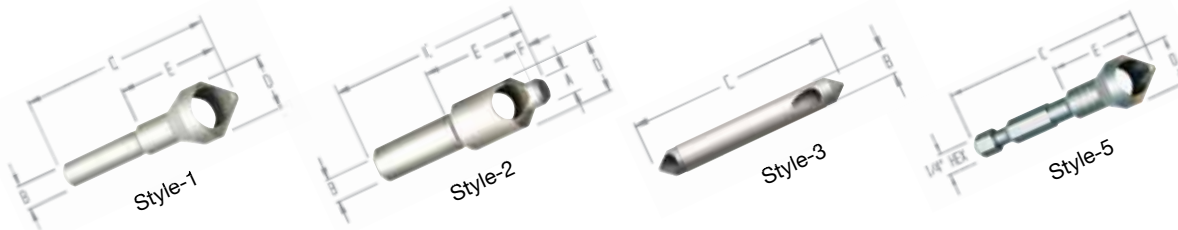


# Countersink & Deburring Tools

## 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



## 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
<b>1/4" HEX SHANK MONOLOCK®</b>											
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 Pc.	#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.



### Single Flute Countersink



ALFA USA SINGLE FLUTE **ALFA USA**

**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 **ECO PRO**

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°
<b>ALFA USA SINGLE FLUTE ALFA USA</b>					
5 Pc.	1/4", 3/8", 1/2", 3/4", 1"	CSF15020	CSF16020	CSF17020	-
<b>ECO PRO SINGLE FLUTE ECO PRO</b>					
5 Pc.	1/4", 3/8", 1/2", 3/4", 1"	CSF50570	CSF50570A	CSF50570B	CSF50570C
9 Pc.	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1"	CSF50571	CSF50571A	CSF50571B	CSF50571C
12 Pc.	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



# Countersinks - Cont.

## High-Speed Steel

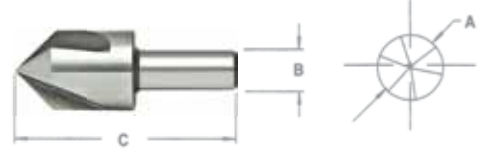


82°, 60° & 90° Point Angle  
Straight Shank

### 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

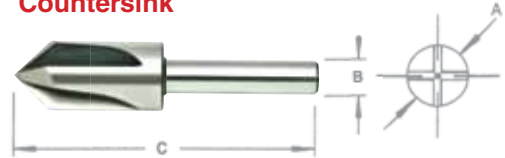
Three Flute  
Countersink/  
Center Reamer



### 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

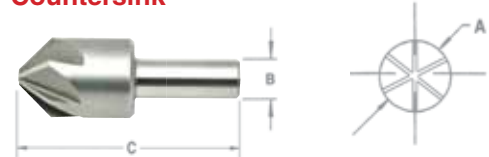
Four Flute  
Machine  
Countersink



### 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

Six Flute  
Chatterless  
Countersink



1 per pack

### MONOLOCK® FIVE FLUTE

BODY DIA.	SHANK DIA.	STOCK #	
		BULK	CARD
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



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



### SETS

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



# Carbide Countersinks

## High Performance Solid Carbide



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

Available in Single, 3 and 6 Flutes

**NEW!**

A BODY DIA.	B SHANK DIA.	C OVERALL LENGTH	STOCK #		
			82°	60°	90°
<b>SINGLE FLUTE</b>					
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
<b>THREE FLUTE</b>					
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
<b>SIX FLUTE</b>					
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

### 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.



\*Tools 3/8" and over have solid carbide heads on hardened steel shanks.

Countersinks • Counterbores

**A**

# Cap Screw Counterbores

## High-Speed Steel

- 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.



Solid Pilot  
Three Flutes  
Straight Shank



### 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

### METRIC

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



## Sleeves & Keys

### Morse Taper Shank Tools

#### DRILL SLEEVES

PRECISION MADE, HARDENED & GROUND



**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 & GROUND



**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 #
<b>STYLE "A"</b>		
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
<b>STYLE "B"</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"	<b>3/8" Hex</b> Converts a 3/8" power tool for 1/4" hex shank tools.	HSA51070
1/4"	<b>1/4" Hex</b> For the hobbyist.	HSA51071
1/4"	<b>3/8" Hex</b> Slim chuck to reach narrow areas.	HSA51072
3/8"	<b>3/8" Hex</b> For 3/8" hex shank tools.	HSA51073
7/16"	<b>7/16" Hex</b> For 7/16" hex shank tools.	HSA51074

1 per pack



Monolock® Quick Change Chucks

**A**



## 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.



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

1 per pack



## 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

## KEYLESS HAND-TITE HAMMER DRILL CHUCKS

SIZE CAPACITY				MOUNT SIZE	STOCK #	
MIN.		MAX.			JACOBS	LFA
1/16	0.062	1/2	0.500	1/2-20	—	LFA53211



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



JC30602



LFA42208

## PLAIN BEARING KEY-TYPE CHUCKS

SIZE CAPACITY				MOUNT SIZE	KEY #	STOCK #	
MIN.		MAX.				JACOBS	LFA
<b>TAPER MOUNTED - HEAVY DUTY</b>							
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 <sup>1</sup>	JC6309	LFA45308
<b>THREAD MOUNTED - HEAVY DUTY</b>							
1/8	0.125	5/8	0.625	5/8-16	K4/K3 <sup>1</sup>	JC6232	LFA84659
<b>THREAD MOUNTED - MEDIUM DUTY</b>							
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 <sup>2</sup>	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

- Jacobs K4 / LFA K3
- Jacobs K30 / LFA K32



JC6232



LFA84659

## 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 <sup>4</sup>	JC30227	LFA84556
1/8	0.125	3/4	0.750	4JT	K4	JC30233	LFA85977
3/8	0.375	1	1.000	5JT/4JT <sup>3</sup>	K5/K4 <sup>5</sup>	JC30239	LFA85960

- Jacobs 5JT / LFA 4JT
- Jacobs K4 / LFA K3
- 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



JC30248



HSA51070

Accepts 1/4" Hex Shank



K2, K3, K30, K32



KK, KG1



MK2



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

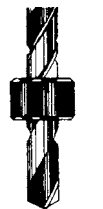
## Fast, Easy & Accurate

- 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 Pc.	1 each size: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	DC1699

1 per polybag

## MASTER KEYS - 4 in 1

- Each master key fits four different sizes of key-operated chucks.
- Center square is used as an acetylene cylinder key.

KEY #	SUITABLE FOR	STOCK #
MK1	K7; K30; KK; KG1 2 4 1 3	CK2023
MK2	K2; K3; K32; K4 8 6 7 5	CK2022

## KEY LEASH

- Attach key leash to a drill's cord to keep a chuck key close at hand.

TYPE A	K0; K1; K7; KG	CK2024
TYPE B	K30; K32; K2; KK	CK2025
TYPE C	K3	CK2026

1 per pack

- CAUTION:** All keys are heat treated to give long service life.
1. Never apply extensions, pliers, wrenches on any kind of key.
  2. Do not subject chuck keys to hammer or other impact blows.



# 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

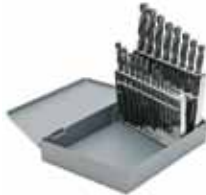
COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HSS BLITZ® NITRIDE			
Black & Silver	135° Split Pt.	Alfa USA	BBN74594
HSS 3-FLATTED			
Black Oxide	135° Split Pt.	Alfa USA	SFL50194
HSS BLITZ BITS			
Black & Gold	135° Split Pt.	Alfa USA	BB74194
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150194
Bright 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	JDLCO93194
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	JDLCO93193
SOLID CARBIDE			
Bright Finish HD	118° Point	Alfa USA	ST50193

## 21 Pc. Set

1/16" - 3/8"  
by 64ths

in metal index



## 26 Pc. Letter Size Set

A - Z

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	JDLCO93192
SOLID CARBIDE			
Bright Finish	118° Point	Alfa USA	ST50192

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.

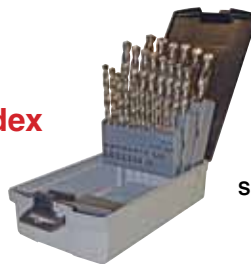
**29 Pc. Set**  
1/16" - 1/2" by 64ths  
in metal index



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	S40190TT
COBALT			
Straw Gold	135° Split Pt.	Alfa USA	CO50190
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

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HSS BLITZ BITS®			
Black & Gold	135° Split Pt.	Alfa USA	BB74199
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150199
Bright Finish	118° Point	Alfa USA	J150199B
Black Oxide	135° Split Pt.	Alfa USA	S150199
Bright Finish	135° Split Pt.	Alfa USA	S150199B
Black Oxide	118° Point	Eco Pro	J250199
Black Oxide	135° Split Pt.	Eco Pro	S250199
HSS TiN COATED			
Gold Finish	118° Point	Alfa USA	J150199TN
Gold Finish	135° Split Pt.	Alfa USA	S150199TN
COBALT			
Straw Gold	135° Split Pt.	Alfa USA	CO50199

**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

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	MJ150198A
Black Oxide	118° Point	Eco Pro	MJ250198A
COBALT			
Straw Gold	135° Split Pt.	Alfa USA	COM50198A

## 25 Pc. Metric Set

1.0 - 13.0mm  
by .5mm  
in metal index



COM50198

COATING / FINISH	POINT ANGLE	BRAND	STOCK #
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

## 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® NITRIDE			
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			
<b>15 Pc. Set 1/16" - 1/2" by 32nds</b>			
Black & Gold	135° Split Pt.	Alfa USA	BBML74293R
<b>29 Pc. Set 1/16" - 1/2" by 64ths</b>			
Black & Gold	135° Split Pt.	Alfa USA	BBML74290R

## 3/8" REDUCED SHANK JOBBER LENGTH

**15 Pc. Set**  
**1/16" - 1/2"**  
**by 32nds**  
in metal index



RS150193

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	BBS74193

**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

## 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
COBALT		
Straight Shank	135° Split Pt.	TLCO50391
<b>16 Pc. Set</b> in metal index <b>49/64" - 1" by 64ths</b>		
HIGH-SPEED STEEL		
Straight Shank	118° Standard Point	TL50392
<b>29 Pc. Set</b> in metal index <b>1/16" - 1/2" by 64ths</b>		
HIGH-SPEED STEEL		
Straight Shank	118° Standard Point	TL50393
COBALT		
Straight Shank	135° Split Pt.	TLCO50393

## 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
<b>16 Pc. Set</b> <b>49/64" - 1" by 64ths</b> in metal index			
HIGH-SPEED STEEL			
Black Oxide	118° Point	Straight Shank	TS50099

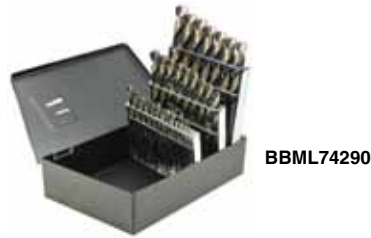
## SCREW MACHINE LENGTH DRILLS

**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
HSS BLITZ BITS			
Black & Gold	135° Split Pt.	Alfa USA	BBSM50194
<b>26 Pc. Set</b> <b>Letter Sizes</b> in metal index			
HIGH-SPEED STEEL			
Black Oxide	135° Split Pt.	Alfa USA	SM50297
<b>29 Pc. Set</b> <b>1/16" - 1/2"</b> <b>by 64ths</b> in metal index			
HIGH-SPEED STEEL			
Black Oxide	135° Split Pt.	Alfa USA	SM50290
HSS BLITZ BITS			
Black & Gold	135° Split Pt.	Alfa USA	BBSM50190
<b>60 Pc. Set</b> <b>Wire Gage #1 - #60</b> in metal index			
HIGH-SPEED STEEL			
Black Oxide	135° Split Pt	Alfa USA	SM50291

## MECHANIC'S LENGTH DRILLS



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



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



## 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



COATING / FINISH	DESCRIPTION	BRAND	STOCK #
HIGH-SPEED STEEL			
Bright finish	135° Split Pt., 1/4" Hex Shank 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 1/4" Hex Shank	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 1/4" Hex Shank	135° Split Pt.	Monolock®	HSD51083

### 29 Pc. Set

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

in metal index



HSD51051

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.

## CAR ALIGNMENT REAMERS

### 5 Pc. Set

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

in handy roll



CR54565

COATING / FINISH	SHANK TYPE	STOCK #
HSS BLITZ BITS		
Black & Gold Finish	ALFA USA	CRB10065
	1/2" Shank	
Black & Gold Finish	ECO PRO	CR54565
	1/2" Shank	
Black & Gold Finish	Monolock	CRML54565
	7/16" Shank	

## MEGADRILL™

### MULTI-PURPOSE DRILLS

### 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

COATING / FINISH	DESCRIPTION	STOCK #
HIGH-SPEED STEEL		
Black Oxide Finish	For Rotary & Rotary Percussion Drilling	MD1099
		
HIGH-SPEED STEEL		
Black Oxide Finish	For Rotary & Rotary Percussion Drilling	MD1098
Black Oxide Finish	 <b>Monolock®</b> <small>QUICK CHANGE SYSTEM</small> For Rotary & Rotary Percussion Drilling	MDML5

### 5 Pc. Set

1/8", 3/16", 1/4",  
3/8", 1/2"

in plastic index

MD1098

## ProBits™ STEP DRILL SETS

### 2 Flute Fractional Multi-Step Sizes



SET QTY.	DESCRIPTION	STOCK #
HIGH-SPEED STEEL		
3	A, B, C handy pouch	MBS3
3	A, B, C plastic case	MBS13
4	A, E, F, K plastic case	MBS14
3	A, C, F plastic case	MBS15
6	A, C, E, F, K, M plastic case	MBS16
4	C, H, K, M plastic case	MBS17
HSS TiN COATED		
3	A, B, C handy pouch	MBS3TN
3	A, B, C plastic case	MBS13TN
4	A, E, F, K plastic case	MBS14TN
3	A, C, F plastic case	MBS15TN
6	A, C, E, F, K, M plastic case	MBS16TN
4	C, H, K, M plastic case	MBS17TN



## 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



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



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



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"



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"



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"



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"



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"



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"



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



# Drill Dispensers (Complete with Drills)

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

#### Mechanic's Length

<b>BLITZ BITS PREMIUM HEAVY DUTY</b>	
Black & Gold HD 135° Split Pt.	GDCBBMLF300

Drill Dispensers

A

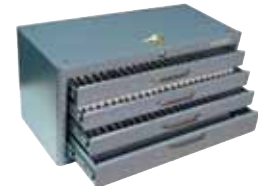
## Huot DISPENSER CABINETS WITH JOBBER DRILLS

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

DRILLS PER DISPENSER	DESCRIPTION	FINISH	STOCK #
<b>FRACTIONAL SIZES</b>			
<b>276</b> 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 General Purpose 118° Point	Black Oxide	DDJDF
	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	DCCOF

#### 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

<b>1236</b> 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

<b>276</b> 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



### ASSORTED METAL INDEXES

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

DESCRIPTION	STOCK #
<b>DRILL INDEX FOR JOBBER LENGTH</b>	
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
<b>PLASTIC DRILL MUG &amp; INDEX</b>	
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 #
<b>DRILL INDEX FOR SCREW MACHINE LENGTH</b>	
29 Pc. 1/16" - 1/2" by 64ths	DIHSM29
<b>DRILL INDEX FOR SILVER &amp; DEMING</b>	
8 Pc. 9/16" - 1" by 16ths	DIHSD8
<b>DRILL INDEX FOR TAPER LENGTH &amp; TAPER SHANK</b>	
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
<b>SCREW EXTRACTOR &amp; DRILL INDEX</b>	
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 #
<b>TAP &amp; DRILL INDEX</b>	
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.



DIH13



**Drill Dispenser**  
DIHDF13000  
**Fractional**

DIHDN13025  
**# Sizes**

DIHDL13050  
**Letter Sizes**

Stackable  
(Not Lockable)

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

### MASTER DRILL DISPENSER

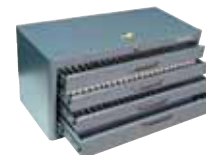
(Four Drawers)

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.



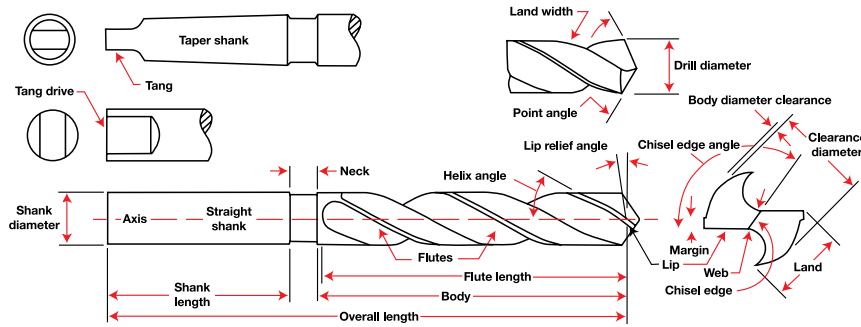
DIHTD18B



**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 <b>Lockable</b>	50 lbs.	DIHDM13175

**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.

**A-88 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.

# Hole Saws Annular Hole Cutters Mini RotaCutters

# A

## Hole Saws

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

## Annular Hole Cutters

### RotaCutters®

- NEW!** HSS . . . . . A98
- Sets and Displays . . . . . A98
- Cobalt . . . . . A99
- Carbide Tipped . . . . . A100
- NEW!** Cobalt Stack Cutters . . . . . A101
- NEW!** Cobalt Tri-Step Annular Cutters . . . . . A101
- NEW!** RotaCutter Accessories . . . . . A102

### Mini RotaCutters®

- NEW!** Sheet Metal Hole Cutters, HSS / Kits . . . . . A103
- Mini RotaCutter® Arbors and Accessories . . . A103
- Replacement Components . . . . . A103



# A

# Cobalt Bi-Metal Hole Saws

## Industrial Bi-Metal Cobalt Hole Saws



Cobalt Bi-Metal Hole Saws



- 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	3/8	550	365	HOSA62502
3/4	19			1/2	460	300	HOSA62504
7/8	22		3/4	390	260	HOSA62506	
1	25		1	350	235	HOSA62508	
1-1/8	29			300	200	HOSA62510	
1-1/4	32	TYPE B HOSA62591	1-1/4	1	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		1-1/2	1-1/4	195	130	HOSA62520
1-7/8	48				180	120	HOSA62522
2	51			170	115	HOSA62524	
2-1/8	54		2	1-1/2	160	105	HOSA62526
2-1/4	57				150	100	HOSA62528
2-3/8	60		2-1/2	2	140	95	HOSA62530
2-1/2	64				135	90	HOSA62532
2-5/8	67				130	85	HOSA62534
2-3/4	70	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	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			65	45	HOSA62564	
5-1/2	140			60	40	HOSA62568	
6	152			55	35	HOSA62572	

Pack: 1 per display box



TYPE A



TYPE B

For Arbors and Accessories,  
see page A94.

# Cobalt Bi-Metal Hole Saw Kits

## Specialty Bi-Metal Variable Pitch Hole Saw Kits



### 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



### 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	TYPE A HOSA62590	3/4	3/8	HOSA73204
7/8	22			1/2	HOSA73206
1	25			3/4	HOSA73208
1-1/8	29			1	HOSA73210
1-1/4	32	TYPE B HOSA62591	1-1/4	1	HOSA73212
1-3/8	35			HOSA73214	
1-1/2	38			HOSA73216	
1-5/8	41			HOSA73218	
1-3/4	44		1-1/2	1-1/4	HOSA73220
1-7/8	48		1-1/2	1-1/2	HOSA73222
2	51				HOSA73224
2-1/8	54		2	2	HOSA73226
2-1/4	57				HOSA73228
2-3/8	60				HOSA73230
2-1/2	64				HOSA73232
2-5/8	67		2-1/2	2	HOSA73234
2-3/4	70		3	3	HOSA73236
2-7/8	73				HOSA73238
3	76				HOSA73240
3-1/4	83				HOSA73244
3-1/2	89	3-1/2	4	HOSA73248	
3-3/4	95			HOSA73252	
4	102			HOSA73256	
4-1/4	108			HOSA73260	
4-1/2	114	4-1/2	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.



## 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	1-1/4"	1"	HOSA76009
1-3/8"				HOSA76010
1-1/2"				HOSA76011
1-3/4"				1-1/2"
1-7/8"		2"	1-1/2"	HOSA76013
2"				HOSA76014
2-1/8"				HOSA76015
2-1/4"				HOSA76016
2-3/8"	2"	2-1/2"	HOSA76017	
2-1/2"			HOSA76018	
2-3/4"			HOSA76019	
3"			2-1/2"	HOSA76020
3-1/4"			3"	HOSA76021
3-3/8"	3-1/2"	4"	HOSA76022	
3-3/4"			HOSA76023	
4"			HOSA76024	
4-1/2"			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	Inches	MM	Brick Ceramic	Slate	Reinforced Plastics	Fiber-Glass
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	Inches	MM	Brick Ceramic	Slate	Reinforced Plastics	Fiber-Glass
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

**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 #
<b>Type A</b> 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
<b>Type B</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
<b>Type E</b> 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
<b>Type F</b> 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.



PD61801



PD61802



PD61803

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



### Diamond-Ground Tungsten Carbide Teeth

- Extremely powerful and durable.

### Large Chip Clearance Slots

- Rapid, uninterrupted drilling rate.

### Power-Change Adapter

- Fast and safe securing and releasing of pilot drill bit and holesaw with just one click.
- For use in drills with drill chuck or SDS-plus shank; only drill with rotary function, deactivate impact.

## CARBIDE TIPPED HOLE SAW

For Multi-Purpose Hole Making.

**NEW!**

### 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



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

1 per pack



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 #
<b>Type A</b> 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
<b>Type B</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
<b>Type G</b> for Carbide Tipped Hole Saws	SDS Plus	1/2"-20	3/4" - 1-3/16"	M2 HSS 1/4"	—	HOSASDS1
<b>Type H</b> for Carbide Tipped Hole Saws	SDS Plus	5/8"-18	1-1/4" - 3"	M2 HSS 1/4"	—	HOSASDS2

1 per pack

**ECO PRO** • 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

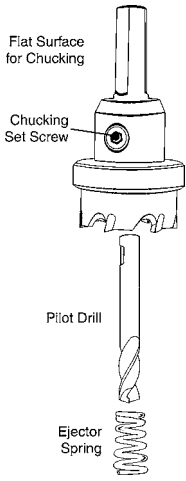


**Features:**

- 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!**



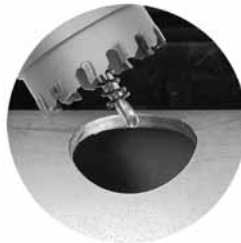
DIA.	SHANK DIA.	STOCK #
9/16"	3/8"	CHC74350
5/8"	3/8"	CHC74351
11/16"	3/8"	CHC74352
3/4"	3/8"	CHC74353
13/16"	3/8"	CHC74354
7/8"	3/8"	CHC74355
15/16"	3/8"	CHC74356
1"	3/8"	CHC74357
1-1/16"	3/8"	CHC74358
1-1/8"	3/8"	CHC74359
1-3/16"	3/8"	CHC74360
1-1/4"	3/8"	CHC74361
1-5/16"	3/8"	CHC74362
1-3/8"	3/8"	CHC74363
1-7/16"	3/8"	CHC74364
1-1/2"	3/8"	CHC74365
1-9/16"	3/8"	CHC74366
1-5/8"	3/8"	CHC74367
1-11/16"	3/8"	CHC74368
1-3/4"	3/8"	CHC74369

DIA.	SHANK DIA.	STOCK #
1-13/16"	3/8"	CHC74370
1-7/8"	3/8"	CHC74371
1-15/16"	3/8"	CHC74372
2"	3/8"	CHC74373
2-1/16"	3/8"	CHC74374
2-1/8"	3/8"	CHC74375
2-3/16"	3/8"	CHC74376
2-1/4"	3/8"	CHC74377
2-5/16"	3/8"	CHC74378
2-3/8"	3/8"	CHC74379
2-7/16"	3/8"	CHC74380
2-1/2"	3/8"	CHC74381
2-9/16"	3/8"	CHC74382
2-5/8"	1/2"	CHC74383
2-11/16"	1/2"	CHC74384
2-3/4"	1/2"	CHC74385
2-13/16"	1/2"	CHC74386
2-7/8"	1/2"	CHC74387
2-15/16"	1/2"	CHC74388
3"	1/2"	CHC74389

1 per pack

**3/16" DEPTH ACCESSORIES**

DESCRIPTION	STOCK #
HSS Pilot Drill	CHC74390
Carbide Tipped Pilot Drill	CHC74391
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.

**16 PC. CARBIDE TIPPED HOLE CUTTERS**

**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

**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

# 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".

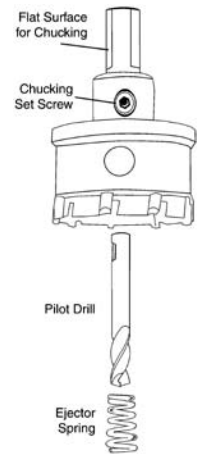


### DEPTH OF CUT 1"

**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.

Carbide Tipped Hole Cutters

**A**

## 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	RCBS84300	RCBS84350	-
1/2	RCBS84301	RCBS84351	-
9/16	RCBS84302	RCBS84352	-
5/8	RCBS84303	RCBS84353	-
11/16	RCBS84304	RCBS84354	-
3/4	RCBS84305	RCBS84355	-
13/16	RCBS84306	RCBS84356	RCBS84406
7/8	RCBS84307	RCBS84357	RCBS84407
15/16	RCBS84308	RCBS84358	RCBS84408
1	RCBS84309	RCBS84359	RCBS84409
1-1/16	RCBS84310	RCBS84360	RCBS84410
1-1/8	RCBS84311	RCBS84361	RCBS84411
1-3/16	RCBS84312	RCBS84362	RCBS84412
1-1/4	RCBS84313	RCBS84363	RCBS84413
1-5/16	RCBS84314	RCBS84364	RCBS84414
1-3/8	RCBS84315	RCBS84365	RCBS84415
1-7/16	RCBS84316	RCBS84366	RCBS84416
1-1/2	RCBS84317	RCBS84367	RCBS84417
1-9/16	RCBS84318	RCBS84368	RCBS84418
1-5/8	RCBS84319	RCBS84369	RCBS84419
1-3/4	RCBS84320	RCBS84370	RCBS84420
1-7/8	RCBS84321	RCBS84371	RCBS84421
1-15/16	RCBS84322	RCBS84372	RCBS84422
2	RCBS84323	RCBS84373	RCBS84423
2-1/8	RCBS84324	RCBS84375	RCBS84425
2-3/16	RCBS84326	RCBS84376	RCBS84426
2-1/4	RCBS84327	RCBS84377	RCBS84427



Ejector Pilots Sold Separately.

### EJECTOR PILOTS



TYPE	LENGTH	SIZE	STOCK #
<b>FOR 7/16" DIA. CUTTERS ONLY</b>			
For 1" Depth of Cut	SHORT	3/16" x 3"	RC76006
For 2" Depth of Cut	LONG	3/16" x 4"	RC76007
<b>FOR ALL OTHER CUTTERS 1/2" TO 2-1/4"</b>			
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

1 per pack

Also available TiN coated. Details on request.



### SETS



SET QTY.	SIZES	STOCK #
<b>IN STEEL INDEX</b>		
7 Pc.	1" depth x 9/16, 5/8, 11/16, 15/16, 7/8, 1. 1 Ejector Pilot	RCBS84346
<b>IN WOOD BLOCK</b>		
6 Pc.	1" depth x 9/16, 11/16, 13/16, 15/16, 1-1/16. 1 Ejector Pilot	RCBS84347
6 Pc.	2" depth x 9/16, 11/16, 13/16, 15/16, 1-1/4. 1 Ejector Pilot	RCBS84396



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

## 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.

**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

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 #
<b>IN STEEL INDEX</b>		
7 Pc.	1" depth x 9/16, 5/8, 11/16, 15/16, 7/8, 1. 1 Ejector Pilot	RCCO74346
<b>IN WOOD BLOCK</b>		
6 Pc.	1" depth x 9/16, 11/16, 13/16, 15/16, 1-1/16. 1 Ejector Pilot	RCCO74347
6 Pc.	2" depth x 9/16, 11/16, 13/16, 15/16, 1-1/4. 1 Ejector Pilot	RCCO74396

### 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



RotaCutter™

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### 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

- 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

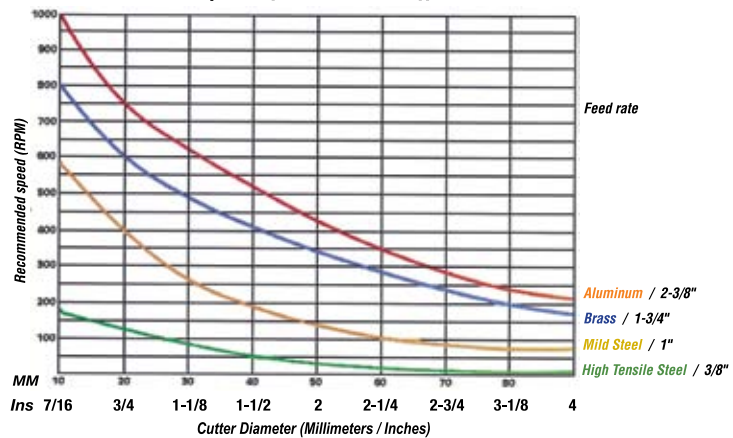
- The rate at which a cutter can penetrate material is measured in inches or millimeters per minute. Formula for calculating this is:

$$\text{Cutting rate per minute} = \text{RPM} \times T \times F$$

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

- Formula for calculating RPM is:  $\text{RPM} = \frac{1000S}{\pi D}$   
(S = cutting speed and D = 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



U.K.

- 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



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

Stack Cutters • Tri-Step Cutters

# Cobalt M42 Tri-Step Annular Cutters

## Cobalt M42



U.K.

- 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 Pc. 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



CUTTER DIAMETERS	SHANK WELDON	DEPTH OF CUT	OVERALL LENGTH	STOCK #
9/16	3/4	9/16	3-7/64	RCCO98381
11/16	3/4	9/16	3-7/64	
13/16	3/4	9/16	3-7/64	
5/8	3/4	9/16	3-7/64	RCCO98382
3/4	3/4	9/16	3-7/64	
7/8	3/4	9/16	3-7/64	
15/16	3/4	9/16	3-7/64	RCCO98383
1-1/16	3/4	9/16	3-7/64	
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 #
<b>IN FITTED TOTE CASE</b>		
6 Pc.	Contains set of Tri-Step Annular Cutters: RCCO98381, RCCO98382, RCCO98383 Ejector Pin: RCCO98384 Drill Adaptor: RCA05 4 oz. Megacut Cutting Fluid: TF7041	RCK6

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## STRAIGHT SHANK EXTENSION ADAPTORS



- 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

## 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"	15/16"	RC76002
1-1/2"	5/16"		2-1/16"		RC76003
2"	1/2"		2-1/2"		RC76004

1 per pack

## MORSE TAPER EXTENSION ADAPTORS



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

## 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

## 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

## 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



- 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.



(Separate Arbor required)

**NEW!**

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	

- **HSS (Bright)** – For general purpose ferrous and non-ferrous applications.
- **TiN Coated (Gold)** – For heavy duty high-speed ferrous and non-ferrous applications.
- **TiAIN (Purple)** – For titanium and other super hardened alloys.



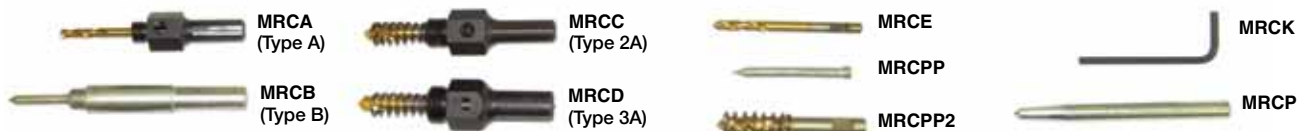
## 7 Pc. Mini ROTACUTTER™ Kits

Each kit contains:

- 5/16", 3/8", 7/16", 1/2", 9/16", 5/8" and 3/4".
- Arbor with HSS Split Point Drill. (MRCA)
- Arbor with spring loaded ejector pin. (MRCB)
- 2 depth washers. Hex Key. (MRCK)
- 1 center punch. (MRCP)
- 2 spare ejector pcs. (MRCPP)

DESCRIPTION	STOCK #
HSS Cutters	MRC7
HSS TiN Coated Cutters	MRC7TN
HSS TiAIN Coated Cutters	MRC7TIAN

Pack: 1 Cutter per Pack, Arbors Sold Separately



## 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

## 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 Pc. Kits	MRCP

Mini RotaCutter™



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## High-Speed Steel Taps & Dies

### Taps



Special Thread Taps . . . . . B2

### Multi-Purpose Taps



 Spiral Pointed . . . . . B3  
 Spiral Fluted . . . . . B3

### High Performance Taps



#### For Low Tensile Materials

 Spiral Pointed . . . . . B4  
 Spiral Fluted . . . . . B4

#### For High Tensile Materials

 Spiral Pointed . . . . . B5  
 Spiral Fluted . . . . . B5

### Hand Taps

Alfa USA® . . . . . B6  
 Eco Pro® . . . . . B7  
 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  
 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  
 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
Hexagon Rethreading . . . . .	B32
Hexagon Rethreading - NPT . . . . .	B32
Hexagon Rethreading - Left . . . . .	B32
Hexagon Rethreading - Metric . . . . .	B33
Hexagon Rethreading - Metric - Left. . . . .	B33
Round Adjustable . . . . .	B34
Round Adjustable (British Std.) Pipe Die. . . . .	B34

## Tapping Tools & Accessories

### Tapping Tools

T-Handle Tap Wrenches. . . . .	B35
<b>NEW</b> With Ratchet. . . . .	B35
With Guide. . . . .	B35
Die Stock . . . . .	B35
Adjustable Tap / Reamer Wrench . . . . .	B35
Thread Pitch Gages. . . . .	B35

### Thread Files

Universal . . . . .	B34
Thread Restoring. . . . .	B34

### Extractors & Extensions

Screw Extractors . . . . .	B36
Tap Extractors . . . . .	B37
<b>NEW</b> Tap Extensions. . . . .	B37

### Screw / Thread Inserts & Kits

Solid Screw Inserts & Kits . . . . .	B38
Helical Thread Inserts & Repair Kits . . . . .	B39-40
Screw Thread Insert (STI) Taps. . . . .	B41

## Tap & Die Sets

<b>NEW</b> High-Speed Steel / Carbon Steel Sets . . . . .	B42-44
Hexagon Rethreading Die Sets . . . . .	B45
Tap & Drill Sets . . . . .	B46
Tap Sets . . . . .	B47
Tap Dispenser Cabinets. . . . .	B48

Tap Terminology . . . . .	B49
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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



Ultimate extra life taps for tougher jobs

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

**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



## SPIRAL FLUTED TAPS

48° SPIRAL 8° - 10° HOOK



### PLUG CHAMFER

**NEW!**

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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

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

**NEW!**

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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

Multi-Purpose Taps

**B**

# High Performance Taps

For Low Tensile Materials  
(Mild Steel)



With thread relief to suit specific applications

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



## SPIRAL FLUTED TAPS

50° SPIRAL 10° - 12° HOOK



### PLUG CHAMFER

**NEW!**

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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

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

**NEW!**

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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

**B**

# 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



## SPIRAL FLUTED TAPS

24° SPIRAL 8° - 10° HOOK



### PLUG CHAMFER

NEW!

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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

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

NEW!

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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

High Performance Taps

**B**



# 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			NO. OF FLUTES	GRIND LIMITS	STOCK #			
	NC	NF	NS			TAPER	PLUG	BOTTOM	SET OF 3
<b>MACHINE SCREW SIZES</b>									
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
<b>FRACTIONAL</b>									
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 - Alfa USA

B

# 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			NO. OF FLUTES	GRIND LIMITS	STOCK #			
	NC	NF	NS			TAPER	PLUG	BOTTOM	SET OF 3
<b>MACHINE SCREW SIZES</b>									
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
<b>FRACTIONAL</b>									
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 - Eco Pro

B

B-7

# 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.



**NEW!**

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

TAP SIZE	THREADS PER INCH			NO. OF FLUTES	GRIND LIMITS	STOCK #			
	NC	NF	NS			TAPER	PLUG	BOTTOM	SET OF 3
<b>MACHINE SCREW SIZES</b>									
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
<b>FRACTIONAL</b>									
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

### 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.



Any special thread  
pitch tap is available.  
Call for details.



### 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 #	TAP SIZE x TPI	STOCK #	TAP SIZE x TPI	STOCK #	TAP SIZE x TPI	STOCK #	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		

# Metric Hand Taps - Alfa USA

## 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

Metric Hand Taps

B

TAP SIZE	PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #			
				TAPER	PLUG	BOTTOM	SET OF 3
2	0.40	3	D3	HSMTT171004	HSMTTP171004	HSMTB171004	HSMTS171004
2.2	0.45	3	D3	HSMTT171006	HSMTTP171006	HSMTB171006	HSMTS171006
2.5	0.45	3	D3	HSMTT171008	HSMTTP171008	HSMTB171008	HSMTS171008
3	0.50	3	D3	HSMTT171010	HSMTTP171010	HSMTB171010	HSMTS171010
3.5	0.60	3	D4	HSMTT171012	HSMTTP171012	HSMTB171012	HSMTS171012
4	0.70	4	D4	HSMTT171014	HSMTTP171014	HSMTB171014	HSMTS171014
4.5	0.75	4	D4	HSMTT171015	HSMTTP171015	HSMTB171015	HSMTS171015
5	0.80	4	D4	HSMTT171016	HSMTTP171016	HSMTB171016	HSMTS171016
6	1.00	4	D5	HSMTT171020	HSMTTP171020	HSMTB171020	HSMTS171020
7	1.00	4	D5	HSMTT171023	HSMTTP171023	HSMTB171023	HSMTS171023
8	1.25	4	D5	HSMTT171024	HSMTTP171024	HSMTB171024	HSMTS171024
8	1.00	4	D5	HSMTT171025	HSMTTP171025	HSMTB171025	HSMTS171025
10	1.50	4	D6	HSMTT171027	HSMTTP171027	HSMTB171027	HSMTS171027
10	1.25	4	D5	HSMTT171028	HSMTTP171028	HSMTB171028	HSMTS171028
12	1.75	4	D6	HSMTT171031	HSMTTP171031	HSMTB171031	HSMTS171031
12	1.25	4	D6	HSMTT171033	HSMTTP171033	HSMTB171033	HSMTS171033
14	2.00	4	D7	HSMTT171034	HSMTTP171034	HSMTB171034	HSMTS171034
14	1.50	4	D6	HSMTT171035	HSMTTP171035	HSMTB171035	HSMTS171035
16	2.00	4	D7	HSMTT171037	HSMTTP171037	HSMTB171037	HSMTS171037
16	1.50	4	D6	HSMTT171038	HSMTTP171038	HSMTB171038	HSMTS171038
18	2.50	4	D7	HSMTT171039	HSMTTP171039	HSMTB171039	HSMTS171039
18	1.50	4	D6	HSMTT171042	HSMTTP171042	HSMTB171042	HSMTS171042
20	2.50	4	D7	HSMTT171043	HSMTTP171043	HSMTB171043	HSMTS171043
20	1.50	4	D6	HSMTT171044	HSMTTP171044	HSMTB171044	HSMTS171044
22	2.50	4	D7	HSMTT171047	HSMTTP171047	HSMTB171047	HSMTS171047
22	1.50	4	D6	HSMTT171048	HSMTTP171048	HSMTB171048	HSMTS171048
24	3.00	4	D8	HSMTT171049	HSMTTP171049	HSMTB171049	HSMTS171049
24	2.00	4	D7	HSMTT171050	HSMTTP171050	HSMTB171050	HSMTS171050
27	3.00	4	D8	HSMTT171052	HSMTTP171052	HSMTB171052	HSMTS171052
27	2.00	4	D7	HSMTT171053	HSMTTP171053	HSMTB171053	HSMTS171053
30	3.50	4	D9	HSMTT171054	HSMTTP171054	HSMTB171054	HSMTS171054
30	2.00	4	D7	HSMTT171055	HSMTTP171055	HSMTB171055	HSMTS171055
33	3.50	4	D9	HSMTT171058	HSMTTP171058	HSMTB171058	HSMTS171058
33	2.00	4	D7	HSMTT171059	HSMTTP171059	HSMTB171059	HSMTS171059
36	4.00	4	D9	HSMTT171060	HSMTTP171060	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	HSMTTP271004	HSMTB271004	HSMTS271004
2.2	0.45	3	D3	HSMTT271006	HSMTTP271006	HSMTB271006	HSMTS271006
2.3	0.40	3	D3	HSMTT271007	HSMTTP271007	HSMTB271007	HSMTS271007
2.5	0.45	3	D3	HSMTT271008	HSMTTP271008	HSMTB271008	HSMTS271008
3	0.50	3	D3	HSMTT271010	HSMTTP271010	HSMTB271010	HSMTS271010
3.5	0.60	3	D4	HSMTT271012	HSMTTP271012	HSMTB271012	HSMTS271012
4	0.50	4	D3	HSMTT271013	HSMTTP271013	HSMTB271013	HSMTS271013
4	0.70	4	D4	HSMTT271014	HSMTTP271014	HSMTB271014	HSMTS271014
4.5	0.75	4	D4	HSMTT271015	HSMTTP271015	HSMTB271015	HSMTS271015
5	0.80	4	D4	HSMTT271016	HSMTTP271016	HSMTB271016	HSMTS271016
5	0.90	4	D4	HSMTT271017	HSMTTP271017	HSMTB271017	HSMTS271017
5	0.50	4	D3	HSMTT271018	HSMTTP271018	HSMTB271018	HSMTS271018
6	1.00	4	D5	HSMTT271020	HSMTTP271020	HSMTB271020	HSMTS271020
6	0.75	4	D3	HSMTT271021	HSMTTP271021	HSMTB271021	HSMTS271021
7	1.00	4	D5	HSMTT271023	HSMTTP271023	HSMTB271023	HSMTS271023
8	1.25	4	D5	HSMTT271024	HSMTTP271024	HSMTB271024	HSMTS271024
8	1.00	4	D5	HSMTT271025	HSMTTP271025	HSMTB271025	HSMTS271025
9	1.25	4	D5	HSMTT271026	HSMTTP271026	HSMTB271026	HSMTS271026
10	1.50	4	D6	HSMTT271027	HSMTTP271027	HSMTB271027	HSMTS271027
10	1.25	4	D5	HSMTT271028	HSMTTP271028	HSMTB271028	HSMTS271028
10	1.00	4	D5	HSMTT271029	HSMTTP271029	HSMTB271029	HSMTS271029
11	1.50	4	D6	HSMTT271030	HSMTTP271030	HSMTB271030	HSMTS271030
12	1.75	4	D6	HSMTT271031	HSMTTP271031	HSMTB271031	HSMTS271031
12	1.50	4	D6	HSMTT271032	HSMTTP271032	HSMTB271032	HSMTS271032
12	1.25	4	D6	HSMTT271033	HSMTTP271033	HSMTB271033	HSMTS271033
14	2.00	4	D7	HSMTT271034	HSMTTP271034	HSMTB271034	HSMTS271034
14	1.50	4	D6	HSMTT271035	HSMTTP271035	HSMTB271035	HSMTS271035
14	1.25	4	D5	HSMTT271036	HSMTTP271036	HSMTB271036	HSMTS271036
16	2.00	4	D7	HSMTT271037	HSMTTP271037	HSMTB271037	HSMTS271037
16	1.50	4	D6	HSMTT271038	HSMTTP271038	HSMTB271038	HSMTS271038
18	2.50	4	D7	HSMTT271039	HSMTTP271039	HSMTB271039	HSMTS271039
18	2.00	4	D7	HSMTT271040	HSMTTP271040	HSMTB271040	HSMTS271040
18	1.00	4	D5	HSMTT271041	HSMTTP271041	HSMTB271041	HSMTS271041
18	1.50	4	D6	HSMTT271042	HSMTTP271042	HSMTB271042	HSMTS271042
20	2.50	4	D7	HSMTT271043	HSMTTP271043	HSMTB271043	HSMTS271043
20	1.50	4	D6	HSMTT271044	HSMTTP271044	HSMTB271044	HSMTS271044
20	1.00	4	D5	HSMTT271045	HSMTTP271045	HSMTB271045	HSMTS271045
20	2.00	4	D7	HSMTT271046	HSMTTP271046	HSMTB271046	HSMTS271046
22	2.50	4	D7	HSMTT271047	HSMTTP271047	HSMTB271047	HSMTS271047
22	1.50	4	D6	HSMTT271048	HSMTTP271048	HSMTB271048	HSMTS271048
24	3.00	4	D8	HSMTT271049	HSMTTP271049	HSMTB271049	HSMTS271049
24	2.00	4	D7	HSMTT271050	HSMTTP271050	HSMTB271050	HSMTS271050
24	1.50	4	D6	HSMTT271051	HSMTTP271051	HSMTB271051	HSMTS271051
27	3.00	4	D8	HSMTT271052	HSMTTP271052	HSMTB271052	HSMTS271052
27	2.00	4	D7	HSMTT271053	HSMTTP271053	HSMTB271053	HSMTS271053
30	3.50	4	D9	HSMTT271054	HSMTTP271054	HSMTB271054	HSMTS271054
30	2.00	4	D7	HSMTT271055	HSMTTP271055	HSMTB271055	HSMTS271055
30	1.50	4	D6	HSMTT271056	HSMTTP271056	HSMTB271056	HSMTS271056
32	2.00	4	D7	HSMTT271057	HSMTTP271057	HSMTB271057	HSMTS271057
33	3.50	4	D9	HSMTT271058	HSMTTP271058	HSMTB271058	HSMTS271058
33	2.00	4	D7	HSMTT271059	HSMTTP271059	HSMTB271059	HSMTS271059
36	4.00	4	D9	HSMTT271060	HSMTTP271060	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

B

# Metric Hand Taps - Special Thread

## 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

Metric Hand Taps

B

TAP SIZE	PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #	
				PLUG	BOTTOM
2	0.25	3	D3	HSMT72008	HSMTB72008
2	0.45	3	D3	HSMT72009	HSMTB72009
2.5	0.50	3	D3	HSMT72011	HSMTB72011
2.6	0.35	3	D3	HSMT72012	HSMTB72012
2.6	0.45	3	D3	HSMT72013	HSMTB72013
3	0.35	3	D3	HSMT72014	HSMTB72014
3	0.60	3	D4	HSMT72015	HSMTB72015
3.5	0.50	3	D3	HSMT72016	HSMTB72016
4.5	0.50	4	D3	HSMT72018	HSMTB72018
5	0.75	4	D4	HSMT72020	HSMTB72020
5.5	0.70	4	D4	HSMT72022	HSMTB72022
5.5	0.90	4	D4	HSMT72023	HSMTB72023
6	0.50	4	D3	HSMT72024	HSMTB72024
7	0.50	4	D4	HSMT72026	HSMTB72026
7	0.75	4	D5	HSMT72027	HSMTB72027
7	1.25	4	D5	HSMT72028	HSMTB72028
8	0.50	4	D4	HSMT72029	HSMTB72029
8	0.75	4	D5	HSMT72030	HSMTB72030
8	1.50	4	D6	HSMT72031	HSMTB72031
9	0.50	4	D4	HSMT72032	HSMTB72032
9	0.75	4	D5	HSMT72033	HSMTB72033
9	1.00	4	D5	HSMT72034	HSMTB72034
10	0.50	4	D4	HSMT72036	HSMTB72036
10	0.75	4	D5	HSMT72037	HSMTB72037
11	0.50	4	D4	HSMT72039	HSMTB72039
11	0.75	4	D5	HSMT72040	HSMTB72040
11	1.00	4	D5	HSMT72041	HSMTB72041
11	1.25	4	D5	HSMT72042	HSMTB72042
12	0.50	4	D4	HSMT72044	HSMTB72044
12	0.75	4	D5	HSMT72045	HSMTB72045
12	1.00	4	D5	HSMT72046	HSMTB72046
13	0.50	4	D4	HSMT72048	HSMTB72048
13	1.00	4	D5	HSMT72049	HSMTB72049
13	1.25	4	D5	HSMT72050	HSMTB72050
13	1.50	4	D6	HSMT72051	HSMTB72051
13	2.00	4	D7	HSMT72052	HSMTB72052
14	0.50	4	D4	HSMT72053	HSMTB72053
14	0.75	4	D5	HSMT72054	HSMTB72054
14	1.00	4	D5	HSMT72055	HSMTB72055
14	1.75	4	D6	HSMT72057	HSMTB72057
15	0.50	4	D4	HSMT72058	HSMTB72058
15	1.50	4	D6	HSMT72059	HSMTB72059
15	1.00	4	D5	HSMT72060	HSMTB72060
15	2.00	4	D7	HSMT72061	HSMTB72061
16	0.50	4	D4	HSMT72062	HSMTB72062
16	0.75	4	D5	HSMT72063	HSMTB72063
16	1.00	4	D5	HSMT72064	HSMTB72064
16	1.25	4	D5	HSMT72065	HSMTB72065
17	0.50	4	D4	HSMT72066	HSMTB72066
17	1.00	4	D5	HSMT72067	HSMTB72067
17	1.50	4	D6	HSMT72068	HSMTB72068
17	2.00	4	D7	HSMT72069	HSMTB72069
18	0.50	4	D4	HSMT72070	HSMTB72070
18	1.25	4	D5	HSMT72072	HSMTB72072

TAP SIZE	PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #	
				PLUG	BOTTOM
18	1.75	4	D6	HSMT72073	HSMTB72073
19	0.50	4	D4	HSMT72075	HSMTB72075
19	1.00	4	D5	HSMT72076	HSMTB72076
19	1.50	4	D6	HSMT72077	HSMTB72077
19	2.00	4	D7	HSMT72078	HSMTB72078
20	1.25	4	D5	HSMT72080	HSMTB72080
21	1.00	4	D5	HSMT72082	HSMTB72082
21	1.50	4	D6	HSMT72083	HSMTB72083
21	2.00	4	D7	HSMT72084	HSMTB72084
21	2.50	4	D7	HSMT72085	HSMTB72085
22	1.00	4	D5	HSMT72086	HSMTB72086
22	2.00	4	D7	HSMT72087	HSMTB72087
23	1.00	4	D5	HSMT72088	HSMTB72088
23	1.50	4	D6	HSMT72089	HSMTB72089
23	2.00	4	D7	HSMT72090	HSMTB72090
23	2.50	4	D7	HSMT72091	HSMTB72091
23	3.00	4	D8	HSMT72092	HSMTB72092
24	1.00	4	D5	HSMT72093	HSMTB72093
25	1.00	4	D5	HSMT72094	HSMTB72094
25	1.50	4	D6	HSMT72095	HSMTB72095
25	2.00	4	D7	HSMT72096	HSMTB72096
25	3.00	4	D8	HSMT72097	HSMTB72097
26	1.50	4	D6	HSMT72098	HSMTB72098
26	2.00	4	D7	HSMT72099	HSMTB72099
27	1.00	4	D6	HSMT72100	HSMTB72100
27	2.50	4	D8	HSMT72101	HSMTB72101
28	1.50	4	D6	HSMT72102	HSMTB72102
28	2.00	4	D7	HSMT72103	HSMTB72103
30	1.00	4	D6	HSMT72104	HSMTB72104
30	2.50	4	D8	HSMT72106	HSMTB72106
30	3.00	4	D8	HSMT72107	HSMTB72107
32	1.50	4	D6	HSMT72108	HSMTB72108
33	1.50	4	D6	HSMT72110	HSMTB72110
34	1.50	6	D6	HSMT72112	HSMTB72112
35	1.50	6	D6	HSMT72113	HSMTB72113
38	1.50	6	D6	HSMT72114	HSMTB72114
39	1.50	6	D6	HSMT72115	HSMTB72115
40	1.50	6	D6	HSMT72116	HSMTB72116
42	1.50	6	D6	HSMT72117	HSMTB72117
42	3.00	6	D8	HSMT72118	HSMTB72118
42	4.50	6	D10	HSMT72119	HSMTB72119
45	1.50	6	D6	HSMT72120	HSMTB72120
45	3.00	6	D8	HSMT72121	HSMTB72121
45	4.50	6	D10	HSMT72122	HSMTB72122
48	1.50	8	D6	HSMT72123	HSMTB72123
48	3.00	6	D8	HSMT72124	HSMTB72124
48	4.50	6	D10	HSMT72125	HSMTB72125
48	5.00	6	D10	HSMT72126	HSMTB72126
50	1.50	8	D6	HSMT72127	HSMTB72127
50	3.00	6	D8	HSMT72128	HSMTB72128
52	1.50	8	D6	HSMT72129	HSMTB72129
52	3.00	6	D8	HSMT72130	HSMTB72130
52	5.00	6	D10	HSMT72131	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
<b>MACHINE SCREW SIZES</b>			
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
<b>FRACTIONAL</b>			
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

TAP SIZE	TPI	NO. OF FLUTES	STOCK
<b>FRACTIONAL</b>			
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

4 to 1/4", 10 per pack, 5/16" to 1/2", 5 per pack  
9/16" to 1", 3 per pack

Hand Taps - Oversize • Hand Taps - Eight Pitch

**B**

# 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

**B-13**



# 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
<b>MACHINE SCREW SIZES</b>						
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
<b>FRACTIONAL</b>						
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 #
<b>METRIC</b>					
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

Metric Left Hand Taps • Monolock Tap Bits

**B**

## 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

- 1/4" hex shanks are designed for use in power tools with quick change chucks and adapters. Also provides added stability when used in standard drill chucks.

### 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
<b>MACHINE SCREW SIZES</b>					
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
<b>FRACTIONAL</b>					
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, \*UNS  
9/16" to 3/4", 3 per pack, 7/8" to 1", 1 per pack



• ALFA USA taps are made in the United States.



• ECO PRO taps are made in Europe.

# Spiral Pointed Taps - Black Oxide

## High-Speed Steel, Ground Thread Right Hand Spiral



### 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
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
1/4"	20	2	H3	SPTB170128
1/4"	20	3	H3	SPTB170129
1/4"	28	2	H3	SPTB170130
5/16"	18	2	H3	SPTB170131
5/16"	24	2	H3	SPTB170132
3/8"	16	3	H3	SPTB170133
3/8"	24	3	H3	SPTB170134
7/16"	14	3	H3	SPTB170135
7/16"	20	3	H3	SPTB170136
1/2"	13	3	H3	SPTB170137
1/2"	20	3	H3	SPTB170138
9/16"	12	3	H3	SPTB170139
9/16"	18	3	H3	SPTB170140
5/8"	11	3	H3	SPTB170141
5/8"	18	3	H3	SPTB170142
3/4"	10	3	H3	SPTB170143
3/4"	16	3	H3	SPTB170144

0 to 1/4", 12 per pack, 5/16" to 1/2", 6 per pack, \*UNS  
9/16" to 3/4", 3 per pack



• ALFA USA taps are made in the United States.



• 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 #
<b>MACHINE SCREW SIZES</b>			
6	32	2	SPTO71511
8	32	2	SPTO71513
10	24	2	SPTO71515
10	32	2	SPTO71516
<b>FRACTIONAL</b>			
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
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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 Pointed Taps

**B**

# Spiral Fluted Taps

## High-Speed Steel Ground Thread



### 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.

### Fast Spiral

**Chamfer: Plug (3 to 5 threads) Bottoming (1 to 2 threads)**



### PLUG CHAMFER

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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 #
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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

# Pulley 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
<b>MACHINE SCREW SIZES</b>					
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
<b>FRACTIONAL</b>					
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

## 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 #
<b>MACHINE SCREW SIZES</b>					
6	32	6	3	3	HSPUT70201
8	32	6	4	3	HSPUT70202
10	24	6	4	3	HSPUT70203
10	32	6	4	3	HSPUT70204
<b>FRACTIONAL</b>					
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

# 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.

**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.



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.



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.



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

### Straight & Taper



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



• ALFA USA taps are made in the United States.



• ECO PRO taps are made in Europe.

# 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

# 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 #
<b>STRAIGHT FLUTE</b>				
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
<b>SPIRAL FLUTE</b>				
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.



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.
<b>MACHINE SCREW SIZES</b>								
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	-	-	-	-	-
<b>FRACTIONAL</b>								
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	-
<b>NPT SIZES</b>								
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



## METRIC SIZES

Expanded

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 Adjustable Dies - Metric

**B**



# 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

Round Adjustable Dies - Special Thread

**B**

SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #
<b>1" O.D.</b>		<b>1" O.D.</b>		<b>1-1/2" O.D.</b>		<b>1-1/2" O.D.</b>		<b>2" O.D.</b>	
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 #
<b>2" O.D.</b>		<b>2-1/2" O.D.</b>		<b>2-1/2" O.D.</b>		<b>3" O.D.</b>		<b>3" O.D.</b>	
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 Adjustable Dies - Special Thread

B



# 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 #
<b>1" O.D.</b>	
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 #
<b>1-1/2" O.D.</b>	
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 #
<b>2" O.D.</b>	
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
<b>2-1/2" O.D.</b>	
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 #
<b>3" O.D.</b>	
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 #
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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 #
<b>NPT SIZES</b>				
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

Hexagon Dies

**B**

# Hand Taps Carbon Steel

## Cut Thread, Right Hand Bright Finish



### 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
<b>MACHINE SCREW SIZES</b>						
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
<b>FRACTIONAL</b>						
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	CSHTP70539	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

Hand Taps Carbon Steel



B

# 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 #			
		TAPER	PLUG	BOTTOMING	SET OF 3 BOXED
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.

Taper Pipe Taps • Spark Plug Taps

# B 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:	CSMTP70855
10mm - 1.00mm	
12mm - 1.25mm	
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
<b>1" A.F.</b>			
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
<b>1-7/16" A.F.</b>			
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

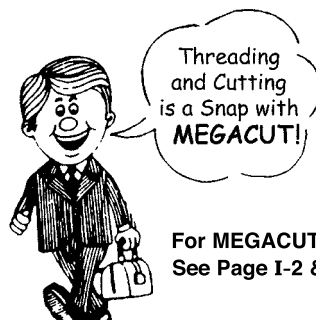
### METRIC – HEXAGON DIES

THREAD SIZE	TPI	STOCK #	
		BULK	CARDED
<b>1" A.F.</b>			
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
<b>1-7/16" A.F.</b>			
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 Rethreading Dies

High Carbon Steel



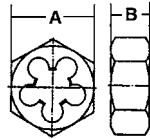
## RIGHT HAND THREAD

TAP SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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
<b>NPT SIZES</b>				
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

- 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 #
<b>MACHINE SCREW SIZES</b>				
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
<b>FRACTIONAL</b>				
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

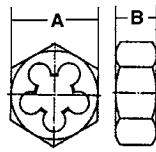
Hexagon Rethreading Dies

B

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	MHD70764
12	1.75	1-1/16	1/2	MHD70765
14	1.25	1-1/16	1/2	MHD70766
14	1.50	1-1/16	1/2	MHD70767
14	2.00	1-1/16	1/2	MHD70768
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

Hexagon Rethreading Dies

**B**



# 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.

Round Adjustable Dies

**B**

THREAD SIZE	TPI	STOCK #	
		BULK	CARDED
<b>13/16" O.D.</b>			
0	80	CSR70591	CSR70591C
1	64	CSR70592	CSR70592C
1	72	CSR70593	CSR70593C
2	56	CSR70594	CSR70594C
2	64	CSR70595	CSR70595C
3	48	CSR70596	CSR70596C
3	56	CSR70597	CSR70597C
4	40	CSR70598	CSR70598C
4	48	CSR70599	CSR70599C
<b>1" O.D.</b>			
5	40	CSR70601	CSR70601C
5	44	CSR70602	CSR70602C
6	32	CSR70603	CSR70603C
6	40	CSR70604	CSR70604C
8	32	CSR70605	CSR70605C
8	36	CSR70606	CSR70606C
10	24	CSR70607	CSR70607C
10	32	CSR70608	CSR70608C
12	24	CSR70609	CSR70609C
12	28	CSR70610	CSR70610C
1/4"	20	CSR70611	CSR70611C
1/4"	28	CSR70612	CSR70612C
5/16"	18	CSR70613	CSR70613C
5/16"	24	CSR70614	CSR70614C
3/8"	16	CSR70615	CSR70615C
3/8"	24	CSR70616	CSR70616C
7/16"	14	CSR70617	CSR70617C
7/16"	20	CSR70618	CSR70618C
1/2"	13	CSR70619	CSR70619C
1/2"	20	CSR70620	CSR70620C

THREAD SIZE	TPI	STOCK #	
		BULK	CARDED
<b>1-1/2" O.D.</b>			
1/4"	20	CSR70630	CSR70630C
1/4"	28	CSR70631	CSR70631C
5/16"	18	CSR70632	CSR70632C
5/16"	24	CSR70633	CSR70633C
3/8"	16	CSR70634	CSR70634C
3/8"	24	CSR70635	CSR70635C
7/16"	14	CSR70636	CSR70636C
7/16"	20	CSR70637	CSR70637C
1/2"	13	CSR70638	CSR70638C
1/2"	20	CSR70639	CSR70639C
9/16"	12	CSR70640	CSR70640C
9/16"	18	CSR70641	CSR70641C
5/8"	11	CSR70642	CSR70642C
5/8"	18	CSR70643	CSR70643C
3/4"	10	CSR70644	CSR70644C
3/4"	16	CSR70645	CSR70645C
<b>2" O.D.</b>			
5/8"	11	CSR70650	-
5/8"	18	CSR70651	-
3/4"	10	CSR70652	-
3/4"	16	CSR70653	-
7/8"	9	CSR70654	-
7/8"	14	CSR70655	-
1"	8	CSR70656	-
1"	12	CSR70657	-
1"	14	CSR70658	-

1 per pack

Card 1 per card

## BRITISH STANDARD ROUND ADJUSTABLE PIPE DIES

### BSPB 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

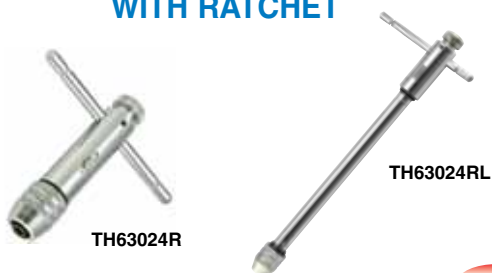
Chrome Plated for  
Square Driven Tools:  
Taps - Reamers -  
Screw Extractors



TAP SIZE	OVERALL LENGTH	STOCK #
<b>REGULAR LENGTH</b>		
#0 - 1/4"	2-3/8"	TH63021
1/4" - 1/2"	3-1/4"	TH63024
<b>LONG REACH</b>		
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



TAP SIZE	OVERALL LENGTH	STOCK #
<b>REGULAR REACH</b>		
#0 - 1/4"	3-3/8"	TH63022R
1/4" - 1/2"	4-3/8"	TH63024R
<b>EXTRA-CAPACITY</b>		
1/2" - 5/8"	4-1/4"	TH63025R
<b>LONG REACH</b>		
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.



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



SIZE	OAL	STOCK #
<b>ROUND</b>		
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
<b>HEX</b>		
1" A.F.	9"	DSH63008
1-7/16" A.F.	12"	DSH63009

1 per pack

## ADJUSTABLE TAP / REAMER WRENCH



#	SIZE	OVERALL LENGTH	STOCK #
	CAPACITY		
#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

<b>Unified 60°</b>	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
<b>Unified 60°</b>	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
<b>Unified 60°</b>	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
<b>Metric Gauge</b>	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.

### SPIRAL FLUTE SCREW EXTRACTORS



Tapered, left hand spiral flutes grip screws firmly.

SCREW EXTRACTOR SIZE #	USE DRILL SIZE	REMOVES 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

### STRAIGHT FLUTE SCREW EXTRACTORS



Straight flutes provide maximum bite.

SCREW EXTRACTOR SIZE #	USE DRILL SIZE	REMOVES 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 # 5 to 6, 6 per pack # 7 to 9, 1 per pack  
 \* Made in Japan  
**Card** # 1 to 6, 1 per card

Screw Extractors

### 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

### 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

### 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



### 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 Pc.	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



B

# Tap Extractors



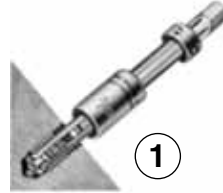
## MACHINE SCREW, FRACTIONAL & METRIC

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	—

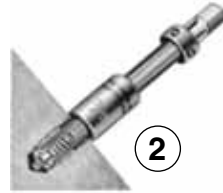
1 per pack

• 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.



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 Extractors • Tap Extensions

# 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



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	.191 sq.	.250 sq.	.142 sq.	TE40006
8	.191 sq.	.250 sq.	.169 sq.	TE40008
10 (3/16)	.191 sq.	.312 sq.	.195 sq.	TE40010
12	.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



B



# Solid Screw Inserts

## Carbon Steel

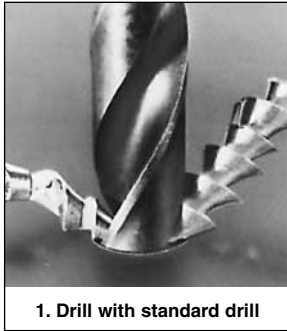


### ALFA LOK Inserts will not back out or vibrate loose

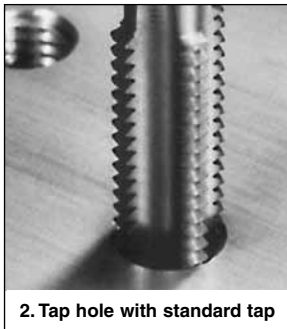
Immediately on installation, micro-encapsulated adhesive begins to set, and the newly installed inserts can be fastened within minutes. The adhesive continues to set overnight until completely set. The adhesive seals against all liquids and gases to a pressure of 6,000 psi when fully cured and bonds 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.



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.

### 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	49/64	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 5/16-18		6 1/2-13	SI67555
	10 1/4-20		10 3/8-16			
1/2" - 1" UNC		6 1/2 - 13		7 3/4 - 10		SI67556
		7 5/8 - 11		2 1-8		
#10 - 1/2" UNF	10 10-32		10 5/16-24		6 1/2-20	SI67557
	10 1/4-28		10 3/8-24			
1/2" - 1" UNF		6-1/2-20		7 3/4 - 16		SI67558
		7-5/8 - 18		2 1-14		
M8 - M12 METRIC		10 M6-1.0		10 M10-1.5		SI67559
		10 M8-1.25		8 M12-1.75		

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

# Helical Thread Inserts

HELICALLY WOUND STAINLESS STEEL  
FOR STRONG THREADS IN WEAK MATERIALS



COARSE • FINE • PIPE • METRIC • SPARK PLUG SIZES

## NC INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
4-40	0.168	No. 31	TI66210
4-40	0.224		TI66210B
6-32	0.207	No. 25	TI66212
6-32	0.276		TI66212B
8-32	0.246	11/64	TI66214
8-32	0.328		TI66214B
10-24	0.285	13/64	TI66216
10-24	0.380		TI66216B
1/4"-20	0.375	17/64	TI66220
1/4"-20	0.500		TI66220B
5/16"-18	0.468	21/64	TI66222
5/16"-18	0.624		TI66222B
3/8"-16	0.563	25/64	TI66224
3/8"-16	0.750		TI66224B
7/16"-14	0.657	29/64	TI66226
7/16"-14	0.876		TI66226B
1/2"-13	0.750	17/32	TI66228
1/2"-13	1.000		TI66228B
5/8"-11	0.938	21/32	TI66230
5/8"-11	1.250		TI66230B
3/4"-10	1.125	25/32	TI66232
3/4"-10	1.500		TI66232B
7/8"-9	1.313	29/32	TI66234
7/8"-9	1.750		TI66234B
1"-8	1.500	1-1/32	TI66236
1"-8	2.000		TI66236B

## NF INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
4-48	0.168	No. 31	TI66211
4-48	0.224		TI66211B
6-40	0.207	No. 26	TI66213
6-40	0.276		TI66213B
8-36	0.246	11/64	TI66215
8-36	0.328		TI66215B
10-32	0.285	13/64	TI66217
10-32	0.380		TI66217B
1/4"-28	0.375	17/64	TI66221
1/4"-28	0.500		TI66221B
5/16"-24	0.468	21/64	TI66223
5/16"-24	0.624		TI66223B
3/8"-24	0.563	25/64	TI66225
3/8"-24	0.750		TI66225B
7/16"-20	0.657	29/64	TI66227
7/16"-20	0.876		TI66227B
1/2"-20	0.750	33/64	TI66229
1/2"-20	1.000		TI66229B
5/8"-18	0.938	41/64	TI66233
5/8"-18	1.250		TI66233B
3/4"-16	1.125	49/64	TI66235
3/4"-16	1.500		TI66235B
7/8"-14	1.313	57/64	TI66237
7/8"-14	1.750		TI66237B
1"-12	1.500	1-1/64	TI66239
1"-12	2.000		TI66239B
1"-14	1.500	1-1/64	TI66241
1"-14	2.000		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	8.3	TI66244
M8-1.25	16.00		TI66244B
M10-1.5	15.00	10.4	TI66247
M10-1.5	20.00		TI66247B
M12-1.75	18.00	12.5	TI66250
M12-1.75	24.00		TI66250B
M14-2	21.00	14.5	TI66252
M14-2	28.00		TI66252B
M16-2	24.00	16.5	TI66254
M16-2	32.00		TI66254B
M18-2.5	27.00	18.8	TI66256
M18-2.5	36.00		TI66256B
M20-2.5	30.00	20.8	TI66258
M20-2.5	40.00		TI66258B
M22-2.5	33.00	22.8	TI66260
M22-2.5	44.00		TI66260B
M24-3	36.00	24.8	TI66262
M24-3	48.00		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	10.3	TI66265
M10-1.25	20.00		TI66265B
M10-1	15.00	10.3	TI66267
M10-1	20.00		TI66267B
M12-1.25	18.00	12.3	TI66271
M12-1.25	24.00		TI66271B
M12-1.5	18.00	12.3	TI66269
M12-1.5	24.00		TI66269B
M14-1.5	21.00	14.3	TI66273
M14-1.5	28.00		TI66273B
M16-1.5	24.00	16.5	TI66275
M16-1.5	32.00		TI66275B
M18-2	27.00	18.5	TI66277
M18-2	36.00		TI66277B
M18-1.5	27.00	18.5	TI66279
M18-1.5	36.00		TI66279B
M20-2	30.00	20.5	TI66281
M20-2	40.00		TI66281B
M20-1.5	30.00	20.5	TI66283
M20-1.5	40.00		TI66283B
M22-2	33.00	22.5	TI66285
M22-2	44.00		TI66285B
M22-1.5	33.00	22.5	TI66287
M22-1.5	44.00		TI66287B
M24-2	36.00	24.5	TI66289
M24-2	48.00		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"	12.3	TI66291
M12-1.25	3/4"		TI66291B
M14-1.25	3/8"	14.25	TI66293
M14-1.25	0.472		TI66293A
M14-1.25	7/16"		TI66293B
M14-1.25	1/2"		TI66293C
M14-1.25	3/4"		TI66293D
M18-1.5	1/2"	18.5	TI66294

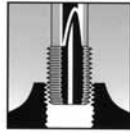
10 per pack

# Helical Thread Repair Kits

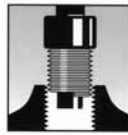
## How to use Insert-A-Thread



**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.

### 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

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

### 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

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

Helical Thread Repair Kits

**B**

1 kit per pack

## RANGE REPAIR KITS

• Each kit contains a tap and installation tool for the given size.

### UNC RANGE



SIZE	INSERT LENGTH	INSERTS PER KIT	STOCK #
1/4" - 20	0.375	10	TIK66597
5/16" - 18	0.468	5	
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	TIK66598
5/16" - 24	0.468	5	
3/8" - 24	0.563	5	
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	TIK66599
M8-1	12.00	5	
M8-1.25	12.00	5	
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

### 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
M10-1.5	TI66320
M12-1.75	TI66322
M14-2	TI66331
M16-2	TI66323
M18-2.5	TI66324
M20-2.5	TI66330
M22-2.5	TI66325
M24-3	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
M20-2	TI66330
M20-1.5	TI66330
M22-2	TI66325
M22-1.5	TI66325
M24-2	TI66326

### 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 per pack

**B-40**

# Screw Thread Insert (STI) Taps

## Premium High-Speed Steel



### Special Taps For Helical Coil Thread Inserts (Plug Style)

- 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 #
<b>MACHINE SCREW SIZES</b>		
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
<b>FRACTIONAL</b>		
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



### TAPER PIPE TAPS (NPT)

**NEW!**

STI SIZE	DRILL SIZE	DECIMAL EQUIV.	STOCK #
<b>FRACTIONAL</b>			
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

Screw Thread Insert (STI) Taps

**B**

# Tap & Die Sets

Available in Fractional, Metric or Combination Sets

NC = Coarse NF = Fine NPT = Pipe MM = Metric



Tap & Die Sets

B



TDS66012NPT

## 12 PC. PIPE TAP & RETHREADING 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
<b>Size and threads per inch (NPT sizes)</b> 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
<b>Size and threads per inch (NPT sizes)</b> 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,
<b>Size and threads per inch (Fractional sizes)</b> NC 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13			
			1 Die Stock 1" O.D. and 1 T-Handle Tap Wrench 1/8" - 1/2"



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,
<b>Size and threads per inch (Fractional sizes)</b> NC 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13			
			1 Die Stock 1" O.D. and 1 T-Handle Tap Wrench 1/8" - 1/2"
<b>NF 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20</b>			

# 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	
<b>Metric sizes: M6 - M20, 1 each tap, 1 each die</b>			
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
<b>NEW!</b> 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.
<b>NEW!</b> TDS40CM (METRIC)	HIGH CARBON	40	
<b>NEW!</b> TDS40H (HSS)	HIGH-SPEED	40	
<b>SAE Set size and threads per inch (Machine Screw &amp; Fractional sizes)</b>			
<b>NC</b> 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			
<b>NF</b> 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20			
<b>NPT</b> 1/8-27			
<b>Metric Tap and Die sizes</b>			
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



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.
<b>Metric Tap (Plug) and Die sizes</b>			
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



Tap & Die Sets

B



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



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

Hexagon Rethreading Die Sets

B



# 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
<b>NC Plug Taps with Jobber Drills</b> 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
<b>NC HSS Plug Taps with Blitz Bit Drills</b> 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	—
<b>NF Plug Taps with Jobber Drills</b> 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
<b>NF HSS Plug Taps with Blitz Bit Drills</b> 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	—
<b>Metric Plug Taps with Jobber Drills</b> 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 #	
	ALFA USA	ECO PRO
<b>NC Taps with Jobber Drills</b> 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
<b>NF Taps with Jobber Drills</b> 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

Tap & Drill Sets

B

## 36 Pc. Tap & Drill Combination Index Sets

In Metal Case  
NC & NF Threads



### HSS TAPS & HSS DRILLS

DESCRIPTION	STOCK #	
	ALFA USA	ECO PRO
<b>NC/NF Plug Taps with Jobber Drills</b> 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 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	TDSH136	TDSH236

### HIGH CARBON TAPS & HSS DRILLS

DESCRIPTION	STOCK #	
	ALFA USA	ECO PRO
<b>NC/NF Plug Taps with Jobber Drills</b> 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 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		TDSC236



• 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.



## 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
<b>HIGH-SPEED STEEL TAP SETS</b>			
10 pc.	<b>Machine Screw &amp; Fractional Plug Taps, 1 size each:</b> 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.	<b>Metric Plug Taps, 1 size each:</b> 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.	<b>Fractional Plug Taps, 1 size each:</b> 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.	<b>Machine Screw &amp; Fractional Plug Taps, 1 size each:</b> 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.	<b>Machine Screw Plug Taps, 1 size each:</b> 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
<b>CARBON STEEL SETS</b>			
10 pc.	<b>Machine Screw &amp; Fractional Plug Taps, 1 size each:</b> 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.	<b>Fractional Plug Taps, 1 size each:</b> 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



<b>HSS TAP BIT SET WITH QUICK CHANGE CHUCK</b>			
13 pc.	<b>Machine Screw &amp; Fractional Plug Taps, 1 size each:</b> 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.



## TOOLS NOT INCLUDED



### 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 #
<b>FOR MACHINE SCREW SIZES</b> 2-56 12-28 Five Drawers	13 lbs.	DIHTMS13550
<b>FOR FRACTIONAL SIZES</b> 1/4"-20 1-14 Three Drawers	10.5 lbs.	DIHTF13500
<b>FOR METRIC SIZES</b> 3mm - 24mm Three Drawers	10.5 lbs.	DIHTM13575



**Tap Dispenser  
Machine Screw Sizes**  
DIHTMS13550

**Fractional Sizes**  
DIHTMF13500

**Metric Taps**  
DIHTM13575

Stackable  
(Not Lockable)

Tap Dispenser Cabinets

## 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 <b>Lockable</b>	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

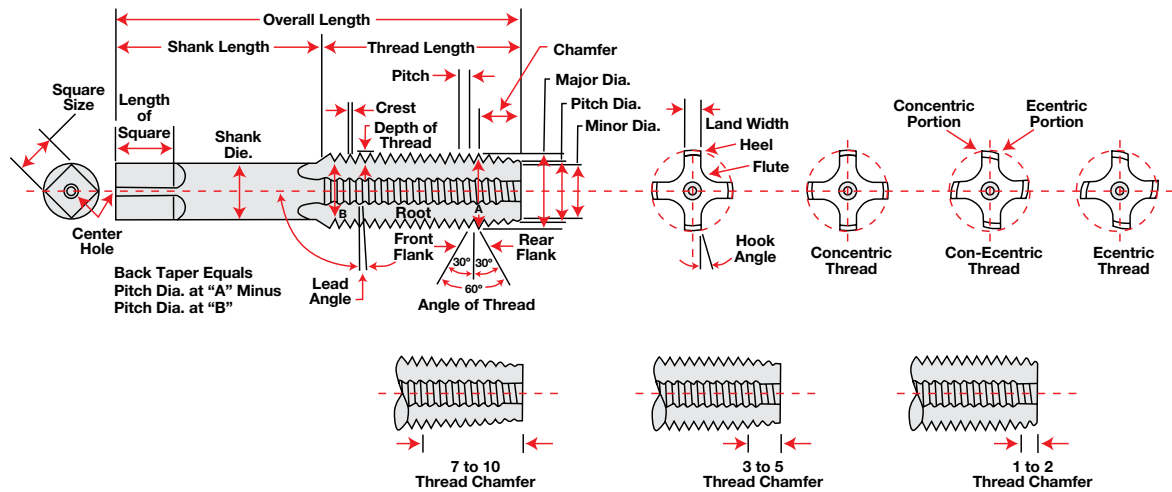
- Stores and organizes correct tap drill with corresponding tap.
- Holds 1 doz. (min.) of each size.

DESCRIPTION				WEIGHT	STOCK #
Tap	Drill	Tap	Drill	10.5 lbs.	DIHT13590
6-32	#36	1/4"-28	#3		
8-32	#29	5/16"-18	F		
10-24	#25	5/16"-24	I		
10-32	#21	3/8"-16	5/16"		
1/4"-20	#7	3/8"-24	Q		



**Tap & Drill Dispenser**  
DIHT13590  
(Not Lockable)

B



**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.

# C

## Burrs

### Carbide

Styles . . . . .	C2
Applications & Speeds . . . . .	C3
Carbide Burrs / Sets / Dispenser . . . . .	C4-6
Carbide Burrs, Long Shank . . . . .	C7
Carbide Burrs, Miniature Series / Sets . . . . .	C8
Carbide Burrs, Alumacut / Sets . . . . .	C9
<b>NEW!</b> Carbide Burr Dispenser . . . . .	C10
Carbide Fiberglass Routers . . . . .	C10

### High-Speed Steel

Rotary Files / Sets . . . . .	C11
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### Deburring Tools

Deburring Tools . . . . .	C12
Blades for Deburring Tools . . . . .	C12

## End Mills

Information & Coatings . . . . .	C13
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## Solid Carbide End Mills

### Two Flute

#### Center Cutting

Single End . . . . .	C14
<b>NEW!</b> Single End, AlTiN Coated . . . . .	C14
Single End, X-Long . . . . .	C14
<b>NEW!</b> Single End, X-Long, AlTiN Coated . . . . .	C14
Single End Stub . . . . .	C14
<b>NEW!</b> Single End Stub, AlTiN Coated . . . . .	C14
Single End Metric . . . . .	C15
<b>NEW!</b> Single End Metric, AlTiN Coated . . . . .	C15
Single End Ball . . . . .	C15
<b>NEW!</b> Single End Ball, AlTiN Coated . . . . .	C15
Double End . . . . .	C16
<b>NEW!</b> Double End, AlTiN Coated . . . . .	C16
Double End Stub . . . . .	C16
<b>NEW!</b> Double End Stub, AlTiN Coated . . . . .	C16

## Solid Carbide End Mills

### Three Flute

#### Center Cutting

Single End 60° Helix . . . . .	C16
<b>NEW!</b> Single End 60° Helix, AlTiN Coated . . . . .	C16

### Four Flute

#### Center Cutting

Single End . . . . .	C17
<b>NEW!</b> Single End, AlTiN Coated . . . . .	C17
Single End X-Long . . . . .	C17
<b>NEW!</b> Single End X-Long, AlTiN Coated . . . . .	C17
Single End Stub . . . . .	C17
<b>NEW!</b> Single End Stub, AlTiN Coated . . . . .	C17
Single End Metric . . . . .	C18
<b>NEW!</b> Single End Metric, AlTiN Coated . . . . .	C18
Single End Ball . . . . .	C18
<b>NEW!</b> Single End Ball, AlTiN Coated . . . . .	C18
<b>NEW!</b> Single End, Corner Radius . . . . .	C18
<b>NEW!</b> Single End, Corner Radius, AlTiN Coated . . . . .	C18
Double End . . . . .	C19
<b>NEW!</b> Double End, AlTiN Coated . . . . .	C19
Double End Stub . . . . .	C19
<b>NEW!</b> Double End Stub, AlTiN Coated . . . . .	C19
<b>NEW!</b> High Performance Variable Helix, AlTiN Coated . . . . .	C19
<b>NEW!</b> High Performance Ball, Variable Helix, AlTiN Coated . . . . .	C19

## Solid Carbide Roughing End Mills

<b>NEW!</b> Four Flute, Coarse Pitch . . . . .	C20
<b>NEW!</b> Four Flute, Coarse Pitch, AlTiN Coated . . . . .	C20
<b>NEW!</b> Four Flute, Coarse Pitch, Long . . . . .	C20
<b>NEW!</b> Four Flute, Coarse Pitch, Long, AlTiN Coated . . . . .	C20
<b>NEW!</b> Multi-Flute, Fine Pitch . . . . .	C20
<b>NEW!</b> Multi-Flute, Fine Pitch, AlTiN Coated . . . . .	C20

# 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
<b>NEW!</b> Single End Long . . . . .	C23
<b>NEW!</b> Single End X-Long . . . . .	C23
Single End Ball . . . . .	C23
<b>NEW!</b> Single End Ball Long . . . . .	C23
<b>NEW!</b> 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
Single End Multi Flute for Bridgeport . . . . .	C28
Shell Type Multi-Flute . . . . .	C28

### HSS Cutters

Woodruff Keyseat . . . . .	C29
Corner Rounding . . . . .	C29
Dovetail . . . . .	C29

### Tool Bits

HSS / Cobalt . . . . .	C30
Carbide Tipped Tool Bits . . . . .	C31
Indexable Insert Boring Bars . . . . .	C32

End Mill Terminology . . . . .	C33
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# 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)
<b>SOLID CARBIDE</b>	
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
<b>CARBIDE HEAD BRAZED TO STEEL SHANK</b>	
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.

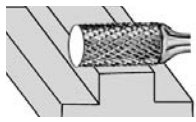
### GENERAL USE

- 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



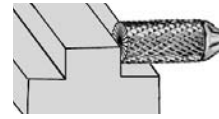
SA

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

Carbide Burrs

C



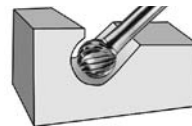
SC

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

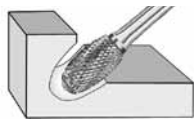
BALL

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.

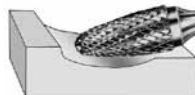


**SE**

**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



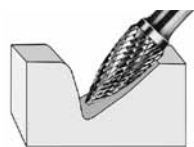
**SF**

**TREE - RADIUS END**

Expanded

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

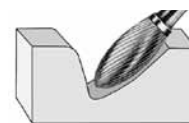


**SG**

**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

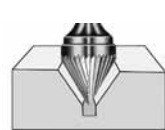


**SH**

**FLAME**

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TiN COATED
SH-1	1/4 x 5/8	B71271	B71271D	B71271DTN
SH-2	5/16 x 3/4	B71272	B71272D	B71272DTN
SH-5	1/2 x 1-1/4	B71273	B71273D	B71273DTN
SH-6	5/8 x 1-7/16	B71274	B71274D	B71274DTN
SH-7	3/4 x 1-5/8	B71275	B71275D	B71275DTN

1 per pack



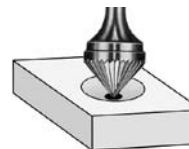
**SJ**

**60° CONE**

Expanded

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

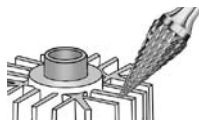
1 per pack

Chipbreaker and Diamond Cut are available on request.

Carbide Burrs

C

# Micrograin Carbide Burrs - Cont.



## 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



## SN INVERTED CONE

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #		
		SINGLE CUT	DOUBLE CUT	DOUBLE CUT TiN COATED
SN-1	1/4 x 5/16	B71276	B71276D	B71276DTN
SN-2	3/8 x 3/8	B71277	B71277D	B71277DTN
SN-4	1/2 x 1/2	B71278	B71278D	B71278DTN
SN-6	5/8 x 3/4	B71279	B71279D	B71279DTN
SN-7	3/4 x 5/8	B71280	B71280D	B71280DTN

1 per pack

*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

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #	
		SINGLE CUT	DOUBLE CUT
<b>A - CYLINDRICAL</b>			
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>B - CYLINDRICAL END CUT</b>			
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
<b>C - CYLINDRICAL RADIUS END</b>			
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
<b>D - BALL</b>			
SD-1L6	1/4	B71242L	B71242DL
SD-3L6	3/8	B71244L	B71244DL
SD-5L6	1/2	B71246L	B71246DL
<b>E - OVAL</b>			
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
<b>F - TREE RADIUS END</b>			
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
<b>G - TREE POINTED END</b>			
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
<b>H - FLAME</b>			
SH-2L6	5/16 x 3/4	B71272L	B71272DL
SH-5L6	1/2 x 1-1/4	B71273L	B71273DL
<b>L - TAPER CONE POINTED END</b>			
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
<b>M - TAPER CONE</b>			
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

- 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.

1 per pack

# Micrograin Carbide Burrs – Miniature Series



## Single Cut

- 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 #
<b>8 Pc. Set</b> <b>1/4" Head 1/8" Shank</b> Contains one each: SA-51, SB-51, SC-51, SD-51, SE-51, SF-51, SG-51, SM-51	B71288
<b>10 Pc. Set</b> <b>1/8" Head 1/8" Shank</b> 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

- Features:**
- Suitable for deburring softer non-ferrous metals and non-metallic materials.
  - Coarse cut for use on soft, stringy materials such as aluminum, magnesium, plastics, hard rubber, hard woods, etc.
  - Wide clearance and end mill type geometry of the flutes promotes fast stock removal with minimum loading.

### 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

## **Huot.** 42 PC. CARBIDE BURR DISPENSER

(Three Drawer Cabinet)



### 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



**BURR DISPENSER**  
Available without tools.

Stock # DIH13200

Note: All burrs in standard dispenser are double cut.

Burr Dispenser • Fiberglass Routers

C

## Micrograin Carbide Fiberglass Routers

### Straight Shank Diamond Cut



### 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.

SHAPE	HEAD SIZE DIA. x LENGTH IN.	STOCK #
<b>A - CYLINDRICAL</b>		
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>B - BALL SHAPE</b>		
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
<b>R - TREE-RADIUS NOSE</b>		
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
<b>T - TREE POINTED</b>		
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
<b>I - INVERTED CONE</b>		
I-471	1/2 x 1/2	BH74235
I-472	3/4 x 1/2	BH74236
<b>D - DEBURRING</b>		
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 #
<b>AE - CYLINDRICAL END CUT</b>		
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
<b>C - CYLINDRICAL ROUND</b>		
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
<b>Q - OLIVE SHAPED</b>		
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
<b>H - CONE SHAPE</b>		
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



HSS Burrs • Rotary Files





## 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>B-10</b>	10 HSS for steel & aluminum.	DT22110
<b>B-10A</b>	10 HSS for steel, aluminum and plastic.	DT22109
<b>B-20</b>	10 HSS for brass & cast iron; can rotate clockwise and counterclockwise.	DT22120
<b>B-30</b>	10 HSS; removes internal & external burrs simultaneously from holes drilled into tubing & sheet metal.	DT22130
<b>B-60</b>	10 HSS; for internal deburring, especially for inaccessible locations.	DT22135

### HEAVY DUTY “E” SERIES

<b>E-100</b>	10 Heavy Duty HSS for steel & aluminum.	DT22025
<b>E-100A</b>	10 Heavy Duty M42 steel. Good for plastic & hard materials.	DT22034
<b>E-1500</b>	10 Heavy Duty HSS for holes as small as 1/16" dia. in steel and aluminum.	DT22046
<b>E-200</b>	10 Heavy Duty HSS for brass and cast iron.	DT22030
<b>E-300</b>	10 Heavy Duty HSS; removes internal and external burrs simultaneously from holes drilled into tubing & sheet metal.	DT22040

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

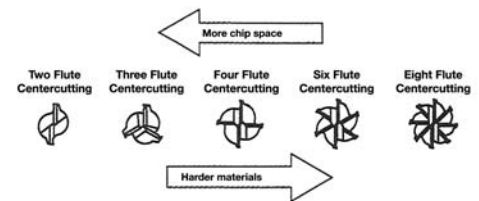
Standard Helix Angle is 30° Mill dia. Tolerance +0.000 -0.002	
<b>Max. Operating Temperature</b>	
Uncoated	750°F
TiN	1110°F
TiAlN	1450°F

## 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

**RPM** = SFM x 3.82/tool diameter

**IPM** = RPM x number of flutes x chip load

**Chip load** = IPM/RPM x number of flutes

**SFM** = .262 x tool diameter x 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
<b>TiN</b>	<ul style="list-style-type: none"> <li>• Titanium Nitride: Gold color, General Purpose coating.</li> <li>• Consists of a very hard coating on surface of tool.</li> <li>• Provides excellent wear resistance with good lubricity.</li> <li>• Reduces friction and prevents galling.</li> </ul>	<ul style="list-style-type: none"> <li>• Recommended for ferrous and non-metallic materials.</li> </ul>
<b>TiCN</b>	<ul style="list-style-type: none"> <li>• Titanium Carbonitride: Blue-Grey color, abrasion resistant coating.</li> <li>• Consists of an extremely hard coating on surface of tool.</li> <li>• Provides excellent wear resistance.</li> </ul>	<ul style="list-style-type: none"> <li>• Recommended for Silicon Aluminum, brass and bronze applications, cast iron and alloy steels.</li> <li>• Very effective at higher speeds.</li> </ul>
<b>AlTiN</b>	<ul style="list-style-type: none"> <li>• Aluminum Titanium Nitride: Blue-Black color, multi-layered high heat-resistant coating.</li> <li>• Provides excellent wear resistance.</li> <li>• Forms an aluminum oxide layer at high speeds and elevated temperatures.</li> </ul>	<ul style="list-style-type: none"> <li>• Recommended for semi and dry milling applications in high temperature alloys and hardened steel materials.</li> <li>• Very effective at higher speeds and in some tapping applications.</li> </ul>

# 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.



## 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

## 30° Right Hand Helix Right Hand Cut

## Two Flute, Single End, Center Cutting

## Two Flute, Single End, Center Cutting

Square End



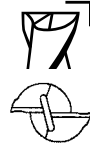
### X-Long Length

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

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	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.



## Two Flute, Single End, Metric with Metric Shanks

Square End



TOLERANCE  $+.000/-0.002$

### Regular Length

Expanded

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

Expanded

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.



### Two Flute, Double End, Center Cutting



#### Regular Length Expanded

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 Expanded

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

Solid Carbide End Mills

C

## 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 Expanded

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.



## 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

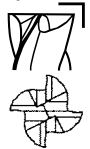
MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITiN COATED
21/64	3/8	7/8	2-1/2	SC60618	SC60618AL
11/32	3/8	7/8	2-1/2	SC60619	SC60619AL
23/64	3/8	7/8	2-1/2	SC60620	SC60620AL
3/8	3/8	7/8	2-1/2	SC60621	SC60621AL
25/64	7/16	7/8	2-1/2	SC60622	SC60622AL
13/32	7/16	7/8	2-1/2	SC60623	SC60623AL
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

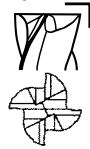
MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				UNCOATED	AITiN COATED
1/8	1/8	3/4	2	SCL60651	SCL60651AL
3/16	3/16	1-1/8	3	SCL60653	SCL60653AL
1/4	1/4	1-1/2	4	SCL60655	SCL60655AL
5/16	5/16	1-5/8	4	SCL60657	SCL60657AL
3/8	3/8	2	4	SCL60659	SCL60659AL
7/16	7/16	2	4	SCL60661	SCL60661AL
1/2	1/2	3	6	SCL60664	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



TOLERANCE  $+0.000/-0.002$



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

30° Right Hand Helix  
Right Hand Cut

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.	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

Solid Carbide End Mills

# Micrograin Solid Carbide Corner Radius End Mills

Corner Radius  
Right Hand Cut

- 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.

Four Flute, Single End



Regular Length

NEW!

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #					
				.015 RADIUS		.030 RADIUS		.060 RADIUS	
				UNCOATED	AITIN COATED	UNCOATED	AITIN COATED	UNCOATED	AITIN COATED
1/8	1/8	1/2	1-1/2	CRM71505	CRM71505AL	CRM73005	CRM73005AL	CRM70605	CRM70605AL
3/16	3/16	5/8	2	CRM71509	CRM71509AL	CRM73009	CRM73009AL	CRM70609	CRM70609AL
1/4	1/4	3/4	2-1/2	CRM71513	CRM71513AL	CRM73013	CRM73013AL	CRM70613	CRM70613AL
5/16	5/16	13/16	2-1/2	CRM71517	CRM71517AL	CRM73017	CRM73017AL	CRM70617	CRM70617AL
3/8	3/8	1	2-1/2	CRM71521	CRM71521AL	CRM73021	CRM73021AL	CRM70621	CRM70621AL
1/2	1/2	1	3	CRM71529	CRM71529AL	CRM73029	CRM73029AL	CRM70629	CRM70629AL
5/8	5/8	1-1/4	3-1/2	CRM71531	CRM71531AL	CRM73031	CRM73031AL	CRM70631	CRM70631AL
3/4	3/4	1-1/2	4	CRM71533	CRM71533AL	CRM73033	CRM73033AL	CRM70633	CRM70633AL

1 per tube

# Micrograin Solid Carbide End Mills

**30° Right Hand Helix,  
Right Hand Cut**

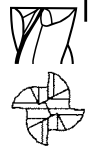


## Four Flute, Double End, Center Cutting

**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

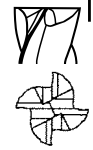
1 per tube

## 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

Solid Carbide End Mills

C

# 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



- 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

### FINE PITCH

#### Four Flute, Coarse Pitch



#### Regular Length

**NEW!**

#### 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					
1/4	1/4	1-1/8	3	SCREM50829	SCREM50829AL
3/8	3/8	1-1/4	3	SCREM50830	SCREM50830AL
1/2	1/2	2	4	SCREM50831	SCREM50831AL
5/8	5/8	2-1/4	5	SCREM50832	SCREM50832AL
3/4	3/4	2-1/4	5	SCREM50833	SCREM50833AL
1	1	2-1/4	5	SCREM50841	SCREM50841AL

1 per tube

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
AUESTENITIC 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

**Weldon Shank**  
**30° Right Hand Helix**  
**Right Hand Cut**



## 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

## 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

*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**



## 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

HSS End Mills

C

*All end mills available TiN, TiCN, AlTiN and TiAlN coated. Details on request.*

**Weldon Shank**  
**30° Right Hand Helix**  
**Right Hand Cut**



## 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	SECCL151033
5/16	3/8	1-3/8	4	3-1/8	SECCL151034
3/8	3/8	1-1/2	4	3-1/4	SECCL151035
1/2	1/2	2	4	4	SECCL151036
5/8	5/8	2-1/2	4	4-5/8	SECCL151037
3/4	3/4	3	4	5-1/4	SECCL151038
7/8	7/8	3-1/2	4	5-3/4	SECCL151039
1	1	4	4	6-1/2	SECCL151041
1-1/4	1-1/4	4	4	6-1/2	SECCL151043
1-1/4	1-1/4	4	6	6-1/2	SECCL151044
1-1/2	1-1/4	4	4	6-1/2	SECCL151045
1-1/2	1-1/4	4	6	6-1/2	SECCL151046
2	1-1/4	4	6	6-1/2	SECCL151054

### X-Long Length

**NEW!**

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

### X-Long Length

**NEW!**

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

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**

## 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

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

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

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

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

# Cobalt M42 End Mills

**Weldon Shank**  
**30° Right Hand Helix**  
**Right Hand Cut**



- 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**



- 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	
<b>Long Length</b>						
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

## Multi-Flute, Double 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	3-1/16	CO51401	
3/16	3/8	1/2	4	3-1/4	CO51403	
1/4	3/8	5/8	4	3-3/8	CO51405	
5/16	3/8	3/4	4	3-1/2	CO51407	
3/8	3/8	3/4	4	3-1/2	CO51409	
1/2	1/2	1	4	4-1/8	CO51413	
5/8	5/8	1-3/8	4	5	CO51415	
3/4	3/4	1-5/8	4	5-5/8	CO51417	

1 per tube

*All end mills available TiN, TiCN, AlTiN and TiAlN coated. Details on request.*

## TOOLS NOT INCLUDED



DIH13300  
 DIH13325  
 (Lockable)

## END MILL DISPENSER

(Three Drawers)

Dimensions: 26" W x 12" D x 9-5/16" H

DESCRIPTION	WEIGHT	STOCK #
<b>FOR TWO FLUTE END MILLS</b> Holds sizes 1/16" to 1" <b>Lockable, stackable</b>	37 lbs.	DIH13300
<b>FOR FOUR FLUTE END MILLS</b> Holds sizes 1/16" to 1" <b>Lockable, stackable</b>	37 lbs.	DIH13325





# Cobalt M42 Roughing End Mills

**30° Right Hand Helix  
Right Hand Cut  
Sinusoidal Tooth Form**



- Features:**
- A sinusoidal chipbreaker form, which produces small chips, allowing them to run at faster feed rates than conventional tools, resulting in high material removal rates.
  - Designed to machine difficult and abrasive materials ranging from medium to the highest hardness levels machinable by high-speed steel.
  - 8% cobalt content assures high edge hardness at elevated temperatures.
  - Large core diameter provides rigidity and reduces deflection.
  - Can be used for general purpose rough milling including profiling and open ended slots.

## COARSE PITCH

**Multi-Flute,  
Coarse Pitch,  
Non-Center Cutting**



**Multi-Flute, Ball Nose,  
Coarse Pitch,  
Center Cutting**



### 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

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

### 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**



**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

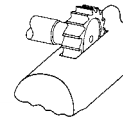
1 per pack

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.

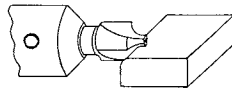
## WOODRUFF KEYSEAT CUTTERS

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

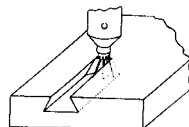


• Suitable for milling convex quarter circles on the edge of all types of materials.

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

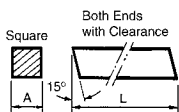
## High-Speed Steel Cobalt Steel • Ground



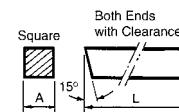
### Features:

- Designed for long lasting accurate performance and machining accuracy.
- Precisely controlled heat treatment process gives uniform hardness throughout.
- These cost effective tools offer high resistance to abrasion and even shock associated with interrupted cuts.

### HIGH-SPEED STEEL SQUARE TOOL BITS BOTH ENDS BEVELED



### COBALT STEEL M-35 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.

### 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 #
		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

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



## STYLE "BR & BL" Lead angle Turning Tool



RIGHT HAND				LEFT HAND			RIGHT HAND				LEFT HAND		
SIZE SQ x LENGTH	ANSI #	STOCK #		ANSI #	STOCK #		ANSI #	STOCK #		ANSI #	STOCK #		
		C2	C5		C2	C5		C2	C5		C2	C5	
1/4" x 2"	AR4	TBAR4C2	TBAR4C5	AL4	TBAL4C2	TBAL4C5	BR4	TBBR4C2	TBBR4C5	BL4	TBBL4C2	TBBL4C5	
5/16" x 2-1/4"	AR5	TBAR5C2	TBAR5C5	AL5	TBAL5C2	TBAL5C5	BR5	TBBR5C2	TBBR5C5	BL5	TBBL5C2	TBBL5C5	
3/8" x 2-1/2"	AR6	TBAR6C2	TBAR6C5	AL6	TBAL6C2	TBAL6C5	BR6	TBBR6C2	TBBR6C5	BL6	TBBL6C2	TBBL6C5	
7/16" x 3"	AR7	TBAR7C2	TBAR7C5	AL7	TBAL7C2	TBAL7C5	BR7	TBBR7C2	TBBR7C5	BL7	TBBL7C2	TBBL7C5	
1/2" x 3-1/2"	AR8	TBAR8C2	TBAR8C5	AL8	TBAL8C2	TBAL8C5	BR8	TBBR8C2	TBBR8C5	BL8	TBBL8C2	TBBL8C5	
5/8" x 4"	AR10	TBAR10C2	TBAR10C5	AL10	TBAL10C2	TBAL10C5	BR10	TBBR10C2	TBBR10C5	BL10	TBBL10C2	TBBL10C5	
3/4" x 4-1/2"	AR12	TBAR12C2	TBAR12C5	AL12	TBAL12C2	TBAL12C5	BR12	TBBR12C2	TBBR12C5	BL12	TBBL12C2	TBBL12C5	

1/4" to 3/8", 10 per pack, 7/16" to 3/4", 5 per pack

## STYLE "D" 80° POINTED NOSE TOOL



## STYLE "C" SQUARE NOSE TOOL



## STYLE "E" 60° THREADING 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

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

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



## STYLE "GR & GL" SIDE CUTTING OFFSET TOOL



RIGHT HAND				LEFT HAND		
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

RIGHT HAND				LEFT HAND		
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

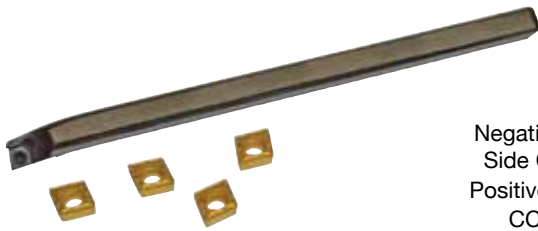


RIGHT HAND				
SIZE SQ x H x LENGTH	ANSI #	TIP WIDTH	STOCK #	
			C2	C5
1/2" x 1" x 5"	CTR11	1/8"	TBCTR11C2	TBCTR11C5
	CTR22	3/16"	TBCTR22C2	TBCTR22C5
	CTR33	1/4"	TBCTR33C2	TBCTR33C5
LEFT HAND				
1/2" x 1" x 5"	CTL11	1/8"	TBCTL11C2	TBCTL11C5
	CTL22	3/16"	TBCTL22C2	TBCTL22C5
	CTL33	1/4"	TBCTL33C2	TBCTL33C5

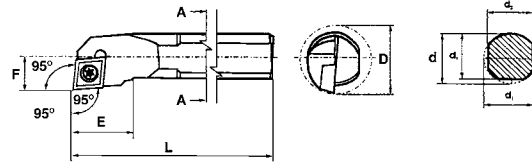
5 per pack

# 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	TORX KEY
						RH	LH	STOCK #	STOCK #
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	CCMT	BB870083R	BB870083L	SC4008	T8
SCLCR/L 10-3	5/8"	.866	8"	.4060		BB870103R	BB870103L		
SCLCR/L 12-3	3/4"	.920	10"	.5000		BB870123R	BB870123L		
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 #
<b>STAINLESS STEEL</b>				
CCMT 21.51	TiAlN	Steels, Stainless, Cast Irons, HRSA	Milling, Turning, Drilling, Threading	BBR310
CCMT 32.51	TiAlN			BBR320
CCMT 32.52	TiAlN			BBR330
<b>SHARP EDGE</b>				
CCGT 21.51	Uncoated	Aluminum, Fiberglass, Plastic, Teflon, Brass	Turning	BBR410
CCGT 32.51	Uncoated			BBR420
CCGT 32.52	Uncoated			BBR430

10 per pack

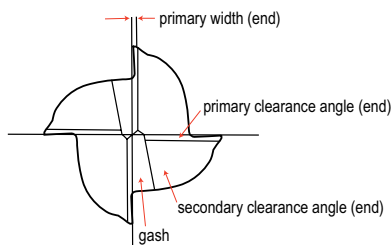
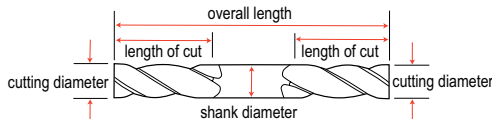
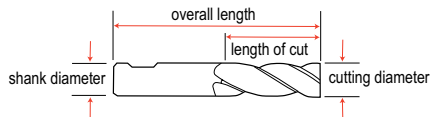
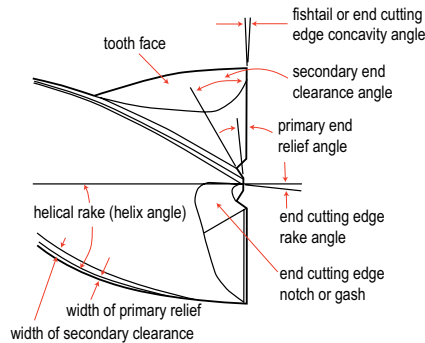
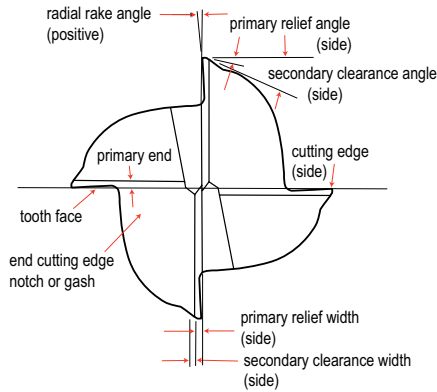
## INDEXABLE BORING BAR SETS

IN FITTED WOODEN BOX

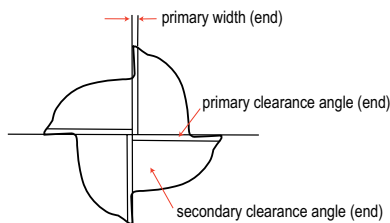


BB870500

SET QTY.	BORING BAR SIZES	INSERTS IN SET	ACCESSORIES	STOCK #
11 Pc.	1 each .315", 3/8", 1/2"	6 Pcs. CCM215L	1 Screw 1 Key	BB870500
13 Pc.	1 each 3/8", 1/2", 5/8"	2 Pcs. CCMT21.51 4 Pcs. CCMT32.52	2 Screws 2 Keys	BB870515
11 Pc.	1 each 1/2", 5/8", 3/4"	6 Pcs. CCMT32.52	1 Screw 1 Key	BB870510
19 Pc.	1 ea. .315", 3/8", 1/2", 5/8", 3/4"	4 Pcs. CCMT21.51 6 Pcs. CCMT32.52	2 Screws 2 Keys	BB870505



Center Cutting End View



Non-Center Cutting End View

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.

## MegaCut® Circular Saw Blades

- Carbide Tipped Saw Blades . . . . . D2-3
- NEW!** Carbide Tipped Saw Blades Metal Cutting . . . D4-5

## Reciprocating & Jig Saw Blades

- Recip. Cobalt Bi-Metal Saw Blades . . . . . D6
- Recip. Demolition Saw Blades . . . . . D7
- NEW!** Recip. Carbide Tipped Saw Blades . . . . . D7
- NEW!** Recip. Carbide Strip Saw Blades . . . . . D8
- NEW!** Recip. Carbide Grit Edge Saw Blades . . . . . D8
- NEW!** Recip. Diamond Grit Edge Saw Blades . . . . . D9
- NEW!** Recip. Cordless Saw Blades . . . . . D9
  
- Jig Saw Cobalt Bi-Metal Blades . . . . . D10
- Jig Saw Cobalt Bi-Metal T-Shank Blades . . . . . D10
- Jig Saw High-Carbon Steel Blades . . . . . D11
- NEW!** Jig Saw High-Carbon Steel T-Shank Blades . . D11
- NEW!** Jig Saw Carbide Strip T-Shank Blades . . . . . D11
- NEW!** Jig Saw Carbide Grit Edge T-Shank Blades . . D12
- NEW!** Jig Saw Carbide Tipped T-Shank Blades . . . . D12
- NEW!** Jig Saw Cordless T-Shank Blades . . . . . D13
  
- Air Saw Bi-Metal Blades . . . . . D13
  
- Bi-Metal Cobalt Band Saw Blades . . . . . D14
  
- Carbide Grit Rod Saws . . . . . D14
  
- Cobalt Bi-Metal Hacksaw Blades . . . . . D15
  
- Hand Hacksaw Frames . . . . . D15

## Forstner Bits

- Bormax®, The New Aggressive . . . . . D16
- NEW!** The Bormax<sup>3</sup>®, Carbide Tipped . . . . . D17
- NEW!** Super Forstner – Famag . . . . . D18
- Extension Shanks & Adaptors . . . . . D18
- Super Forstner – Eco Pro / Sets . . . . . D19
- Super Forstner – Monolock® / Sets . . . . . D19
- Multi-Spur Pipe Forstner Bit Self-Feed . . . . . D20
- Multi-Spur Forstner Bit (For Larger Holes) . . . . . D20
- Multi-Spur Forstner Bit, 7/16" Power Shank . . D20

## Wood Boring Tools

- Tenon & Plug Cutters / Set . . . . . D20
- Famag® Carbide Boring Bits / Set . . . . . D21
- Famag® Hinge Boring Bits . . . . . D21
- Bormax® Hinge Boring Bits . . . . . D21
- Carbide Tipped Dowel Drills . . . . . D22
- Carbide Tipped Through Bore Drills . . . . . D22
- Wood Screw Countersink Tool . . . . . D23
- NEW!** Famag® Vario® Adjustable Countersink . . . . . D23
- Brad Point Drills . . . . . D24-25
- NEW!** Brad Point Drills - Double Land . . . . . D25
- NEW!** Auger Bits, Ship . . . . . D26
- Auger Bits, Pipe . . . . . D27
- Auger Bits, Short, Monolock® 1/4" Shank . . . . D27
- Auger Bits, Electricians . . . . . D27
- NEW!** Auger Bits, Tri-Flute, Monolock® 1/4" Shank . . D27
- Power Bit Extensions . . . . . D27
- Bell Hanger / Feeler Bits with Fish Hole, HSS . D28
- NEW!** Bell Hanger / Feeler Bits with Fish Hole, . . . . D28  
Carbide Tipped
- Wood Spade Bits / Sets / Displays . . . . . D29
- Power Bit Extensions . . . . . D29

## Router Bits

- RouterMax™ Router Bits & Sets . . . . . D30-34
- RouterMax™ Replacement Bearings . . . . . D34

## Chisels / Striking Tools / Saws

- Drill Routers / Drill Saws . . . . . D35
- NEW!** Brad Point Drill Router / Set . . . . . D35
- NOMI™ Chisels for Fine Woodworking . . . . . D36
- NEW!** LignaCraft Wood Chisels / Sets . . . . . D36

## Shop Aids

- Oak Mallets . . . . . D37
- Flush Cut Saws . . . . . D37
- Keyhole / Trim Saws . . . . . D37
- Hand Countersinks . . . . . D37
- Dividers / Calipers . . . . . D37
- Wing Dividers . . . . . D37
- Rotary Rasp / File Set . . . . . D37
- Gimlets . . . . . D37



# Carbide Tipped Circular Saw Blades

## Carbide Tipped

# MEGACUT®



SB68001



SB67072



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



Metal Cutting

# MEGACUT®

**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.



SB69912



SB69903



SB69910

**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

Circular Saw Blades - Metal Cutting

D



## Carbide Tipped Dry Cutting

### 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.
- 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.

# MEGACUT®



SB69932



SB69920



SB69930

### 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

*Cuts faster, smoother, cooler  
and longer with MEGACUT® Cutting Lubricant*

# Reciprocating Saw Blades

## COBALT BI-METAL RECIPROCATING SAW BLADES



### 1/2" Universal Shank

The best blade technology for cutting wood and metal, including steel, stainless steel, iron, sheet metal and pipe.

#### Features:






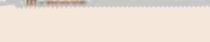


- Unique combination of features provide triple the life of standard reciprocating saw blades.
- 8% Cobalt cutting edge is electron beam welded to a high strength steel backer for greater wear resistance and longer life.
- Wide size range for virtually all cutting applications.
- Available in different thicknesses to meet flexibility and stiffness needs for various applications.



Expanded

Reciprocating Saw Blades

D

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.



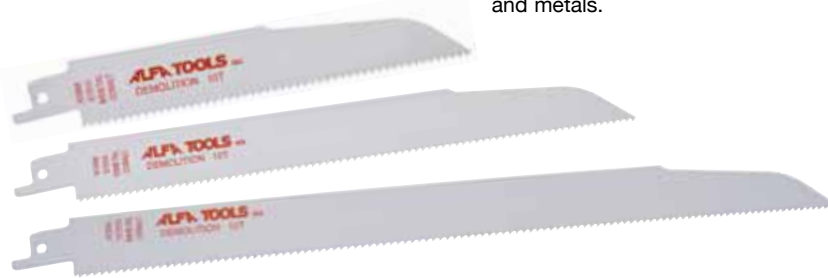
## DEMOLITION BLADES


### 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.



BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES				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	

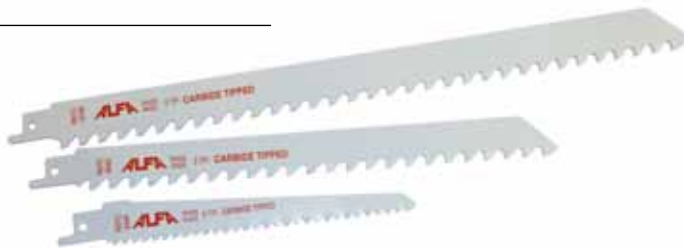
## CARBIDE TIPPED RECIPROCATING SAW BLADES




### 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.



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	RSTC9343
	12 x 7/8 x .059	300 x 22 x 1.3	3	Fiber Boards Durock Boards Hardie Boards Temper Boards	RSTC12783
	6 x 3/4 x .050	150 x 20 x 1.3	6	Plaster over Lath All Woods & Abrasive Materials	RSTC6346

Reciprocating Saw Blades

D

# 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.

Reciprocating Saw Blades

## 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.



U.K.



**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

D

# Reciprocating Saw Blades - Cont.



U.K.

## 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

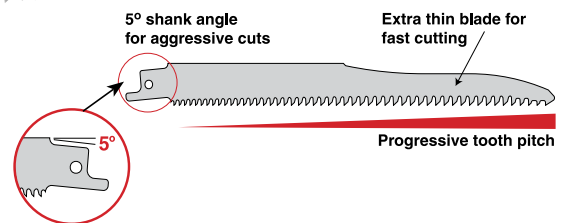
### 1/2" Universal Shank

**Features:**




- Progressive tooth pitch for rapid cuts.
- 5° shank angle.



SWISS MADE



**NEW!**

BLADE CONFIGURATION	LENGTH x WIDTH x THICKNESS		TPI	APPLICATION	STOCK #	
	INCHES	MM			BOXED	TUBED
 CORDLESS WOOD	8 x 3/4 x .039	200 x 20 x 1.0	Prog. 6-10	<b>Wood</b> Construction timber, Boards: chip, MDF, plywood, plastic, wooden panels.	RSC834	RSC834T
 CORDLESS METAL	6 x 3/4 x .035	150 x 20 x .9	Prog. 8-18	<b>Metal</b> Thin to thick sheet metal, thin to thick profiles.	RSBM6341	RSBM6341T
 CORDLESS GEN. PURPOSE	6 x 3/4 x .035	150 x 20 x .9	Prog. 6-12	<b>General Purpose</b> Wood with nails / metal, chipboards, sheet metal, aluminum profiles, plastics, reinforced plastics, profiles.	RSBM6342	RSBM6342T

Reciprocating Saw Blades

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# 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.



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

## 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
 T-SHANK	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
 T-SHANK	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

**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

**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
 T-SHANK	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
 T-SHANK	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

Jig Saw Blades

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## CARBIDE STRIP JIG SAW BLADES

### T-Shank

**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
 T-SHANK	3 x 3/8 x .040	75 x 9.3 x 1	18	Medium Thick Stainless Steel Sheets	JSCG33818
 T-SHANK	3-1/4 x 3/8 x .040	83 x 9.3 x 1	24	Thin Stainless Steel Sheets	JSCG33824

## 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.



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**NEW!**

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.



**NEW!**

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

SWISS MADE

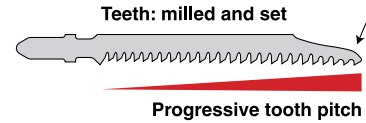
**Features:**

- Progressive tooth pitch for rapid cuts in thick and thin materials.
- T-Shank.






Special blade tilt angle specifically for battery-powered jigsaws.

Well defined hook tooth (for plunge-in cuts in wood)



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	<b>Wood</b> 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	<b>Metal</b> 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	<b>General Purpose</b> Rough cuts in wood with nails, plastics, pipes / profiles, including aluminum.	JSH4382	JSH4382T

Jig Saw Blades • Air Saw Blades

# 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

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# Portable Band Saw Blades

## Bi-Metal Cobalt Band Saw Blades



### 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		3 / BOX
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

Portable Band Saw Blades • Carbide Grit Rod Saws

## Carbide Grit Rod Saws



#### 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
<b>STANDARD (0.100 Dia.)</b>		
10"	HOSA76053	HOSA76053C
12"	HOSA76054	HOSA76054C

Bulk 100 per pack

Card 1 per card

D

# Hacksaw Blades

## Bi-Metal Cobalt



### 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

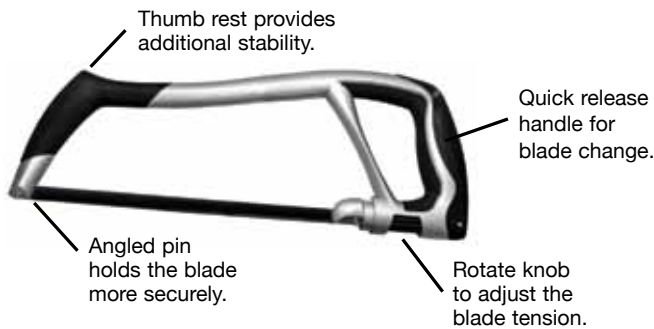
10 blades per pack

## 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.

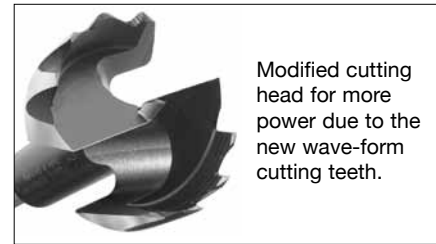
US-PAT. No. 5,975,814

US-PAT. No. 5,312,207



**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.



FBM64026



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 #
<b>5 Pc. Set</b> contains one each of sizes: 5/8", 3/4", 1", 1-1/8" & 1-3/8"	FBM64030
<b>16 Pc. Set</b> 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
<b>COUNTER DISPLAY</b>	
<b>12 - 5 Pc.</b> 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<sup>®3</sup> Forstner Bit – Carbide Tipped

## The Bormax<sup>®3</sup> Forstner Bit Carbide Tipped



### THE NEW, AGGRESSIVE FORSTNER BIT

Patented worldwide.

US-PAT. No. 5,975,814

US-PAT. No. 5,312,207

# Bormax<sup>®3</sup>

#### 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

#### BORMAX<sup>®3</sup> SETS in fitted wooden box

DESCRIPTION	STOCK #
METRIC	
<b>5 Pc. Set</b> contains one each of sizes: 15, 20, 25, 30, 35	FBM63505
FRACTIONAL	
<b>5 Pc. Set</b> contains one each of sizes: 5/8, 3/4, 1, 1-1/8, 1-3/8	FBM63605



FBM63241



FBM63505

Bormax<sup>®</sup> Forstner Bits

D

Special Tool Steel



## THE NEW, AGGRESSIVE FORSTNER BIT

Patented worldwide. Made in Germany.

US-PAT. No. 5,312,207

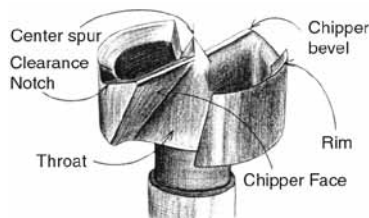


**Wunderbar!**

Made in Germany

**Features:**

- Premium quality design.
- Bores precision tear-free holes at any angle.
- New chip groove geometry.



**"BEST OVERALL QUALITY & PERFORMANCE"**  
Fine Woodworking Magazine

### SETS

in wooden box



FB61497

DESCRIPTION	STOCK #
	FAMAG
<b>4 Pc. Set</b> contains one each: 5/8", 3/4", 7/8" & 1"	FB61497
<b>7 Pc. Set</b> contains one each: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8" & 1"	FB61498
<b>16 Pc. Set</b> 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

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

Super Forstner Bits

D

### METRIC

**NEW!**

HOLE SIZE	SHANK DIA.	OVERALL LENGTH	STOCK #
			FAMAG
10	8	3-1/2	FBM61450
12	8	3-1/2	FBM61451
14	8	3-1/2	FBM61452
15	8	3-1/2	FBM61453
16	8	3-1/2	FBM61454
18	8	3-1/2	FBM61455
20	8	3-1/2	FBM61456
22	10	3-1/2	FBM61457
24	10	3-1/2	FBM61458
25	10	3-1/2	FBM61459
26	10	3-1/2	FBM61460
28	10	3-1/2	FBM61461
30	10	3-1/2	FBM61462
32	10	3-1/2	FBM61463
34	10	3-1/2	FBM61464
35	10	3-1/2	FBM61465
38	10	3-1/2	FBM61466
40	10	3-1/2	FBM61467
45	10	3-1/2	FBM61468
50	10	3-1/2	FBM61469

1 per pack



FBM61465

### 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



### 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



**Special Tool Steel**



**ROUND SHANK** ECO PRO

**Features:**

- Drills flat bottom and thru holes.
- Bores clean holes in thin stock, veneers or end grains.
- Makes PILOT HOLES for rabbeting, mortising and grooving.
- Guided by its circular rim, the Forstner Bit will cut cleanly without being deflected by grain or knots.



**MONOLOCK® SHANK**

**1/4" HEX POWER SHANK FORSTNER BITS**

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

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



FB61501

**SETS**

DESCRIPTION	STOCK #
<b>7 Pc. Set</b> contains one each: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8" & 1"	FB61501
<b>16 Pc. Set</b> 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



ML61502



**16 PC. MONOLOCK® SHANK SET**

**1/4" HEX POWER SHANK FORSTNER BITS**  
in wooden case

DESCRIPTION	STOCK #
<b>16 Pc. Set</b> 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

Super Forstner Bits

D

# ECO PRO® Multi-Spur Pipe Self-Feed Forstner Bits

## Special Tool Steel With Self-Feed Screw

### SPECIALLY FOR BORING HOLES FOR PIPES

7/16" HEX POWER SHANK

#### 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



### MULTI-SPUR FORSTNER BITS

7/16" HEX POWER SHANK

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.

Pipe Forstner Bits • Tenon & Plug Cutters

D

## 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 Pc. Set contains one each: 3/8", 1/2", 5/8", 3/4", 1"		TPC61448

1 per pack

Set individually boxed



TPC61448

### PLUG CUTTER



Four blade cutter gives smooth chamfered plug

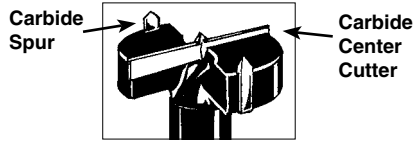
PLUG CUTTER		SHANK	STOCK #
DIA.	LENGTH		
3/8	1/2	3/8	PC61430
1/2	1/2	3/8	PC61434
5/8	3/4	3/8	PC61436
3/4	3/4	1/2	PC61438
1	3/4	1/2	PC61442

1 per pack

D-20

# FAMAG® Carbide Boring Bits

## Carbide Tipped Super Precision



### 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.



**5 Pc. 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

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.



CARBIDE TIPPED

ALLOY STEEL

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.

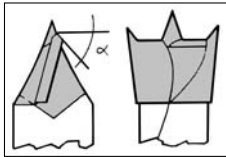
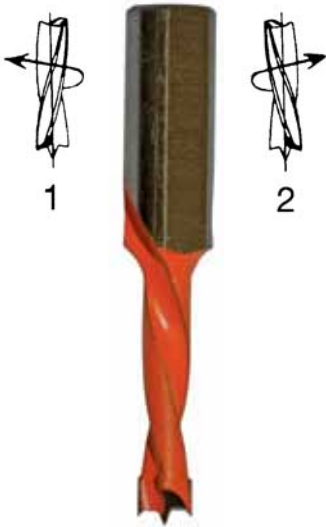


HOLE SIZE, MM	SHANK DIA. (MM)	OVERALL LENGTH	STOCK #
26	10	2-1/2"	FBM64050
35	10	2-1/2"	FBM64051

1 per pack

# Carbide Tipped Dowel Drills

Carbide Tipped Dowel Drills & Through Bore Drills



DDS3

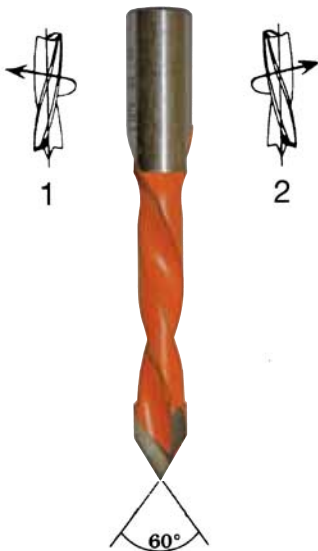
- Features:**
- For drilling tear-free and accurate holes in solid wood, panel material and plastic laminate boards.
  - Centering tip, 2 cutting edges, 2 spurs, cylindrical shank with flat and length adjusting screw.
  - High cutting quality achieved by negatively ground spurs.
  - Spiral flute coated 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
<b>3 Pc. DOWEL DRILL SET</b>					
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



- 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: 1 per pack



Countersink with depth collar

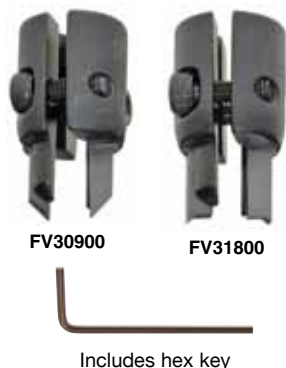


• ECO PRO Screw Countersink tools are made outside the United States to ALFA TOOLS' specifications.

Countersink Tools

# FAMAG® Vario Adjustable Countersink

## Carbide Tipped



### 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.

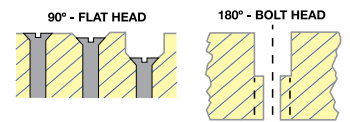
**NEW!**

SCREW STYLE	COUNTERSINK ANGLE	STOCK #
Flat Head	90°	FV30900
Bolt Head	180°	FV31800

1 per pack

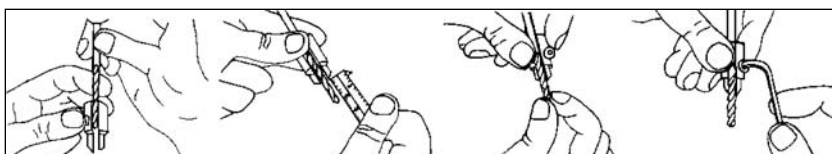


Made in Germany

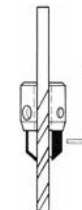


Drill not included.

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

### Super Wear Resistant Chrome Vanadium 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



DESCRIPTION	STOCK #
<b>3 Pc. Set</b> in Vinyl Pouch Sizes: 3/16", 1/4", 5/16"	BPW61133P
<b>5 Pc. Set</b> in Vinyl Pouch Sizes: 1/4", 5/16", 3/8", 7/16", 1/2"	BPW61135P
<b>7 Pc. Set</b> in Vinyl Pouch. Sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	BPW61137P
<b>7 Pc. Set</b> in Plastic Case. Sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	BPW61137S
<b>7 Pc. Metric Set</b> 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 Vanadium Steel

DESCRIPTION	STOCK #
6 ea.: 1/8", 5/32", 3/16", 1/4"	BPW36
3 ea.: 5/16", 3/8", 7/16", 1/2"	

Individually pouched



BPW61136B

## CARBIDE TIPPED BRAD POINT DRILL SET

DESCRIPTION	STOCK #
5 Pc. 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

**NEW!**

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 Pc. Set contains one each: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	DLB62250
7 Pc. Metric Set contains one each: 4, 5, 6, 7, 8, 10, 12 mm	DLB62360



DLB62250

### Features:

- Precision ground brad point drills bore clean and accurate holes in wood, composites and fiber materials.

Double land flute geometry ensures:

- Long tool life.
- Clean and smooth hole interiors.
- Burr-free exit holes.
- Fast chip ejection.

### METRIC

DRILL SIZE MM	SHANK DIA. MM	FL MM	OAL MM	STOCK #
				POUCHED
4	4	43	75	DLB62301
5	5	52	86	DLB62302
6	6	57	93	DLB62303
7	7	69	109	DLB62304
8	8	75	117	DLB62305
9	9	80	120	DLB62306
10	10	87	133	DLB62307
11	8	89	142	DLB62308
12	8	96	151	DLB62309
13	8	96	151	DLB62310
14	10	96	151	DLB62311
15	10	100	160	DLB62312
16	10	100	160	DLB62313
17	10	108	170	DLB62314
18	10	130	180	DLB62315
20	10	135	200	DLB62316

Individually pouched



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

# Ship Auger Bits

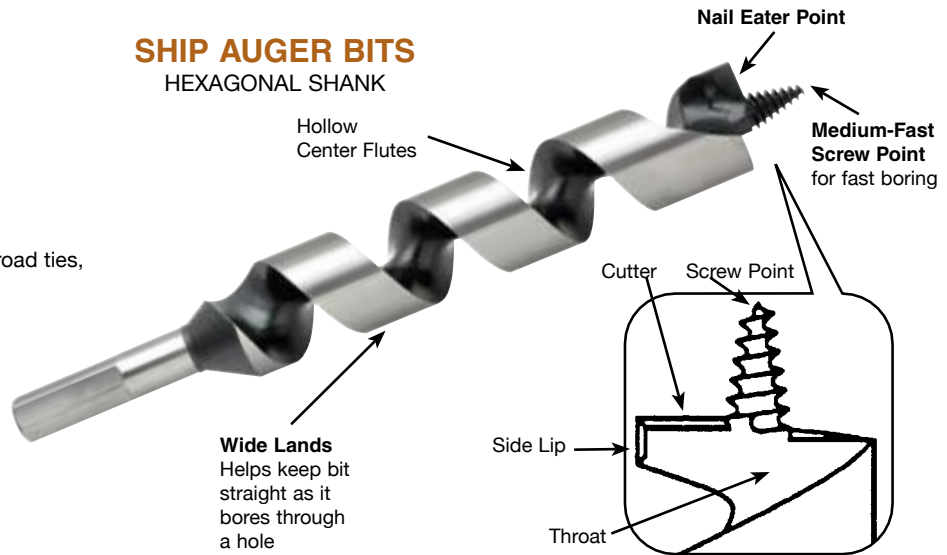
## Made Of Premium Steel

### 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

### 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



### 18" OAL LONG SERIES

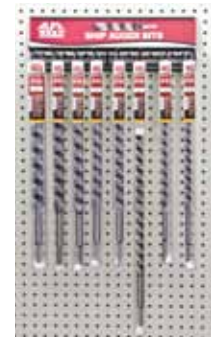
BORE DIA.	HEX SHANK	FLUTE LENGTH	OAL	STOCK #	
					TUBED
3/8	5/16	12	18	AUG61308	
1/2	5/16	12	18	AUG61309	
9/16	7/16	12	18	AUG61311	
5/8	7/16	12	18	AUG61316	
11/16	7/16	12	18	AUG61321	
3/4	7/16	12	18	AUG61326	
13/16	7/16	12	18	AUG61331	
7/8	7/16	12	18	AUG61336	
15/16	7/16	12	18	AUG61341	
1	7/16	12	18	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

### 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





## 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

## 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



## 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

**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.

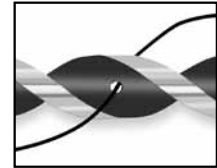
# Bell Hanger – Feeler Bits with Fish Hole

## 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 Pc. CARBIDE TIPPED WALL DISPLAY

STOCK # TCBH16			
<b>18" OAL</b>	Contains 2 each:		<b>24" OAL</b>
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.

## 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 Bits

D



### WOOD SPADE BIT WALL DISPLAYS

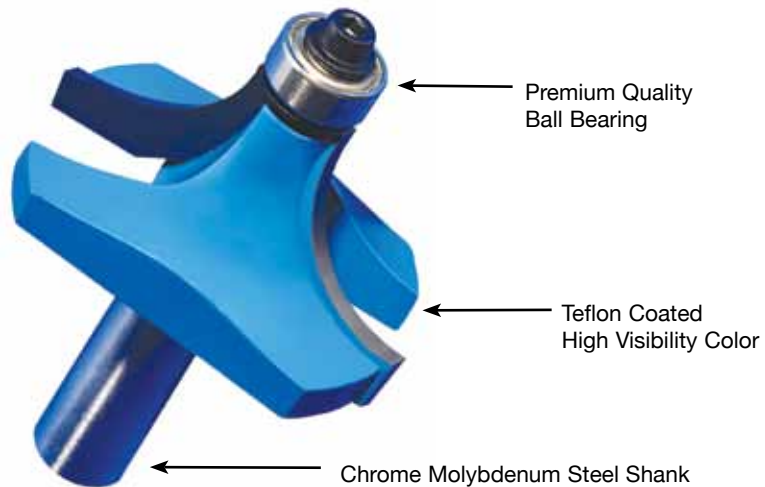
DESCRIPTION	STOCK #
30 Pc. Wall Display 5 ea.: 3/8", 1/2", 5/8", 3/4", 7/8", 1" ALL 6-1/8" OAL Bits	WSB61193
18 Pc. Wall Display 3 ea.: 3/8", 1/2", 5/8", 3/4", 7/8", 1" ALL 16" OAL Bits	WSB61194



• 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.



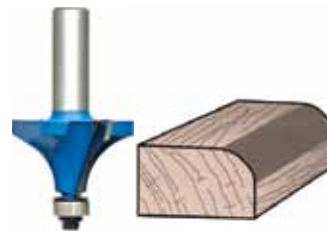
## EDGE FORMING BITS

### 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



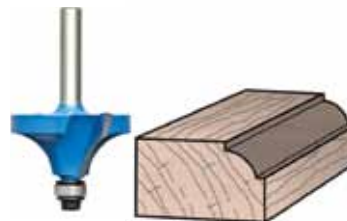
The most popular edge-forming bit. These shear angle bits create a perfect radius edge by slicing through the wood like a knife to reduce or eliminate wood fiber tear-out.

### 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.

## Carbide Tipped

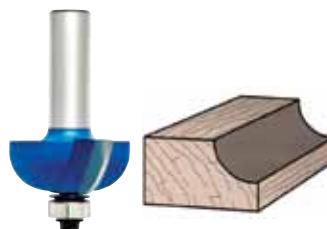
### EDGE FORMING BITS

#### 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



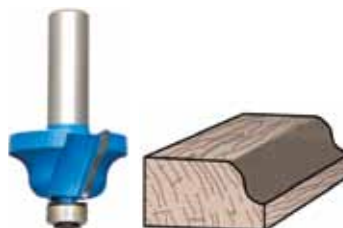
This classical design combines a bead with a cove. For use on 5/8" and 3/4" materials.

#### 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



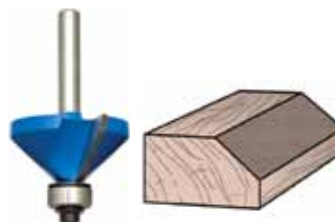
This bit will create a full bead or a full round edge. Excellent for casement and staircase work.

#### 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



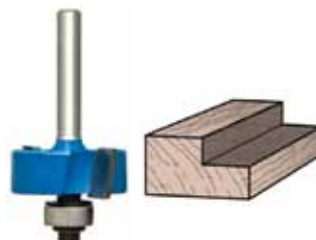
This full shoulder chamfer bit design allows you to make both the standard cut as well as a cut with a bead. The angled cutting edge gives a very clean cut.

#### 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.

## 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 dados, 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.

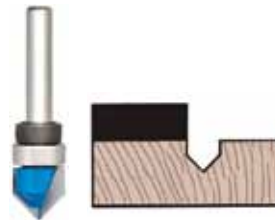
### GROOVE FORMING BITS

#### 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

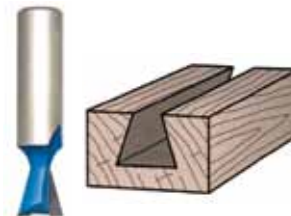
Groove forming bits – cabinet drawers and furniture

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



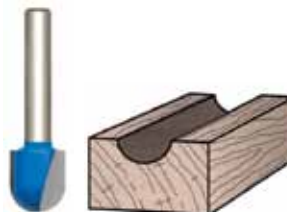
Used for cutting when a pattern is mounted on top of work piece. Shear angle provides a good chip clearance.

#### 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.

## Carbide Tipped

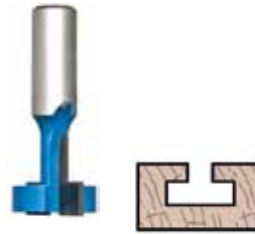
## SPECIALTY BITS

### 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



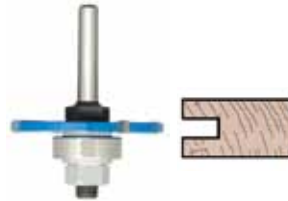
This bit creates slots on wall paneling for commercial display hanging.

### 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



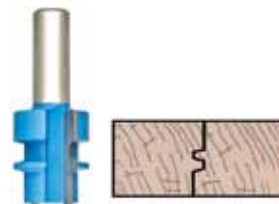
Used in the construction trade to rout cutouts in floors, ceilings and panels for electrical boxes and windows.

### 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



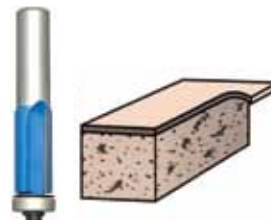
These bits are used for joining 3/4" to 1" stock to make wide panels for table tops and other projects. Align the bit to the center of the stock and simply reverse the board for a perfect glue joint.

### 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®.

## 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

Router Max™

D

## 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



### 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

## 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



### SET

**NEW!**

DESCRIPTION	STOCK #
<b>6 Pc. Set in Wood Case – 1 ea.:</b> 5/32", 1/4", 5/16", 3/8", 1/2" 1/2" Countersink	DS50119

## 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 #
<b>3 Pc. Set – 1 ea.:</b> 3/8", 1/2", 5/8"	WC66951
<b>10 Pc. Set – 1 ea.:</b> 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-3/8", 1-1/2", 1-5/8"	WC66952

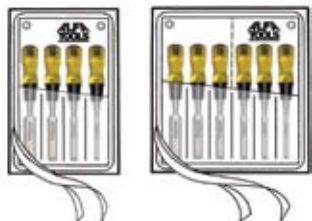
Sharpening and care instruction sheet supplied with each chisel.

Wood Chisels

D

## LignaCraft Wood Chisels

**Wood Chisels, Drop Forged  
With Metal Striking Cap Handles**



## CHISEL SETS

**NEW!**

DESCRIPTION	STOCK #
<b>4 Pc. Set – 1 ea.:</b> 1/4", 1/2", 3/4", 1"	WCP04
<b>6 Pc. Set – 1 ea.:</b> 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

## OAK MALLET



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.

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

## TRIM SAW



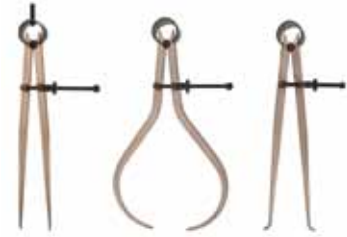
**Features:**

- 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.

## 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

**E****Screw Driving Accessories**

Screwdriver Bit Technical Information . . .	E1-3
Insert Bits / Power Bits . . . . .	E4-8
Insert Bits Tamperproof . . . . .	E9
<b>NEW!</b> Torsion-buffer Grooved Bits . . . . .	E10
<b>NEW!</b> Merchandiser / Dispenser . . . . .	E10
Bit Holders / Magnetic . . . . .	E11
<b>NEW!</b> 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

**Screwtech® Screwdrivers & Nut Drivers**

Screwdrivers Quick Change . . . . .	E16-17, 23
Screwdrivers Custom Imprint . . . . .	E16-17
Screwdrivers & Displays . . . . .	E18-19
Nut Drivers & Displays . . . . .	E20
<b>NEW!</b> Wing Nut Drivers . . . . .	E20
Specialty Screwdrivers . . . . .	E21
Hangerbolt Driver . . . . .	E21
Professional Screwdriver Sets . . . . .	E21
<b>NEW!</b> Screwdrivers High-Voltage . . . . .	E22
<b>NEW!</b> Screwdrivers Electrician's . . . . .	E22
Screwdrivers Marine . . . . .	E23
<b>NEW!</b> 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

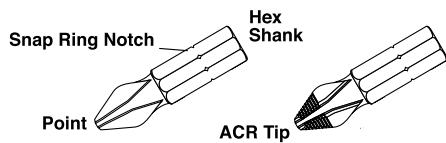
Profile	Phillips®	Square Recess (Robertson®)	Slotted®	Phillips Square-Drive®	Pozidriv®	Torx®	Hex	Torx® w/pin	Tri-Wing®	Hex w/pin	Spanner
Automotive	■		■		■	■	■	■		■	
Aviation	■		■			■	■	■	■	■	
Appliance	■	■	■	■	■	■		■			
Furniture	■	■	■								
Construction/Decking	■	■	■	■	■						
Public Transportation	■		■	■				■			
Electronics	■		■			■		■			
HVAC	■	■	■					■			
Recreation	■		■								
Hobby	■		■								
Marine	■		■								
Security		■						■	■	■	■
Drywall	■										
Subfloor	■										
Machine Tools/Metal						■	■				

• Tri-Wing®, Pozidriv®, ACR®, Phillips Square-Drive® 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

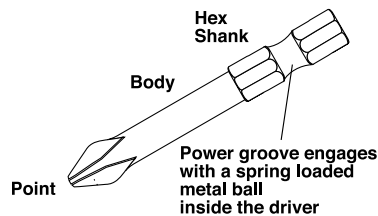


**Insert Bits** are engineered for use in hand driving applications or with power tools when used with insert bit holder. These compact bits are economical, change over quickly and require less storage space. Available in 1" OAL with 1/4" hex shank and 1-1/4", 1-1/2" OAL with 5/16" shank.

#### Features:

- Compact 1" standard length.
- Wide variety of point sizes to fit many different applications.
- Bits are milled for a precise fit.

### POWER BITS

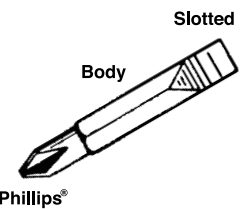


**Power Bits** are specifically built for the higher torque requirements of power tools. They fit directly into the power tool for improved concentricity and easier clearance. They are 1-15/16" and up OAL with 1/4" hex power shanks.

#### 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
<b>1/4" Hex Insert Bits</b>		
#1 x 1"	440-1X	HSB15802
#2 x 1"	440-2X	HSB15803
#3 x 1"	440-3X	HSB15804
<b>1/4" Hex Insert Bits - Reduced</b>		
#1 x 1"	446-1X	HSB15806
#2 x 1"	446-2X	HSB15805
<b>ACR® 1/4" Hex Insert Bits</b>		
#1 x 1"	440-1-ACR1X	HSB26110
#2 x 1"	440-2-ACR2X	HSB26111
#3 x 1"	440-ACR3X	HSB26112
<b>ACR® 1/4" Hex Insert Bits - Reduced</b>		
#2 x 1"	440-2-ACR2DX	HSB26113
<b>5/16" Hex Insert Bits</b>		
#1 x 1-1/4"	480-1X	HSB16021
#2 x 1-1/4"	480-2X	HSB16022
#3 x 1-1/4"	480-3X	HSB16023
<b>1/4" Power Bits</b>		
#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
<b>ACR® 1/4" Power Bits</b>		
#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
<b>1/4" Insert Bits</b>		
6F-8R x 1"	445-2X	HSB15809
8F-10R x 1"	445-3X	HSB15810
10F-12R x 1"	445-4X	HSB15811
<b>5/16" Insert Bits</b>		
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
<b>1/4" Power Bits</b>		
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
<b>1/4" Hex Insert Bits</b>		
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
<b>5/16" Insert Bits</b>		
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
<b>1/4" Power Bits</b>		
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
<b>1/4" Hex Insert Bits</b>		
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
<b>5/16" Hex Insert Bits</b>		
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

## HEX



Size x OAL	Apex®	Alfa Tools
<b>1/4" Insert Bits</b>		
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
<b>5/16" Insert Bits</b>		
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
<b>1/4" Power Bits</b>		
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
<b>1/4" Insert Bits</b>		
#0 x 1"	950-0X	HSB15814
#1 x 1"	950-1X	HSB15815
#2 x 1"	950-2X	HSB15816
#3 x 1"	950-3X	HSB15817
<b>1/4" Power Bits</b>		
#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
<b>For 1/4" Insert Bits</b>		
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
<b>For 5/16" Insert Bits</b>		
1/4" Shank x 3-1/2"	M-498	HSB66700
5/16" Shank x 3-1/16"	M-638	HSB66702

• Tri-Wing®, Pozidriv®, ACR®, PhillipsSquare-Driv® and Phillips® are registered trademarks of the Phillips Screw Company.  
 • 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



Reduced Body



## Phillips® ACR® Drywall Bits - 1/4" Hex

#2R	1"	25	HSB26113	HSB26113C
-----	----	----	----------	-----------



## 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



DSP272



#2 Ph x 2" x 1/4"	25	DSP272
-------------------	----	--------



## SELECT-A-BIT JAR DISPLAY



- Clear plastic jar allows maximum product exposure in minimum space.

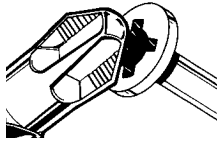
CONTENTS	ITEM	QTY.	STOCK #
#2 x 1" Phillips® 1/4" Insert Bits	HSB15803	500	CJ8004
#2R x 1" Phillips® Reduced Body For Drywall, 1/4" Insert Bits	HSB15805	500	CJ8008
#2 x 1-15/16" Phillips® 1/4" Power Bits	HSB15846	250	CJ8022
#2 x 1" Phillips® ACR 1/4" Power Bits	HSB26111	500	CJ8031
#2 x 1" Phillips® x 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



### 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



### SELECT-A-BIT JAR DISPLAY

- Clear plastic jar allows maximum product exposure in minimum space.

All assortment displays are on page E10

## 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



### 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

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"	25	HSB15865	HSB15865C
#8 - 10	3"	10	HSB15867	HSB15867C
#10 - 12	1-15/16"	25	HSB15866	HSB15866C
#12 - 14	1-15/16"	25	HSB15871	HSB15871C



## Slotted Power Bits with Finder

#6-8	2"	25	HSB15868	HSB15868C
#8-10	2"	25	HSB15869	HSB15869C
#10-12	2"	25	HSB15870	HSB15870C



## 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



## 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

- Tri-Wing®, Pozidriv®, ACR®, Phillips Square-Drive® and Phillips® are registered trademarks of the Phillips Screw Company.
- Torx® is a registered trademark of Acument® Global Technologies.

All assortment displays are on page E10



## 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

T30	1-1/4"	25	HSB16030	HSB16030C
T40	1-1/4"	25	HSB16031	HSB16031C
T45	1-1/4"	25	HSB16032	HSB16032C
T47	1-1/4"	25	HSB16033	HSB16033C
T50	1-1/4"	20	HSB16034	HSB16034C
T55	1-1/4"	20	HSB16035	HSB16035C



## 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



## 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

## 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



## 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

## 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 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

## Torx® Tamperproof Insert Bits

5/16" Hex Shank - With Pin

NEW!

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



## 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



## Spanner Tamperproof Insert Bits

1/4" Hex Shank

POINT SIZE	OAL	STOCK #		
		PACK QTY.	BULK IN HANG-UP BOX	CARDED 2 PER CARD
#4	1"	25	HSB15950	HSB15950C
#6	1"	25	HSB15951	HSB15951C
#8	1"	25	HSB15952	HSB15952C
#10	1"	25	HSB15953	HSB15953C
#12	1"	25	HSB15954	HSB15954C
#14	1"	25	HSB15955	HSB15955C

## Spanner Tamperproof Insert Bits

5/16" Hex Shank

#4	1-1/2"	25	HSB15956	HSB15956C
#6	1-1/2"	25	HSB15957	HSB15957C
#8	1-1/2"	25	HSB15958	HSB15958C
#10	1-1/2"	25	HSB15959	HSB15959C
#12	1-1/2"	25	HSB15960	HSB15960C
#14	1-1/2"	25	HSB15961	HSB15961C

• Tri-Wing®, Pozidriv®, ACR®, PhillipsSquare-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
	1-15/16"		HSB17003
#2	1-3/16"	10	HSB17004
	1-15/16"		HSB17005
#3	1-3/16"	10	HSB17006
	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
	1-15/16"		HSB17016
#2	1-3/16"	10	HSB17017
	1-15/16"		HSB17018
#3	1-3/16"	10	HSB17019
	1-15/16"		HSB17020

Torsion-buffer Grooved Bits • Cookie Jar Merchandiser

## 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 peggable 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	
PSD2-1 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
<b>1/4" DRIVE FOR 1/4" INSERT BITS</b>				
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	—
<b>1/4" DRIVE FOR 5/16" INSERT BITS</b>				
3-1/2"	Heavy Duty	10	HSB66700	HSB66700C
<b>5/16" DRIVE FOR 5/16" INSERT BITS</b>				
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



By actuating the Sleeve (1), the ball (2) releases the insert (3). Balls snugly nestle into insert grooves (4) providing shakeproof lock.

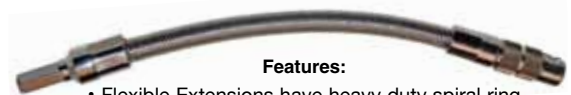


### Features:

- 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

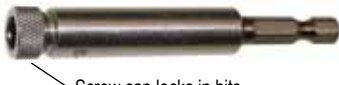




**Features:**  
• Flexible Extensions have heavy duty spiral ring construction that retain flexibility for a longer tool life.

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 #
<b>1/4" DRIVE FOR 1/4" INSERT BITS</b>				
2"	Driver with Screw Cap & Retaining Ring  Screw cap locks in bits.	Zinc Plated Stainless Steel	1	BH1020
3"			1	BH1030
3"	Driver with Brass Sleeve Guide  Sleeve extends up to 8" on the 5" length sleeve guide to hold screw while fastening.	Aluminum Holder with Brass Tube	1	BH1230
5"			1	BH1250
1-3/4"	Bit Chuck with Quick Release and Lock  Locks in bits. Use with 2" + Power bits only.	Special Tool Steel	1	BH1000
3"	Adjustable Bit Stopper  Use with any 1" insert bits. Adjustable depth prevents over driving screws into material.	Stainless with Aluminum Barrel & Adjustable Ring	1	BS1030



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
<b>MAGNETIC INSERT TYPE</b>			
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
<b>MAGNETIC POWER SHANK TYPE</b>			
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
<b>NON-MAGNETIC POWER SHANK TYPE</b>			
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
<b>MAGNETIC INSERT TYPE</b>			
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
<b>MAGNETIC POWER SHANK TYPE</b>			
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



**Monolock**  
QUICK CHANGE SYSTEM

**7 PC. NUT SETTER SETS**

CR-VA sandblast finish in folding wallet



HSN666W2



HSN666W3

**MAGNETIC POWER SHANK TYPE**

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

Nut Setters

E



**SELECT-A-BIT  
JAR DISPLAY**

- Clear plastic jar allows maximum product exposure in minimum space.

CONTENTS	ITEM	QTY.	STOCK #
<b>BIT HOLDERS MAGNETIC</b>			
3" Bit Holder with Retaining Ring	HSB66697	50	CJ8040
<b>NUT SETTERS MAGNETIC POWER SHANK</b>			
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



## PIN / BALL ON MALE SQUARE



PIN TYPE



BALL TYPE

Expanded

HEX SHANK	OAL	LOCK TYPE	PACK QTY.	STOCK #
<b>1/4" SHANK TO FIT 1/4" SQUARE DRIVE</b>				
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
<b>1/4" SHANK TO FIT 3/8" SQUARE DRIVE</b>				
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
<b>1/4" SHANK TO FIT 1/2" SQUARE DRIVE</b>				
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 #
<b>MAGNETIC 1/4" SQUARE DRIVE</b>					
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
<b>MAGNETIC 3/8" SQUARE DRIVE</b>					
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
<b>MAGNETIC 1/2" SQUARE DRIVE</b>					
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
<b>METRIC – NON MAGNETIC 1/4" SQUARE DRIVE</b>					
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 Sockets & Holders

E

## Square Drive Bit Holders

### Features:

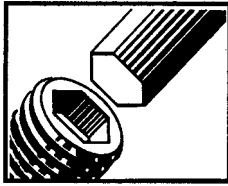
- Suitable for adapting square drive power tools to a variety of insert bits.

### SQUARE DRIVE

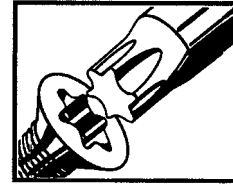


SQ. DRIVE SIZE	INSERT BIT HEX SIZE	OVERALL LENGTH	PACK QTY.	STOCK #
1/4"	1/4"	1"	10	SDS050
3/8"	1/4"	1-1/2"	10	SDS052
3/8"	5/16"	1-1/2"	10	SDS054
1/2"	1/4"	1-3/4"	10	SDS056
1/2"	5/16"	1-3/4"	10	SDS058

All assortment displays are on page E10

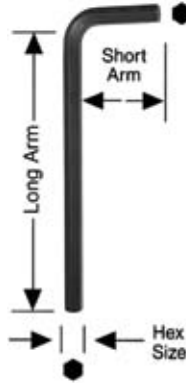


- Features:**
- Extra torque 8950 chrome nickel alloy.
  - Heat treated for maximum strength.
  - Finished to resist rust.



## 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

## 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

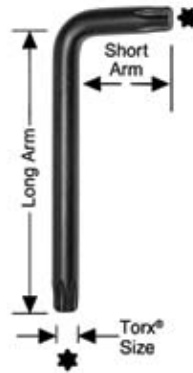
## TAMPER PROOF HEX-L KEYS, LONG SERIES BOTH END

Expanded

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

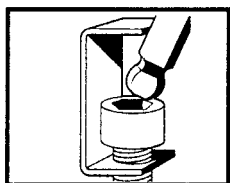
TYPE	SIZES	STOCK #
30 Pc.	LONG ARM, INCH SIZES .028, .035, .050, 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8" SHORT ARM, METRIC SIZES 0.7MM, 0.9, 1.3, 1.5, 2.0, 2.5, 3.0, 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 8.0, 10.0	HK10530

1 per pack

## 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



**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 #
<b>13 Pc. HEX</b>	<b>LONG ARM INCH SET</b> .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 #
<b>13 Pc. HEX</b>	<b>LONG ARM INCH SET</b> .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
<b>9 Pc. HEX</b>	<b>LONG ARM METRIC SET</b> 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

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## HEX-T KEY SETS

With stand

TYPE	SIZES	STOCK #
<b>10 Pc. HEX</b>	<b>6" ARM INCH SET</b> CUSHION GRIP 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	HK50160
<b>8 Pc. HEX</b>	<b>6" ARM METRIC SET</b> CUSHION GRIP MM 2, 2.5, 3, 4, 5, 6, 8, 10	HK56168

1 per pack





## CREATE YOUR OWN CUSTOM IMPRINT

- 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 Imprint** Custom imprinting is available for the 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).

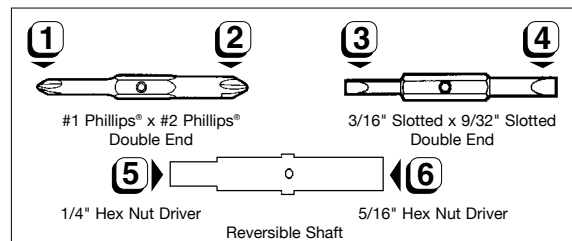


## CREATE YOUR OWN CUSTOM IMPRINT

## 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	CARD
#1 Phillips® x #2 Phillips®	SRB61	SRB61C
T25 Torx® x T30 Torx®	SRB62	SRB62C

Bulk 25 per pack Carded 1 per card



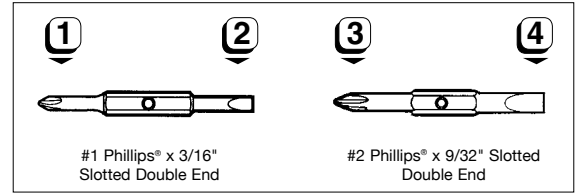
**THE CLASSIC**

**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



**Create Your Own Custom Imprint**



Quick Change Screwdrivers

E

**THE PROFESSIONAL**

**4-IN-ONE**

**SCREWDRIVER**

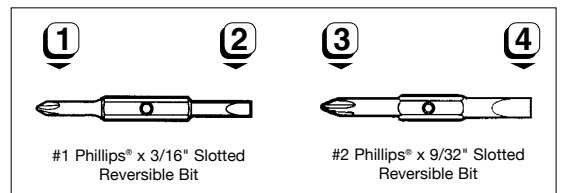
**NEW!**

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

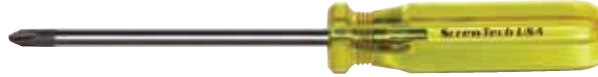
## SCREWDRIVERS CONFORM TO ASME B107.31M – 1997 SPECIFICATIONS



### 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®

Available in popular sizes and tips as listed.  
Special tips and lengths available on request.

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
<b>STUBBY PHILLIPS®</b>					
#2	1/4"	1-1/2"	3-1/4"	SCD210	SCD210H
<b>ACR® PHILLIPS®</b>					
#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
<b>PHILLIPS® TAMPER PROOF</b>					
#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
<b>STUBBY SLOTTED</b>					
1/4"	1/4"	1-1/2"	3-1/4"	SCD127	SCD127H

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. PHILLIPS® DISPLAY STOCK # SCDP18	
Contains 3 each	
#1 x 6-1/8"	SCD201H
#1 x 9-1/8"	SCD202H
#2 x 7-1/2"	SCD203H
#2 x 9-1/2"	SCD204H
#3 x 10"	SCD205H
#4 x 12-5/16"	SCD206H



18 PC. PHILLIPS® & SLOTTED DISPLAY STOCK # SCDPS18	
Contains 3 each	
#1 x 6-1/8"	SCD201H
#2 x 7-1/2"	SCD203H
#3 x 10"	SCD205H
1/4" x 7-1/2"	SCD121H
5/16" x 10"	SCD123H
3/8" x 12-3/8"	SCD124H



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



Available in popular sizes  
and tips as listed.  
Special tips and lengths  
available on request.

## 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



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. ACR® PHILLIPS® & POZIDRIV® DISPLAY – STOCK # SCDPP18	
Contains 3 each	
<b>ACR® Phillips®</b>	
#1 x 7"	SCD112H
#2 x 7-1/2"	SCD113H
#3 x 10"	SCD114H
<b>Pozidriv®</b>	
#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



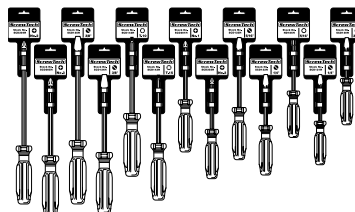
18 PC. SPANNER DISPLAY STOCK # SCDSP18	
Contains 3 each	
#4 x 6-5/8"	SCD150H
#6 x 8"	SCD151H
#8 x 8"	SCD152H
#10 x 8"	SCD153H
#12 x 8"	SCD154H
#14 x 8"	SCD155H

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



**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
<b>7 Pc. Set in Pouch</b> 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

Nut Drivers & Wing Nut Drivers

# 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.

U.S. Patent # D379,420



**NEW!**

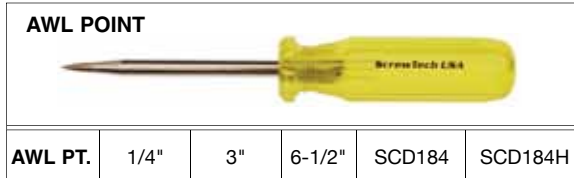


DESCRIPTION	PACK QTY.	STOCK #
7" OAL Wing Nut Driver with translucent grip	1	ND701
3" OAL Power Driver	1	ND703





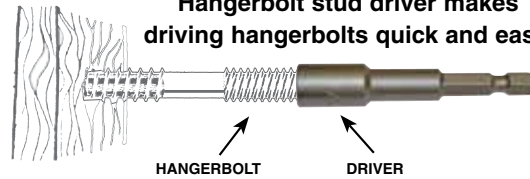
12 per pack



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 VANDADIUM BLADES






SETS	DESCRIPTION
 <b>6 PC. TORX®</b> <b>SCREWDRIVER SET</b> <b>CRYSTAL GOLD GRIP</b> <b>ERGONOMIC HANDLE</b> In countertop or hang-up display box. Available in popular tip styles. <b>Made in USA</b>	Set contains one each: (Tip size x OAL) <b>TORX®</b>  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" <b>STOCK # SCD189</b>



SCD189



SETS	DESCRIPTION
 <b>7 PC.</b> <b>SCREWDRIVER SET</b> <b>CRYSTAL GOLD GRIP</b> <b>ERGONOMIC HANDLE</b> In countertop or hang-up display box. Available in popular tip styles. <b>Made in USA</b>	Set contains one each: (Tip size x OAL) <b>SLOTTED</b>  1/4" x 7-1/2", 1/4" x 9-1/2", 5/16" x 10", 3/8" x 10" <b>PHILLIPS®</b>  #1 x 9-1/8", #2 x 7-1/2", #3 x 10" <b>STOCK # SCD188</b>



SCD188

# ScrewTech® High-Voltage Screwdriver

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: <b>Slotted #3, #4; Phillips® #1, #2; Torx® T15, T20</b>	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.



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: <b>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</b>	SCDE7

Electrician's Screwdrivers

E

TIP SIZE x OAL	STOCK #	
	BULK	CARDED
<b>SLOTTED</b>		
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
<b>PHILLIPS®</b>		
#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
<b>SQUARE RECESS</b>		
#0 x 8"	SCDE167	SCDE167C
#1 x 8"	SCDE169	SCDE169C
#2 x 9"	SCDE171	SCDE171C
#3 x 9"	SCDE173	SCDE173C
<b>TORX®</b>		
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



**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



# 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
<b>15-IN-1 QUICK CHANGE MARINE SCREWDRIVER INCLUDES 7 DOUBLE END BITS 1/4" HEX x 2" OAL:</b>		
#0 Phillips® - #3 Phillips® #1 Phillips® - #2 Phillips® T10 Torx® x T15 Torx® T20 Torx® x T25 Torx®	#0 Sq. Recess x 3 Sq. Recess #1 Sq. Recess x 2 Sq. Recess #4 Slotted x #6 Slotted 1/4" Hex Nut Driver	MP1500 MP1500D

1 per pack

### DOUBLE END REPLACEMENT BITS NICKEL PLATED – 1/4" HEX x 2" OAL

	#0 Phillips® #3 Phillips®	MP1501		T10 Torx® T15 Torx®	MP1505
	#1 Phillips® #2 Phillips®	MP1502		T20 Torx® T25 Torx®	MP1506
	#0 Sq. Recess #3 Sq. Recess	MP1503		#4 Slotted #6 Slotted	MP1508
	#1 Sq. Recess #2 Sq. Recess	MP1504			

1 per pack

**Weatherproof.  
Rust-Resistant.  
Suitable for  
outdoor /  
marine use.**



Marine & Tamperproof Screwdrivers

## 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
<b>15-IN-1 QUICK CHANGE TAMPERPROOF SCREWDRIVER INCLUDES 7 DOUBLE END BITS 1/4" HEX x 2" OAL:</b>		
1/8" Hex Pin #6 Spanner #10 Torx® Pin #27 Torx® Pin 9/64" Hex Pin #8 Spanner #15 Torx® Pin #30 Torx® Pin 5/32" Hex Pin #10 Spanner #20 Torx® Pin 1/4" Hex 3/16" Hex Pin #12 Spanner #25 Torx® Pin Nut Driver	MP1510	MP1510D

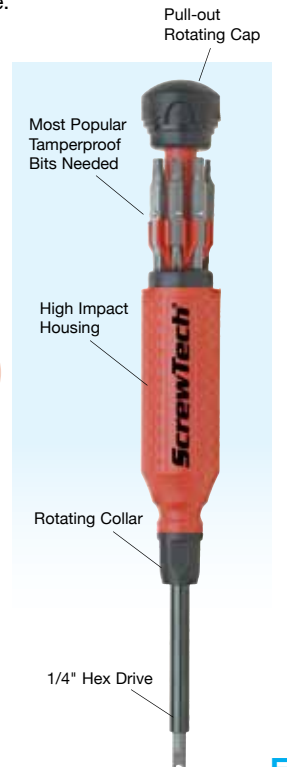
1 per pack

### DOUBLE END REPLACEMENT BITS – 1/4" HEX x 2" OAL

	1/8" Hex Pin 9/64" Hex Pin	MP1511		#10 Torx® Pin #15 Torx® Pin	MP1515
	5/32" Hex Pin 3/16" Hex Pin	MP1512		#20 Torx® Pin #25 Torx® Pin	MP1516
	#6 Spanner #8 Spanner	MP1513		#27 Torx® Pin #30 Torx® Pin	MP1517
	#10 Spanner #12 Spanner	MP1514			

1 per pack

**Ideal for  
electricians,  
locksmiths,  
telephone  
technicians,  
maintenance  
personnel.**



**E**

# Magnetic Screwdriver

1/4" & 5/16" Hex Drive



- 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.	
<b>SLOTTED</b>			
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
<b>PHILLIPS®</b>			
#1	100	4"	SS488006
#0	100	4"	SS488007
#00	75	3"	SS488008
#000	75	3"	SS488009
<b>TORX®</b>			
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 Pc.	Contains one each: <b>Slotted: 2mm, 3mm</b> <b>Phillips®: #0, #2</b>	SS48930
6 Pc.	Contains one each: <b>Slotted: 1.4mm, 2mm,</b> <b>2.4mm, 3mm</b> <b>Phillips®: #0, #1-2</b>	SS48960

# ScrewTech® Screwdriver Bit & Security Bit Sets

Taiwan



In handle bit storage



## 29 PC. SCREWDRIVER BIT SET

A complete screwdriver tool kit in compact tool box.

DESCRIPTION		STOCK #
<b>COMPLETE KIT</b>		
Hand Drive	Magnetic Storage Handle - 8"	HT10103
Bit Holder	1/4" Hex Drive - 1-7/8" Long	
Adapter	1/4" Sq. to 1/4" Hex - 1" Long	
<b>TIP STYLE</b>	<b>TIP SIZES</b>	
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"	

1 per pack

## 29 PC. SECURITY BIT SET (Tamperproof)

A complete security tool kit in compact tool box.

DESCRIPTION		STOCK #
<b>COMPLETE KIT</b>		
Hand Drive	Magnetic Storage Handle - 8"	HSB16010
Bit Holder	1/4" Hex Drive - 1-7/8" Long	
Adapter	1/4" Sq. to 1/4" Hex - 1" Long	
<b>TIP STYLE</b>	<b>TIP SIZES</b>	
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	

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



Driver turns 360° at up to 35° angle tilt



## 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 Pc. 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 Pc. 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

Screwdriver Bit & Security Bit Sets • Ball Hex Drivers

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## 28 PC. FLEXIBLE RATCHETING DRIVER KIT

In a handy set with a strong, blow-molded plastic storage case



### 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

Flexible Ratcheting Driver Kit • All-Purpose Tool Kit

## 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
	The kit contains the following:
5	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" Slotted 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" Slotted #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



## Features:

- Assortments feature the most popular bit styles.
- Bits are always at hand in easy-to-carry compact metal can.
- Attractive point-of-purchase counter display.

## 20 PC. INSERT BIT "CHEW CANS" 1/4" HEX SHANK Insert Bits

BIT SIZE & TYPE	STOCK #
	CHEW CAN
⊕ # 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

- Features:**
- Compact holders for easy selection and storage.
  - Bit Blocks are made of durable PVC.
  - Can hold any 1/4" hex insert.
  - Each set contains one stainless steel magnetic bit holder, which fits snugly in the center cavity of the block.



BBL9001



BBL8001TC

PCS. PER SET	DESCRIPTION	PACK QTY.	STOCK #	
			BULK	1 PER CARD
35 Pc.	⊕ #2 Phillips® Reduced Drywall Bits – 32 each	1	BBL9001	BBL9001C
35 Pc.	⊖ #2 Square Recess Bits – 32 each	1	BBL9002	BBL9002C
35 Pc.	⊕ ⊖ #2 Phillips® Reduced Drywall Bits – 16 each #2 Square Recess Bits – 16 each	1	BBL9003	BBL9003C
35 Pc.	⊕ #2 Phillips® Bits – 32 each	1	BBL9004	BBL9004C
35 Pc.	⊕ ⊖ ⊕ 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 Pc.	⊕ ⊖ ⊕ 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

Insert Bit Kits & Dispensers • Screwdriver Bit Block Sets

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## 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
<b>NEW!</b> 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
<b>NEW!</b> SDS-Plus Rotary Hammer Drill Bits . . . . .	F6
<b>NEW!</b> SDS 4x4 Quadro Hammer Drill Bits . . . . .	F7
SDS-Max™ Hammer Drill Bits	
Duo . . . . .	F8
Quadro . . . . .	F8
Hammer Drill Adaptors . . . . .	F9
<b>NEW!</b> Hammer Drill Adaptor Extension System . . . .	F9
<b>NEW!</b> Core Cutters for Rotary Hammer Drills . . . . .	F10
<b>NEW!</b> SDS Drill Stop . . . . .	F10
Rotary Rebar Cutters . . . . .	F11

## Core Bits For Rotary Hammer Drills

2 Pc. Taper Extension Type . . . . .	F12
Accessories . . . . .	F12
<b>NEW!</b> 2 Pc. Screw-On Extension Type . . . . .	F12
Accessories . . . . .	F12
1 Pc. Solid Construction . . . . .	F13
Accessories . . . . .	F13

## Chisels - Masonry

<b>NEW!</b> For Electric Hammers . . . . .	F14
<b>NEW!</b> For Pneumatic Hammers . . . . .	F15
<b>NEW!</b> 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

<b>NEW!</b> Diamond Core Drills for Hard Tiles / Ceramics .	F18
Carbide Tipped Glass / Ceramic Drill Bits . . . .	F19
<b>NEW!</b> Monolock® Carbide Tipped . . . . .	F19
Glass / Ceramic Drill Bits	
Fluted Rubbing Brick . . . . .	F19





## 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

## SDS-PLUS / HEX DRIVE BITS

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.

DRILL DIA.	OAL	DRILLING DEPTH	SCREW SIZE	STOCK #
5/32"	5"	2"	3/16"	HSDSDS62180
5/32"	7"	4"	3/16"	HSDSDS62182
3/16"	5"	2"	1/4"	HSDSDS62183
3/16"	7"	4"	1/4"	HSDSDS62185

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.



MD60560

**Stock # MD60560 – Kit contains:**

- 1/4" Magnetic Driver
- 5/16" Magnetic Driver
- Phillips Bit Adapter
- Masonry Drill Adapter
- 6-1/2" Sleeve
- 1/8" Hex Key
- #2 x 1" Phillips Bit
- #3 x 1" Phillips Bit
- Heavy duty plastic case

TAPCON® is a registered trademark of ITW Buildex.

## Concrete Tapping Screws

- Features:**
- Best quality fasteners for all construction work.
  - Comparable to Tapcon®, Rawl®, Ruff-neck® and Conscrew®.
  - **Point:** Threaded all the way to end to exhaust cement dust.
  - **Thread:** Deep cutting notches to reduce driving torque.
  - **Coating:** Fluorocarbon coating ten times more corrosive resistant than zinc.

Taiwan



**SLOTTED HEX COMBO**

1/4" Hex – 3/16" dia.  
5/16" Hex – 1/4" dia.

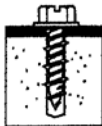


**FLAT PHILLIPS**

#2 Phillips – 3/16" dia.  
#3 Phillips – 1/4" dia.



TSC167206



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

# 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

DESCRIPTION	STOCK #
<b>5 Pc. Set</b> in plastic case: 1 each: 3/16", 1/4", 5/16", 3/8", 1/2", 4" long drills	MDF60500C



MDF60500C

## 18 PC. MASONRY DRILL BIT WALL DISPLAY



WMDF18

### 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



## Masonry Drill Bits

**1/4" Hex Power Shank  
Carbide Tipped**



**Monolock®**  
QUICK CHANGE SYSTEM

**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.

## MASONRY DRILL BIT SET

**NEW!**

DESCRIPTION	STOCK #
<b>5 Pc. Set</b> in plastic case: 1 each: 3/16", 1/4", 5/16", 3/8", 1/2", 4" long drills	MDH60572



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 #
<b>5 Pc. Set</b> in plastic case 1 each: 3/16", 1/4", 5/16", 3/8", 1/2" 4" long drills	MD60500C	MDBL60500C
<b>5 Pc. Set</b> 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

<b>30 Pc. Display</b> 5 each: 1/8" x 3", 3/16", 1/4", 5/16", 3/8", 1/2" 4" long drills	WMD30	WMDBL30
<b>18 Pc. Display</b> 3 each: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" 6" long drills	WMD18	WMDBL18
<b>12 Pc. Display</b> 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

#### Features:

- Suitable for general use in rotary percussion tools and in drill motors with three jaw chucks.
- Manufactured from hardened impact resistant steel.
- Designed to drill in concrete, masonry, tile, marble, rock and granite.
- 1/2" and above sizes have reduced shanks.
- Made to ANSI standards.



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

Roto-Percussion Drill Bits



MHD5

SET

**NEW!**

QTY.	SIZES	STOCK #
5 Pc.	In plastic case 6" long drills: 3/16", 1/4", 5/16", 3/8", 1/2"	MHD5

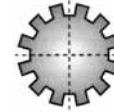


# Spline Shank Rotary Hammer Drill Bits

NEW improved head geometry for more aggressive drilling



## Duo & Quadro Cutting Head Spline Drive System For Large Rotary Hammers Carbide Tipped



**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.



**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

Expanded

DIA.	DRILLING DEPTH	OAL	STOCK #
			TUBE
<b>DUO CUTTING HEAD</b>			
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

DIA.	DRILLING DEPTH	OAL	STOCK #
			TUBE
<b>QUADRO CUTTING HEAD</b> <p>The new generation of spline bits</p>			
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.

Spline Shank Rotary Hammer Drill Bits


F



# SDS-Plus Rotary Hammer Drill Bits

**Carbide Tipped,  
For Small Rotary Hammers  
With 4-Slot SDS Drive System**

**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.



SDS-Plus Rotary Hammer Drill Bits

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



## SET



QTY.	SIZES	STOCK #
5 Pc.	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	1/2" x 12-1/4"	SDS62432P
2	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	1/2" 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**

**Solid tip design pulverizes rebar,  
avoiding any jamming!**



**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**

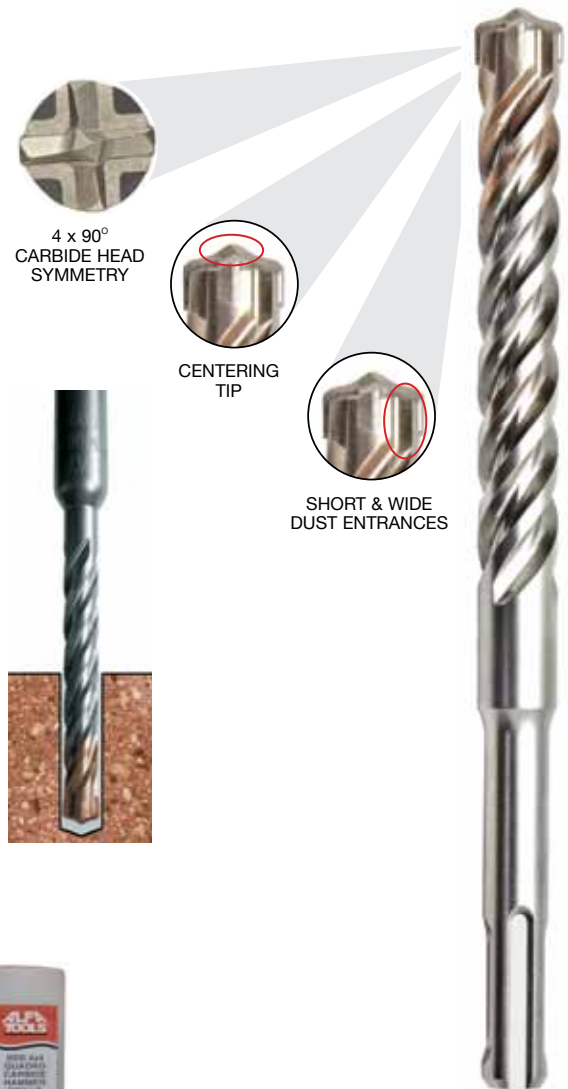
**NEW!**



QTY.	SIZES	STOCK #
5 Pc.	In plastic case 6-1/4" long drills: 3/16", 1/4", 5/16", 3/8", 1/2"	SDSQ5

### 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



## Duo & Quadro Cutting Head With SDS-Max Drive System For Large Rotary Hammers Carbide Tipped

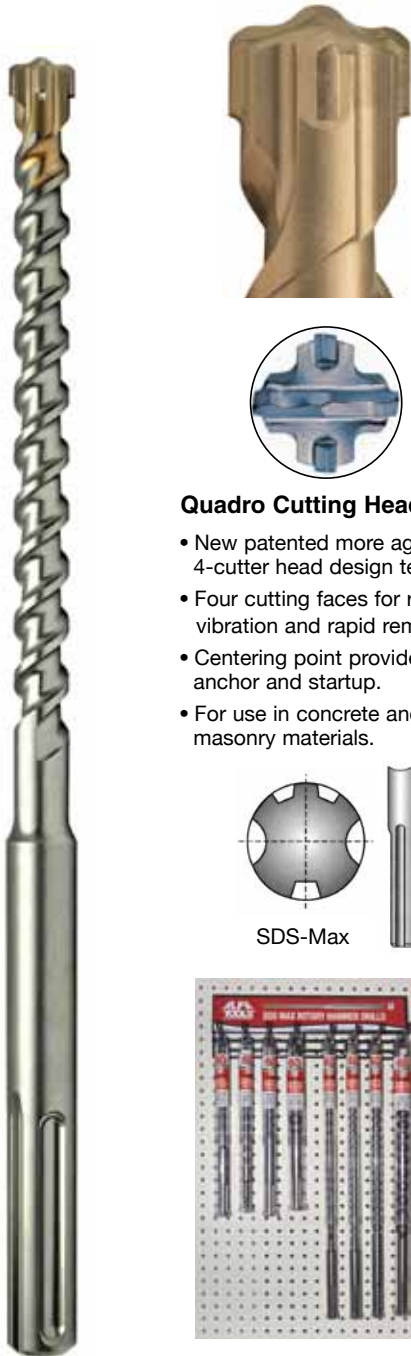
**Quadro solid tip design pulverizes rebar, avoiding any jamming!**

**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.

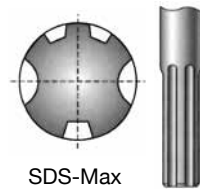
Expanded

SDS-Max™ Hammer Drill Bits



**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.

DIA.	DRILLING DEPTH	OAL	STOCK #
			TUBE
		<b>DUO CUTTING HEAD</b>	
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
		<b>QUADRO CUTTING HEAD</b>	
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 #
<b>A TAPER</b>	<b>SPLINE</b>	ATA62291
 <p><b>A Taper to Spline Drive</b></p>		

1 per pack

### QUICK CHANGE ADAPTOR

TYPE		STOCK #
<b>SDS-Plus</b>	<b>SPLINE</b>	QCA62296
 <p><b>SDS-Plus to Spline Drive</b></p>		
<b>SDS-Plus</b>	<b>SDS-Max™</b>	SDM62294
 <p><b>SDS-Plus to SDS-Max™</b></p>		
<b>SPLINE</b>	<b>SDS-Max™</b>	SDM62295
 <p><b>Spline to SDS-Max™</b></p>		

1 per pack

### HAMMER DRILL ADAPTOR EXTENSION SYSTEM



HDA2000

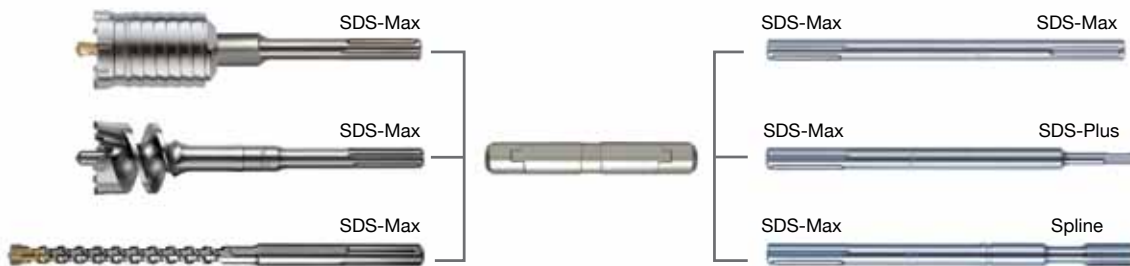
**NEW!**

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 shafts. 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



**SDS-Max™ End**



**SDS-Plus™ End**



**Spline End**

**NEW!**

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

# 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

Core Cutters / SDS Drill Stop

F

## 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

## Carbide Tipped, 1/2" Straight Shank

### For Rotary Use Only

- 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.

### 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

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.

**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



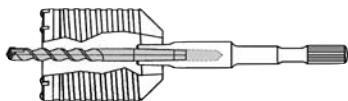
### Features:

- 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.



### 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



### Features:

- Useable with Spline & SDS-Max machines.
- Multiple teeth assure faster cutting and debris exaccuation from cutter path.
- Teeth set with negative and positive rakes to cut concrete and screening.
- Tooth edges faced to act as secondry 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.

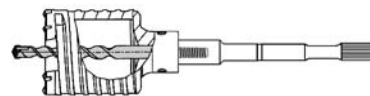
**PILOT DRILL REMAINS IN POSITION DURING DRILLING**

**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.



### 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:**

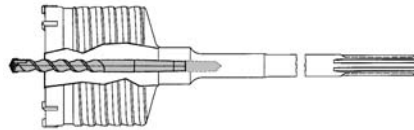
- Simple easy to use 1 Piece Design with centering bit and eject key. Remove centering bit after hole is started for extended bit life.
- Asymmetrical tooth arrangement for faster drilling progress.
- Outer spiral for minimizing friction loss and faster dust extraction.

**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

SDS-Max™ Core Bits for Rotary Impact Hammer Drills

F

# 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.



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
<b>BUSHING TOOL</b>		
HEAD 1-3/4" x 1-3/4" SHANK 9-1/4"		DC63112A



## 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
<b>BUSHING TOOL</b>		
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
<b>BUSHING TOOL</b>		
HEAD 1-3/4" x 1-3/4" SHANK 9-1/4"		DC63129A



## 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
<b>Replacement Components for Floor Scraping Chisels</b>		
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

MADE IN  
U. S. A.

## 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.



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" 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

### 1-1/8" 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

### 1-1/4" 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



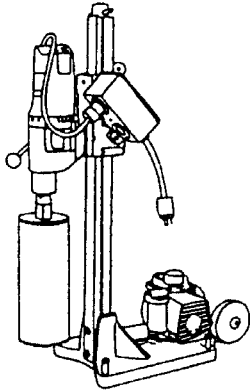
## Segmented Core Bits Wet Cutting



**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.

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

## Full Crown Core Bits Wet Cutting Diamond Depth .300"

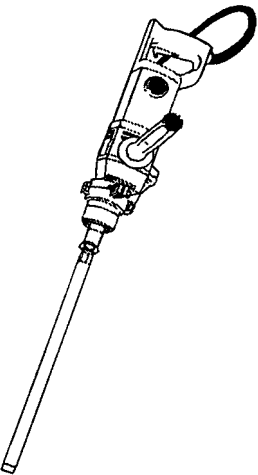


**Features:**

- 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





## 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.

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

## ACCESSORIES



CB1256

### 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



CBSA2



CBSA1

### 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



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.

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 Pc. SETS

QTY.	SIZES	STOCK #
5 Pc.	In plastic case 1/8", 3/16", 1/4", 3/8", 1/2"	CGD61685
 <b>Monolock</b> QUICK CHANGE SYSTEM		
5 Pc.	In plastic case 1/8", 3/16", 1/4", 3/8", 1/2"	CGDML61985

## Carbide Tipped, Spear Point Drills 1/4" Hex Shank



### For Rotary Action Only

**Features:**

- 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.
- 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.



**NEW!**

SIZE DIA.	SHANK DIA.	OAL	STOCK #
			HANG-UP TUBE
1/8	7/64	2-7/32	CGML61655
5/32	7/64	2-1/2	CGML61657
3/16	9/64	2-1/2	CGML61659
1/4	11/64	2-9/16	CGML61663
5/16	7/32	3-3/8	CGML61667
3/8	1/4	3-1/2	CGML61671
1/2	5/16	3-1/2	CGML61679

1 per hang-up tube



CGD61685



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 smoothing 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 and corrosion on stainless and aluminum alloys. \*WB67174SS (3-1/4") wheel is stainless steel and corrosion on stainless and aluminum alloys.



## 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



Crimped & Knotted Wire Cup Brushes

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# Crimped & Knotted Wire End Brushes

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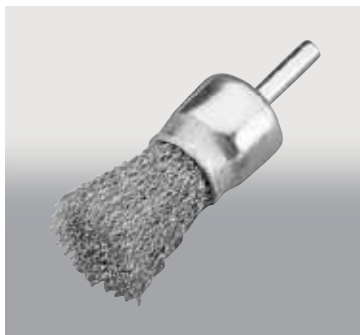
Spain

## 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
1/2"	Fine	0.020"	1/4"	10	WB67118	WB67118C
3/4"	Coarse	0.008"	1/4"	10	WB67119	WB67119C
3/4"	Fine	0.020"	1/4"	10	WB67120	WB67120C
1"	Coarse	0.008"	1/4"	10	WB67121	WB67121C
1"	Fine	0.020"	1/4"	10	WB67122	WB67122C

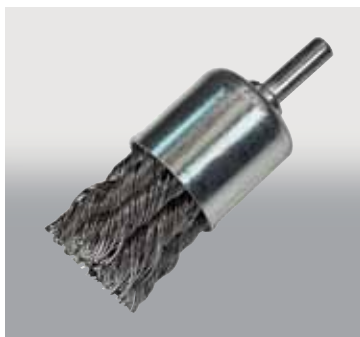
Clamshell 1 per hang-up clamshell

## 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

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Spain

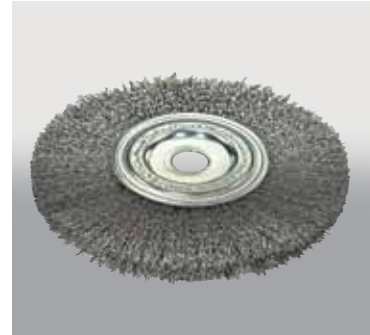
## CRIMPED WIRE WHEELS

**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
3"	1/2"	Fine	0.008"	4500	10	WB67132	WB67132C
4"	1/2"	Coarse	0.012"	4500	10	WB67133	WB67133C
4"	1/2"	Fine	0.008"	4500	10	WB67134	WB67134C
6"	1/2" - 5/8"	Coarse	0.012"	4500	5	WB67137	WB67137C
6"	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
1-1/2"	Fine	0.008"	1/4"	6000	10	WB67102	WB67102C
2"	Coarse	0.012"	1/4"	6000	10	WB67103	WB67103C
2"	Fine	0.008"	1/4"	6000	10	WB67104	WB67104C
3"	Coarse	0.012"	1/4"	6000	10	WB67105	WB67105C
3"	Fine	0.008"	1/4"	6000	10	WB67106	WB67106C
4"	Coarse	0.012"	1/4"	4500	10	WB67107	WB67107C
4"	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
2"	Fine	0.008"	1/4"	10	5000	WB67112	WB67112C
3"	Coarse	0.012"	1/4"	10	5000	WB67113	WB67113C
3"	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





## 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:			
<b>Cup Brushes – 1/4" Shank</b>		<b>Wire Wheels – 1/2" Bore</b>	
2" Coarse	WB67111C	3" Coarse	WB67131C
2" Fine	WB67112C	3" Fine	WB67132C
3" Coarse	WB67113C	4" Coarse	WB67133C
3" Fine	WB67114C	4" Fine	WB67134C
<b>Wire Wheels – 1/4" Shank</b>		6" Coarse	WB67137C
1-1/2" Coarse	WB67101C	6" Fine	WB67138C
1-1/2" Fine	WB67102C	<b>Wire End Brushes – 1/4" Shank</b>	
2" Coarse	WB67103C	1/2" Coarse	WB67117C
2" Fine	WB67104C	1/2" Fine	WB67118C
3" Coarse	WB67105C	3/4" Coarse	WB67119C
3" Fine	WB67106C	3/4" Fine	WB67120C
4" Coarse	WB67107C	1" Coarse	WB67121C
4" Fine	WB67108C	1" Fine	WB67122C

## Scratch Brushes



WB67143



### Plastic Handle

TYPE	DIMENSIONS	STOCK #
<b>Crimped Steel Wire</b>	10-1/4" x 5" x 1-1/4"	WB67141
<b>Stainless Steel</b>	10-1/4" x 5" x 1-1/4"	WB67142
<b>Crimped Brass Wire</b>	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 #
<b>Horsehair Brush Tin Handle</b>	6-1/8" x 7/16" x 7/8"	AB74061
<b>Horsehair Brush Tin Handle</b>	6-1/8" x 9/16" x 7/8"	AB74062

144 per pack



### Hardwood Handle

TYPE	TRIM LENGTH	WIRE ROWS	DIMENSIONS	STOCK #
<b>Steel Wire</b>	1-1/8"	3 x 19	15/16" x 6" x 13-3/4"	WB67194
<b>Stainless Wire</b>	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)

TYPE	TRIM LENGTH	WIRE ROWS	DIMENSIONS	STOCK #
<b>.006 Stainless Wire</b>	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 #
<b>Brass</b>	7-1/4"	3/8"	7/16"	WB67210
<b>Stainless Steel</b>	7-1/4"	3/8"	7/16"	WB67212

36 per pack



## 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.



LENGTH	SIZE	BOX QTY.	STOCK #		
			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.



LENGTH	SIZE	BOX QTY.	STOCK #		
			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.



Expanded

LENGTH	SIZE	BOX QTY.	STOCK #		
			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. 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

## 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 smoothing 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

## 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.



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.



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.



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.



LENGTH	SIZE	BOX QTY.	STOCK #
6"	5/8" x 1/8"	12	F65112
8"	13/16" x 9/64"	12	F65113

## 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.)



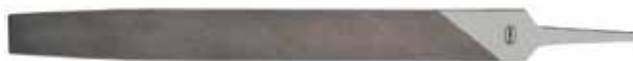
LENGTH	TYPE	SIZE	BOX QTY.	STOCK #
5"	Regular	7/16"	12	F65140
6"	Regular	1/2"	12	F65141
7"	Regular	9/16"	12	F65142
5"	Slim	5/16"	12	F65143
6"	Slim	3/8"	12	F65144
7"	Slim	7/16"	12	F65145
5"	Extra Slim	7/32"	12	F65146
6"	Extra Slim	9/32"	12	F65147
7"	Extra Slim	11/32"	12	F65148

### 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.



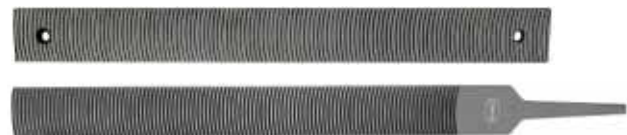
LENGTH	SIZE	BOX QTY.	STOCK #
10"	1" x 1/4"	12	F65186
12"	1-3/16" x 17/64"	6	F65187
14"	1-23/64" x 19/64"	6	F65188

### 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.



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.



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.



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.



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

## 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

### 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

### 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



## File Grips

### Regular Plastic, Hardwood, Comfort Grip and Soft Grip Handle

#### REGULAR GRIP



SIZE	STOCK #
<b>PLASTIC HANDLE</b>	
4"	F65171
6" - 8"	F65172
10" - 14"	F65173

6 per pack



SIZE	STOCK #
<b>HARDWOOD HANDLE</b>	
4" - 6"	F65181
6" - 8"	F65182
8" - 10"	F65183
10" - 14"	F65184

6 per pack

#### COMFORT GRIP



Plated ferrule, ideal for needle files and chain saw files.

DESCRIPTION	STOCK #
<b>HARDWOOD HANDLE</b>	
Length x Dia. 2-1/4" x 1-3/8" 1/8" Bore 3/4" Depth	F65185

6 per pack

#### SOFT GRIP



Soft grip handle comes with five inserts to fit sizes 6" to 14" files.

DESCRIPTION	STOCK #
<b>DUAL COMPONENT HANDLE</b>	
Length 4-3/4"	F65170

1 per pack

## 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 #
<b>32 Pc.</b> Assorted Merchandiser with 4 each of the pouched files listed below on a 8 prong display.	FWD32
POPULAR SELECTION OF OPEN STOCK POUCHED 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**









### 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 #
<b>6 Pc.</b> kit contains one each: Flat File  Hand File  Round File  Half Round  Square  Three Square 	F65161HS

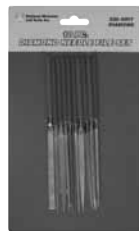
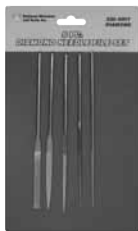
### 4 Pc. PROFESSIONAL FILE KIT

- 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 #
<b>4 Pc.</b> kit contains one each: 8" Mill Bastard F65088H 6" Slim Taper F65144H 6" Round Bastard F65020H 8" Half Round Rasp F65136H	F65160HP



### DIAMOND NEEDLE FILE SETS

220 Grit

PIECES PER SET	DESCRIPTION	STOCK #
5	5-1/2" OAL	F65197
10	5-1/2" OAL	F65198

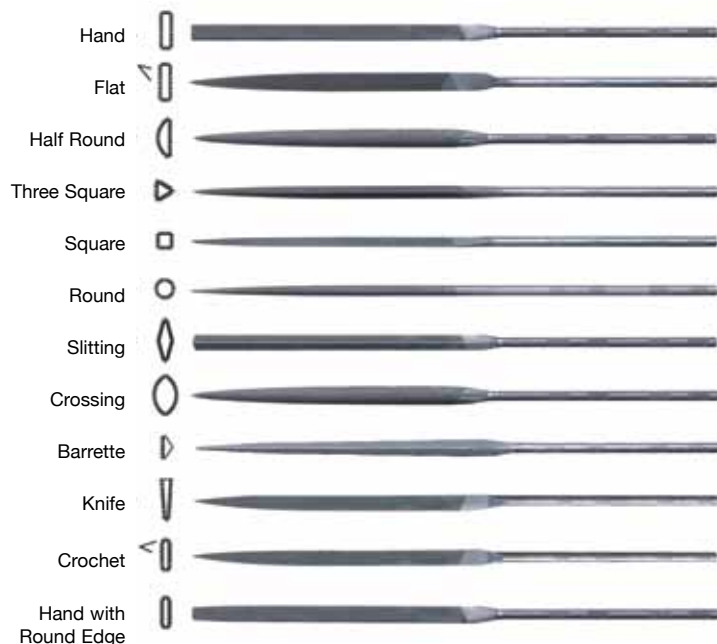


### DIAMOND POINT SET

PIECES PER SET	DESCRIPTION	STOCK #
20	In Plastic Index Case 1/8" Shank	F65199

## 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 Pc. Set.



STYLE	OAL	CUT	STOCK #
<b>INDIVIDUAL FILES</b>			
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

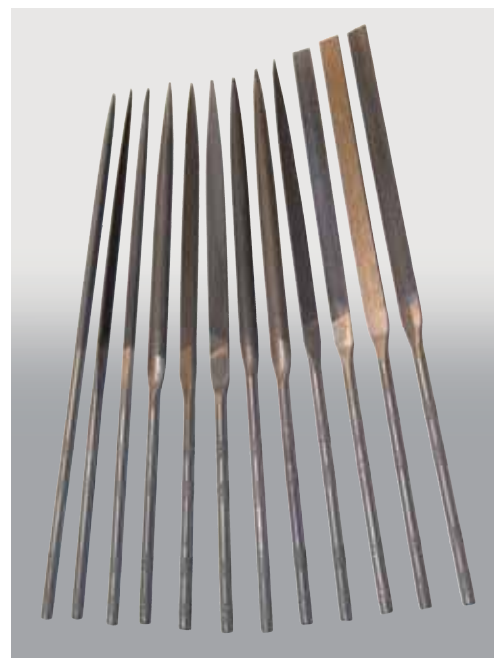
12 per pack

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 Pc. FILE WALLET SET**

DESCRIPTION	STOCK #
<b>#0 CUT — COARSE</b>	F65158
<b>#2 CUT — MEDIUM</b>	F65159







## Shop Aids

Measuring Tapes . . . . .	H2
Precision Tri Squares . . . . .	H2
Utility Knives . . . . .	H3
Drywall / Jabsaw . . . . .	H3
<b>NEW!</b> 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
<b>NEW!</b> Valved Respirators . . . . .	H5
Eye Protection . . . . .	H5
<b>NEW!</b> Safety Goggles . . . . .	H5
Knee Pads . . . . .	H5
Hearing Protection . . . . .	H5

## 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

- 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.



UK67047



UK67049

DESCRIPTION	STD. PACK	STOCK #	
		BULK	CARDED
<b>Heavy Duty Retractable Utility Knife</b> with 3 reversible blades	12	UK67047	UK67047C
<b>Spare Blades</b>	100	UK67048	-
<b>Heavy Duty Quick Release, Ergonomic Retractable Utility Knife</b> with 3 reversible blades	12	UK67049	UK67049C

## Drywall / Jabsaw

- Features:**
- Aggressive blade.
  - Ergonomic handle.

- Applications:**
- Roughing in drywall.
  - Cutting out HVAC & electrical openings.
  - Used by drywall Contractors, Electricians, Plumbers, HVAC.



UK64051

BLADE LENGTH	STOCK #
6"	UK64051

1 per pack



Taiwan

## Dead-Blow Hammers

### Soft Faced, Shot Loaded Durable Polyurethane

Taiwan

- 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!**



DBH35

HAMMER WEIGHT	FACE DIA.	HEAD LENGTH	OAL	STOCK #
<b>1 lb.</b>	1.46"	3.58"	11.02"	DBH01
<b>2 lb.</b>	2.17"	4.49"	13.58"	DBH02
<b>3 lb.</b>	2.36"	4.80"	14.76"	DBH03
<b>3.5 lb.</b>	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



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

<b>Unified 60°</b>	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
<b>Unified 60°</b>	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
<b>Unified 60°</b>	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
<b>Metric Gauge</b>	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

- 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\*

**NEW!**



**FITS OVER PRESCRIPTION GLASSES!**

- 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; NPR 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



# 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
<b>NEW!</b> 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
Superbond 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

<b>NEW!</b> Metalglaz Cleaner & Polisher . . . . .	I 10
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# MEGACUT® Threading & Cutting Fluid



**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



TF7024



TF7001C

Threading & Cutting Fluid

## 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® 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

### MEGA FOAMCUT® SPRITZER

Spray directly at application point – using 2 oz. aerosol can.

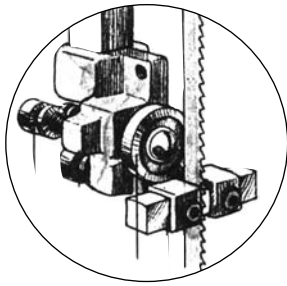


STOCK # TF8002





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

### 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).

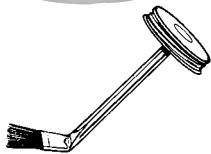
**Applications:**

- Superior anti-seize and extreme pressure lubricant formulated to protect metal parts against rust, corrosion and seizure.

**Features:**

- Meets specification ASTM-D-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.

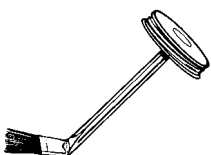
**Applications:**

- 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 ASTM-D-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





## 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.

Expanded



THREAD LOCK SERIES  
Locks/seals threaded fasteners

SERIES	ITEM	COLOR	SIZE	STOCK #
TL22	<b>Small Screw Thread Locker</b>	Purple	10 ml.	TL2210
			50 ml.	TL2250
			250 ml.	TL22250
TL42	<b>Removable Thread Locker</b>	Blue	10 ml.	TL4210
			50 ml.	TL4250
			250 ml.	TL42250
TL43	<b>Removable Thread Locker</b>	Blue	10 ml.	TL4310
			50 ml.	TL4350
			250 ml.	TL43250
TL62	<b>Permanent Thread Locker</b>	Red	10 ml.	TL6210
			50 ml.	TL6250
			250 ml.	TL62250
TL71	<b>Adhesive Sealant</b>	Red	10 ml.	TL7110
			50 ml.	TL7150
			250 ml.	TL71250
TL90	<b>Wicking Grade Thread Locker</b>	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
		COLOR	GAP	VISCOSITY	SHEAR STRENGTH	TEMP RANGE	CURE SPEED	LOCTITE
TL22	<b>Small Screw Thread Locker</b>	Best suited for low strength threadlocking where easy disassembly is required Purple .006 1200 cps MT 800 psi -65 to 350° F <i>Meets MIL-S-46163A, Type II, Grade M</i>					10 min.	222
TL42	<b>Removable Thread Locker</b>	General purpose threadlocking material for nuts, bolts and screws. Prevents vibration loosening and is removable with hand tools. Blue .006 1200 cps MT 1000 psi -65 to 350° F <i>Meets MIL-S-46163A, Type II, Grade N</i>					10 min.	242
TL43	<b>Removable Thread Locker</b>	Medium strength threadlocker with a high viscosity. Offers improved oil resistance, larger diameter fasteners, and is removable. Blue .008 5000 cps MT 1200 psi -60 to 350° F					10 min.	243
TL62	<b>Permanent Thread Locker</b>	High strength threadlocking material primarily used on Grade 5 and 8 fasteners Resists harsh environments and impact. Red .005 3500 cps MT 3000 psi -65 to 350° F <i>Meets MIL-S-46163A, Type II, Grade O</i>					10 min.	262
TL71	<b>Adhesive Sealant</b>	High strength threadlocking material used where extreme shock, vibration, and/or environmental conditions are present. Used on fasteners up to 1" in diameter. Red .007 500 cps MT 2900 psi -65 to 350° F <i>Meets MIL-S-46163A, Type II, Grade K</i>					10 min.	271
TL90	<b>Wicking Grade Thread Locker</b>	High strength, wicking grade threadlocker. Ideal for post application to preassembled fasteners. Secures screws and bolts & seals welds and porous metal parts. Green .003 12 cps LT 780 psi -60 to 350° F <i>Meets MIL-S-46163A, Type III, Grade R</i>					10 min.	290



# Anaerobic Adhesives / Retaining Sealants

## RETAINING COMPOUND



**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.

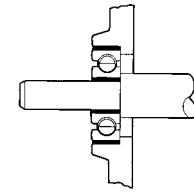


**NEW!**

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



SERIES	ITEM	COLOR	TEMP RANGE	VISCOSITY	PRESSURE
RC20	<b>High Strength High Temperature Retaining Compound</b>	Green	-65 to 450°	8500 cps	4000 psi
RC80	<b>High Strength For Slip Fitted Parts</b>	Green	-65 to 450°	1400 cps	4200 psi



# Anaerobic Adhesives / Sealants

## PIPE SEALANTS WITH TEFLON®



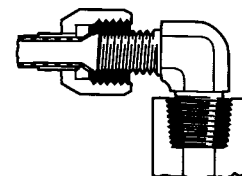
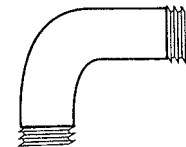
**PIPE SEALING COMPOUND** is a premium Teflon® enhanced compound which provides superior sealing for most threaded metal or plastic pipe.

- 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





CONTAINS NO OZONE DEPLETION CHEMICALS

## SUPERBOND INSTANT ADHESIVES

• Anaerobic • Quick Performing • Single Component

(6 months shelf-life)



### 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.

ITEM	SIZE	CASE QTY.	STOCK #
<b>RP5</b> Penetrating capillary action adhesive	1 oz.	5	RP501
	1 lb.	1	RP516
<b>RP30</b> General Purpose Instant Adhesive Gap Fill: .004 - .006	1 oz.	5	RP301
	1 lb.	1	RP316
<b>RP100</b> For Plastic, Rubber, Vinyl adhesion Gap Fill: .006	1 oz.	5	RP1001
	1 lb.	1	RP1016
<b>RP1500</b> Gap Filling high viscosity adhesive suitable for leather, paper, fabrics and porous surfaces Gap Fill: .008	1 oz.	5	RP1501
	1 lb.	1	RP1516
<b>HP1000</b> For high stress applications such as high temperature, vibration, and impact resistance Gap Fill: .008	1 oz.	5	HP1001
	1 lb.	1	HP1016
<b>TS2400</b> Bonds plastics, rubber and metals. Excellent vibration, impact, and temperature resistance Gap Fill: .008	1 oz.	5	TS2401
	1 lb.	1	TS2416
<b>M100</b> Metal Bond instant adhesive. Best for aligning parts up to 10 seconds	1 oz.	5	M1001
	1 lb.	1	M1016
<b>SI120</b> For wood, PVC, EPDM, and other difficult substrates to bond Gap Fill: .006	1 oz.	5	SI120
	1 lb.	1	SI126
<b>GEL</b> For rubber and plastics Excellent gap filler Gap Fill: .010	20 gram tube	5	RPGEL20

### 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



## 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.



ITEM	SIZE	STOCK #
<b>QuickTac II</b>	2 oz.	QT202
	8 oz.	QT208
<b>QuickTac IV</b>	2 oz.	QT402
	8 oz.	QT408
<b>Poly Prep</b>	2 oz.	PP102
<b>Remover Debonder</b>	2 oz.	AD200

10 per case

## 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.

### SPECIFICATIONS

	Quick-Tac II	Quick-Tac IV	PolyPrep Primer	Remove Debonder
<b>Color</b>	Clear / Amber	Clear	Amber / Brown	Clear / Amber
<b>Base</b>	Acetone	Heptane	Acetone	Nitromethane Blend
<b>Viscosity</b>	3cps	3cps	3cps	3cps
<b>Flash Point</b>	0°F	30°F	0°F	95°F
<b>Specific Gravity</b>	0.74	0.68	1.40	-

Available in 2 oz. and 8 oz. pump spray bottles

## 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.



# Spray Adhesives



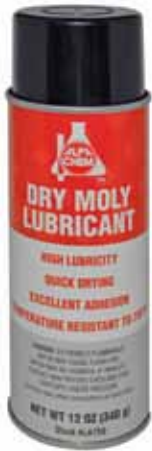
## HEAVY DUTY PERMANENT ADHESIVE

- 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 #
<b>13 oz.</b>	In 20 oz. aerosol can	SA115

12 per case





## 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**





## 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



## 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



## 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



# Cleaning & Polishing



## 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



