

# Quick Index



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

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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:

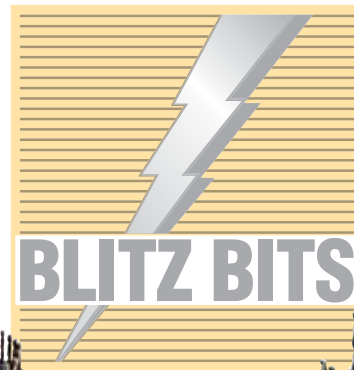
- Engineered for heavy duty work, BLITZ BITS® are high performance drills for production as well as tough maintenance applications.
- Made from a premium grade of M-7 molybdenum high speed steel, which has a special black and gold surface treatment to increase lubricity and reduce friction.
- The strong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

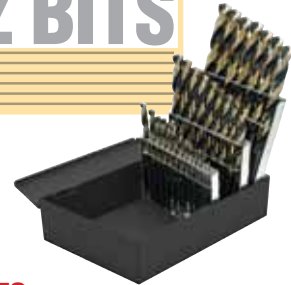
SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
1/16	.0625	7/8	1-7/8	BB74101
5/64	.0781	1	2	BB74102
3/32	.0938	1-1/4	2-1/4	BB74103
7/64	.1094	1-1/2	2-5/8	BB74104
1/8	.1250	1-5/8	2-3/4	BB74105
9/64	.1406	1-3/4	2-7/8	BB74106
5/32	.1562	2	3-1/8	BB74107
11/64	.1719	2-1/8	3-1/4	BB74108
3/16	.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	BLACK OXIDE	BRIGHT FINISH
				ALFA USA 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	BLACK OXIDE	BRIGHT FINISH
				ALFA USA 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	BLACK OXIDE	BRIGHT FINISH
33/64	.5156	4-13/16	6-5/8	J150130	-
17/32	.5312	4-13/16	6-5/8	J150131	-
35/64	.5469	4-13/16	6-5/8	J150132	-
9/16	.5625	4-13/16	6-5/8	J150133	-
37/64	.5781	4-13/16	6-5/8	J150134	-
19/32	.5938	5-3/16	7-1/8	J150135	-
39/64	.6094	5-3/16	7-1/8	J150136	-
5/8	.6250	5-3/16	7-1/8	J150137	-
41/64	.6406	5-3/16	7-1/8	J150138	-
21/32	.6562	5-3/16	7-1/8	J150139	-
43/64	.6719	5-5/8	7-5/8	J150140	-
11/16	.6875	5-5/8	7-5/8	J150141	-

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

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

Reduced Shank Drills on Page A41

QTY.	SIZES	BLACK OXIDE	BRIGHT FINISH
		ALFA USA 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



# 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

**A**

# 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



**SETS**

BLACK OXIDE | BRIGHT FINISH

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

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

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

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	ALFA USA	
				BLACK OXIDE	BRIGHT FINISH
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	ALFA USA	
				BLACK OXIDE	BRIGHT FINISH
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	ALFA USA	
				BLACK OXIDE	BRIGHT FINISH
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	ALFA USA	
				BLACK OXIDE	BRIGHT FINISH
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.

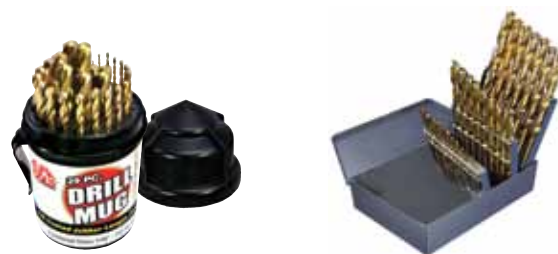
### FRACTIONAL

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

A

# 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**

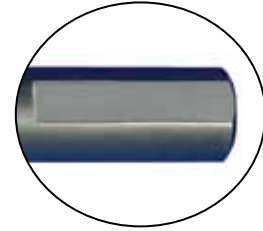


**3-Flat Shank Design  
(On 3/16" and Larger)  
135° Split Point  
Black Oxide Finish**



**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.



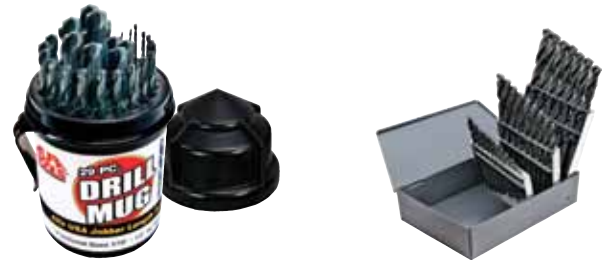
**FRACTIONAL**

**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
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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

## 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

### LETTER

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

### WIRE GAGE

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

### 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

\*Not split point

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

Aircraft Extension Drills

A

# 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

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,

\*Not split point

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

## 12" OVERALL LENGTH FRACTIONAL

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

## WIRE GAGE

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

## WIRE GAGE

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

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

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

# Extra Long Drills

## High-Speed Steel



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

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

### 8" OVERALL LENGTH

#### FRACTIONAL

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

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

### 12" OVERALL LENGTH

#### FRACTIONAL

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

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

\*These sizes are straight shank

### 18" OVERALL LENGTH

#### FRACTIONAL

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

1 per pack  
\*These sizes are straight shank

## 12" Long Drills with 1/2" Shank

### High-Speed Steel

**Features:**

**1/2" Reduced Shank  
3 Flat Shank Design  
118° Point  
Bright Finish**

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



### 12" OVERALL LENGTH

#### FRACTIONAL

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.



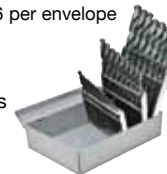
**FRACTIONAL ECO PRO®**

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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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 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

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# 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

Silver & Deming

A

## 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

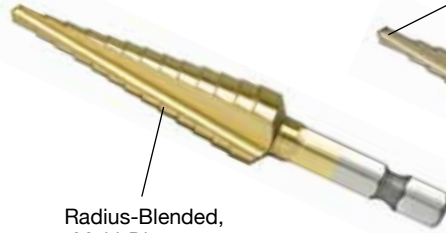
## High-Speed Steel Professional Quality

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

### Features:

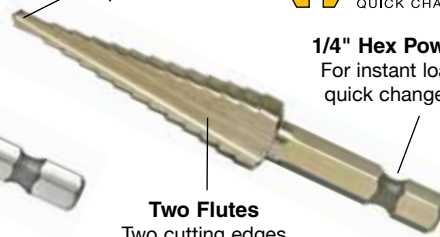
- Eliminates "walking" and the need for centerpunching.
- Non-skid tip gives instant start even on curved surfaces.

**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

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### 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



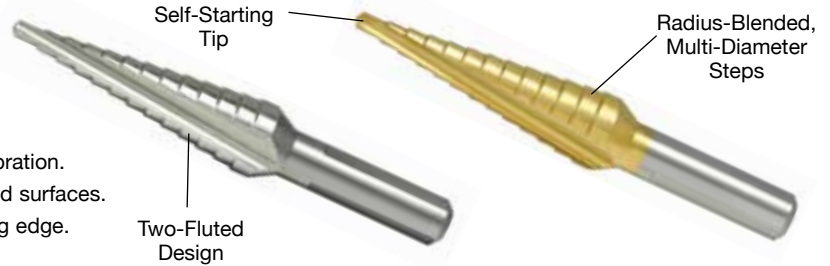
An ideal tool for sheet metal working in various sectors of industry: electrical, sanitary, heating, automotive, mechanical engineering, switching systems and aviation.

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

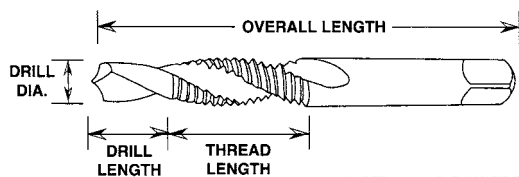
## Premium High-Speed Steel



**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



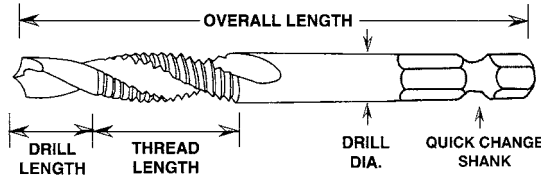
DTH66120

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!**

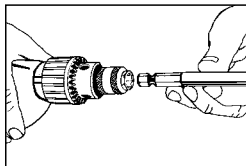
SIZE	PITCH	OVERALL LENGTH	THREAD LENGTH	DRILL LENGTH	DRILL DIAMETER	STOCK #
6	32 NC	3	7/16	5/16	.112	DTML66103
8	32 NC	3-1/8	1/2	3/8	.138	DTML66104
10	24 NC	3-3/8	5/8	13/32	.155	DTML66105
10	32 NF	3-3/8	5/8	13/32	.164	DTML66106
12	24 NC	3-3/8	21/32	15/32	.180	DTML66106A
12	28 NF	3-3/8	21/32	15/32	.180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

## 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.

A

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

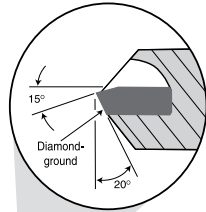
# MegaDrill™ Multi-Purpose Drill Bits

## 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



### 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

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

### 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.**




MD1098



MD1099

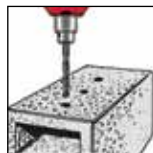
### SETS

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

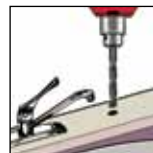
\*1/4" drill is 4-1/4" OAL.



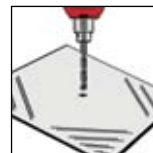
Hardened Steel & Cast Iron



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

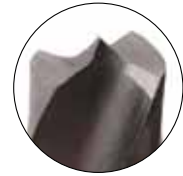
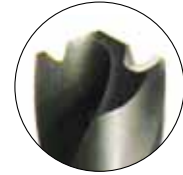


**Features:**

- 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.

**NEW!**

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

1 per pack

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



DESCRIPTION	STOCK #
<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

**NEW!**

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

1 per pack



## 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

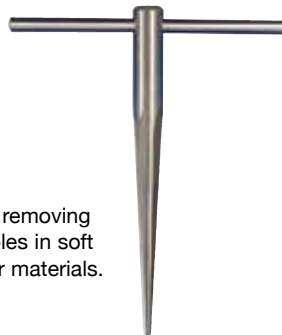
## Mechanic's Reamers

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.

### 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.

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



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.

### 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.

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



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.



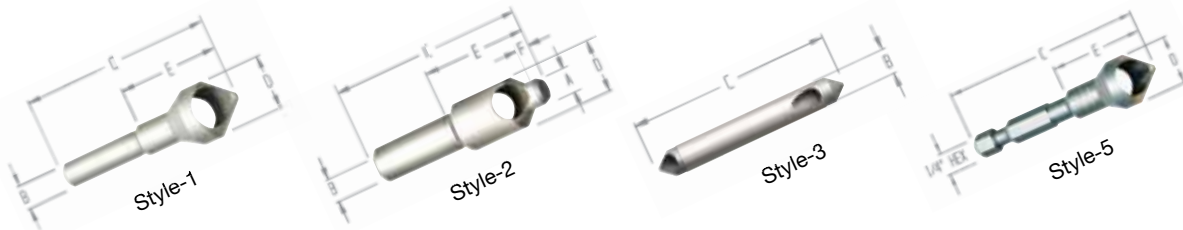
• ECO PRO drills are made outside the United States to ALFA TOOLS' specifications.

# 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

### 1/4" HEX SHANK MONOLOCK®

5/64	15/64	Nos. 2, 3, 4	-	Hex	1-27/32	1/4	3/4	-	5	CD98831	CS-3SH
1/8	11/32	Nos. 5, 6, 8	-	Hex	2	11/32	3/4	-	5	CD98832	CS-8SH
3/16	17/32	Nos. 10,12,14	-	Hex	2-5/16	9/16	1-1/16	-	5	CD98833	CS-18H

1 per pack

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



SET

SET QTY.	SIZES	STOCK #
5 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

A

# Countersinks - Cont.

## High-Speed Steel

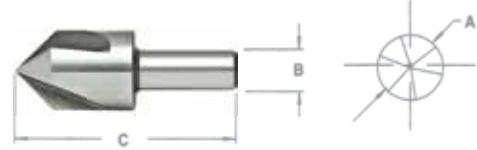


82°, 60° & 90° Point Angle  
Straight Shank

### 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

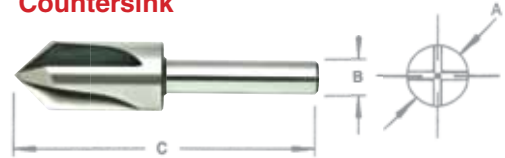
### Three Flute Countersink/ Center Reamer



### 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

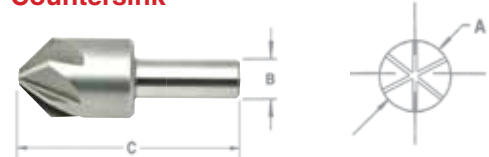
### Four Flute Machine Countersink



### 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



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

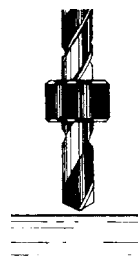
## Fast, Easy & Accurate

- 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



### 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



JC30248



HSA51070

Accepts 1/4" Hex Shank

## 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.

## ADJUSTABLE DRILL STOP COLLAR SET



# 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

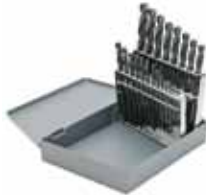
COATING / FINISH	POINT ANGLE	BRAND	STOCK #
HSS BLITZ® NITRIDE			
Black & Silver	135° Split Pt.	Alfa USA	BBN74594
HSS 3-FLATTED			
Black Oxide	135° Split Pt.	Alfa USA	SFL50194
HSS BLITZ BITS			
Black & Gold	135° Split Pt.	Alfa USA	BB74194
HIGH-SPEED STEEL			
Black Oxide	118° Point	Alfa USA	J150194
Bright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

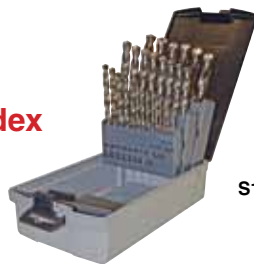
**29 Pc. Set**  
1/16" - 1/2" by 64ths  
in metal index



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

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

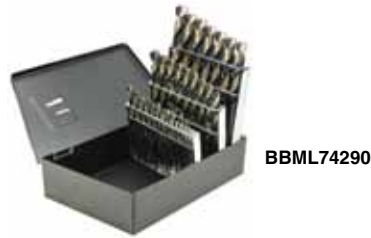
## SCREW MACHINE LENGTH DRILLS

**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
26 Pc. Set Letter Sizes in metal index			
HIGH-SPEED STEEL			
Black Oxide	135° Split Pt.	Alfa USA	SM50297
29 Pc. Set 1/16" - 1/2" by 64ths 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
60 Pc. Set Wire Gage #1 - #60 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	GDCSFL300
<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

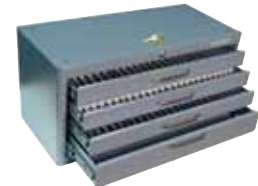
## Huot DISPENSER CABINETS WITH JOBBER DRILLS

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

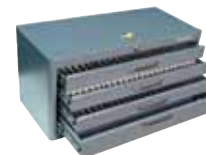
(Four Drawers)

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.



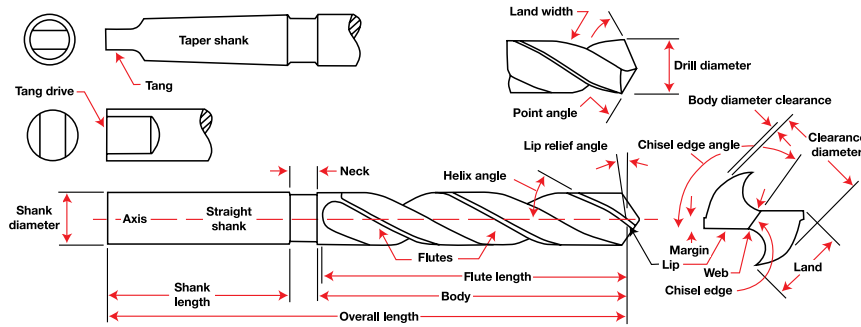
DIHTD18B



**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
1-7/8			48	180	120		HOSA62522		
2			51	1-1/2	170		115	HOSA62524	
2-1/8	54		160	105	HOSA62526				
2-1/4	57		2	2	150	100	HOSA62528		
2-3/8	60				140	95	HOSA62530		
2-1/2	64				135	90	HOSA62532		
2-5/8	67				130	85	HOSA62534		
2-3/4	70				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	5	5-1/2	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"	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

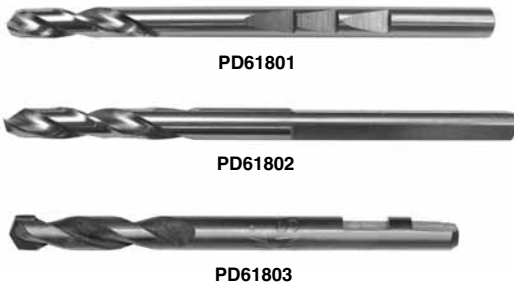
DESCRIPTION	SHANK SIZE	THREAD SIZE	FITS HOLE SAWS	PILOT DRILL	CHUCK SIZE	STOCK #
<b>Type A</b> for Bi-Metal and Carbide Tipped Hole Saws	1/4" Round	1/2"-20	3/4" - 1-1/8"	HSS 1/4"	1/4"	HOSA62590
<b>Type B</b> for Bi-Metal and Carbide Tipped Hole Saws	7/16" Hex	5/8"-18	1-1/4" - 6"	HSS 1/4"	1/2"	HOSA62591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



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

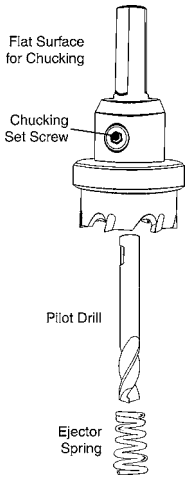


**Features:**

- 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".

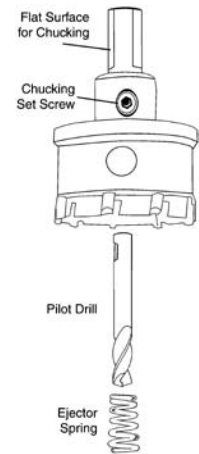


### DEPTH OF CUT 1"

**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

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## 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.



Carbide Tipped RotaCutter™

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### 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

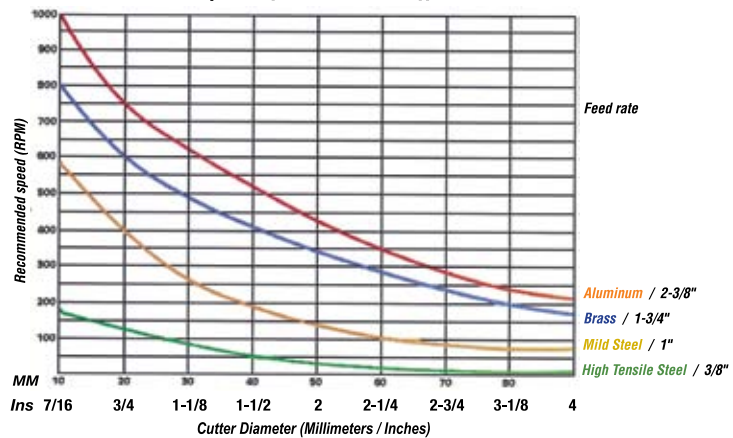
- The rate at which a cutter can penetrate material is measured in inches or millimeters per minute. Formula for calculating this is:

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

(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



RCA10

RCA08

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

**NEW!**

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

1 per pack

## 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



RCA06

RCB12

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

1 per pack

## 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.



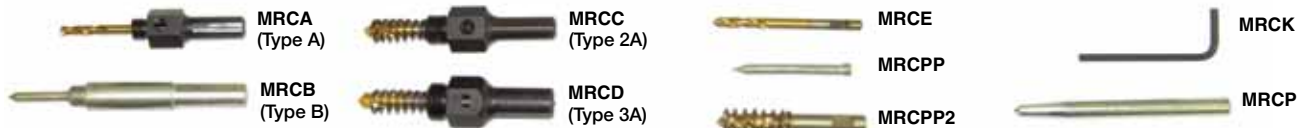
## 7 Pc. Mini ROTACUTTER™ Kits

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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