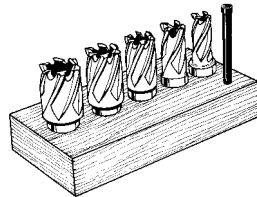
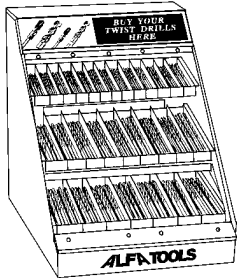
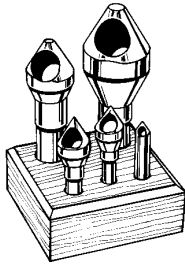
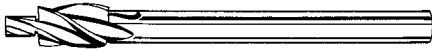
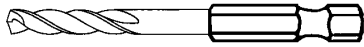


Drills, Annular Cutters Countersinks Counterbores Reamers, Accessories

A

A



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Drill Cabinets – Complete

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Blitz Bits® – Mechanic’s Length	A5
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Carbide Tipped	A26

Solid Carbide Twist Drills	A27
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1/2" Shank, Metric, Silver & Deming	A32
1/2" Shank, Carbide Tipped “Bowling Ball”	A32
3/4" Shank, Silver & Deming	A32



Blitz Bits® are M-7 heavy duty drills for tough applications, Black/Gold finished.



A

Drills, Annular Cutters Countersinks Counterbores Reamers, Accessories

A

Screw Machine Length Drills

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DECIMAL & METRIC EQUIVALENT CHART

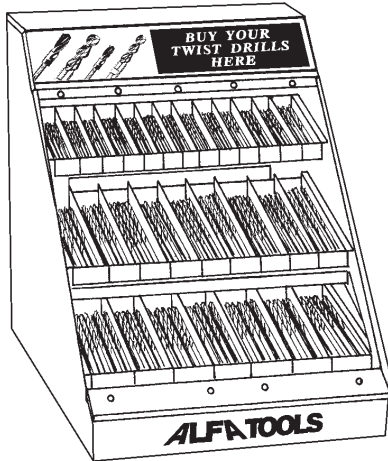
FRACTIONAL • WIRE • LETTER • METRIC

A

Drill Size	m/m	Decimal Equiv.	Drill Size	m/m	Decimal Equiv.	Drill Size	m/m	Decimal Equiv.	Drill Size	m/m	Decimal Equiv.
	0.10	.0039	46	2.06	.0810	5	5.22	.2055	29/64	11.51	.4531
	0.20	.0079	45	2.08	.0820	4	5.31	.2090	15/32	11.91	.4688
	0.25	.0098	44	2.18	.0860	3	5.41	.2130		12.00	.4724
	0.30	.0118	43	2.26	.0890	7/32	5.56	.2188	31/64	12.30	.4844
80	0.34	.0135	42	2.37	.0935	2	5.61	.2210	1/2	12.70	.5000
79	0.37	.0145	3/32	2.38	.0938	1	5.79	.2280		13.00	.5118
1/64	0.40	.0156	41	2.44	.0960	A	5.94	.2340	33/64	13.10	.5156
	0.40	.0157	40	2.50	.0980	15/64	5.95	.2344	17/32	13.49	.5312
78	0.41	.0160	39	2.53	.0995		6.00	.2362	35/64	13.89	.5469
77	0.46	.0180	38	2.58	.1015	B	6.05	.2380		14.00	.5512
	0.50	.0197	37	2.64	.1040	C	6.15	.2420	9/16	14.29	.5625
76	0.51	.0200	36	2.71	.1065	D	6.25	.2460	37/64	14.68	.5781
75	0.53	.0210	7/64	2.78	.1094	1/4	6.35	.2500		15.00	.5906
74	0.57	.0225	35	2.79	.1100	E	6.35	.2500	19/32	15.08	.5938
	0.60	.0236	34	2.82	.1110	F	6.53	.2570	39/64	15.48	.6094
73	0.61	.0240	33	2.87	.1130	G	6.63	.2610	5/8	15.88	.6250
72	0.64	.0250	32	2.95	.1160	17/64	6.75	.2656		16.00	.6299
71	0.66	.0260		3.00	.1181	H	6.76	.2660	41/64	16.27	.6406
	0.70	.0276	31	3.05	.1200	I	6.91	.2720	21/32	16.67	.6562
70	0.71	.0280	1/8	3.18	.1250		7.00	.2756		17.00	.6693
69	0.74	.0292	30	3.26	.1285	J	7.04	.2770	43/64	17.07	.6719
	0.75	.0295	29	3.45	.1360	K	7.14	.2810	11/16	17.46	.6875
68	0.77	.0310	28	3.57	.1405	9/32	7.14	.2812	45/64	17.86	.7031
1/32	0.79	.0312	9/64	3.57	.1406	L	7.37	.2900		18.00	.7087
	0.80	.0315	27	3.66	.1440	M	7.49	.2950	23/32	18.26	.7188
67	0.81	.0320	26	3.73	.1470	19/64	7.54	.2969	47/64	18.65	.7344
66	0.84	.0330	25	3.80	.1495	N	7.67	.3020		19.00	.7480
65	0.89	.0350	24	3.86	.1520	5/16	7.94	.3125	3/4	19.05	.7500
	0.90	.0354	23	3.91	.1540		8.00	.3150	49/64	19.45	.7656
64	0.91	.0360	5/32	3.97	.1562	O	8.03	.3160	25/32	19.84	.7812
63	0.94	.0370	22	3.99	.1570	P	8.20	.3230		20.00	.7874
62	0.97	.0380		4.00	.1575	21/64	8.33	.3281	51/64	20.24	.7969
61	0.99	.0390	21	4.04	.1590	Q	8.43	.3320	13/16	20.64	.8125
	1.00	.0394	20	4.09	.1610	R	8.61	.3390		21.00	.8268
60	1.02	.0400	19	4.22	.1660	11/32	8.73	.3438	53/64	21.03	.8281
59	1.04	.0410	18	4.31	.1695	S	8.84	.3480	27/32	21.43	.8438
58	1.07	.0420	11/64	4.37	.1719		9.00	.3543	55/64	21.84	.8594
57	1.09	.0430	17	4.39	.1730	T	9.09	.3580		22.00	.8661
56	1.18	.0465	16	4.50	.1770	23/64	9.13	.3594	7/8	22.23	.8750
3/64	1.19	.0469	15	4.57	.1800	U	9.35	.3680	57/64	22.62	.8906
55	1.32	.0520	14	4.62	.1820	3/8	9.53	.3750		23.00	.9055
54	1.40	.0550	13	4.70	.1850	V	9.56	.3770	29/32	23.02	.9062
53	1.51	.0595	3/16	4.76	.1875	W	9.80	.3860	59/64	23.42	.9219
1/16	1.59	.0625	12	4.80	.1890	25/64	9.92	.3906	15/16	23.81	.9375
52	1.61	.0635	11	4.85	.1910		10.00	.3937		24.00	.9449
51	1.70	.0670	10	4.91	.1935	X	10.08	.3970	61/64	24.21	.9531
50	1.78	.0700	9	4.98	.1960	Y	10.26	.4040	31/32	24.61	.9688
49	1.85	.0730		5.00	.1969	13/32	10.32	.4062		25.00	.9843
48	1.93	.0760	8	5.05	.1990	Z	10.49	.4130	63/64	25.00	.9844
5/64	1.98	.0781	7	5.11	.2010	27/64	10.72	.4219	1	25.40	1.0000
47	1.99	.0785	13/64	5.16	.2031		11.00	.4331			
	2.00	.0787	6	5.18	.2040	7/16	11.11	.4375			

- For exact decimal equivalent, multiply mm times .03937
- For exact mm equivalent, multiply decimal times 25.4

JOBBER DRILL DISPENSERS



- Compact metal display case with clear, plexiglass front cover for high visibility and shatterproof durability.
- Lockable with own set of keys.
- Size identifications embossed.
- Steel drill gauge on top assures correct sizing of drills.
- Organized "point-of-sale" displays make drills readily accessible.

Drill varieties available:

- HSS Black Oxide 118°
- HSS Bright Finish 118°
- HSS Black Oxide 135°
- HSS Blitz Bit®, Black & Gold 135°
- M42 Cobalt, Straw Gold Finish 135°

JOBBER LENGTH DRILLS IN METAL DISPLAY CASE

Dimensions: 12-3/4" W x 14" D x 14-1/4" H

Expanded Offering!

PCS. PER CASE	DESCRIPTION			FINISH	STOCK #
FRACTIONAL SIZES: 1/16" to 1/2" by 64ths					
500 Fractional Display Cabinet Contains:	Alfa USA, HSS General Purpose 118° Point			Black Oxide	GDCF500
	Alfa USA, HSS General Purpose 118° Point			Bright Finish	GDCF500B
	Alfa USA, HSS Heavy Duty 135° Split Point			Black Oxide	GDCSF500
	Alfa USA, Blitz Bits®, HSS Heavy Duty 135° Split Point			Black/Gold	GDCBBF7500
	Alfa USA, Cobalt, Extra Heavy Duty 135° Split Point			Straw Gold	GDCCOF500
SIZE QTY.	SIZE QTY.	SIZE QTY.			
1/16" 24	7/32" 12	3/8" 6			
5/64" 24	15/64" 12	25/64" 2			
3/32" 60	1/4" 24	13/32" 2			
7/64" 36	17/64" 6	27/64" 2			
1/8" 84	9/32" 6	7/16" 3			
9/64" 36	19/64" 3	29/64" 2			
5/32" 60	5/16" 6	15/32" 2			
11/64" 12	21/64" 3	31/64" 2			
3/16" 48	11/32" 6	1/2" 3			
13/64" 12	23/64" 2				

WIRE GAUGE SIZES: 1 to 60					
720 Wire Gauge Display Cabinet Contains: 12 each of sizes #1 to #60	Alfa USA, HSS General Purpose 118° Point			Black Oxide	GDCN720
	Alfa USA, HSS Heavy Duty 135° Split Point			Black Oxide	GDCNS720
	Blitz Bits®, HSS Heavy Duty 135° Split Point			Black/Gold	GDCNB720
	Alfa USA, Cobalt, Extra Heavy Duty 135° Split Point			Straw Gold	GDCNC720

LETTER SIZES: A to Z					
240 Letter Display Cabinet Contains: 12 each of sizes A to N 6 each of sizes O to Z	Alfa USA, HSS General Purpose 118° Point			Black Oxide	GDCL240
	Alfa USA, HSS Heavy Duty 135° Split Point			Black Oxide	GDCLS240
	Blitz Bits®, HSS Heavy Duty 135° Split Point			Black/Gold	GDCLB240

• 1 dispenser per box

DRILL DISPENSERS WITHOUT DRILLS		
For Fractional Sizes 1/16" - 1/2" by 1/64ths	-	DIHGDCF
For Wire Gauge Sizes #1 - #60	-	DIHGDCN
For Letter Size A - Z	-	DIHGDCI



• ALFA USA drills are manufactured in the United States.

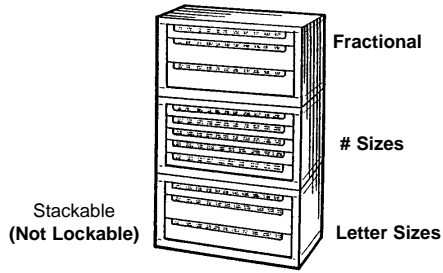
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Jobber Drill Dispensers

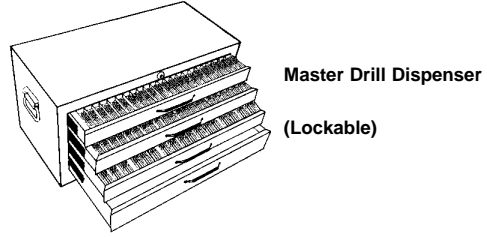
COMPLETE DRILL CABINETS

A

Complete Drill Cabinets



TOOLS INCLUDED
For empty cabinet dispensers
See Pages A-79-A-80



DISPENSER CABINETS WITH JOBBER DRILLS

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

NEW

DRILLS PER DISPENSER	DESCRIPTION	FINISH	STOCK #
FRACTIONAL SIZES			
276 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	DDCOF

SWG NUMBER SIZES			
720 Contains SWG Number Size Drills: 12 each of sizes #1 to #60 in Five Drawer Dispenser Cabinet	Alfa USA, HSS General Purpose 118° Point	Black Oxide	DDJDN
	Alfa USA, HSS Heavy Duty 135° Split Point	Black Oxide	DDSPN
	Blitz Bits®, Heavy Duty 135° Split Point	Black/Gold	DDBBN
	Cobalt, Extra Heavy Duty 135° Split Point	Straw Gold	DDCON

LETTER SIZES			
240 Contains Letter Size Drills: 12 each of sizes A to N; 6 each of sizes O to Z in Three Drawer Dispenser Cabinet	Alfa USA, HSS General Purpose 118° Point	Black Oxide	DDJDL
	Alfa USA, HSS Heavy Duty 135° Split Point	Black Oxide	DDSPL
	Blitz Bits®, Regular Flute 135° Split Point	Black/Gold	DDBBL
	Cobalt, Extra Heavy Duty 135° Split Point	Straw Gold	DDCOL

MASTER DISPENSER CABINET WITH FRACTIONAL, LETTER & SWG NUMBER SIZE JOBBER DRILLS

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

1236 Fractional, Letter & SWG Number 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®, Regular Flute 135° Split Point	Black/Gold	MDDBB
	Cobalt, Extra Heavy Duty 135° Split Point	Straw Gold	MDDCO

DISPENSER CABINET WITH BLITZ BITS®, MECHANIC'S LENGTH

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

276 Contains Fractional Size Drills: 12 each of sizes 1/16" to 5/16"; 6 each of 21/64" to 1/2"	Blitz Bits®, Mechanic's Length 135° Split Point	Black/Gold	DDBBM
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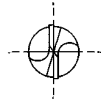


BLITZ BITS® - MECHANIC'S LENGTH

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

HEAVY DUTY
3 FLAT SHANK DESIGN
135° SPLIT POINT
BLACK & GOLD FINISH

- The special 3-flat shank design provides a positive no-slip grip.
- Shorter overall length increases rigidity.
- No-slip positive grip is ideal for cordless, keyless and conventional power tools.
- A powerful combination of strength and performance.



NEW

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 & 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 & reduces thrust.
- Designed for drilling the widest range of materials like mild steel, stainless steel, non-ferrous materials, and wood.

Inch Dimensions

STRAIGHT SHANK

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
*1/16	7/8	1-7/8	BBML74201
*5/64	1	2	BBML74202
*3/32	1-1/4	2-1/4	BBML74203
*7/64	1-5/16	2-3/8	BBML74204
*1/8	1-7/16	2-1/2	BBML74205
*9/64	1-9/16	2-5/8	BBML74206
*5/32	1-11/16	2-3/4	BBML74207
*11/64	1-13/16	2-7/8	BBML74208
3/16	1-7/8	3	BBML74209
13/64	1-15/16	3-1/8	BBML74210
7/32	2	3-1/4	BBML74211
15/64	2-1/16	3-3/8	BBML74212
1/4	2	3-1/2	BBML74213
17/64	2-1/8	3-5/8	BBML74214
9/32	2-1/4	3-3/4	BBML74215
19/64	2-3/8	3-7/8	BBML74216
5/16	2-1/2	4	BBML74217
21/64	2-9/16	4-1/16	BBML74218
11/32	2-5/8	4-1/8	BBML74219
23/64	2-11/16	4-3/16	BBML74220
3/8	2-11/16	4-1/8	BBML74221
25/64	2-3/4	4-5/16	BBML74222
13/32	2-13/16	4-3/8	BBML74223
27/64	2-7/8	4-7/16	BBML74224
7/16	2-15/16	4-1/2	BBML74225
29/64	3	4-5/8	BBML74226
15/32	3-1/8	4-3/4	BBML74227
31/64	3-1/4	4-7/8	BBML74228
1/2	3-3/8	5	BBML74229

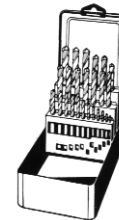
• 1/16" to 5/16", 12 per envelope *sizes do not have flats on shank
21/64" to 1/2", 6 per envelope

Inch Dimensions

3/8" REDUCED SHANK

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
27/64	2-7/8	4-7/16	BBML74224R
7/16	2-15/16	4-1/2	BBML74225R
29/64	3	4-5/8	BBML74226R
15/32	3-1/8	4-3/4	BBML74227R
31/64	3-1/4	4-7/8	BBML74228R
1/2	3-3/8	5	BBML74229R

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



BLITZ BITS® MECHANIC'S LENGTH DRILL SETS IN METAL INDEX

SET QTY.	SIZE RANGE	ALFA USA STOCK #
13 Pc.	Fractional Sizes 1/16" - 1/4" by 64ths	BBML74294
15 Pc.	Fractional Sizes 1/16" - 1/2" by 32nds	BBML74293
21 Pc.	Fractional Sizes 1/16" - 3/8" by 64ths	BBML74292
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	BBML74290
3/8" REDUCED SHANK		
15 Pc.	Fractional Sizes 1/16" - 1/2" by 32nds	BBML74293R
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	BBML74290R



• ALFA USA drills are manufactured in the United States.

A

Blitz Bit® - Mechanic's Length

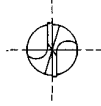


BLITZ BITS® - JOBBER DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

HEAVY DUTY
135° SPLIT POINT
BLACK & GOLD OXIDE FINISH

• BLITZ BITS® Jobber Drills are also available in Parabolic Flute.
(See page A-8).



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 & 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, non-ferrous materials, and wood.

Inch
Dimensions

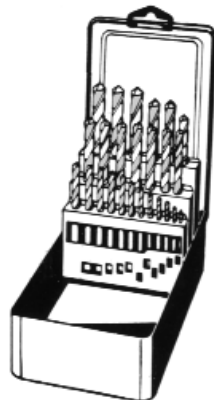
FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
			STOCK #	
			ENVELOPED	CARDED
1/16	7/8	1-7/8	BB74101	BB74101C
5/64	1	2	BB74102	BB74102C
3/32	1-1/4	2-1/4	BB74103	BB74103C
7/64	1-1/2	2-5/8	BB74104	BB74104C
1/8	1-5/8	2-3/4	BB74105	BB74105C
9/64	1-3/4	2-7/8	BB74106	BB74106C
5/32	2	3-1/8	BB74107	BB74107C
11/64	2-1/8	3-1/4	BB74108	BB74108C
3/16	2-5/16	3-1/2	BB74109	BB74109C
13/64	2-7/16	3-5/8	BB74110	BB74110C
7/32	2-1/2	3-3/4	BB74111	BB74111C
15/64	2-5/8	3-7/8	BB74112	BB74112C
1/4	2-3/4	4	BB74113	BB74113C
17/64	2-7/8	4-1/8	BB74114	BB74114C
9/32	2-15/16	4-1/4	BB74115	BB74115C

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
			STOCK #	
			ENVELOPED	CARDED
19/64	3-1/16	4-3/8	BB74116	BB74116C
5/16	3-3/16	4-1/2	BB74117	BB74117C
21/64	3-5/16	4-5/8	BB74118	BB74118C
11/32	3-7/16	4-3/4	BB74119	BB74119C
23/64	3-1/2	4-7/8	BB74120	BB74120C
3/8	3-5/8	5	BB74121	BB74121C
25/64	3-3/4	5-1/8	BB74122	BB74122C
13/32	3-7/8	5-1/4	BB74123	BB74123C
27/64	3-15/16	5-3/8	BB74124	BB74124C
7/16	4-1/16	5-1/2	BB74125	BB74125C
29/64	4-3/16	5-5/8	BB74126	BB74126C
15/32	4-5/16	5-3/4	BB74127	BB74127C
31/64	4-3/8	5-7/8	BB74128	BB74128C
1/2	4-1/2	6	BB74129	BB74129C

- Bulk 1/16" to 5/16", 12 per envelope
21/64" to 1/2", 6 per envelope
- Card 1/16" to 1/8", 2 drills per card
9/64" to 1/2", 1 per card

For Reduced Shank, see page A-29



BLITZ BITS® JOBBER DRILL SETS IN METAL INDEX

SET QTY.	SIZE RANGE	ALFA USA
		STOCK #
13 Pc.	Fractional Sizes 1/16" - 1/4" by 64ths	BB74194
15 Pc.	Fractional Sizes 1/16" - 1/2" by 32nds	BB74193
21 Pc.	Fractional Sizes 1/16" - 3/8" by 64ths	BB74192
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	BB74190
26 Pc.	Letter Sizes A - Z	BB74197
60 Pc.	SWG Number Sizes #1 - #60	BB74191
115 Pc.	Fractional Sizes 1/16" - 1/2" by 64th Letter Sizes A - Z SWG Number Sizes #1 - #60	BB74199





BLITZ BITS® - JOBBER DRILLS - Cont.

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

HEAVY DUTY
135° SPLIT POINT
BLACK & GOLD OXIDE FINISH



Inch
Dimensions

SWG NUMBER SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
1	2-5/8	3-7/8	BB74301
2	2-5/8	3-7/8	BB74302
3	2-1/2	3-3/4	BB74303
4	2-1/2	3-3/4	BB74304
5	2-1/2	3-3/4	BB74305
6	2-1/2	3-3/4	BB74306
7	2-7/16	3-5/8	BB74307
8	2-7/16	3-5/8	BB74308
9	2-7/16	3-5/8	BB74309
10	2-7/16	3-5/8	BB74310
11	2-5/16	3-1/2	BB74311
12	2-5/16	3-1/2	BB74312
13	2-5/16	3-1/2	BB74313
14	2-3/16	3-3/8	BB74314
15	2-3/16	3-3/8	BB74315
16	2-3/16	3-3/8	BB74316
17	2-3/16	3-3/8	BB74317
18	2-1/8	3-1/4	BB74318
19	2-1/8	3-1/4	BB74319
20	2-1/8	3-1/4	BB74320
21	2-1/8	3-1/4	BB74321
22	2	3-1/8	BB74322
23	2	3-1/8	BB74323
24	2	3-1/8	BB74324
25	1-7/8	3	BB74325
26	1-7/8	3	BB74326
27	1-7/8	3	BB74327
28	1-3/4	2-7/8	BB74328
29	1-3/4	2-7/8	BB74329
30	1-5/8	2-3/4	BB74330

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
31	1-5/8	2-3/4	BB74331
32	1-5/8	2-3/4	BB74332
33	1-1/2	2-5/8	BB74333
34	1-1/2	2-5/8	BB74334
35	1-1/2	2-5/8	BB74335
36	1-7/16	2-1/2	BB74336
37	1-7/16	2-1/2	BB74337
38	1-7/16	2-1/2	BB74338
39	1-3/8	2-3/8	BB74339
40	1-3/8	2-3/8	BB74340
41	1-3/8	2-3/8	BB74341
42	1-1/4	2-1/4	BB74342
43	1-1/4	2-1/4	BB74343
44	1-1/8	2-1/8	BB74344
45	1-1/8	2-1/8	BB74345
46	1-1/8	2-1/8	BB74346
47	1	2	BB74347
48	1	2	BB74348
49	1	2	BB74349
50	1	2	BB74350
51	1	2	BB74351
52	7/8	1-7/8	BB74352
53	7/8	1-7/8	BB74353
54	7/8	1-7/8	BB74354
55	7/8	1-7/8	BB74355
56	3/4	1-3/4	BB74356
57	3/4	1-3/4	BB74357
58	11/16	1-5/8	BB74358
59	11/16	1-5/8	BB74359
60	11/16	1-5/8	BB74360

• 1 to 60, 12 per envelope

LETTER SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
A	2-5/8	3-7/8	BB74201
B	2-3/4	4	BB74202
C	2-3/4	4	BB74203
D	2-3/4	4	BB74204
E	2-3/4	4	BB74205
F	2-7/8	4-1/8	BB74206
G	2-7/8	4-1/8	BB74207
H	2-7/8	4-1/8	BB74208
I	2-7/8	4-1/8	BB74209
J	2-7/8	4-1/8	BB74210
K	2-15/16	4-1/4	BB74211
L	2-15/16	4-1/4	BB74212
M	3-1/16	4-3/8	BB74213

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
N	3-1/16	4-3/8	BB74214
O	3-3/16	4-1/2	BB74215
P	3-5/16	4-5/8	BB74216
Q	3-7/16	4-3/4	BB74217
R	3-7/16	4-3/4	BB74218
S	3-1/2	4-7/8	BB74219
T	3-1/2	4-7/8	BB74220
U	3-5/8	5	BB74221
V	3-5/8	5	BB74222
W	3-3/4	5-1/8	BB74223
X	3-3/4	5-1/8	BB74224
Y	3-7/8	5-1/4	BB74225
Z	3-7/8	5-1/4	BB74226

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



• ALFA USA drills are manufactured in the United States.

A

Blitz Bit® - Jobber Drills

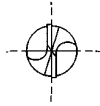


BLITZ BITS® - JOBBER DRILLS PARABOLIC FL.

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

HEAVY DUTY
135° SPLIT POINT
BLACK & GOLD OXIDE FINISH

The wide land parabolic design is specially effective in deep hole drilling; unique flute form produces closer tolerances due to improved chip and coolant flow. 135° self centering split point reduces thrust.



A
Blitz Bit® - Jobber Drills

FRACTIONAL SIZES

Inch Dimensions

SIZE	ALFA USA	
	STOCK #	
	ENVELOPED	CARDED
1/16	BB50101	BB50101C
5/64	BB50102	BB50102C
3/32	BB50103	BB50103C
7/64	BB50104	BB50104C
1/8	BB50105	BB50105C
9/64	BB50106	BB50106C
5/32	BB50107	BB50107C
11/64	BB50108	BB50108C
3/16	BB50109	BB50109C
13/64	BB50110	BB50110C
7/32	BB50111	BB50111C
15/64	BB50112	BB50112C
1/4	BB50113	BB50113C
17/64	BB50114	BB50114C
9/32	BB50115	BB50115C
19/64	BB50116	BB50116C
5/16	BB50117	BB50117C
21/64	BB50118	BB50118C
11/32	BB50119	BB50119C
23/64	BB50120	BB50120C
3/8	BB50121	BB50121C
25/64	BB50122	BB50122C
13/32	BB50123	BB50123C
27/64	BB50124	BB50124C
7/16	BB50125	BB50125C
29/64	BB50126	BB50126C
15/32	BB50127	BB50127C
31/64	BB50128	BB50128C
1/2	BB50129	BB50129C

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

• **Card** 1/16" to 1/8", 2 drills per card
9/64" to 1/2", 1 per card

SWG NUMBER SIZES

SIZE	STOCK #
1	BB60101
2	BB60102
3	BB60103
4	BB60104
5	BB60105
6	BB60106
7	BB60107
8	BB60108
9	BB60109
10	BB60110
11	BB60111
12	BB60112
13	BB60113
14	BB60114
15	BB60115
16	BB60116
17	BB60117
18	BB60118
19	BB60119
20	BB60120
21	BB60121
22	BB60122
23	BB60123
24	BB60124
25	BB60125
26	BB60126
27	BB60127
28	BB60128
29	BB60129
30	BB60130

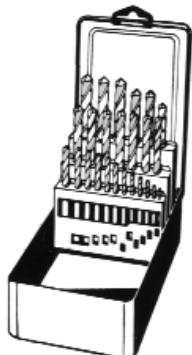
• 1 to 60, 12 per envelope

SIZE	STOCK #
31	BB60131
32	BB60132
33	BB60133
34	BB60134
35	BB60135
36	BB60136
37	BB60137
38	BB60138
39	BB60139
40	BB60140
41	BB60141
42	BB60142
43	BB60143
44	BB60144
45	BB60145
46	BB60146
47	BB60147
48	BB60148
49	BB60149
50	BB60150
51	BB60151
52	BB60152
53	BB60153
54	BB60154
55	BB60155
56	BB60156
57	BB60157
58	BB60158
59	BB60159
60	BB60160

LETTER SIZES

SIZE	STOCK #
A	BB60201
B	BB60202
C	BB60203
D	BB60204
E	BB60205
F	BB60206
G	BB60207
H	BB60208
I	BB60209
J	BB60210
K	BB60211
L	BB60212
M	BB60213
N	BB60214
O	BB60215
P	BB60216
Q	BB60217
R	BB60218
S	BB60219
T	BB60220
U	BB60221
V	BB60222
W	BB60223
X	BB60224
Y	BB60225
Z	BB60226

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



BLITZ BIT® PARABOLIC FLUTE DRILL SETS

IN METAL INDEX

SET QTY.	SIZE RANGE	ALFA USA
		STOCK #
13 Pc.	Fractional Sizes 1/16" - 1/4" by 64ths	BB50194
15 Pc.	Fractional Sizes 1/16" - 1/2" by 32nds	BB50193
21 Pc.	Fractional Sizes 1/16" - 3/8" by 64ths	BB50192
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	BB50190

SET QTY.	SIZE RANGE	ALFA USA
		STOCK #
26 Pc.	Letter Sizes A - Z	BB50197
60 Pc.	SWG Number Sizes #1 - #60	BB50191
115 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths SWG Number Sizes #1 - #60 Letter Sizes A - Z	BB50199



GENERAL PURPOSE JOBBER DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

JOBBER LENGTH
118° POINT
BLACK OXIDE OR BRIGHT FINISH

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 SIZES

Inch Dimensions

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA				ECO PRO	
				BLACK OXIDE		BRIGHT FINISH		BLACK OXIDE	
				STOCK #		STOCK #		STOCK #	
				ENVELOPED	CARDED	ENVELOPED	CARDED	ENVELOPED	CARDED
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	*J150101C	J150101B	*J150101BC	J250101	*J250101C
5/64	.0781	1	2	J150102	*J150102C	J150102B	*J150102BC	J250102	*J250102C
3/32	.0938	1-1/4	2-1/4	J150103	*J150103C	J150103B	*J150103BC	J250103	*J250103C
7/64	.1094	1-1/2	2-5/8	J150104	*J150104C	J150104B	*J150104BC	J250104	*J250104C
1/8	.1250	1-5/8	2-3/4	J150105	*J150105C	J150105B	*J150105BC	J250105	*J250105C
9/64	.1406	1-3/4	2-7/8	J150106	J150106C	J150106B	J150106BC	J250106	J250106C
5/32	.1562	2	3-1/8	J150107	J150107C	J150107B	J150107BC	J250107	J250107C
11/64	.1719	2-1/8	3-1/4	J150108	J150108C	J150108B	J150108BC	J250108	J250108C
3/16	.1875	2-5/16	3-1/2	J150109	J150109C	J150109B	J150109BC	J250109	J250109C
13/64	.2031	2-7/16	3-5/8	J150110	J150110C	J150110B	J150110BC	J250110	J250110C
7/32	.2188	2-1/2	3-3/4	J150111	J150111C	J150111B	J150111BC	J250111	J250111C
15/64	.2344	2-5/8	3-7/8	J150112	J150112C	J150112B	J150112BC	J250112	J250112C
1/4	.2500	2-3/4	4	J150113	J150113C	J150113B	J150113BC	J250113	J250113C
17/64	.2656	2-7/8	4-1/8	J150114	J150114C	J150114B	J150114BC	J250114	J250114C
9/32	.2812	2-15/16	4-1/4	J150115	J150115C	J150115B	J150115BC	J250115	J250115C
19/64	.2969	3-1/16	4-3/8	J150116	J150116C	J150116B	J150116BC	J250116	J250116C
5/16	.3125	3-3/16	4-1/2	J150117	J150117C	J150117B	J150117BC	J250117	J250117C
21/64	.3281	3-5/16	4-5/8	J150118	J150118C	J150118B	J150118BC	J250118	J250118C
11/32	.3438	3-7/16	4-3/4	J150119	J150119C	J150119B	J150119BC	J250119	J250119C
23/64	.3594	3-1/2	4-7/8	J150120	J150120C	J150120B	J150120BC	J250120	J250120C
3/8	.3750	3-5/8	5	J150121	J150121C	J150121B	J150121BC	J250121	J250121C
25/64	.3906	3-3/4	5-1/8	J150122	J150122C	J150122B	J150122BC	J250122	J250122C
13/32	.4062	3-7/8	5-1/4	J150123	J150123C	J150123B	J150123BC	J250123	J250123C
27/64	.4219	3-15/16	5-3/8	J150124	J150124C	J150124B	J150124BC	J250124	J250124C
7/16	.4375	4-1/16	5-1/2	J150125	J150125C	J150125B	J150125BC	J250125	J250125C
29/64	.4531	4-3/16	5-5/8	J150126	J150126C	J150126B	J150126BC	J250126	J250126C
15/32	.4688	4-5/16	5-3/4	J150127	J150127C	J150127B	J150127BC	J250127	J250127C
31/64	.4844	4-3/8	5-7/8	J150128	J150128C	J150128B	J150128BC	J250128	J250128C
1/2	.5000	4-1/2	6	J150129	J150129C	J150129B	J150129BC	J250129	J250129C

NOTICE

Jobber Drills over 1/2" diameter have straight cylindrical shanks.
For 1/2" Reduced Shank Drills, see Silver & Deming Drills on page A-30.

33/64	.5156	4-13/16	6-5/8	J150130	—	—	—	J250130	—
17/32	.5312	4-13/16	6-5/8	J150131	—	—	—	J250131	—
35/64	.5469	4-13/16	6-5/8	J150132	—	—	—	J250132	—
9/16	.5625	4-13/16	6-5/8	J150133	—	—	—	J250133	—
37/64	.5781	4-13/16	6-5/8	J150134	—	—	—	J250134	—
19/32	.5938	5-3/16	7-1/8	J150135	—	—	—	J250135	—
39/64	.6094	5-3/16	7-1/8	J150136	—	—	—	J250136	—
5/8	.6250	5-3/16	7-1/8	J150137	—	—	—	J250137	—
41/64	.6406	5-3/16	7-1/8	J150138	—	—	—	J250138	—
21/32	.6562	5-3/16	7-1/8	J150139	—	—	—	J250139	—
43/64	.6719	5-5/8	7-5/8	J150140	—	—	—	J250140	—
11/16	.6875	5-5/8	7-5/8	J150141	—	—	—	J250141	—

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

• Card 1/16" to 1/8", 2 drills per card
9/64" to 1/2", 1 per card

*1/16" to 1/8", 2 drills per card



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

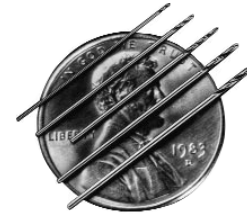


Continued

GENERAL PURPOSE JOBBER DRILLS - Cont.

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

JOBBER LENGTH
118° POINT
BLACK OXIDE OR BRIGHT FINISH



SWG NUMBER SIZES

Inch Dimensions				BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE	BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE				
SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #		ECO PRO STOCK #	SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #		ECO PRO STOCK #
1	.2280	2-5/8	3-7/8	J160101	J160101B	J260101	41	.0960	1-3/8	2-3/8	J160141	J160141B	J260141
2	.2210	2-5/8	3-7/8	J160102	J160102B	J260102	42	.0935	1-1/4	2-1/4	J160142	J160142B	J260142
3	.2130	2-1/2	3-3/4	J160103	J160103B	J260103	43	.0890	1-1/4	2-1/4	J160143	J160143B	J260143
4	.2090	2-1/2	3-3/4	J160104	J160104B	J260104	44	.0860	1-1/8	2-1/8	J160144	J160144B	J260144
5	.2055	2-1/2	3-3/4	J160105	J160105B	J260105	45	.0820	1-1/8	2-1/8	J160145	J160145B	J260145
6	.2040	2-1/2	3-3/4	J160106	J160106B	J260106	46	.0810	1-1/8	2-1/8	J160146	J160146B	J260146
7	.2010	2-7/16	3-5/8	J160107	J160107B	J260107	47	.0785	1	2	J160147	J160147B	J260147
8	.1990	2-7/16	3-5/8	J160108	J160108B	J260108	48	.0760	1	2	J160148	J160148B	J260148
9	.1960	2-7/16	3-5/8	J160109	J160109B	J260109	49	.0730	1	2	J160149	J160149B	J260149
10	.1935	2-7/16	3-5/8	J160110	J160110B	J260110	50	.0700	1	2	J160150	J160150B	J260150
11	.1910	2-5/16	3-1/2	J160111	J160111B	J260111	51	.0670	1	2	J160151	J160151B	J260151
12	.1890	2-5/16	3-1/2	J160112	J160112B	J260112	52	.0635	7/8	1-7/8	J160152	J160152B	J260152
13	.1850	2-5/16	3-1/2	J160113	J160113B	J260113	53	.0595	7/8	1-7/8	J160153	J160153B	J260153
14	.1820	2-3/16	3-3/8	J160114	J160114B	J260114	54	.0550	7/8	1-7/8	J160154	J160154B	J260154
15	.1800	2-3/16	3-3/8	J160115	J160115B	J260115	55	.0520	7/8	1-7/8	J160155	J160155B	J260155
16	.1770	2-3/16	3-3/8	J160116	J160116B	J260116	56	.0465	3/4	1-3/4	J160156	J160156B	J260156
17	.1730	2-3/16	3-3/8	J160117	J160117B	J260117	57	.0430	3/4	1-3/4	J160157	J160157B	J260157
18	.1695	2-1/8	3-1/4	J160118	J160118B	J260118	58	.0420	11/16	1-5/8	J160158	J160158B	J260158
19	.1660	2-1/8	3-1/4	J160119	J160119B	J260119	59	.0410	11/16	1-5/8	J160159	J160159B	J260159
20	.1610	2-1/8	3-1/4	J160120	J160120B	J260120	60	.0400	11/16	1-5/8	J160160	J160160B	J260160
21	.1590	2-1/8	3-1/4	J160121	J160121B	J260121	61	.0390	11/16	1-5/8	J160161	J160161B	J260161
22	.1570	2	3-1/8	J160122	J160122B	J260122	62	.0380	5/8	1-1/2	J160162	J160162B	J260162
23	.1540	2	3-1/8	J160123	J160123B	J260123	63	.0370	5/8	1-1/2	J160163	J160163B	J260163
24	.1520	2	3-1/8	J160124	J160124B	J260124	64	.0360	5/8	1-1/2	J160164	J160164B	J260164
25	.1495	1-7/8	3	J160125	J160125B	J260125	65	.0350	5/8	1-1/2	J160165	J160165B	J260165
26	.1470	1-7/8	3	J160126	J160126B	J260126	66	.0330	1/2	1-3/8	J160166	J160166B	J260166
27	.1440	1-7/8	3	J160127	J160127B	J260127	67	.0320	1/2	1-3/8	J160167	J160167B	J260167
28	.1405	1-3/4	2-7/8	J160128	J160128B	J260128	68	.0310	1/2	1-3/8	J160168	J160168B	J260168
29	.1360	1-3/4	2-7/8	J160129	J160129B	J260129	69	.0292	1/2	1-3/8	J160169	J160169B	J260169
30	.1285	1-5/8	2-3/4	J160130	J160130B	J260130	70	.0280	3/8	1-1/4	J160170	J160170B	J260170
31	.1200	1-5/8	2-3/4	J160131	J160131B	J260131	71	.0260	3/8	1-1/4	J160171	J160171B	J260171
32	.1160	1-5/8	2-3/4	J160132	J160132B	J260132	72	.0250	5/16	1-1/8	J160172	J160172B	J260172
33	.1130	1-1/2	2-5/8	J160133	J160133B	J260133	73	.0240	5/16	1-1/8	J160173	J160173B	J260173
34	.1110	1-1/2	2-5/8	J160134	J160134B	J260134	74	.0225	1/4	1	J160174	J160174B	J260174
35	.1100	1-1/2	2-5/8	J160135	J160135B	J260135	75	.0210	1/4	1	J160175	J160175B	J260175
36	.1065	1-7/16	2-1/2	J160136	J160136B	J260136	76	.0200	3/16	7/8	J160176	J160176B	J260176
37	.1040	1-7/16	2-1/2	J160137	J160137B	J260137	77	.0180	3/16	7/8	J160177	J160177B	J260177
38	.1015	1-7/16	2-1/2	J160138	J160138B	J260138	78	.0160	3/16	7/8	J160178	J160178B	J260178
39	.0995	1-3/8	2-3/8	J160139	J160139B	J260139	79	.0145	1/8	3/4	J160179	J160179B	J260179
40	.0980	1-3/8	2-3/8	J160140	J160140B	J260140	80	.0135	1/8	3/4	J160180	J160180B	J260180

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

• All drills available TiN coated. Details on request.

Continued



GENERAL PURPOSE JOBBER DRILLS - Cont.

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

JOBBER LENGTH

118° POINT

BLACK OXIDE OR BRIGHT FINISH



A

General Purpose Jobber Drills

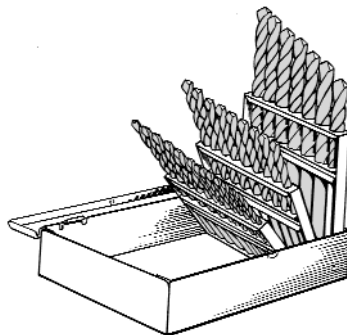
LETTER SIZES

Inch
Dimensions

SIZE	DECIMAL EQUIV.	FLUTE LENGTH	OVERALL LENGTH	BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE	BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE				
				ALFA USA STOCK #		ECO PRO STOCK #		ALFA USA STOCK #		ECO PRO STOCK #			
A	.234	2-5/8	3-7/8	J160201	J160201B	J260201	N	.302	3-1/16	4-3/8	J160214	J160214B	J260214
B	.238	2-3/4	4	J160202	J160202B	J260202	O	.316	3-3/16	4-1/2	J160215	J160215B	J260215
C	.242	2-3/4	4	J160203	J160203B	J260203	P	.323	3-5/16	4-5/8	J160216	J160216B	J260216
D	.246	2-3/4	4	J160204	J160204B	J260204	Q	.332	3-7/16	4-3/4	J160217	J160217B	J260217
E	.250	2-3/4	4	J160205	J160205B	J260205	R	.339	3-7/16	4-3/4	J160218	J160218B	J260218
F	.257	2-7/8	4-1/8	J160206	J160206B	J260206	S	.348	3-1/2	4-7/8	J160219	J160219B	J260219
G	.261	2-7/8	4-1/8	J160207	J160207B	J260207	T	.358	3-1/2	4-7/8	J160220	J160220B	J260220
H	.266	2-7/8	4-1/8	J160208	J160208B	J260208	U	.368	3-5/8	5	J160221	J160221B	J260221
I	.272	2-7/8	4-1/8	J160209	J160209B	J260209	V	.377	3-5/8	5	J160222	J160222B	J260222
J	.277	2-7/8	4-1/8	J160210	J160210B	J260210	W	.386	3-3/4	5-1/8	J160223	J160223B	J260223
K	.281	2-15/16	4-1/4	J160211	J160211B	J260211	X	.397	3-3/4	5-1/8	J160224	J160224B	J260224
L	.290	2-15/16	4-1/4	J160212	J160212B	J260212	Y	.404	3-7/8	5-1/4	J160225	J160225B	J260225
M	.295	3-1/16	4-3/8	J160213	J160213B	J260213	Z	.413	3-7/8	5-1/4	J160226	J160226B	J260226

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

GENERAL PURPOSE JOBBER DRILL SETS, 118° POINT IN METAL INDEX



SET QTY.	SIZE RANGE	BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE
		ALFA USA STOCK #	ALFA USA STOCK #	ECO PRO STOCK #
13 Pc.	Fractional Sizes 1/16" - 1/4" by 64ths	J150194	J150194B	J250194
15 Pc.	Fractional Sizes 1/16" - 1/2" by 32nds	J150193	J150193B	J250193
21 Pc.	Fractional Sizes 1/16" - 3/8" by 64ths	J150192	J150192B	J250192
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	J150190	J150190B	J250190
26 Pc.	Letter Sizes A - Z	J150197	J150197B	J250197
60 Pc.	SWG Number Sizes #1 - #60	J150191	J150191B	J250191
20 Pc.	SWG Number Sizes #61 - #80	J150189	J150189B	J250189
115 Pc.	1/16" - 1/2" by 64ths, A - Z, SWG Number Sizes #1 - #60	J150199	J150199B	J250199
19 Pc.	Maintenance Set: 1/16, 5/64, 3/32, 1/8, #29, #25, 5/32, #21, 3/16, #7, 7/32, 1/4, "F", 5/16, "U", 3/8, 27/64, 7/16, 1/2	J119	—	J219



- ALFA USA drills are manufactured in the United States.
- ECO PRO drills are made outside the United States to ALFA TOOLS' specifications.

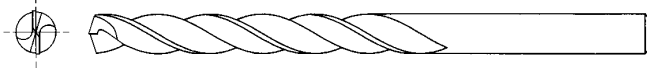


HEAVY DUTY JOBBER DRILLS

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL • NAS 907, TYPE B

JOBBER LENGTH
135° SPLIT POINT
BLACK OXIDE OR BRIGHT FINISH

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.



A
Heavy Duty Jobber Drills

FRACTIONAL SIZES

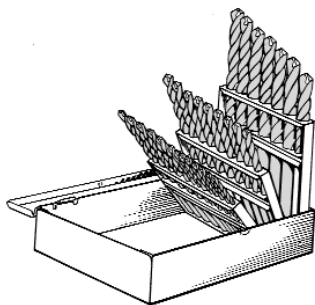
Inch Dimensions			BLACK OXIDE		BRIGHT FINISH		BLACK OXIDE	
SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA				ECO PRO	
			STOCK #		STOCK #		STOCK #	
			ENVELOPED	CARDED	ENVELOPED	CARDED	ENVELOPED	CARDED
1/16	7/8	1-7/8	S150101	S150101C	S150101B	S150101BC	S250101	S250101C
5/64	1	2	S150102	S150102C	S150102B	S150102BC	S250102	S250102C
3/32	1-1/4	2-1/4	S150103	S150103C	S150103B	S150103BC	S250103	S250103C
7/64	1-1/2	2-5/8	S150104	S150104C	S150104B	S150104BC	S250104	S250104C
1/8	1-5/8	2-3/4	S150105	S150105C	S150105B	S150105BC	S250105	S250105C
9/64	1-3/4	2-7/8	S150106	S150106C	S150106B	S150106BC	S250106	S250106C
5/32	2	3-1/8	S150107	S150107C	S150107B	S150107BC	S250107	S250107C
11/64	2-1/8	3-1/4	S150108	S150108C	S150108B	S150108BC	S250108	S250108C
3/16	2-5/16	3-1/2	S150109	S150109C	S150109B	S150109BC	S250109	S250109C
13/64	2-7/16	3-5/8	S150110	S150110C	S150110B	S150110BC	S250110	S250110C
7/32	2-1/2	3-3/4	S150111	S150111C	S150111B	S150111BC	S250111	S250111C
15/64	2-5/8	3-7/8	S150112	S150112C	S150112B	S150112BC	S250112	S250112C
1/4	2-3/4	4	S150113	S150113C	S150113B	S150113BC	S250113	S250113C
17/64	2-7/8	4-1/8	S150114	S150114C	S150114B	S150114BC	S250114	S250114C
9/32	2-15/16	4-1/4	S150115	S150115C	S150115B	S150115BC	S250115	S250115C
19/64	3-1/16	4-3/8	S150116	S150116C	S150116B	S150116BC	S250116	S250116C
5/16	3-3/16	4-1/2	S150117	S150117C	S150117B	S150117BC	S250117	S250117C
21/64	3-5/16	4-5/8	S150118	S150118C	S150118B	S150118BC	S250118	S250118C
11/32	3-7/16	4-3/4	S150119	S150119C	S150119B	S150119BC	S250119	S250119C
23/64	3-1/2	4-7/8	S150120	S150120C	S150120B	S150120BC	S250120	S250120C
3/8	3-5/8	5	S150121	S150121C	S150121B	S150121BC	S250121	S250121C
25/64	3-3/4	5-1/8	S150122	S150122C	S150122B	S150122BC	S250122	S250122C
13/32	3-7/8	5-1/4	S150123	S150123C	S150123B	S150123BC	S250123	S250123C
27/64	3-15/16	5-3/8	S150124	S150124C	S150124B	S150124BC	S250124	S250124C
7/16	4-1/16	5-1/2	S150125	S150125C	S150125B	S150125BC	S250125	S250125C
29/64	4-3/16	5-5/8	S150126	S150126C	S150126B	S150126BC	S250126	S250126C
15/32	4-5/16	5-3/4	S150127	S150127C	S150127B	S150127BC	S250127	S250127C
31/64	4-3/8	5-7/8	S150128	S150128C	S150128B	S150128BC	S250128	S250128C
1/2	4-1/2	6	S150129	S150129C	S150129B	S150129BC	S250129	S250129C

- Bulk 1/16" to 5/16", 12 per envelope
21/64" to 1/2", 6 per envelope
- Card 1/16" to 1/8", 2 drills per card
9/64" to 1/2", 1 per card

All Bright drills available TiN coated. See page A-15.

HEAVY DUTY 135° SPLIT PT. JOBBER DRILL SETS

IN METAL INDEX



SET QTY.	SIZE RANGE	BLACK OXIDE ALFA USA STOCK #	BRIGHT FINISH ALFA USA STOCK #	BLACK OXIDE ECO PRO STOCK #
13 Pc.	Fractional Sizes 1/16" - 1/4" by 64ths	S150194	S150194B	S250194
15 Pc.	Fractional Sizes 1/16" - 1/2" by 32nds	S150193	S150193B	S250193
21 Pc.	Fractional Sizes 1/16" - 3/8" by 64ths	S150192	S150192B	S250192
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	S150190	S150190B	S250190
26 Pc.	Letter Sizes A - Z	S150197	S150197B	S250197
60 Pc.	SWG Number Sizes #1 - #60	S150191	S150191B	S250191
115 Pc.	1/16" - 1/2" by 64ths, A - Z, *SWG Number Sizes #1 - #60	S150199	S150199B	S250199
19 Pc.	Maintenance Set: 1/16, 5/64, 3/32, 1/8, #29, #25, 5/32, #21, 3/16, #7, 7/32, 1/4, "F", 5/16, "U", 3/8, 27/64, 7/16, 1/2	S119	-	-

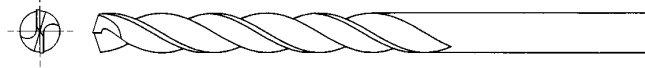
* #53 - #60 drills do not have a split point.



HEAVY DUTY JOBBER DRILLS - Cont.

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL • NAS 907, TYPE B

JOBBER LENGTH
135° SPLIT POINT
BLACK OXIDE OR BRIGHT FINISH



Expanded Offering!

A

Heavy Duty Jobber Drills

SWG NUMBER SIZES

Inch Dimensions	SIZE	FLUTE LENGTH	OVERALL LENGTH	BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE
				ALFA USA		ECO PRO
				STOCK #		STOCK #
	1	2-5/8	3-7/8	S160101	S160101B	S260101
	2	2-5/8	3-7/8	S160102	S160102B	S260102
	3	2-1/2	3-3/4	S160103	S160103B	S260103
	4	2-1/2	3-3/4	S160104	S160104B	S260104
	5	2-1/2	3-3/4	S160105	S160105B	S260105
	6	2-1/2	3-3/4	S160106	S160106B	S260106
	7	2-7/16	3-5/8	S160107	S160107B	S260107
	8	2-7/16	3-5/8	S160108	S160108B	S260108
	9	2-7/16	3-5/8	S160109	S160109B	S260109
	10	2-7/16	3-5/8	S160110	S160110B	S260110
	11	2-5/16	3-1/2	S160111	S160111B	S260111
	12	2-5/16	3-1/2	S160112	S160112B	S260112
	13	2-5/16	3-1/2	S160113	S160113B	S260113
	14	2-3/16	3-3/8	S160114	S160114B	S260114
	15	2-3/16	3-3/8	S160115	S160115B	S260115
	16	2-3/16	3-3/8	S160116	S160116B	S260116
	17	2-3/16	3-3/8	S160117	S160117B	S260117
	18	2-1/8	3-1/4	S160118	S160118B	S260118
	19	2-1/8	3-1/4	S160119	S160119B	S260119
	20	2-1/8	3-1/4	S160120	S160120B	S260120
	21	2-1/8	3-1/4	S160121	S160121B	S260121
	22	2	3-1/8	S160122	S160122B	S260122
	23	2	3-1/8	S160123	S160123B	S260123
	24	2	3-1/8	S160124	S160124B	S260124
	25	1-7/8	3	S160125	S160125B	S260125
	26	1-7/8	3	S160126	S160126B	S260126

Inch Dimensions	SIZE	FLUTE LENGTH	OVERALL LENGTH	BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE
				ALFA USA		ECO PRO
				STOCK #		STOCK #
	27	1-7/8	3	S160127	S160127B	S260127
	28	1-3/4	2-7/8	S160128	S160128B	S260128
	29	1-3/4	2-7/8	S160129	S160129B	S260129
	30	1-5/8	2-3/4	S160130	S160130B	S260130
	31	1-5/8	2-3/4	S160131	S160131B	S260131
	32	1-5/8	2-3/4	S160132	S160132B	S260132
	33	1-1/2	2-5/8	S160133	S160133B	S260133
	34	1-1/2	2-5/8	S160134	S160134B	S260134
	35	1-1/2	2-5/8	S160135	S160135B	S260135
	36	1-7/16	2-1/2	S160136	S160136B	S260136
	37	1-7/16	2-1/2	S160137	S160137B	S260137
	38	1-7/16	2-1/2	S160138	S160138B	S260138
	39	1-3/8	2-3/8	S160139	S160139B	S260139
	40	1-3/8	2-3/8	S160140	S160140B	S260140
	41	1-3/8	2-3/8	S160141	S160141B	S260141
	42	1-1/4	2-1/4	S160142	S160142B	S260142
	43	1-1/4	2-1/4	S160143	S160143B	S260143
	44	1-1/8	2-1/8	S160144	S160144B	S260144
	45	1-1/8	2-1/8	S160145	S160145B	S260145
	46	1-1/8	2-1/8	S160146	S160146B	S260146
	47	1	2	S160147	S160147B	S260147
	48	1	2	S160148	S160148B	S260148
	49	1	2	S160149	S160149B	S260149
	50	1	2	S160150	S160150B	S260150
	51	1	2	S160151	S160151B	S260151
	52	7/8	1-7/8	S160152	S160152B	S260152

• 1 to 52, 12 per envelope

LETTER SIZES

Inch Dimensions	SIZE	FLUTE LENGTH	OVERALL LENGTH	BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE
				ALFA USA		ECO PRO
				STOCK #		STOCK #
	A	2-5/8	3-7/8	S160201	S160201B	S260201
	B	2-3/4	4	S160202	S160202B	S260202
	C	2-3/4	4	S160203	S160203B	S260203
	D	2-3/4	4	S160204	S160204B	S260204
	E	2-3/4	4	S160205	S160205B	S260205
	F	2-7/8	4-1/8	S160206	S160206B	S260206
	G	2-7/8	4-1/8	S160207	S160207B	S260207
	H	2-7/8	4-1/8	S160208	S160208B	S260208
	I	2-7/8	4-1/8	S160209	S160209B	S260209
	J	2-7/8	4-1/8	S160210	S160210B	S260210
	K	2-15/16	4-1/4	S160211	S160211B	S260211
	L	2-15/16	4-1/4	S160212	S160212B	S260212
	M	3-1/16	4-3/8	S160213	S160213B	S260213

Inch Dimensions	SIZE	FLUTE LENGTH	OVERALL LENGTH	BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE
				ALFA USA		ECO PRO
				STOCK #		STOCK #
	N	3-1/16	4-3/8	S160214	S160214B	S260214
	O	3-3/16	4-1/2	S160215	S160215B	S260215
	P	3-5/16	4-5/8	S160216	S160216B	S260216
	Q	3-7/16	4-3/4	S160217	S160217B	S260217
	R	3-7/16	4-3/4	S160218	S160218B	S260218
	S	3-1/2	4-7/8	S160219	S160219B	S260219
	T	3-1/2	4-7/8	S160220	S160220B	S260220
	U	3-5/8	5	S160221	S160221B	S260221
	V	3-5/8	5	S160222	S160222B	S260222
	W	3-3/4	5-1/8	S160223	S160223B	S260223
	X	3-3/4	5-1/8	S160224	S160224B	S260224
	Y	3-7/8	5-1/4	S160225	S160225B	S260225
	Z	3-7/8	5-1/4	S160226	S160226B	S260226

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



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



TiN COATED JOBBER DRILLS

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

JOBBER LENGTH
118° POINT
TITANIUM NITRIDE COATED
GOLD FINISH

Titanium nitride (TiN) coating consists of a very hard surface hardness on the tool, approximately 80 Rockwell C. The hardness and lubricity reduces friction and improves chip flow at higher speeds and feeds, creating a superior hole finish. Ideal for production work or repetitive drilling. Can be used on most ferrous, non-ferrous and non-metallic materials.

TiN Coated Jobber Drills



Inch
Dimensions

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA		ECO PRO	
			STOCK #		STOCK #	
			ENVELOPED	CARDED	ENVELOPED	CARDED
1/16	7/8	1-7/8	J150101TN	J150101TNC	J250101TN	J250101TNC
5/64	1	2	J150102TN	J150102TNC	J250102TN	J250102TNC
3/32	1-1/4	2-1/4	J150103TN	J150103TNC	J250103TN	J250103TNC
7/64	1-1/2	2-5/8	J150104TN	J150104TNC	J250104TN	J250104TNC
1/8	1-5/8	2-3/4	J150105TN	J150105TNC	J250105TN	J250105TNC
9/64	1-3/4	2-7/8	J150106TN	J150106TNC	J250106TN	J250106TNC
5/32	2	3-1/8	J150107TN	J150107TNC	J250107TN	J250107TNC
11/64	2-1/8	3-1/4	J150108TN	J150108TNC	J250108TN	J250108TNC
3/16	2-5/16	3-1/2	J150109TN	J150109TNC	J250109TN	J250109TNC
13/64	2-7/16	3-5/8	J150110TN	J150110TNC	J250110TN	J250110TNC
7/32	2-1/2	3-3/4	J150111TN	J150111TNC	J250111TN	J250111TNC
15/64	2-5/8	3-7/8	J150112TN	J150112TNC	J250112TN	J250112TNC
1/4	2-3/4	4	J150113TN	J150113TNC	J250113TN	J250113TNC
17/64	2-7/8	4-1/8	J150114TN	J150114TNC	J250114TN	J250114TNC
9/32	2-15/16	4-1/4	J150115TN	J150115TNC	J250115TN	J250115TNC
19/64	3-1/16	4-3/8	J150116TN	J150116TNC	J250116TN	J250116TNC
5/16	3-3/16	4-1/2	J150117TN	J150117TNC	J250117TN	J250117TNC
21/64	3-5/16	4-5/8	J150118TN	J150118TNC	J250118TN	J250118TNC
11/32	3-7/16	4-3/4	J150119TN	J150119TNC	J250119TN	J250119TNC
23/64	3-1/2	4-7/8	J150120TN	J150120TNC	J250120TN	J250120TNC
3/8	3-5/8	5	J150121TN	J150121TNC	J250121TN	J250121TNC
25/64	3-3/4	5-1/8	J150122TN	J150122TNC	J250122TN	J250122TNC
13/32	3-7/8	5-1/4	J150123TN	J150123TNC	J250123TN	J250123TNC
27/64	3-15/16	5-3/8	J150124TN	J150124TNC	J250124TN	J250124TNC
7/16	4-1/16	5-1/2	J150125TN	J150125TNC	J250125TN	J250125TNC
29/64	4-3/16	5-5/8	J150126TN	J150126TNC	J250126TN	J250126TNC
15/32	4-5/16	5-3/4	J150127TN	J150127TNC	J250127TN	J250127TNC
31/64	4-3/8	5-7/8	J150128TN	J150128TNC	J250128TN	J250128TNC
1/2	4-1/2	6	J150129TN	J150129TNC	J250129TN	J250129TNC

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

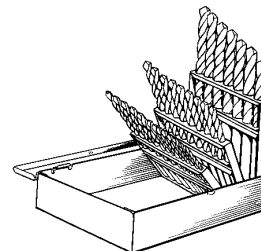
• Card 1/16" to 1/8", 2 drills per card
9/64" to 1/2", 1 per card

Inch
Dimensions

SWG NUMBER SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
1	2-5/8	3-7/8	J160101TN
2	2-5/8	3-7/8	J160102TN
3	2-1/2	3-3/4	J160103TN
4	2-1/2	3-3/4	J160104TN
5	2-1/2	3-3/4	J160105TN
6	2-1/2	3-3/4	J160106TN
7	2-7/16	3-5/8	J160107TN
8	2-7/16	3-5/8	J160108TN
9	2-7/16	3-5/8	J160109TN
10	2-7/16	3-5/8	J160110TN
11	2-5/16	3-1/2	J160111TN
12	2-5/16	3-1/2	J160112TN
13	2-5/16	3-1/2	J160113TN
14	2-3/16	3-3/8	J160114TN
15	2-3/16	3-3/8	J160115TN
16	2-3/16	3-3/8	J160116TN
17	2-3/16	3-3/8	J160117TN
18	2-1/8	3-1/4	J160118TN
19	2-1/8	3-1/4	J160119TN
20	2-1/8	3-1/4	J160120TN
21	2-1/8	3-1/4	J160121TN
22	2	3-1/8	J160122TN
23	2	3-1/8	J160123TN
24	2	3-1/8	J160124TN
25	1-7/8	3	J160125TN
26	1-7/8	3	J160126TN
27	1-7/8	3	J160127TN
28	1-3/4	2-7/8	J160128TN
29	1-3/4	2-7/8	J160129TN
30	1-5/8	2-3/4	J160130TN
31	1-5/8	2-3/4	J160131TN
32	1-5/8	2-3/4	J160132TN
33	1-1/2	2-5/8	J160133TN
34	1-1/2	2-5/8	J160134TN
35	1-1/2	2-5/8	J160135TN
36	1-7/16	2-1/2	J160136TN
37	1-7/16	2-1/2	J160137TN
38	1-7/16	2-1/2	J160138TN
39	1-3/8	2-3/8	J160139TN
40	1-3/8	2-3/8	J160140TN

• 1 to 40, 12 per envelope



118° TiN COATED JOBBER DRILL SETS IN METAL INDEX

SET QTY.	SIZE RANGE	ALFA USA STOCK #	ECO PRO STOCK #
13 Pc.	Fractional Sizes: 1/16" - 1/4" by 64ths	J150194TN	J250194TN
15 Pc.	Fractional Sizes: 1/16" - 1/2" by 32nds	J150193TN	J250193TN
21 Pc.	Fractional Sizes: 1/16" - 3/8" by 64ths	J150192TN	J250192TN
29 Pc.	Fractional Sizes: 1/16" - 1/2" by 64ths	J150190TN	J250190TN
26 Pc.	Letter Sizes: A - Z	J150197TN	-
60 Pc.	SWG # Sizes: #1 - #60	J150191TN	-
115 Pc.	1/16" - 1/2" by 64ths #1 - #60, A - Z	J150199TN	-



TiN COATED JOBBER DRILLS – HEAVY DUTY

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

JOBBER LENGTH
135° SPLIT POINT
TITANIUM NITRIDE COATED
GOLD FINISH

Titanium nitride (TiN) coating consists of a very hard surface hardness on the tool, approximately 80 Rockwell C. The hardness and lubricity reduces friction and improves chip flow at higher speeds and feeds, creating a superior hole finish. Ideal for production work or repetitive drilling. Can be used on most ferrous, non-ferrous and non-metallic materials.



A

TiN Coated Jobber Drills - Heavy Duty

Inch
Dimensions

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #	
			STOCK #	
			ENVELOPED	CARD
1/16	7/8	1-7/8	S150101TN	S150101TNC
5/64	1	2	S150102TN	S150102TNC
3/32	1-1/4	2-1/4	S150103TN	S150103TNC
7/64	1-1/2	2-5/8	S150104TN	S150104TNC
1/8	1-5/8	2-3/4	S150105TN	S150105TNC
9/64	1-3/4	2-7/8	S150106TN	S150106TNC
5/32	2	3-1/8	S150107TN	S150107TNC
11/64	2-1/8	3-1/4	S150108TN	S150108TNC
3/16	2-5/16	3-1/2	S150109TN	S150109TNC
13/64	2-7/16	3-5/8	S150110TN	S150110TNC
7/32	2-1/2	3-3/4	S150111TN	S150111TNC
15/64	2-5/8	3-7/8	S150112TN	S150112TNC
1/4	2-3/4	4	S150113TN	S150113TNC
17/64	2-7/8	4-1/8	S150114TN	S150114TNC
9/32	2-15/16	4-1/4	S150115TN	S150115TNC
19/64	3-1/16	4-3/8	S150116TN	S150116TNC
5/16	3-3/16	4-1/2	S150117TN	S150117TNC
21/64	3-5/16	4-5/8	S150118TN	S150118TNC
11/32	3-7/16	4-3/4	S150119TN	S150119TNC
23/64	3-1/2	4-7/8	S150120TN	S150120TNC
3/8	3-5/8	5	S150121TN	S150121TNC
25/64	3-3/4	5-1/8	S150122TN	S150122TNC
13/32	3-7/8	5-1/4	S150123TN	S150123TNC
27/64	3-15/16	5-3/8	S150124TN	S150124TNC
7/16	4-1/16	5-1/2	S150125TN	S150125TNC
29/64	4-3/16	5-5/8	S150126TN	S150126TNC
15/32	4-5/16	5-3/4	S150127TN	S150127TNC
31/64	4-3/8	5-7/8	S150128TN	S150128TNC
1/2	4-1/2	6	S150129TN	S150129TNC

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

• Card 1/16" to 1/8", 2 drills per card
9/64" to 1/2", 1 per card

Inch
Dimensions

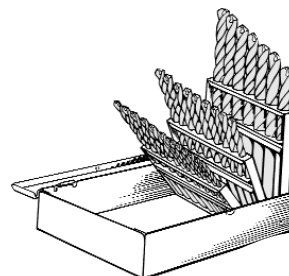
SWG NUMBER SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
			STOCK #
1	2-5/8	3-7/8	S160101TN
2	2-5/8	3-7/8	S160102TN
3	2-1/2	3-3/4	S160103TN
4	2-1/2	3-3/4	S160104TN
5	2-1/2	3-3/4	S160105TN
6	2-1/2	3-3/4	S160106TN
7	2-7/16	3-5/8	S160107TN
8	2-7/16	3-5/8	S160108TN
9	2-7/16	3-5/8	S160109TN
10	2-7/16	3-5/8	S160110TN
11	2-5/16	3-1/2	S160111TN
12	2-5/16	3-1/2	S160112TN
13	2-5/16	3-1/2	S160113TN
14	2-3/16	3-3/8	S160114TN
15	2-3/16	3-3/8	S160115TN
16	2-3/16	3-3/8	S160116TN
17	2-3/16	3-3/8	S160117TN
18	2-1/8	3-1/4	S160118TN
19	2-1/8	3-1/4	S160119TN
20	2-1/8	3-1/4	S160120TN
21	2-1/8	3-1/4	S160121TN
22	2	3-1/8	S160122TN
23	2	3-1/8	S160123TN
24	2	3-1/8	S160124TN
25	1-7/8	3	S160125TN
26	1-7/8	3	S160126TN
27	1-7/8	3	S160127TN
28	1-3/4	2-7/8	S160128TN
29	1-3/4	2-7/8	S160129TN
30	1-5/8	2-3/4	S160130TN
31	1-5/8	2-3/4	S160131TN
32	1-5/8	2-3/4	S160132TN
33	1-1/2	2-5/8	S160133TN
34	1-1/2	2-5/8	S160134TN
35	1-1/2	2-5/8	S160135TN
36	1-7/16	2-1/2	S160136TN
37	1-7/16	2-1/2	S160137TN
38	1-7/16	2-1/2	S160138TN
39	1-3/8	2-3/8	S160139TN
40	1-3/8	2-3/8	S160140TN

• 1 to 40, 12 per envelope

135° SPLIT PT. TiN COATED JOBBER DRILL SETS IN METAL INDEX

SET QTY.	SIZE RANGE	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 Sizes: A - Z	S150197TN
60 Pc.	SWG Number Sizes: #1 - #60	S150191TN
115 Pc.	1/16" - 1/2" by 64ths SWG Number Sizes: #1 - #60	S150199TN



METRIC JOBBER DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

JOBBER LENGTH
118° POINT
BLACK OXIDE FINISH

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.



Sizes 13mm and above have straight shanks.
For 1/2" reduced shank drills, see page A-32.

NEW

Metric Jobber Drills

SIZE MM	STOCK #	
	ALFA USA	ECO PRO
.50	MJ151904	MJ251904
.55	-	MJ251905
.60	MJ151906	MJ251906
.65	-	MJ251907
.70	MJ151908	MJ251908
.75	-	MJ251909
.80	MJ151910	MJ251910
.85	MJ151911	MJ251911
.90	MJ151912	MJ251912
.95	-	MJ251913
1.00	MJ151914	MJ251914
1.05	MJ151915	MJ251915
1.10	MJ151916	MJ251916
1.15	MJ151917	MJ251917
1.20	MJ151918	MJ251918
1.25	MJ151919	MJ251919
1.30	MJ151920	MJ251920
1.35	MJ151921	MJ251921
1.40	MJ151922	MJ251922
1.45	MJ151923	MJ251923
1.50	MJ151924	MJ251924
1.55	MJ151925	MJ251925
1.60	MJ151926	MJ251926
1.65	-	MJ251927
1.70	MJ151928	MJ251928
1.75	MJ151929	MJ251929
1.80	MJ151930	MJ251930
1.85	MJ151931	MJ251931
1.90	MJ151932	MJ251932
1.95	MJ151933	MJ251933
2.00	MJ151934	MJ251934
2.05	-	MJ251935
2.10	MJ151936	MJ251936
2.15	-	MJ251937
2.20	MJ151938	MJ251938
2.25	-	MJ251939
2.30	MJ151940	MJ251940
2.35	-	MJ251941
2.40	MJ151942	MJ251942
2.45	-	MJ251943
2.50	MJ151944	MJ251944
2.55	-	MJ251945
2.60	MJ151946	MJ251946
2.70	MJ151947	MJ251947
2.75	-	MJ251948
2.80	MJ151949	MJ251949
2.90	-	MJ251950
3.00	MJ151951	MJ251951
3.10	-	MJ251952
3.20	MJ151953	MJ251953
3.25	-	MJ251954
3.30	MJ151955	MJ251955

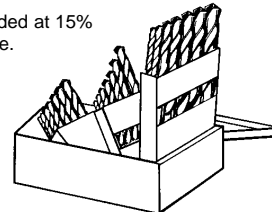
SIZE MM	STOCK #	
	ALFA USA	ECO PRO
3.40	MJ151956	MJ251956
3.50	MJ151957	MJ251957
3.60	MJ151958	MJ251958
3.70	MJ151959	MJ251959
3.75	-	MJ251960
3.80	-	MJ251961
3.90	-	MJ251962
4.00	MJ151963	MJ251963
4.10	MJ151964	MJ251964
4.20	MJ151965	MJ251965
4.25	-	MJ251966
4.30	MJ151967	MJ251967
4.40	-	MJ251968
4.50	MJ151969	MJ251969
4.60	-	MJ251970
4.70	MJ151971	MJ251971
4.75	-	MJ251972
4.80	-	MJ251973
4.90	-	MJ251974
5.00	MJ151975	MJ251975
5.10	MJ151976	MJ251976
5.20	MJ151977	MJ251977
5.25	-	MJ251978
5.30	MJ151979	MJ251979
5.40	-	MJ251980
5.50	MJ151981	MJ251981
5.60	-	MJ251982
5.70	MJ151983	MJ251983
5.75	-	MJ251984
5.80	-	MJ251985
5.90	-	MJ251986
6.00	MJ151987	MJ251987
6.10	-	MJ251988
6.20	-	MJ251989
6.25	-	MJ251990
6.30	MJ151991	MJ251991
6.40	-	MJ251992
6.50	MJ151993	MJ251993
6.60	MJ151994	MJ251994
6.70	MJ151995	MJ251995
6.75	-	MJ251996
6.80	MJ151997	MJ251997
6.90	MJ151998	MJ251998
7.00	MJ151999	MJ251999
7.10	-	MJ252000
7.20	MJ152001	MJ252001
7.25	-	MJ252002
7.30	-	MJ252003
7.40	-	MJ252004
7.50	MJ152005	MJ252005
7.60	-	MJ252006
7.70	-	MJ252007

SIZE MM	STOCK #	
	ALFA USA	ECO PRO
7.75	-	MJ252008
7.80	MJ152009	MJ252009
7.90	-	MJ252010
8.00	MJ152011	MJ252011
8.10	MJ152012	MJ252012
8.20	MJ152013	MJ252013
8.25	-	MJ252014
8.30	MJ152015	MJ252015
8.40	MJ152016	MJ252016
8.50	MJ152017	MJ252017
8.60	-	MJ252018
8.70	MJ152019	MJ252019
8.75	-	MJ252020
8.80	-	MJ252021
8.90	-	MJ252022
9.00	MJ152023	MJ252023
9.10	-	MJ252024
9.20	-	MJ252025
9.25	-	MJ252026
9.30	-	MJ252027
9.40	-	MJ252028
9.50	MJ152029	MJ252029
9.60	-	MJ252030
9.70	-	MJ252031
9.75	-	MJ252032
9.80	-	MJ252033
9.90	MJ152034	MJ252034
10.00	MJ152035	MJ252035
10.50	MJ152036	MJ252036
11.00	MJ152037	MJ252037
11.50	MJ152038	MJ252038
12.00	MJ152039	MJ252039
12.50	MJ152040	MJ252040
13.00	MJ152041	MJ252041

SIZE MM	STOCK #
	ECO PRO
13.10	MJ252042
13.20	MJ252043
13.30	MJ252044
13.40	MJ252045
13.50	MJ252046
13.60	MJ252047
13.70	MJ252048
13.75	MJ252049
13.80	MJ252050
13.90	MJ252051
14.00	MJ252052
14.25	MJ252053
14.50	MJ252054
14.75	MJ252055
15.00	MJ252056
15.25	MJ252057
15.50	MJ252058
15.75	MJ252059
16.00	MJ252060
16.25	MJ252061
16.50	MJ252062
16.75	MJ252063
17.00	MJ252064
17.25	MJ252065
17.50	MJ252066
17.75	MJ252067
18.00	MJ252068
18.25	MJ252069
18.50	MJ252070
18.75	MJ252071
19.00	MJ252072
19.25	MJ252073
19.50	MJ252074
19.75	MJ252075
20.00	MJ252076

• .50 to 8.00, 12 per envelope
8.10 to 13.00, 6 per envelope
• 1 per pack

• Also available carded at 15% more than list price.



METRIC JOBBER DRILL SETS IN METAL INDEX

SET QTY.	SIZE RANGE	STOCK #	
		ALFA USA	ECO PRO
13 Pc.	1.0 mm - 7.0 mm by .5 mm	MJ150194	MJ250194
19 Pc.	1.0 mm - 10.0 mm by .5 mm	MJ150198A	MJ250198A
25 Pc.	1.0 mm - 13.0 mm by .5 mm	MJ150198	MJ250198





BLITZ BIT® METRIC JOBBER DRILLS

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

JOBBER LENGTH

118° POINT

BLACK & GOLD OXIDE FINISH

NEW



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

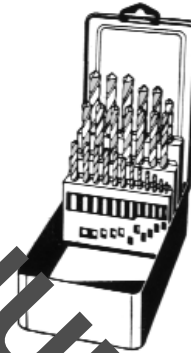
- Made from a premium grade of M-7 molybdenum high speed steel, which has a special black and gold surface treatment to increase hardness and reduce friction.
- The strong web construction provides greater strength and rigidity to drill in hard to drill materials like stainless steel and titanium alloys.

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

METRIC SIZES

SIZE MM	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
1.00	11/16	1-5/8	BBM51914
1.50	7/8	1-7/8	BBM51924
2.00	1	2	BBM51934
2.50	1-3/8	2-3/8	BBM51944
3.00	1-5/8	2-3/4	BBM51951
3.50	1-3/4	2-7/8	BBM51957
4.00	2-1/8	3-1/4	BBM51963
4.50	3-3/16	3-3/8	BBM51969
5.00	2-7/16	3-5/8	BBM51975
5.50	2-1/2	3-3/4	BBM51981
6.00	2-3/4	4	BBM51987
6.50	2-7/8	4-1/8	BBM51993
7.00	2-7/8	4-1/8	BBM51999
7.50	3-1/16	4-3/8	BBM52005
8.00	3-3/16	4-1/2	BBM52011
8.50	3-7/16	4-3/4	BBM52017
9.00	3-1/2	4-7/8	BBM52023
9.50	3-5/8	5	BBM52029
10.00	3-3/4	5-1/8	BBM52035
10.50	3-7/8	5-1/4	BBM52036
11.00	4-1/16	5-1/2	BBM52037
11.50	4-3/16	5-5/8	BBM52038
12.00	4-3/8	5-7/8	BBM52039
12.50	4-1/2	6	BBM52040
13.00	4-1/2	6	BBM52041

• 12 per envelope



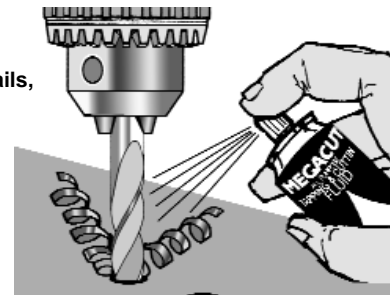
METRIC BLITZ BIT JOBBER DRILL SETS IN METAL INDEX

SET QTY.	SIZE RANGE	ALFA USA STOCK #
13 Pc.	1.0 mm - 7.0 mm by .5 mm	BBM50194
19 Pc.	1.0 mm - 10.0 mm by .5 mm	BBM50198A
25 Pc.	1.0 mm - 13.0 mm by .5 mm	BBM50198



A Spray of MEGACUT CUTTING FLUID Makes Hole Cutting So Smooth & Easy!

For MEGACUT details, See Page J-3.



A

Blitz Bit® Metric Jobber Drills

M-42 COBALT JOBBER DRILLS

HEAVY DUTY • RIGHT HAND SPIRAL • NAS 907, TYPE J STANDARDS

**JOBBER LENGTH
135° SPLIT POINT
STRAW GOLD FINISH**

Manufactured from heat resistant M-42 cobalt 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.

Expanded Offering!



FRACTIONAL SIZES

Inch Dimensions

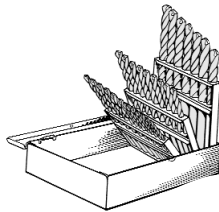
SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
			STOCK #	
			ENVELOPED	CARDED
1/64	3/16	3/4	CO50097	—
1/32	1/2	1-3/8	CO50098	—
3/64	3/4	1-3/4	CO50099	—
1/16	7/8	1-7/8	CO50101	CO50101C
5/64	1	2	CO50102	CO50102C
3/32	1-1/4	2-1/4	CO50103	CO50103C
7/64	1-1/2	2-5/8	CO50104	CO50104C
1/8	1-5/8	2-3/4	CO50105	CO50105C
9/64	1-3/4	2-7/8	CO50106	CO50106C
5/32	2	3-1/8	CO50107	CO50107C
11/64	2-1/8	3-1/4	CO50108	CO50108C
3/16	2-5/16	3-1/2	CO50109	CO50109C
13/64	2-7/16	3-5/8	CO50110	CO50110C
7/32	2-1/2	3-3/4	CO50111	CO50111C
15/64	2-5/8	3-7/8	CO50112	CO50112C
1/4	2-3/4	4	CO50113	CO50113C
17/64	2-7/8	4-1/8	CO50114	CO50114C
9/32	2-15/16	4-1/4	CO50115	CO50115C
19/64	3-1/16	4-3/8	CO50116	CO50116C
5/16	3-3/16	4-1/2	CO50117	CO50117C
21/64	3-5/16	4-5/8	CO50118	CO50118C
11/32	3-7/16	4-3/4	CO50119	CO50119C

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

• Card 1/16" to 1/2", 1 per card

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
			STOCK #	
			ENVELOPED	CARDED
23/64	3-1/2	4-7/8	CO50120	CO50120C
3/8	3-5/8	5	CO50121	CO50121C
25/64	3-3/4	5-1/8	CO50122	CO50122C
13/32	3-7/8	5-1/4	CO50123	CO50123C
27/64	3-15/16	5-3/8	CO50124	CO50124C
7/16	4-1/16	5-1/2	CO50125	CO50125C
29/64	4-3/16	5-5/8	CO50126	CO50126C
15/32	4-5/16	5-3/4	CO50127	CO50127C
31/64	4-3/8	5-7/8	CO50128	CO50128C
1/2	4-1/2	6	CO50129	CO50129C
Jobber Drills over 1/2" diameter have straight cylindrical shanks. For 1/2" Reduced Shank Drills, see Silver & Deming Drills on page A-31.				
33/64	4-13/16	6-5/8	CO50130	—
17/32	4-13/16	6-5/8	CO50131	—
35/64	4-13/16	6-5/8	CO50132	—
9/16	4-13/16	6-5/8	CO50133	—
37/64	4-13/16	6-5/8	CO50134	—
19/32	5-3/16	7-1/8	CO50135	—
39/64	5-3/16	7-1/8	CO50136	—
5/8	5-3/16	7-1/8	CO50137	—
41/64	5-3/16	7-1/8	CO50138	—
21/32	5-3/16	7-1/8	CO50139	—
43/64	5-5/8	7-5/8	CO50140	—
11/16	5-5/8	7-5/8	CO50141	—

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



COBALT JOBBER DRILL SETS IN METAL INDEX

All drills available TiN coated.
Details on request.

SET QTY.	SIZE RANGE	ALFA USA
		STOCK #
13 Pc.	Fractional Sizes 1/16" - 1/4" by 64ths	CO50194
15 Pc.	Fractional Sizes 1/16" - 1/2" by 32nds	CO50193
21 Pc.	Fractional Sizes 1/16" - 3/8" by 64ths	CO50192
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	CO50190
26 Pc.	Letter Sizes A - Z	CO50197

SET QTY.	SIZE RANGE	ALFA USA
		STOCK #
60 Pc.	SWG Number Sizes #1 - #60	CO50191
115 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths Letter Sizes A - Z SWG Number Sizes #1 - #60	CO50199
19 Pc.	Maintenance Set: 1/16, 5/64, 3/32, 1/8, #29, #25, 5/32, #21, 3/16, #7, 7/32, 1/4, "F", 5/16, "U", 3/8, 27/64, 7/16, 1/2	CO19

A

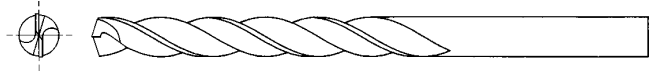
Cobalt Jobber Drills



M-42 COBALT JOBBER DRILLS - Cont.

HEAVY DUTY • RIGHT HAND SPIRAL • NAS 907, TYPE J STANDARDS

JOBBER LENGTH
135° SPLIT POINT
STRAW GOLD FINISH



A

Inch
Dimensions

SWG NUMBER SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #	SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #	SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
1	2-5/8	3-7/8	CO60101	28	1-3/4	2-7/8	CO60128	55	7/8	1-7/8	CO60155
2	2-5/8	3-7/8	CO60102	29	1-3/4	2-7/8	CO60129	56	3/4	1-3/4	CO60156
3	2-1/2	3-3/4	CO60103	30	1-5/8	2-3/4	CO60130	57	3/4	1-3/4	CO60157
4	2-1/2	3-3/4	CO60104	31	1-5/8	2-3/4	CO60131	58	11/16	1-5/8	CO60158
5	2-1/2	3-3/4	CO60105	32	1-5/8	2-3/4	CO60132	59	11/16	1-5/8	CO60159
6	2-1/2	3-3/4	CO60106	33	1-1/2	2-5/8	CO60133	60	11/16	1-5/8	CO60160
7	2-7/16	3-5/8	CO60107	34	1-1/2	2-5/8	CO60134	*61	11/16	1-5/8	CO60161
8	2-7/16	3-5/8	CO60108	35	1-1/2	2-5/8	CO60135	*62	5/8	1-1/2	CO60162
9	2-7/16	3-5/8	CO60109	36	1-7/16	2-1/2	CO60136	*63	5/8	1-1/2	CO60163
10	2-7/16	3-5/8	CO60110	37	1-7/16	2-1/2	CO60137	*64	5/8	1-1/2	CO60164
11	2-5/16	3-1/2	CO60111	38	1-7/16	2-1/2	CO60138	*65	5/8	1-1/2	CO60165
12	2-5/16	3-1/2	CO60112	39	1-3/8	2-3/8	CO60139	*66	1/2	1-3/8	CO60166
13	2-5/16	3-1/2	CO60113	40	1-3/8	2-3/8	CO60140	*67	1/2	1-3/8	CO60167
14	2-3/16	3-3/8	CO60114	41	1-3/8	2-3/8	CO60141	*68	1/2	1-3/8	CO60168
15	2-3/16	3-3/8	CO60115	42	1-1/4	2-1/4	CO60142	*69	1/2	1-3/8	CO60169
16	2-3/16	3-3/8	CO60116	43	1-1/4	2-1/4	CO60143	*70	3/8	1-1/4	CO60170
17	2-3/16	3-3/8	CO60117	44	1-1/8	2-1/8	CO60144	*71	3/8	1-1/4	CO60171
18	2-1/8	3-1/4	CO60118	45	1-1/8	2-1/8	CO60145	*72	5/16	1-1/8	CO60172
19	2-1/8	3-1/4	CO60119	46	1-1/8	2-1/8	CO60146	*73	5/16	1-1/8	CO60173
20	2-1/8	3-1/4	CO60120	47	1	2	CO60147	*74	1/4	1	CO60174
21	2-1/8	3-1/4	CO60121	48	1	2	CO60148	*75	1/4	1	CO60175
22	2	3-1/8	CO60122	49	1	2	CO60149	*76	3/16	7/8	CO60176
23	2	3-1/8	CO60123	50	1	2	CO60150	*77	3/16	7/8	CO60177
24	2	3-1/8	CO60124	51	1	2	CO60151	*78	3/16	7/8	CO60178
25	1-7/8	3	CO60125	52	7/8	1-7/8	CO60152	*79	1/8	3/4	CO60179
26	1-7/8	3	CO60126	53	7/8	1-7/8	CO60153	*80	1/8	3/4	CO60180
27	1-7/8	3	CO60127	54	7/8	1-7/8	CO60154				

• 1 to 80, 12 per envelope

*Not Split Point

Cobalt Jobber Drills

Inch
Dimensions

LETTER SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #	SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
A	2-5/8	3-7/8	CO60201	N	3-1/16	4-3/8	CO60214
B	2-3/4	4	CO60202	O	3-3/16	4-1/2	CO60215
C	2-3/4	4	CO60203	P	3-5/16	4-5/8	CO60216
D	2-3/4	4	CO60204	Q	3-7/16	4-3/4	CO60217
E	2-3/4	4	CO60205	R	3-7/16	4-3/4	CO60218
F	2-7/8	4-1/8	CO60206	S	3-1/2	4-7/8	CO60219
G	2-7/8	4-1/8	CO60207	T	3-1/2	4-7/8	CO60220
H	2-7/8	4-1/8	CO60208	U	3-5/8	5	CO60221
I	2-7/8	4-1/8	CO60209	V	3-5/8	5	CO60222
J	2-7/8	4-1/8	CO60210	W	3-3/4	5-1/8	CO60223
K	2-15/16	4-1/4	CO60211	X	3-3/4	5-1/8	CO60224
L	2-15/16	4-1/4	CO60212	Y	3-7/8	5-1/4	CO60225
M	3-1/16	4-3/8	CO60213	Z	3-7/8	5-1/4	CO60226

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



M-42 COBALT METRIC JOBBER DRILLS

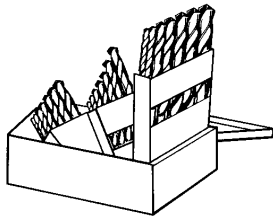
HEAVY DUTY • RIGHT HAND SPIRAL • NAS 907, TYPE J STANDARDS

NEW

ISO LENGTH
135° SPLIT POINT
STRAW GOLD FINISH



Cobalt Metric Jobber Drills
Half Round Drills



**COBALT METRIC
JOBBER DRILL SETS
IN METAL INDEX**

SET QTY.	SIZE RANGE	ALFA USA
		STOCK #
13 Pc.	1.0 mm - 7.0 mm by .5 mm	COM150194
19 Pc.	1.0 mm - 10.0 mm by .5 mm	COM150198A
25 Pc.	1.0 mm - 13.0 mm by .5 mm	COM150198

METRIC SIZES

SIZE MM	FLUTE LENGTH MM	OAL MM	ALFA USA	SIZE MM	FLUTE LENGTH MM	OAL MM	ALFA USA
			STOCK #				STOCK #
1.00	12	34	CO151914	7.00	69	109	CO151926
1.50	18	40	CO151915	7.50	69	109	CO151927
2.00	24	49	CO151916	8.00	75	117	CO151928
2.50	30	57	CO151917	8.50	75	117	CO151929
3.00	33	61	CO151918	9.00	81	125	CO151930
3.50	39	70	CO151919	9.50	81	125	CO151931
4.00	43	75	CO151920	10.00	87	133	CO151932
4.50	47	80	CO151921	10.50	87	133	CO151933
5.00	52	86	CO151922	11.00	94	142	CO151934
5.50	57	93	CO151923	11.50	94	142	CO151935
6.00	57	93	CO151924	12.00	101	151	CO151936
6.50	63	101	CO151925	12.50	101	151	CO151937
				13.00	101	151	CO151938

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

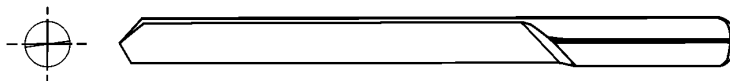
HALF ROUND JOBBER DRILLS

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

JOBBER LENGTH
118° POINT
BRIGHT FINISH

Ideal in horizontal drilling of free machining brass, bronze, nylon, and like materials. Unique flute design permits higher feed rates and improved hole finish. Hole is usually started with a centering drill.

NEW



Inch
Dimensions

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #	SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
1/16	7/8	1-7/8	HR50101	19/64	3-1/16	4-3/8	HR50116
5/64	1	2	HR50102	5/16	3-3/16	4-1/2	HR50117
3/32	1-1/4	2-1/4	HR50103	21/64	3-5/16	4-5/8	HR50118
7/64	1-1/2	2-5/8	HR50104	11/32	3-7/16	4-3/4	HR50119
1/8	1-5/8	2-3/4	HR50105	23/64	3-1/2	4-7/8	HR50120
9/64	1-3/4	2-7/8	HR50106	3/8	3-5/8	5	HR50121
5/32	2	3-1/8	HR50107	25/64	3-3/4	5-1/8	HR50122
11/64	2-1/8	3-1/4	HR50108	13/32	3-7/8	5-1/4	HR50123
3/16	2-5/16	3-1/2	HR50109	27/64	3-15/16	5-3/8	HR50124
13/64	2-7/16	3-5/8	HR50110	7/16	4-1/16	5-1/2	HR50125
7/32	2-1/2	3-3/4	HR50111	29/64	4-3/16	5-5/8	HR50126
15/64	2-5/8	3-7/8	HR50112	15/32	4-5/16	5-3/4	HR50127
1/4	2-3/4	4	HR50113	31/64	4-3/8	5-7/8	HR50128
17/64	2-7/8	4-1/8	HR50114	1/2	4-1/2	6	HR50129
9/32	2-15/16	4-1/4	HR50115				

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





Pilot-Point® JOBBER DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

JOBBER LENGTH
PILOT-POINT®
PARABOLIC FLUTE
3 FLATS ON SHANK
STRAW GOLD FINISH

- 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.



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

Inch
Dimensions

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
			ENVELOPED	CARDED
1/8	1-5/8	2-3/4	JD50105BD	JD50105BDC
9/64	1-3/4	2-7/8	JD50106BD	JD50106BDC
5/32	2	3-1/8	JD50107BD	JD50107BDC
11/64	2-1/8	3-1/4	JD50108BD	JD50108BDC
3/16	2-5/16	3-1/2	JD50109BD	JD50109BDC
13/64	2-7/16	3-5/8	JD50110BD	JD50110BDC
7/32	2-1/2	3-3/4	JD50111BD	JD50111BDC
15/64	2-5/8	3-7/8	JD50112BD	JD50112BDC
1/4	2-3/4	4	JD50113BD	JD50113BDC
17/64	2-7/8	4-1/8	JD50114BD	JD50114BDC
9/32	2-15/16	4-1/4	JD50115BD	JD50115BDC
19/64	3-1/16	4-3/8	JD50116BD	JD50116BDC
5/16	3-3/16	4-1/2	JD50117BD	JD50117BDC
21/64	3-5/16	4-5/8	JD50118BD	JD50118BDC
11/32	3-7/16	4-3/4	JD50119BD	JD50119BDC
23/64	3-1/2	4-7/8	JD50120BD	JD50120BDC
3/8	3-5/8	5	JD50121BD	JD50121BDC

• Bulk 1/8" to 5/16", 12 per envelope
21/64" to 3/8", 6 per envelope

• Card, 1 per card

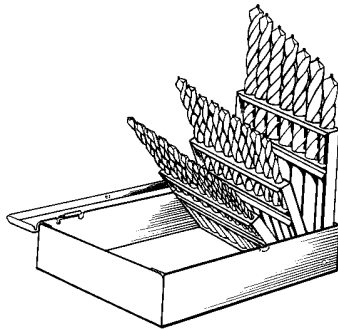
Inch
Dimensions

3/8" REDUCED SHANK

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
			ENVELOPED	CARDED
25/64	3-3/4	5-1/8	RS51851BD	RS51851BDC
13/32	3-7/8	5-1/4	RS51853BD	RS51853BDC
27/64	3-15/16	5-3/8	RS51855BD	RS51855BDC
7/16	4-1/16	5-1/2	RS51857BD	RS51857BDC
29/64	4-3/16	5-5/8	RS51859BD	RS51859BDC
15/32	4-5/16	5-3/4	RS51861BD	RS51861BDC
31/64	4-3/8	5-7/8	RS51863BD	RS51863BDC
1/2	4-1/2	6	RS51865BD	RS51865BDC

• Bulk 25/64" to 1/2", 6 per envelope

• Card, 1 per card



BULLET PILOT POINT® DRILL SETS IN METAL INDEX

SET QTY.	SIZE RANGE	STOCK #
13 Pc.	Straight Shank 1/16" - 1/4" by 64ths	JD50194BD
21 Pc.	Straight Shank 1/16" - 3/8" by 64ths	JD50192BD
15 Pc.	3/8" Shank 1/16" - 1/2" by 32nds	RS50193BD
29 Pc.	3/8" Shank 1/16" - 1/2" by 64ths	RS50186BD

*Drills 1/16" to 7/64ths are
135° Split Pt., Bright Finish.



A

Bullet Pilot-Point® Jobber Drills

LEFT HAND JOBBER DRILLS

M-7 SUPER HIGH SPEED STEEL • LEFT HAND SPIRAL

JOBBER LENGTH
118° POINT
BRIGHT FINISH

Designed for use in left hand rotation. Features a left hand helix for screw machine applications where spindles rotate counter-clockwise. General purpose drill construction.



Left Hand Jobber Drills

FRACTIONAL SIZES

Inch Dimensions

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/16	7/8	1-7/8	JDL50101
5/64	1	2	JDL50102
3/32	1-1/4	2-1/4	JDL50103
7/64	1-1/2	2-5/8	JDL50104
1/8	1-5/8	2-3/4	JDL50105
9/64	1-3/4	2-7/8	JDL50106
5/32	2	3-1/8	JDL50107
11/64	2-1/8	3-1/4	JDL50108
3/16	2-5/16	3-1/2	JDL50109
13/64	2-7/16	3-5/8	JDL50110
7/32	2-1/2	3-3/4	JDL50111
15/64	2-5/8	3-7/8	JDL50112
1/4	2-3/4	4	JDL50113
17/64	2-7/8	4-1/8	JDL50114
9/32	2-15/16	4-1/4	JDL50115
19/64	3-1/16	4-3/8	JDL50116
5/16	3-3/16	4-1/2	JDL50117
21/64	3-5/16	4-5/8	JDL50118
11/32	3-7/16	4-3/4	JDL50119
23/64	3-1/2	4-7/8	JDL50120
3/8	3-5/8	5	JDL50121
25/64	3-3/4	5-1/8	JDL50122
13/32	3-7/8	5-1/4	JDL50123
27/64	3-15/16	5-3/8	JDL50124
7/16	4-1/16	5-1/2	JDL50125
29/64	4-3/16	5-5/8	JDL50126
15/32	4-5/16	5-3/4	JDL50127
31/64	4-3/8	5-7/8	JDL50128
1/2	4-1/2	6	JDL50129

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

Inch Dimensions

SWG NUMBER SIZES

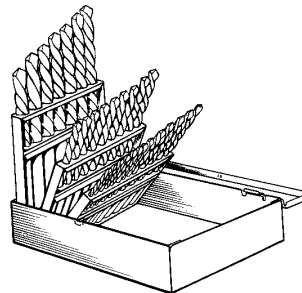
SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1	2-5/8	3-7/8	JDL60101
2	2-5/8	3-7/8	JDL60102
3	2-1/2	3-3/4	JDL60103
4	2-1/2	3-3/4	JDL60104
5	2-1/2	3-3/4	JDL60105
6	2-1/2	3-3/4	JDL60106
7	2-7/16	3-5/8	JDL60107
8	2-7/16	3-5/8	JDL60108
9	2-7/16	3-5/8	JDL60109
10	2-7/16	3-5/8	JDL60110
11	2-5/16	3-1/2	JDL60111
12	2-5/16	3-1/2	JDL60112
13	2-5/16	3-1/2	JDL60113
14	2-3/16	3-3/8	JDL60114
15	2-3/16	3-3/8	JDL60115
16	2-3/16	3-3/8	JDL60116
17	2-3/16	3-3/8	JDL60117
18	2-1/8	3-1/4	JDL60118
19	2-1/8	3-1/4	JDL60119
20	2-1/8	3-1/4	JDL60120
21	2-1/8	3-1/4	JDL60121
22	2	3-1/8	JDL60122
23	2	3-1/8	JDL60123
24	2	3-1/8	JDL60124
25	1-7/8	3	JDL60125
26	1-7/8	3	JDL60126
27	1-7/8	3	JDL60127
28	1-3/4	2-7/8	JDL60128
29	1-3/4	2-7/8	JDL60129
30	1-5/8	2-3/4	JDL60130
31	1-5/8	2-3/4	JDL60131
32	1-5/8	2-3/4	JDL60132
33	1-1/2	2-5/8	JDL60133
34	1-1/2	2-5/8	JDL60134
35	1-1/2	2-5/8	JDL60135
36	1-7/16	2-1/2	JDL60136
37	1-7/16	2-1/2	JDL60137
38	1-7/16	2-1/2	JDL60138
39	1-3/8	2-3/8	JDL60139
40	1-3/8	2-3/8	JDL60140

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
41	1-3/8	2-3/8	JDL60141
42	1-1/4	2-1/4	JDL60142
43	1-1/4	2-1/4	JDL60143
44	1-1/8	2-1/8	JDL60144
45	1-1/8	2-1/8	JDL60145
46	1-1/8	2-1/8	JDL60146
47	1	2	JDL60147
48	1	2	JDL60148
49	1	2	JDL60149
50	1	2	JDL60150
51	1	2	JDL60151
52	7/8	1-7/8	JDL60152
53	7/8	1-7/8	JDL60153
54	7/8	1-7/8	JDL60154
55	7/8	1-7/8	JDL60155
56	3/4	1-3/4	JDL60156
57	3/4	1-3/4	JDL60157
58	11/16	1-5/8	JDL60158
59	11/16	1-5/8	JDL60159
60	11/16	1-5/8	JDL60160
61	11/16	1-5/8	JDL60161
62	5/8	1-1/2	JDL60162
63	5/8	1-1/2	JDL60163
64	5/8	1-1/2	JDL60164
65	5/8	1-1/2	JDL60165
66	1/2	1-3/8	JDL60166
67	1/2	1-3/8	JDL60167
68	1/2	1-3/8	JDL60168
69	1/2	1-3/8	JDL60169
70	3/8	1-1/4	JDL60170
71	3/8	1-1/4	JDL60171
72	5/16	1-1/8	JDL60172
73	5/16	1-1/8	JDL60173
74	1/4	1	JDL60174
75	1/4	1	JDL60175
76	3/16	7/8	JDL60176
77	3/16	7/8	JDL60177
78	3/16	7/8	JDL60178
79	1/8	3/4	JDL60179
80	1/8	3/4	JDL60180

• 1 to 80, 12 per envelope

LEFT HAND DRILL SETS IN METAL INDEX

SET QTY.	SIZE RANGE	STOCK #
13 Pc.	Fractional Sizes 1/16" - 1/4" by 64ths	JDL50194
15 Pc.	Fractional Sizes 1/16" - 1/2" by 32nds	JDL50193
21 Pc.	Fractional Sizes 1/16" - 3/8" by 64ths	JDL50192
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	JDL50190
60 Pc.	#1 - #60	JDL50191

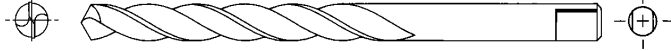


AUTOMOTIVE TANGED JOBBER DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

AUTOMOTIVE SERIES
TANGED SHANK, 118° POINT
BLACK OXIDE FINISH

Automotive jobber length drills are general purpose drills conforming to automotive industry standards. They are furnished with tanged shanks for use with positive drive, split-sleeve drivers. Designed for drilling in broad range of materials such as steel plate, sheet and forgings, as well as cast iron.



Sizes above 1/2" have straight shanks.

Inch
Dimensions

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/8	1-5/8	2-3/4	JT50105
9/64	1-3/4	2-7/8	JT50106
5/32	2	3-1/8	JT50107
11/64	2-1/8	3-1/4	JT50108
3/16	2-5/16	3-1/2	JT50109
13/64	2-7/16	3-5/8	JT50110
7/32	2-1/2	3-3/4	JT50111
15/64	2-5/8	3-7/8	JT50112
1/4	2-3/4	4	JT50113
17/64	2-7/8	4-1/8	JT50114
9/32	2-15/16	4-1/4	JT50115
19/64	3-1/16	4-3/8	JT50116
5/16	3-3/16	4-1/2	JT50117

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
21/64	3-5/16	4-5/8	JT50118
11/32	3-7/16	4-3/4	JT50119
23/64	3-1/2	4-7/8	JT50120
3/8	3-5/8	5	JT50121
25/64	3-3/4	5-1/8	JT50122
13/32	3-7/8	5-1/4	JT50123
27/64	3-15/16	5-3/8	JT50124
7/16	4-1/16	5-1/2	JT50125
29/64	4-3/16	5-5/8	JT50126
15/32	4-5/16	5-3/4	JT50127
31/64	4-3/8	5-7/8	JT50128
1/2	4-1/2	6	JT50129
33/64	4-13/16	6-5/8	JT50130

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
17/32	4-13/16	6-5/8	JT50131
35/64	4-13/16	6-5/8	JT50132
9/16	4-13/16	6-5/8	JT50133
37/64	4-13/16	6-5/8	JT50134
19/32	5-3/16	7-1/8	JT50135
39/64	5-3/16	7-1/8	JT50136
5/8	5-3/16	7-1/8	JT50137
41/64	5-3/16	7-1/8	JT50138
21/32	5-3/16	7-1/8	JT50139
43/64	5-5/8	7-5/8	JT50140
11/16	5-5/8	7-5/8	JT50141

- 1/8" to 5/16", 12 per envelope
- 21/64" to 1/2", 6 per envelope
- 33/64" to 11/16", 1 per tube

Inch
Dimensions

SWG NUMBER SIZES

Expanded
Offering!

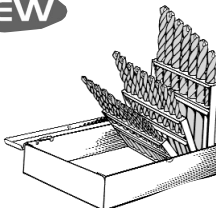
SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1	2-5/8	3-7/8	JT60101
2	2-5/8	3-7/8	JT60102
3	2-1/2	3-3/4	JT60103
4	2-1/2	3-3/4	JT60104
5	2-1/2	3-3/4	JT60105
6	2-1/2	3-3/4	JT60106
7	2-7/16	3-5/8	JT60107
8	2-7/16	3-5/8	JT60108
9	2-7/16	3-5/8	JT60109
10	2-7/16	3-5/8	JT60110
11	2-5/16	3-1/2	JT60111
12	2-5/16	3-1/2	JT60112

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
13	2-5/16	3-1/2	JT60113
14	2-3/16	3-3/8	JT60114
15	2-3/16	3-3/8	JT60115
16	2-3/16	3-3/8	JT60116
17	2-3/16	3-3/8	JT60117
18	2-1/8	3-1/4	JT60118
19	2-1/8	3-1/4	JT60119
20	2-1/8	3-1/4	JT60120
21	2-1/8	3-1/4	JT60121
22	2	3-1/8	JT60122
23	2	3-1/8	JT60123
24	2	3-1/8	JT60124

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
25	1-7/8	3	JT60125
26	1-7/8	3	JT60126
27	1-7/8	3	JT60127
28	1-3/4	2-7/8	JT60128
29	1-3/4	2-7/8	JT60129
30	1-5/8	2-3/4	JT60130
32	1-5/8	2-3/4	JT60132
37	1-7/16	2-1/2	JT60137
43	1-1/4	2-1/4	JT60143
46	1-1/8	2-1/8	JT60146
48	1	2	JT60148
50	1	2	JT60150

- 12 per envelope

NEW



**AUTOMOTIVE TANGED SHANK
DRILL SET
IN METAL INDEX**

SET QTY.	SIZE RANGE	STOCK #
25 Pc.	Fractional Sizes 1/8" - 1/2" by 64ths	JT50190

Inch
Dimensions

LETTER SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
A	2-5/8	3-7/8	JT60201
B	2-3/4	4	JT60202
C	2-3/4	4	JT60203
D	2-3/4	4	JT60204
E	2-3/4	4	JT60205
F	2-7/8	4-1/8	JT60206
G	2-7/8	4-1/8	JT60207
H	2-7/8	4-1/8	JT60208
I	2-7/8	4-1/8	JT60209
J	2-7/8	4-1/8	JT60210
K	2-15/16	4-1/4	JT60211
L	2-15/16	4-1/4	JT60212
M	3-1/16	4-3/8	JT60213

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
N	3-1/16	4-3/8	JT60214
O	3-3/16	4-1/2	JT60215
P	3-5/16	4-5/8	JT60216
Q	3-7/16	4-3/4	JT60217
R	3-7/16	4-3/4	JT60218
S	3-1/2	4-7/8	JT60219
T	3-1/2	4-7/8	JT60220
U	3-5/8	5	JT60221
V	3-5/8	5	JT60222
W	3-3/4	5-1/8	JT60223
X	3-3/4	5-1/8	JT60224
Y	3-7/8	5-1/4	JT60225
Z	3-7/8	5-1/4	JT60226

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



A

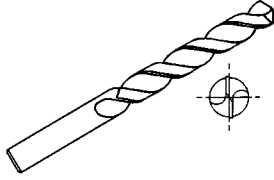
Tanged Jobber Drills

JOBBER DRILLS - FAST, SLOW & PARABOLIC

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

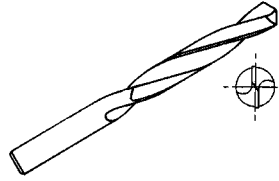
A

Jobber Drills - Fast, Slow & Parabolic



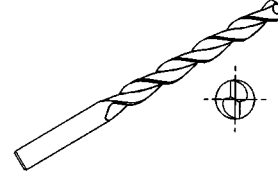
FAST HELIX
118° POINT
BRIGHT FINISH

The high helix angle and wide flute promotes better chip ejection. Ideal for low tensile materials such as aluminum, magnesium, zinc and soft metals.



SLOW HELIX
118° POINT
BRIGHT FINISH

Engineered with slow helix angle and wide flute to reduce grabbing on entrance. Ideal for brass, bronze, gun metal, hard rubber, hard plastics and shallow holes in aluminum.



PARABOLIC FLUTE
135° SPLIT POINT
BRIGHT FINISH

The wide land parabolic design is specially effective in deep hole drilling; unique flute form produces closer tolerances due to improved chip and coolant flow. 135° self centering split point reduces thrust.

FRACTIONAL SIZES

Inch Dimensions

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/16	7/8	1-7/8	JDF50101
5/64	1	2	JDF50102
3/32	1-1/4	2-1/4	JDF50103
7/64	1-1/2	2-5/8	JDF50104
1/8	1-5/8	2-3/4	JDF50105
9/64	1-3/4	2-7/8	JDF50106
5/32	2	3-1/8	JDF50107
11/64	2-1/8	3-1/4	JDF50108
3/16	2-5/16	3-1/2	JDF50109
13/64	2-7/16	3-5/8	JDF50110
7/32	2-1/2	3-3/4	JDF50111
15/64	2-5/8	3-7/8	JDF50112
1/4	2-3/4	4	JDF50113
17/64	2-7/8	4-1/8	JDF50114
9/32	2-15/16	4-1/4	JDF50115
19/64	3-1/16	4-3/8	JDF50116
5/16	3-3/16	4-1/2	JDF50117
21/64	3-5/16	4-5/8	JDF50118
11/32	3-7/16	4-3/4	JDF50119
23/64	3-1/2	4-7/8	JDF50120
3/8	3-5/8	5	JDF50121
25/64	3-3/4	5-1/8	JDF50122
13/32	3-7/8	5-1/4	JDF50123
27/64	3-15/16	5-3/8	JDF50124
7/16	4-1/16	5-1/2	JDF50125
29/64	4-3/16	5-5/8	JDF50126
15/32	4-5/16	5-3/4	JDF50127
31/64	4-3/8	5-7/8	JDF50128
1/2	4-1/2	6	JDF50129

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

• SWG Number and Letter sizes available.
Please inquire.

FRACTIONAL SIZES

Inch Dimensions

SIZE	STOCK #
1/16	JDS50101
5/64	JDS50102
3/32	JDS50103
7/64	JDS50104
1/8	JDS50105
9/64	JDS50106
5/32	JDS50107
11/64	JDS50108
3/16	JDS50109
13/64	JDS50110
7/32	JDS50111
15/64	JDS50112
1/4	JDS50113
17/64	JDS50114
9/32	JDS50115
19/64	JDS50116
5/16	JDS50117
21/64	JDS50118
11/32	JDS50119
23/64	JDS50120
3/8	JDS50121
25/64	JDS50122
13/32	JDS50123
27/64	JDS50124
7/16	JDS50125
29/64	JDS50126
15/32	JDS50127
31/64	JDS50128
1/2	JDS50129

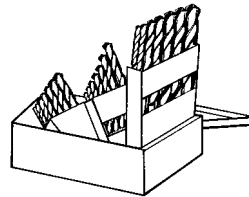
• 1/16" to 5/16", 12 per envelope
21/64" to 1/2", 6 per envelope

FRACTIONAL SIZES

Inch Dimensions

SIZE	STOCK #
1/16	JDP50101
5/64	JDP50102
3/32	JDP50103
7/64	JDP50104
1/8	JDP50105
9/64	JDP50106
5/32	JDP50107
11/64	JDP50108
3/16	JDP50109
13/64	JDP50110
7/32	JDP50111
15/64	JDP50112
1/4	JDP50113
17/64	JDP50114
9/32	JDP50115
19/64	JDP50116
5/16	JDP50117
21/64	JDP50118
11/32	JDP50119
23/64	JDP50120
3/8	JDP50121
25/64	JDP50122
13/32	JDP50123
27/64	JDP50124
7/16	JDP50125
29/64	JDP50126
15/32	JDP50127
31/64	JDP50128
1/2	JDP50129

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



FAST HELIX DRILL SET IN METAL INDEX

SET QTY.	SIZE RANGE	STOCK #
29 Pc.	1/16" - 1/2" by 64ths	JDF50190

SLOW HELIX DRILL SET IN METAL INDEX

SET QTY.	SIZE RANGE	STOCK #
29 Pc.	1/16" - 1/2" by 64ths	JDS50190

PARABOLIC FLUTE DRILL SET IN METAL INDEX

SET QTY.	SIZE RANGE	STOCK #
29 Pc.	1/16" - 1/2" by 64ths	JDP50190

DRILL BLANKS – JOBBER LENGTH

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"



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

A

Drill Blanks

FRACTIONAL SIZES

SIZE	STOCK #
1/16	DB50101
5/64	DB50102
3/32	DB50103
7/64	DB50104
1/8	DB50105
9/64	DB50106
5/32	DB50107
11/64	DB50108
3/16	DB50109
13/64	DB50110
7/32	DB50111
15/64	DB50112
1/4	DB50113
17/64	DB50114
9/32	DB50115
19/64	DB50116
5/16	DB50117
21/64	DB50118
11/32	DB50119
23/64	DB50120
3/8	DB50121
25/64	DB50122
13/32	DB50123
27/64	DB50124
7/16	DB50125
29/64	DB50126
15/32	DB50127
31/64	DB50128
1/2	DB50129
9/16	DB50133
5/8	DB50137
11/16	DB50141
3/4	DB50145
13/16	DB50149
7/8	DB50153
15/16	DB50157
1	DB50161

• 1/16" to 5/16", 12 per envelope
 21/64" to 1/2", 6 per envelope
 9/16" to 1", 1 per tube

SWG NUMBER SIZES

SIZE	STOCK #
1	DB60101
2	DB60102
3	DB60103
4	DB60104
5	DB60105
6	DB60106
7	DB60107
8	DB60108
9	DB60109
10	DB60110
11	DB60111
12	DB60112
13	DB60113
14	DB60114
15	DB60115
16	DB60116
17	DB60117
18	DB60118
19	DB60119
20	DB60120
21	DB60121
22	DB60122
23	DB60123
24	DB60124
25	DB60125
26	DB60126
27	DB60127
28	DB60128
29	DB60129
30	DB60130
31	DB60131
32	DB60132
33	DB60133
34	DB60134
35	DB60135
36	DB60136
37	DB60137
38	DB60138
39	DB60139
40	DB60140

• 1 to 80, 12 per envelope

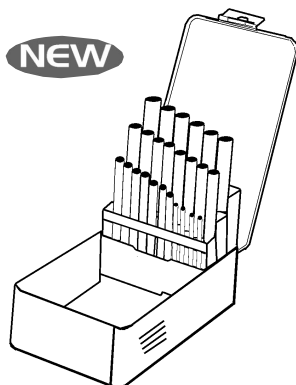
Expanded Offering!

LETTER SIZES

SIZE	STOCK #
A	DB60201
B	DB60202
C	DB60203
D	DB60204
E	DB60205
F	DB60206
G	DB60207
H	DB60208
I	DB60209
J	DB60210
K	DB60211
L	DB60212
M	DB60213
N	DB60214
O	DB60215
P	DB60216
Q	DB60217
R	DB60218
S	DB60219
T	DB60220
U	DB60221
V	DB60222
W	DB60223
X	DB60224
Y	DB60225
Z	DB60226

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

DRILL BLANKS SETS IN METAL INDEX



SET QTY.	SIZE RANGE	STOCK #
13 Pc.	Fractional Sizes 1/16" - 1/4" by 64ths	DB50194
15 Pc.	Fractional Sizes 1/16" - 1/2" by 32nds	DB50193
21 Pc.	Fractional Sizes 1/16" - 3/8" by 64ths	DB50192
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	DB50190
26 Pc.	Letter Sizes A - Z	DB50197
60 Pc.	SWG Number Sizes #1 - #60	DB50191



CARBIDE TIPPED JOBBER DRILLS

HIGH SPEED STEEL BODY • RIGHT HAND SPIRAL

HEAVY DUTY
JOBBER LENGTH
118° POINT
BRIGHT FINISH

Carbide resists abrasion and retains hardness and edge sharpness at very high temperatures. Designed for production drilling of abrasive materials such as aluminum casting, bronze, fiberglass, hard plastics, and other non-ferrous materials. **Not recommended for soft steels.**



Carbide Tipped Jobber Drills

Inch
Dimensions

FRACTIONAL

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/8	1-5/8	2-3/4	T50105
9/64	1-3/4	2-7/8	T50106
5/32	2	3-1/8	T50107
11/64	2-1/8	3-1/4	T50108
3/16	2-5/16	3-1/2	T50109
13/64	2-7/16	3-5/8	T50110
7/32	2-1/2	3-3/4	T50111
15/64	2-5/8	3-7/8	T50112
1/4	2-3/4	4	T50113
17/64	2-7/8	4-1/8	T50114
9/32	2-15/16	4-1/4	T50115
19/64	3-1/16	4-3/8	T50116
5/16	3-3/16	4-1/2	T50117
21/64	3-5/16	4-5/8	T50118
11/32	3-7/16	4-3/4	T50119
23/64	3-1/2	4-7/8	T50120
3/8	3-5/8	5	T50121
25/64	3-3/4	5-1/8	T50122
13/32	3-7/8	5-1/4	T50123
27/64	3-15/16	5-3/8	T50124
7/16	4-1/16	5-1/2	T50125
29/64	4-3/16	5-5/8	T50126
15/32	4-5/16	5-3/4	T50127
31/64	4-3/8	5-7/8	T50128
1/2	4-1/2	6	T50129

• 1 per tube

Inch
Dimensions

SWG NUMBER

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1	2-5/8	3-7/8	T60101
2	2-5/8	3-7/8	T60102
3	2-1/2	3-3/4	T60103
4	2-1/2	3-3/4	T60104
5	2-1/2	3-3/4	T60105
6	2-1/2	3-3/4	T60106
7	2-7/16	3-5/8	T60107
8	2-7/16	3-5/8	T60108
9	2-7/16	3-5/8	T60109
10	2-7/16	3-5/8	T60110
11	2-5/16	3-1/2	T60111
12	2-5/16	3-1/2	T60112
13	2-5/16	3-1/2	T60113
14	2-3/16	3-3/8	T60114
15	2-3/16	3-3/8	T60115
16	2-3/16	3-3/8	T60116
17	2-3/16	3-3/8	T60117
18	2-1/8	3-1/4	T60118
19	2-1/8	3-1/4	T60119
20	2-1/8	3-1/4	T60120
21	2-1/8	3-1/4	T60121
22	2	3-1/8	T60122
23	2	3-1/8	T60123
24	2	3-1/8	T60124
25	1-7/8	3	T60125
26	1-7/8	3	T60126
27	1-7/8	3	T60127
28	1-3/4	2-7/8	T60128
29	1-3/4	2-7/8	T60129
30	1-5/8	2-3/4	T60130
31	1-5/8	2-3/4	T60131
32	1-5/8	2-3/4	T60132

• 1 per tube

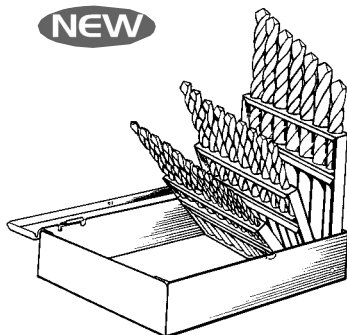
Inch
Dimensions

LETTER

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
A	2-5/8	3-7/8	T60201
B	2-3/4	4	T60202
C	2-3/4	4	T60203
D	2-3/4	4	T60204
E	2-3/4	4	T60205
F	2-7/8	4-1/8	T60206
G	2-7/8	4-1/8	T60207
H	2-7/8	4-1/8	T60208
I	2-7/8	4-1/8	T60209
J	2-7/8	4-1/8	T60210
K	2-15/16	4-1/4	T60211
L	2-15/16	4-1/4	T60212
M	3-1/16	4-3/8	T60213
N	3-1/16	4-3/8	T60214
O	3-3/16	4-1/2	T60215
P	3-5/16	4-5/8	T60216
Q	3-7/16	4-3/4	T60217
R	3-7/16	4-3/4	T60218
S	3-1/2	4-7/8	T60219
T	3-1/2	4-7/8	T60220
U	3-5/8	5	T60221
V	3-5/8	5	T60222
W	3-3/4	5-1/8	T60223
X	3-3/4	5-1/8	T60224
Y	3-7/8	5-1/4	T60225
Z	3-7/8	5-1/4	T60226

• 1 per tube

CARBIDE TIPPED DRILL SETS IN METAL INDEX



SET QTY.	SIZE RANGE	STOCK #
9 Pc.	Fractional Sizes 1/8" - 1/4" by 64ths	T50194
13 Pc.	Fractional Sizes 1/8" - 1/2" by 32nds	T50193
25 Pc.	Fractional Sizes 1/8" - 1/2" by 64ths	T50190
26 Pc.	Letter Sizes A - Z	T50197



SOLID CARBIDE TWIST DRILLS

RIGHT HAND SPIRAL

HEAVY DUTY
118° DRILL POINT
BRIGHT FINISH

Heavy duty solid carbide construction offers the advantages of greater rigidity and closer tolerance in difficult to machine materials. They are particularly recommended for use under high drilling temperatures and where the drill must withstand continuous abrasion. Great for materials such as cast iron, aluminum casting, bronze, hard plastics, and other abrasive and easily machined materials.

A

Solid Carbide Twist Drills



Inch
Dimensions

FRACTIONAL

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/16	3/4	1-1/2	ST50101
5/64	7/8	1-3/4	ST50102
3/32	1	2	ST50103
7/64	1-1/4	2-1/4	ST50104
1/8	1-1/4	2-1/4	ST50105
9/64	1-3/8	2-1/2	ST50106
5/32	1-3/8	2-1/2	ST50107
11/64	1-5/8	2-3/4	ST50108
3/16	1-5/8	2-3/4	ST50109
13/64	1-3/4	3	ST50110
7/32	1-3/4	3	ST50111
15/64	2	3-1/4	ST50112
1/4	2	3-1/4	ST50113
17/64	2-1/8	3-1/2	ST50114
9/32	2-1/8	3-1/2	ST50115
19/64	2-3/8	3-3/4	ST50116
5/16	2-3/8	3-3/4	ST50117
21/64	2-1/2	4	ST50118
11/32	2-1/2	4	ST50119
23/64	2-3/4	4-1/4	ST50120
3/8	2-3/4	4-1/4	ST50121
25/64	2-7/8	4-1/2	ST50122
13/32	2-7/8	4-1/2	ST50123
27/64	2-7/8	4-1/2	ST50124
7/16	2-7/8	4-1/2	ST50125
29/64	3	4-3/4	ST50126
15/32	3	4-3/4	ST50127
31/64	3	4-3/4	ST50128
1/2	3	4-3/4	ST50129

• 1 per tube

Inch
Dimensions

SWG NUMBER

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1	1-3/4	3	ST60101
2	1-3/4	3	ST60102
3	1-3/4	3	ST60103
4	1-3/4	3	ST60104
5	1-3/4	3	ST60105
6	1-3/4	3	ST60106
7	1-3/4	3	ST60107
8	1-3/4	3	ST60108
9	1-3/4	3	ST60109
10	1-5/8	2-3/4	ST60110
11	1-5/8	2-3/4	ST60111
12	1-5/8	2-3/4	ST60112
13	1-5/8	2-3/4	ST60113
14	1-5/8	2-3/4	ST60114
15	1-5/8	2-3/4	ST60115
16	1-5/8	2-3/4	ST60116
17	1-5/8	2-3/4	ST60117
18	1-5/8	2-3/4	ST60118
19	1-5/8	2-3/4	ST60119
20	1-3/8	2-1/2	ST60120
21	1-3/8	2-1/2	ST60121
22	1-3/8	2-1/2	ST60122
23	1-3/8	2-1/2	ST60123
24	1-3/8	2-1/2	ST60124
25	1-3/8	2-1/2	ST60125
26	1-3/8	2-1/2	ST60126
27	1-3/8	2-1/2	ST60127
28	1-3/8	2-1/2	ST60128
29	1-3/8	2-1/2	ST60129
30	1-1/4	2-1/4	ST60130
31	1-1/4	2-1/4	ST60131
32	1-1/4	2-1/4	ST60132

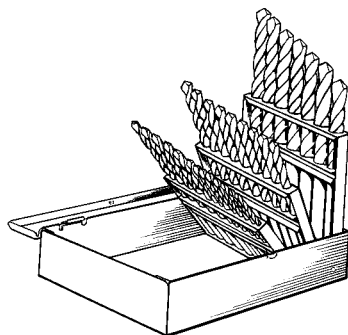
• 1 per tube

Inch
Dimensions

LETTER

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
A	2	3-1/4	ST60201
B	2	3-1/4	ST60202
C	2	3-1/4	ST60203
D	2	3-1/4	ST60204
E	2	3-1/4	ST60205
F	2	3-1/4	ST60206
G	2-1/8	3-1/2	ST60207
H	2-1/8	3-1/2	ST60208
I	2-1/8	3-1/2	ST60209
J	2-1/8	3-1/2	ST60210
K	2-1/8	3-1/2	ST60211
L	2-1/8	3-1/2	ST60212
M	2-3/8	3-3/4	ST60213
N	2-3/8	3-3/4	ST60214
O	2-3/8	3-3/4	ST60215
P	2-3/8	3-3/4	ST60216
Q	2-1/2	4	ST60217
R	2-1/2	4	ST60218
S	2-1/2	4	ST60219
T	2-3/4	4-1/4	ST60220
U	2-3/4	4-1/4	ST60221
V	2-3/4	4-1/4	ST60222
W	2-7/8	4-1/2	ST60223
X	2-7/8	4-1/2	ST60224
Y	2-7/8	4-1/2	ST60225
Z	2-7/8	4-1/2	ST60226

• 1 per tube



SOLID CARBIDE TWIST DRILL SETS IN METAL INDEX

NEW

SET QTY.	SIZE RANGE	STOCK #
13 Pc.	Fractional Sizes 1/16" - 1/4" by 64ths	ST50194
15 Pc.	Fractional Sizes 1/16" - 1/2" by 32nds	ST50193
21 Pc.	Fractional Sizes 1/16" - 3/8" by 64ths	ST50192
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	ST50190



1/4" SHANK DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

ECONOMY LENGTH, 118° POINT
BRIGHT FINISH

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	
			STOCK #	
			ENVELOPED	CARDED
5/16"	2-1/2"	4"	RS51807A	RS51807AC
3/8"	2-1/2"	4"	RS51815A	RS51815AC
7/16"	2-1/2"	4"	RS51823A	RS51823AC
1/2"	2-1/2"	4"	RS51831A	RS51831AC

JOBBER LENGTH,
118° POINT
BLACK OXIDE FINISH

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ECO PRO	
			STOCK #	
			ENVELOPED	CARDED
17/64	2-7/8	4-1/8	RS51801	RS51801C
9/32	2-15/16	4-1/4	RS51803	RS51803C
19/64	3-1/16	4-3/8	RS51805	RS51805C
5/16	3-3/16	4-1/2	RS51807	RS51807C
21/64	3-5/16	4-5/8	RS51809	RS51809C
11/32	3-7/16	4-3/4	RS51811	RS51811C
23/64	3-1/2	4-7/8	RS51813	RS51813C
3/8	3-5/8	5	RS51815	RS51815C
25/64	3-3/4	5-1/8	RS51817	RS51817C
13/32	3-7/8	5-1/4	RS51819	RS51819C
27/64	3-15/16	5-3/8	RS51821	RS51821C
7/16	4-1/16	5-1/2	RS51823	RS51823C
29/64	4-3/16	5-5/8	RS51825	RS51825C
15/32	4-5/16	5-3/4	RS51827	RS51827C
31/64	4-3/8	5-7/8	RS51829	RS51829C
1/2	4-1/2	6	RS51831	RS51831C

INTERMEDIATE LENGTH
118° SPLIT POINT

NEW

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	ECO PRO
5/16"	2-1/2"	3-13/16"	RS51835	RS51835C
3/8"	2-7/8"	4-1/4"	RS51836	RS51836C
7/16"	3-3/8"	4-11/16"	RS51837	RS51837C
1/2"	3-5/8"	5-1/16"	RS51838	RS51838C

• Bulk 6 per envelope

• Card 1 per card

1/4" SHANK DRILL SET IN METAL INDEX

SET QTY.	SIZE RANGE	STOCK #
		ECO PRO
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	RS250187

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

• Card 1 per card

3/8" SHANK JOBBER DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

JOBBER LENGTH
118° POINT
BLACK OXIDE FINISH

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA		ECO PRO		ALFA USA	
			STOCK #		STOCK #		STOCK #	
			ENVELOPED	CARDED	ENVELOPED	CARDED	ENVELOPED	CARDED
25/64"	3-3/4"	5-1/8"	RS151851	RS151851C	RS251851	RS251851C	RSS151851	RSS151851C
13/32"	3-7/8"	5-1/4"	RS151853	RS151853C	RS251853	RS251853C	RSS151853	RSS151853C
27/64"	3-15/16"	5-3/8"	RS151855	RS151855C	RS251855	RS251855C	RSS151855	RSS151855C
7/16"	4-1/16"	5-1/2"	RS151857	RS151857C	RS251857	RS251857C	RSS151857	RSS151857C
29/64"	4-3/16"	5-5/8"	RS151859	RS151859C	RS251859	RS251859C	RSS151859	RSS151859C
15/32"	4-5/16"	5-3/4"	RS151861	RS151861C	RS251861	RS251861C	RSS151861	RSS151861C
31/64"	4-3/8"	5-7/8"	RS151863	RS151863C	RS251863	RS251863C	RSS151863	RSS151863C
1/2"	4-1/2"	6"	RS151865	RS151865C	RS251865	RS251865C	RSS151865	RSS151865C

• Bulk 6 per envelope

• Card 1 per card

HEAVY DUTY
JOBBER LENGTH
135° SPLIT POINT
BLACK OXIDE FINISH

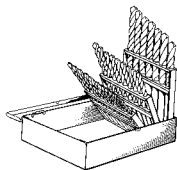
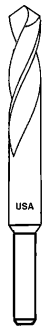
118° POINT, 3/8" SHANK DRILL SETS IN METAL INDEX

SET QTY.	SIZE RANGE	STOCK #	
		ALFA USA	ECO PRO
15 Pc.	1/16" - 1/2" by 32nds	RS150193	RS250193
29 Pc.	1/16" - 1/2" by 64ths	RS150186	RS250186

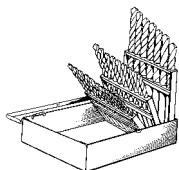
SET QTY.	SIZE RANGE	STOCK #
		ALFA USA
15 Pc.	1/16" - 1/2" by 32nds	RSS150193
29 Pc.	1/16" - 1/2" by 64ths	RSS150186

A

Reduced Shank Drills



NEW





BLITZ BITS® 3/8" SHANK JOBBER DRILLS

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

HEAVY DUTY
JOBBER LENGTH
135° SPLIT POINT
BLACK & GOLD FINISH

BLITZ BITS® are available in
Regular and Parabolic Flute.



A

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

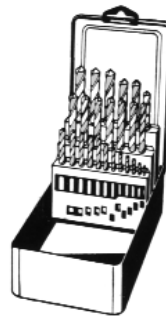
- Made from a premium grade of M-7 molybdenum high speed steel, which has a special black and gold surface treatment to increase hardness and reduce friction.
- The strong web construction provides greater strength and rigidity to drill in hard to drill materials like stainless steel and titanium alloys.
- The buttressed cutting edge, with an acute rake, make the BLITZ BITS® cut cleanly & 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 & reduces thrust.
- Designed for drilling the widest range of materials like mild steel, stainless steel, non-ferrous materials, and wood.

FRACTIONAL SIZES

Inch Dimensions			REGULAR FLUTE		PARABOLIC FLUTE	
SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #		STOCK #	
			ENVELOPED	CARDED	ENVELOPED	CARDED
25/64	3-3/4	5-1/8	BBRS74122	BBRS74122C	BBRS50122	BBRS50122C
13/32	3-7/8	5-1/4	BBRS74123	BBRS74123C	BBRS50123	BBRS50123C
27/64	3-15/16	5-3/8	BBRS74124	BBRS74124C	BBRS50124	BBRS50124C
7/16	4-1/16	5-1/2	BBRS74125	BBRS74125C	BBRS50125	BBRS50125C
29/64	4-3/16	5-5/8	BBRS74126	BBRS74126C	BBRS50126	BBRS50126C
15/32	4-5/16	5-3/4	BBRS74127	BBRS74127C	BBRS50127	BBRS50127C
31/64	4-3/8	5-7/8	BBRS74128	BBRS74128C	BBRS50128	BBRS50128C
1/2	4-1/2	6	BBRS74129	BBRS74129C	BBRS50129	BBRS50129C

- Bulk 6 per envelope
- Card 1 per card

BLITZ BIT® 3/8" SHANK DRILL SETS IN METAL INDEX



SET QTY.	SIZE RANGE	ALFA USA
		STOCK #
15 Pc.	Regular Flute 1/16" - 1/2" by 32nds	BBRS74193
29 Pc.	Regular Flute 1/16" - 1/2" by 64ths	BB74186
15 Pc.	Parabolic Flute 1/16" - 1/2" by 32nds	BBRS50193
29 Pc.	Parabolic Flute 1/16" - 1/2" by 64ths	BB50186

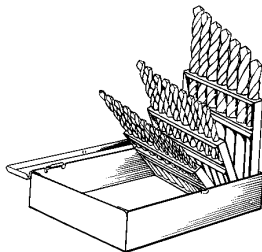
Reduced Shank Jobber Drills

M-42 COBALT 3/8" SHANK JOBBER DRILLS

HEAVY DUTY • RIGHT HAND SPIRAL

JOBBER LENGTH
135° SPLIT POINT
STRAW GOLD FINISH

Manufactured from heat resistant M-42 cobalt 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.



Expanded Offering!

3/8" SHANK DRILL SETS IN METAL INDEX

SET QTY.	SIZE RANGE	ALFA USA
		STOCK #
15 Pc.	Fractional Sizes 1/16" - 1/2" by 32nds	RSCO50193
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	RSCO50186



Inch Dimensions

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #	
			ENVELOPED	CARDED
25/64	3-3/4	5-1/8	RSCO51851	RSCO51851C
13/32	3-7/8	5-1/4	RSCO51853	RSCO51853C
27/64	3-15/16	5-3/8	RSCO51855	RSCO51855C
7/16	4-1/16	5-1/2	RSCO51857	RSCO51857C
29/64	4-3/16	5-5/8	RSCO51859	RSCO51859C
15/32	4-5/16	5-3/4	RSCO51861	RSCO51861C
31/64	4-3/8	5-7/8	RSCO51863	RSCO51863C
1/2	4-1/2	6	RSCO51865	RSCO51865C

- Bulk 6 per envelope
- Card 1 per card

SILVER & DEMING DRILLS

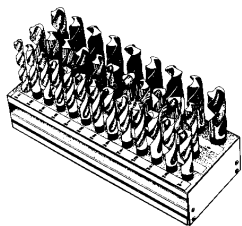
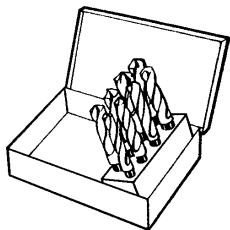
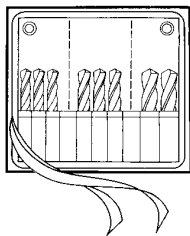
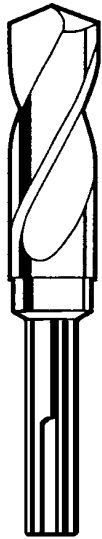
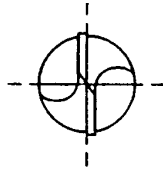
SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

1/2" REDUCED SHANK,
ALFA USA
118° POINT
3 FLATS ON SHANK
BLACK OXIDE FINISH

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.

1/2" REDUCED SHANK,
ECO PRO
118° POINT
BLACK OXIDE FINISH

Inch Dimensions



SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA M-7	
			STOCK #	
			TUBED	CARDED
33/64	3-1/8	6	SD50400	SD50400C
17/32	3-1/8	6	SD50401	SD50401C
35/64	3-1/8	6	SD50402	SD50402C
9/16	3-1/8	6	SD50403	SD50403C
37/64	3-1/8	6	SD50404	SD50404C
19/32	3-1/8	6	SD50405	SD50405C
39/64	3-1/8	6	SD50406	SD50406C
5/8	3-1/8	6	SD50407	SD50407C
41/64	3-1/8	6	SD50408	SD50408C
21/32	3-1/8	6	SD50409	SD50409C
43/64	3-1/8	6	SD50410	SD50410C
11/16	3-1/8	6	SD50411	SD50411C
45/64	3-1/8	6	SD50412	SD50412C
23/32	3-1/8	6	SD50413	SD50413C
47/64	3-1/8	6	SD50414	SD50414C
3/4	3-1/8	6	SD50415	SD50415C
49/64	3-1/8	6	SD50416A	SD50416AC
25/32	3-1/8	6	SD50416	SD50416C
51/64	3-1/8	6	SD50417A	SD50417AC
13/16	3-1/8	6	SD50417	SD50417C
53/64	3-1/8	6	SD50418A	SD50418AC
27/32	3-1/8	6	SD50418	SD50418C
55/64	3-1/8	6	SD50419A	SD50419AC
7/8	3-1/8	6	SD50419	SD50419C
57/64	3-1/8	6	SD50420A	SD50420AC
29/32	3-1/8	6	SD50420	SD50420C
59/64	3-1/8	6	SD50421A	SD50421AC
15/16	3-1/8	6	SD50421	SD50421C
61/64	3-1/8	6	SD50422A	SD50422AC
31/32	3-1/8	6	SD50422	SD50422C
63/64	3-1/8	6	SD50423A	SD50423AC
1	3-1/8	6	SD50423	SD50423C
1-1/16	3-1/8	6	SD50425	—
1-1/8	3-1/8	6	SD50427	—
1-3/16	3-1/8	6	SD50429	—
1-1/4	3-1/8	6	SD50431	—
1-5/16	3-1/8	6	SD50433	—
1-3/8	3-1/8	6	SD50435	—
1-7/16	3-1/8	6	SD50437	—
1-1/2	3-1/8	6	SD50439	—

ECO PRO M-2	
STOCK #	
TUBED	CARDED
SD250400	SD250400C
SD250401	SD250401C
SD250402	SD250402C
SD250403	SD250403C
SD250404	SD250404C
SD250405	SD250405C
SD250406	SD250406C
SD250407	SD250407C
SD250408	SD250408C
SD250409	SD250409C
SD250410	SD250410C
SD250411	SD250411C
SD250412	SD250412C
SD250413	SD250413C
SD250414	SD250414C
SD250415	SD250415C
SD250416A	SD250416AC
SD250416	SD250416C
SD250417A	SD250417AC
SD250417	SD250417C
SD250418A	SD250418AC
SD250418	SD250418C
SD250419A	SD250419AC
SD250419	SD250419C
SD250420A	SD250420AC
SD250420	SD250420C
SD250421A	SD250421AC
SD250421	SD250421C
SD250422A	SD250422AC
SD250422	SD250422C
SD250423A	SD250423AC
SD250423	SD250423C
SD250425	—
SD250427	—
SD250429	—
SD250431	—
SD250433	—
SD250435	—
SD250437	—
SD250439	—

• Bulk 1 per tube / box
• Card 1 per card

• Bulk 1 per tube / box
• Card 1 per card

SILVER & DEMING DRILL SETS

SET QTY.	SIZE RANGE		STOCK #	
			ALFA USA	ECO PRO
5 Pc.	9/16", 5/8", 3/4", 7/8", 1"	Handy Roll	SD50448R	SD250448R
8 Pc.	9/16" - 1" by 1/16ths	Handy Roll	SD50449R	SD250449R
8 Pc.	9/16" - 1" by 1/16ths	Metal Index	SD50449A	SD250449A
33 Pc.	1/2" x 1" by 1/64ths	Metal Stand	SD50450	SD250450

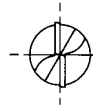




BLITZ BITS® SILVER & DEMING DRILLS

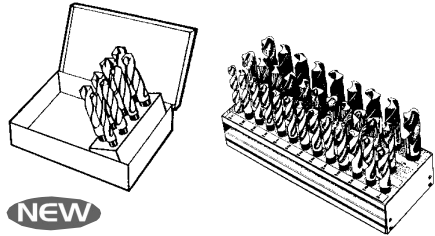
HEAVY DUTY • M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

1/2" REDUCED SHANK
118° SPLIT POINT
3 FLATS ON SHANK
BLACK & GOLD FINISH



Expanded Offering!

3-1/8" FLUTE LENGTH, 6" OAL



NEW

BLITZ BITS SILVER & DEMING DRILL SETS
IN METAL INDEX / STAND

SET QTY.	SIZE RANGE	ALFA USA
		STOCK #
8 Pc.	9/16" - 1" by 1/16ths	SDBB50449A
33 Pc.	1/2" - 1" by 1/64ths	SDBB50450

SIZE	ALFA USA	
	STOCK #	
	TUBED	CARDED
33/64"	SDBB50400	SDBB50400C
17/32"	SDBB50401	SDBB50401C
35/64"	SDBB50402	SDBB50402C
9/16"	SDBB50403	SDBB50403C
37/64"	SDBB50404	SDBB50404C
19/32"	SDBB50405	SDBB50405C
39/64"	SDBB50406	SDBB50406C
5/8"	SDBB50407	SDBB50407C
41/64"	SDBB50408	SDBB50408C
21/32"	SDBB50409	SDBB50409C
43/64"	SDBB50410	SDBB50410C
11/16"	SDBB50411	SDBB50411C
45/64"	SDBB50412	SDBB50412C
23/32"	SDBB50413	SDBB50413C
47/64"	SDBB50414	SDBB50414C
3/4"	SDBB50415	SDBB50415C
49/64"	SDBB50416A	SDBB50416AC
25/32"	SDBB50416	SDBB50416C
51/64"	SDBB50417A	SDBB50417AC
13/16"	SDBB50417	SDBB50417C

SIZE	ALFA USA	
	STOCK #	
	TUBED	CARDED
53/64"	SDBB50418A	SDBB50418AC
27/32"	SDBB50418	SDBB50418C
55/64"	SDBB50419A	SDBB50419AC
7/8"	SDBB50419	SDBB50419C
57/64"	SDBB50420A	SDBB50420AC
29/32"	SDBB50420	SDBB50420C
59/64"	SDBB50421A	SDBB50421AC
15/16"	SDBB50421	SDBB50421C
61/64"	SDBB50422A	SDBB50422AC
31/32"	SDBB50422	SDBB50422C
63/64"	SDBB50423A	SDBB50423AC
1"	SDBB50423	SDBB50423C
1-1/16"	SDBB50425	—
1-1/8"	SDBB50427	—
1-3/16"	SDBB50429	—
1-1/4"	SDBB50431	—
1-5/16"	SDBB50433	—
1-3/8"	SDBB50435	—
1-7/16"	SDBB50437	—
1-1/2"	SDBB50439	—

• Bulk 1 per tube / box

• Card 1 per card

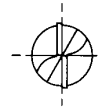
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Silver & Deming Drills

M-42 COBALT SILVER & DEMING DRILLS

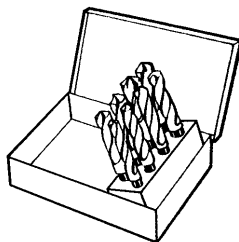
HEAVY DUTY • SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

1/2" REDUCED SHANK
118° SPLIT POINT
3 FLATS ON SHANK
STRAW GOLD FINISH



Expanded Offering!

3-1/8" FLUTE LENGTH, 6" OAL



COBALT SILVER & DEMING DRILL SETS
IN METAL INDEX

SET QTY.	SIZE RANGE	ALFA USA
		STOCK #
8 Pc.	9/16" - 1" by 1/16ths	SDCO50449A

SIZE	ALFA USA	
	STOCK #	
	TUBED	CARDED
33/64"	SDCO50400	—
17/32"	SDCO50401	SDCO50401C
35/64"	SDCO50402	—
9/16"	SDCO50403	SDCO50403C
37/64"	SDCO50404	—
19/32"	SDCO50405	SDCO50405C
39/64"	SDCO50406	—
5/8"	SDCO50407	SDCO50407C
41/64"	SDCO50408	—
21/32"	SDCO50409	SDCO50409C
43/64"	SDCO50410	—
11/16"	SDCO50411	SDCO50411C
45/64"	SDCO50412	—
23/32"	SDCO50413	SDCO50413C
47/64"	SDCO50414	—
3/4"	SDCO50415	SDCO50415C
49/64"	SDCO50416A	—
25/32"	SDCO50416	SDCO50416C
51/64"	SDCO50417A	—
13/16"	SDCO50417	SDCO50417C

SIZE	ALFA USA	
	STOCK #	
	TUBED	CARDED
53/64"	SDCO50418A	—
27/32"	SDCO50418	SDCO50418C
55/64"	SDCO50419A	—
7/8"	SDCO50419	SDCO50419C
57/64"	SDCO50420A	—
29/32"	SDCO50420	SDCO50420C
59/64"	SDCO50421A	—
15/16"	SDCO50421	SDCO50421C
61/64"	SDCO50422A	—
31/32"	SDCO50422	SDCO50422C
63/64"	SDCO50423A	—
1"	SDCO50423	SDCO50423C
1-1/16"	SDCO50425	—
1-1/8"	SDCO50427	—
1-3/16"	SDCO50429	—
1-1/4"	SDCO50431	—
1-5/16"	SDCO50433	—
1-3/8"	SDCO50435	—
1-7/16"	SDCO50437	—
1-1/2"	SDCO50439	—

• Bulk 1 per tube / box

• Card 1 per card





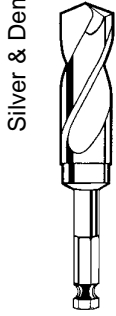
Monolock™ S & D DRILLS

HEAVY DUTY • HSS • RIGHT HAND SPIRAL

7/16" HEX POWER SHANK
118° SPLIT POINT
BLACK OXIDE

A

Silver & Deming Drills



7/16" Hex Shank with Power Groove

Inch Dim.

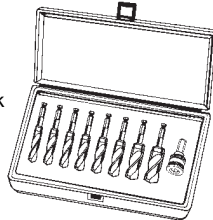
SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #	
			TUBED	CARDED
			1/2	4-1/4
17/32	3-1/8	6	SD50601	SD50601C
9/16	3-1/8	6	SD50603	SD50603C
19/32	3-1/8	6	SD50605	SD50605C
5/8	3-1/8	6	SD50607	SD50607C
21/32	3-1/8	6	SD50609	SD50609C
11/16	3-1/8	6	SD50611	SD50611C
23/32	3-1/8	6	SD50613	SD50613C
3/4	3-1/8	6	SD50615	SD50615C
25/32	3-1/8	6	SD50616	SD50616C
13/16	3-1/8	6	SD50617	SD50617C
27/32	3-1/8	6	SD50618	SD50618C
7/8	3-1/8	6	SD50619	SD50619C
29/32	3-1/8	6	SD50620	SD50620C
15/16	3-1/8	6	SD50621	SD50621C
31/32	3-1/8	6	SD50622	SD50622C
1	3-1/8	6	SD50623	SD50623C

• Bulk 1 per tube / box

• Card 1 per card

9 Pc. Monolock S & D Drill Set

Contains 1 ea.: 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16 & 1" with a 7/16" quick change chuck in a strong plastic case.



STOCK # SD50640

NEW

METRIC S & D DRILLS

HSS • RIGHT HAND SPIRAL

1/2" REDUCED SHANK
118° POINT
BLACK OXIDE

NEW

METRIC SIZES



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

• 1 per pack



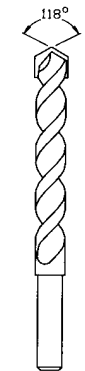
"BOWLING BALL" DRILLS

RIGHT HAND CUT • RIGHT HAND SPIRAL

SILVER & DEMING
1/2" REDUCED SHANK
CARBIDE TIPPED
118° POINT

Ideal for drilling carbon blocks, hard plastics, bakelite, composites, stone, brick and asphalt.

NEW



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

Inch Dim.

6" OAL, 3-7/8" FLUTE LENGTH

SIZE	DECIMAL EQUIV.	STOCK #	SIZE	DECIMAL EQUIV.	STOCK #
17/32	.5312	SDC50401	13/16	.8125	SDC50419
35/64	.5469	SDC50402	53/64	.8281	SDC50420
9/16	.5625	SDC50403	27/32	.8438	SDC50421
37/64	.5781	SDC50404	55/64	.8594	SDC50422
19/32	.5938	SDC50405	7/8	.8750	SDC50423
39/64	.6094	SDC50406	57/64	.8906	SDC50424
5/8	.6250	SDC50407	29/32	.9062	SDC50425
41/64	.6406	SDC50408	59/64	.9219	SDC50426
21/32	.6562	SDC50409	15/16	.9375	SDC50427
43/64	.6719	SDC50410	61/64	.9531	SDC50428
11/16	.6875	SDC50411	31/32	.9688	SDC50429
45/64	.7031	SDC50412	63/64	.9844	SDC50430
23/32	.7188	SDC50413	1	1.000	SDC50431
47/64	.7344	SDC50414	1-1/16	1.0625	SDC50432
3/4	.7500	SDC50415	1-1/8	1.1250	SDC50433
49/64	.7656	SDC50416	1-1/4	1.2500	SDC50434
25/32	.7812	SDC50417	1-3/8	1.3750	SDC50435
51/64	.7969	SDC50418			

• 1 per pack

3/4" S & D DRILLS

HSS • RIGHT HAND SPIRAL

3/4" REDUCED SHANK
118° POINT
BLACK OXIDE

Inch Dim.



SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1	3	6	RS52423
1-1/16	3	6	RS52425
1-1/8	3	6	RS52427
1-3/16	3	6	RS52429
1-1/4	3	6	RS52431
1-5/16	3	6	RS52433
1-3/8	3	6	RS52435
1-7/16	3	6	RS52437
1-1/2	3	6	RS52439
1-9/16	3	6	RS52441
1-5/8	3	6	RS52443
1-11/16	3	6	RS52445
1-3/4	3	6	RS52447
1-13/16	3	6	RS52449
1-7/8	3	6	RS52451
1-15/16	3	6	RS52453
2	3	6	RS52455

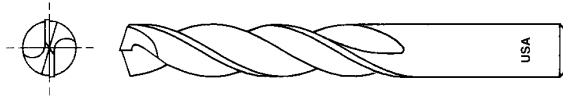
• 1 per pack



SCREW MACHINE LENGTH DRILLS

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL • NAS 907, TYPE C

HEAVY DUTY
135° SPLIT POINT,
(Above 1/2" 118° Point)
BLACK OXIDE FINISH



Expanded Offering!

A

Screw Machine Length Drills

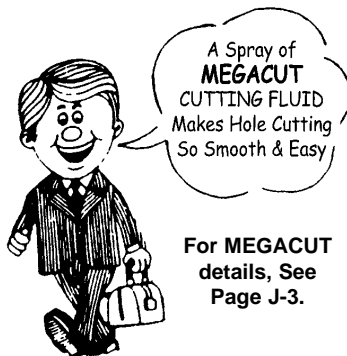
Inch Dimensions

FRACTIONAL SIZES

Manufactured to National Aerospace Standard 907, Type C. These drills, with a heavy duty construction and shorter length, perform well in machine as well as portable drilling. The shorter flute and overall length increases the rigidity resulting in less deflection, better hole accuracy and longer tool life. The 135° split point is self-centering and reduces thrust. Designed for drilling in a broad range of materials in the iron and steel families.

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.



SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA	ECO PRO
			STOCK #	STOCK #
135° SPLIT POINT				
3/64	1/2	1-3/8	SM50200	—
1/16	5/8	1-5/8	SM50201	SM250201
5/64	11/16	1-11/16	SM50202	SM250202
3/32	3/4	1-3/4	SM50203	SM250203
7/64	13/16	1-13/16	SM50204	SM250204
1/8	7/8	1-7/8	SM50205	SM250205
9/64	15/16	1-15/16	SM50206	SM250206
5/32	1	2-1/16	SM50207	SM250207
11/64	1-1/16	2-1/8	SM50208	SM250208
3/16	1-1/8	2-3/16	SM50209	SM250209
13/64	1-3/16	2-1/4	SM50210	SM250210
7/32	1-1/4	2-3/8	SM50211	SM250211
15/64	1-5/16	2-7/16	SM50212	SM250212
1/4	1-3/8	2-1/2	SM50213	SM250213
17/64	1-7/16	2-5/8	SM50214	SM250214
9/32	1-1/2	2-11/16	SM50215	SM250215
19/64	1-9/16	2-3/4	SM50216	SM250216
5/16	1-5/8	2-13/16	SM50217	SM250217
21/64	1-11/16	2-15/16	SM50218	SM250218
11/32	1-11/16	3	SM50219	SM250219
23/64	1-3/4	3-1/16	SM50220	SM250220
3/8	1-13/16	3-1/8	SM50221	SM250221
25/64	1-7/8	3-1/4	SM50222	SM250222
13/32	1-15/16	3-5/16	SM50223	SM250223
27/64	2	3-3/8	SM50224	SM250224
7/16	2-1/16	3-7/16	SM50225	SM250225
29/64	2-1/8	3-9/16	SM50226	SM250226
15/32	2-1/8	3-5/8	SM50227	SM250227
31/64	2-3/16	3-11/16	SM50228	SM250228
1/2	2-1/4	3-3/4	SM50229	SM250229
118° POINT				
33/64	2-3/8	3-7/8	SM50230	—
17/32	2-3/8	3-7/8	SM50231	—
35/64	2-1/2	4	SM50232	—
9/16	2-1/2	4	SM50233	—
37/64	2-5/8	4-1/8	SM50234	—
19/32	2-5/8	4-1/8	SM50235	—
39/64	2-3/4	4-1/4	SM50236	—
5/8	2-3/4	4-1/4	SM50237	—
41/64	2-7/8	4-1/2	SM50238	—
21/32	2-7/8	4-1/2	SM50239	—

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
			STOCK #
118° POINT			
43/64	2-7/8	4-5/8	SM50240
11/16	2-7/8	4-5/8	SM50241
45/64	3	4-3/4	SM50242
23/32	3	4-3/4	SM50243
47/64	3-1/8	5	SM50244
3/4	3-1/8	5	SM50245
49/64	3-1/4	5-1/8	SM50246
25/32	3-1/4	5-1/8	SM50247
51/64	3-3/8	5-1/4	SM50248
13/16	3-3/8	5-1/4	SM50249
53/64	3-1/2	5-3/8	SM50250
27/32	3-1/2	5-3/8	SM50251
55/64	3-1/2	5-1/2	SM50252
7/8	3-1/2	5-1/2	SM50253
57/64	3-5/8	5-5/8	SM50254
29/32	3-5/8	5-5/8	SM50255
59/64	3-3/4	5-3/4	SM50256
15/16	3-3/4	5-3/4	SM50257
61/64	3-7/8	5-7/8	SM50258
31/32	3-7/8	5-7/8	SM50259
63/64	4	6	SM50260
1	4	6	SM50261
1-1/16	4	6-1/4	SM50262
1-1/8	4	6-3/8	SM50263
1-3/16	4-1/4	6-5/8	SM50264
1-1/4	4-3/8	6-3/4	SM50265
1-5/16	4-3/8	7	SM50266
1-3/8	4-1/2	7-1/8	SM50267
1-7/16	4-3/4	7-3/8	SM50268
1-1/2	4-7/8	7-1/2	SM50269
1-9/16	4-7/8	7-3/4	SM50270
1-5/8	4-7/8	7-3/4	SM50271
1-11/16	5-1/8	8	SM50272
1-3/4	5-1/8	8	SM50273
1-13/16	5-3/8	8-1/4	SM50274
1-7/8	5-3/8	8-1/4	SM50275
1-15/16	5-5/8	8-1/2	SM50276
2	5-5/8	8-1/2	SM50277

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



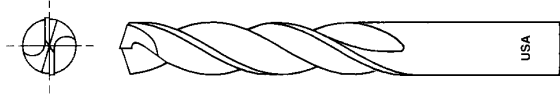
• ALFA USA drills are manufactured in the United States.
• ECO PRO drills are made outside the United States to ALFA TOOLS' specifications.



SCREW MACHINE LENGTH DRILLS – Cont.

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL • NAS 907, TYPE C

HEAVY DUTY
135° SPLIT POINT
BLACK OXIDE FINISH



A

Screw Machine Length Drills

Inch
Dimensions

SWG NUMBER SIZES

SIZE	FLUTE LENGTH	OAL	ALFA USA STOCK #
1	1-5/16	2-7/16	SM60301
2	1-5/16	2-7/16	SM60302
3	1-1/4	2-3/8	SM60303
4	1-1/4	2-3/8	SM60304
5	1-1/4	2-3/8	SM60305
6	1-1/4	2-3/8	SM60306
7	1-3/16	2-1/4	SM60307
8	1-3/16	2-1/4	SM60308
9	1-3/16	2-1/4	SM60309
10	1-3/16	2-1/4	SM60310
11	1-3/16	2-1/4	SM60311
12	1-3/16	2-1/4	SM60312
13	1-1/8	2-3/16	SM60313
14	1-1/8	2-3/16	SM60314
15	1-1/8	2-3/16	SM60315
16	1-1/8	2-3/16	SM60316
17	1-1/8	2-3/16	SM60317
18	1-1/16	2-1/8	SM60318
19	1-1/16	2-1/8	SM60319
20	1-1/16	2-1/8	SM60320

• 1 to 40, 12 per pack

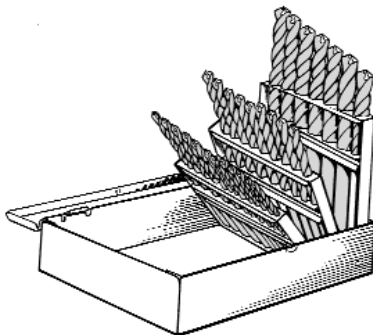
Inch
Dimensions

LETTER SIZES

SIZE	FLUTE LENGTH	OAL	ALFA USA STOCK #
A	1-5/16	2-7/16	SM60401
B	1-3/8	2-1/2	SM60402
C	1-3/8	2-1/2	SM60403
D	1-3/8	2-1/2	SM60404
E	1-3/8	2-1/2	SM60405
F	1-7/16	2-5/8	SM60406
G	1-7/16	2-5/8	SM60407
H	1-1/2	2-11/16	SM60408
I	1-1/2	2-11/16	SM60409
J	1-1/2	2-11/16	SM60410
K	1-1/2	2-11/16	SM60411
L	1-9/16	2-3/4	SM60412
M	1-9/16	2-3/4	SM60413
N	1-5/8	2-13/16	SM60414
O	1-11/16	2-15/16	SM60415
P	1-11/16	2-15/16	SM60416
Q	1-11/16	3	SM60417
R	1-11/16	3	SM60418
S	1-3/4	3-1/16	SM60419
T	1-3/4	3-1/16	SM60420
U	1-13/16	3-1/8	SM60421
V	1-7/8	3-1/4	SM60422
W	1-7/8	3-1/4	SM60423
X	1-15/16	3-5/16	SM60424
Y	1-15/16	3-5/16	SM60425
Z	2	3-3/8	SM60426

• A to N, 12 per pack
O to Z, 6 per pack

SCREW MACHINE LENGTH DRILL SETS IN METAL INDEX



SET QTY.	SIZE RANGE	ALFA USA	ECO PRO
		STOCK #	STOCK #
13 Pc.	1/16" - 1/4" by 64ths	SM50294	SM250294
29 Pc.	1/16" - 1/2" by 64ths	SM50290	SM250290
26 Pc.	Letter Sizes A - Z	SM50297	–
60 Pc.	SWG Number Sizes #1 - #60	SM50291	–



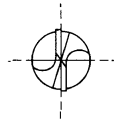


BLITZ BITS® - SCREW MACHINE LENGTH

M-7 SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

NEW

HEAVY DUTY
135° SPLIT POINT
BLACK & GOLD OXIDE FINISH



A

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 hardness 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, make the BLITZ BITS® cut cleanly & 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, non-ferrous materials, and wood.

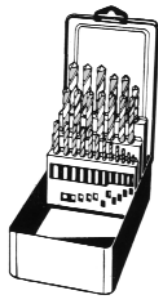
Blitz Bit® - Screw Machine Length Drills

Inch Dimensions

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
			STOCK #
1/16	5/8	1-5/8	BBSM50201
5/64	11/16	1-11/16	BBSM50202
3/32	3/4	1-3/4	BBSM50203
7/64	13/16	1-13/16	BBSM50204
1/8	7/8	1-7/8	BBSM50205
9/64	15/16	1-15/16	BBSM50206
5/32	1	2-1/16	BBSM50207
11/64	1-1/16	2-1/8	BBSM50208
3/16	1-1/8	2-3/16	BBSM50209
13/64	1-3/16	2-1/4	BBSM50210
7/32	1-1/4	2-3/8	BBSM50211
15/64	1-5/16	2-7/16	BBSM50212
1/4	1-3/8	2-1/2	BBSM50213
17/64	1-7/16	2-5/8	BBSM50214
9/32	1-1/2	2-11/16	BBSM50215
19/64	1-9/16	2-3/4	BBSM50216
5/16	1-5/8	2-13/16	BBSM50217
21/64	1-11/16	2-15/16	BBSM50218
11/32	1-11/16	3	BBSM50219
23/64	1-3/4	3-1/16	BBSM50220
3/8	1-13/16	3-1/8	BBSM50221
25/64	1-7/8	3-1/4	BBSM50222
13/32	1-15/16	3-5/16	BBSM50223
27/64	2	3-3/8	BBSM50224
7/16	2-1/16	3-7/16	BBSM50225
29/64	2-1/8	3-9/16	BBSM50226
15/32	2-1/8	3-5/8	BBSM50227
31/64	2-3/16	3-11/16	BBSM50228
1/2	2-1/4	3-3/4	BBSM50229

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



BLITZ BITS SCREW MACHINE SETS IN METAL INDEX

SET QTY.	SIZE RANGE	ALFA USA STOCK #
13 Pc.	Fractional Sizes 1/16" - 1/4" by 64ths	BBSM50194
29 Pc.	Fractional Sizes 1/16" - 1/2" by 64ths	BBSM50190



METRIC - SCREW MACHINE LENGTH DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL • NAS 907, TYPE C

ISO LENGTH
HEAVY DUTY
135° SPLIT POINT
BLACK OXIDE FINISH



NEW

Point is self-centering and reduces thrust. Short rugged construction performs well in a broad range of materials in the iron and steel families. Ideal for portable or machine drilling.

METRIC SIZES

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
5.50	28	66	SMM74445
6.00	28	66	SMM74450
6.50	31	70	SMM74455

SIZE MM	FLUTE LENGTH MM	OVERALL LENGTH MM	STOCK #
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
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

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

*Not split point

Screw Machine Length Drills

A

LEFT HAND - SCREW MACHINE LENGTH DRILLS

SUPER HIGH SPEED STEEL • LEFT HAND SPIRAL

118° POINT
BRIGHT FINISH



NEW

Features a left hand helix for applications where shorter, more rigid length is required in a left hand rotation.

Inch
Dimensions

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
			STOCK #
1/16	5/8	1-5/8	SML50201
5/64	11/16	1-11/16	SML50202
3/32	3/4	1-3/4	SML50203
7/64	13/16	1-13/16	SML50204
1/8	7/8	1-7/8	SML50205
9/64	15/16	1-15/16	SML50206
5/32	1	2-1/16	SML50207
11/64	1-1/16	2-1/8	SML50208
3/16	1-1/8	2-3/16	SML50209
13/64	1-3/16	2-1/4	SML50210
7/32	1-1/4	2-3/8	SML50211
15/64	1-5/16	2-7/16	SML50212
1/4	1-3/8	2-1/2	SML50213
17/64	1-7/16	2-5/8	SML50214
9/32	1-1/2	2-11/16	SML50215

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA
			STOCK #
19/64	1-9/16	2-3/4	SML50216
5/16	1-5/8	2-13/16	SML50217
21/64	1-11/16	2-15/16	SML50218
11/32	1-11/16	3	SML50219
23/64	1-3/4	3-1/16	SML50220
3/8	1-13/16	3-1/8	SML50221
25/64	1-7/8	3-1/4	SML50222
13/32	1-15/16	3-5/16	SML50223
27/64	2	3-3/8	SML50224
7/16	2-1/16	3-7/16	SML50225
29/64	2-1/8	3-9/16	SML50226
15/32	2-1/8	3-5/8	SML50227
31/64	2-3/16	3-11/16	SML50228
1/2	2-1/4	3-3/4	SML50229

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



COBALT SCREW MACHINE LENGTH DRILLS

M-42 COBALT HSS • RIGHT HAND SPIRAL

**HEAVY DUTY
135° SPLIT POINT
STRAW GOLD FINISH**

Manufactured from M-42 cobalt high speed steel, their heat-resistant, heavy duty design enables use in the harder, high tensile strength steels like stainless steel and other difficult to machine materials. 135° self centering split point reduces thrust.

NEW

A

Screw Machine Length Drills



Inch
Dim.

FRACTIONAL SIZES

SIZE	STOCK #	SIZE	STOCK #
1/16	SMCO50201	19/64	SMCO50216
5/64	SMCO50202	5/16	SMCO50217
3/32	SMCO50203	21/64	SMCO50218
7/64	SMCO50204	11/32	SMCO50219
1/8	SMCO50205	23/64	SMCO50220
9/64	SMCO50206	3/8	SMCO50221
5/32	SMCO50207	25/64	SMCO50222
11/64	SMCO50208	13/32	SMCO50223
3/16	SMCO50209	27/64	SMCO50224
13/64	SMCO50210	7/16	SMCO50225
7/32	SMCO50211	29/64	SMCO50226
15/64	SMCO50212	15/32	SMCO50227
1/4	SMCO50213	31/64	SMCO50228
17/64	SMCO50214	1/2	SMCO50229
9/32	SMCO50215		

• 1/16" - 5/16", 12 per pack
21/64" - 1/2", 6 per pack

LETTER SIZES

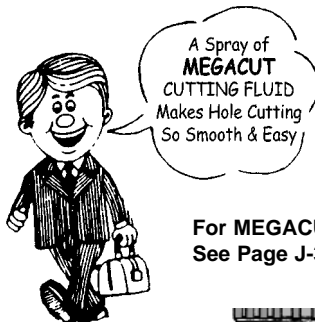
SIZE	STOCK #	SIZE	STOCK #
A	SMCO60401	N	SMCO60414
B	SMCO60402	O	SMCO60415
C	SMCO60403	P	SMCO60416
D	SMCO60404	Q	SMCO60417
E	SMCO60405	R	SMCO60418
F	SMCO60406	S	SMCO60419
G	SMCO60407	T	SMCO60420
H	SMCO60408	U	SMCO60421
I	SMCO60409	V	SMCO60422
J	SMCO60410	W	SMCO60423
K	SMCO60411	X	SMCO60424
L	SMCO60412	Y	SMCO60425
M	SMCO60413	Z	SMCO60426

• A - N, 12 per pack
O - Z, 6 per pack

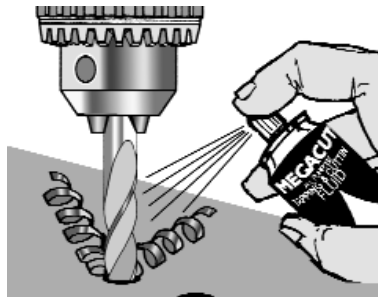
SWG NUMBER SIZES

SIZE	STOCK #	SIZE	STOCK #
1	SMCO60301	21	SMCO60321
2	SMCO60302	22	SMCO60322
3	SMCO60303	23	SMCO60323
4	SMCO60304	24	SMCO60324
5	SMCO60305	25	SMCO60325
6	SMCO60306	26	SMCO60326
7	SMCO60307	27	SMCO60327
8	SMCO60308	28	SMCO60328
9	SMCO60309	29	SMCO60329
10	SMCO60310	30	SMCO60330
11	SMCO60311	31	SMCO60331
12	SMCO60312	32	SMCO60332
13	SMCO60313	33	SMCO60333
14	SMCO60314	34	SMCO60334
15	SMCO60315	35	SMCO60335
16	SMCO60316	36	SMCO60336
17	SMCO60317	37	SMCO60337
18	SMCO60318	38	SMCO60338
19	SMCO60319	39	SMCO60339
20	SMCO60320	40	SMCO60340

• 12 per pack



For MEGACUT details,
See Page J-3.

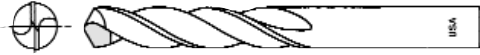


CARBIDE TIPPED SCREW MACHINE DRILLS

HIGH SPEED STEEL BODY • RIGHT HAND SPIRAL

HEAVY DUTY
118° POINT
BRIGHT FINISH

Carbide resists abrasion and retains hardness and edge sharpness at very high temperatures. Designed for production drilling of abrasive materials such as cast iron, non-ferrous metals, hard rubber and plastic. Not recommended for use in steel.



NEW

FRACTIONAL SIZES

Inch Dim.

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
1/8	7/8	1-7/8	TSM50205
9/64	1	2-1/16	TSM50206
5/32	1	2-1/16	TSM50207
11/64	1-1/8	2-3/16	TSM50208
3/16	1-1/8	2-3/16	TSM50209
13/64	1-1/4	2-3/8	TSM50210
7/32	1-1/4	2-3/8	TSM50211
15/64	1-3/8	2-1/2	TSM50212
1/4	1-3/8	2-1/2	TSM50213
17/64	1-1/2	2-11/16	TSM50214
9/32	1-1/2	2-11/16	TSM50215
19/64	1-5/8	2-13/16	TSM50216
5/16	1-5/8	2-13/16	TSM50217
21/64	1-11/16	3	TSM50218
11/32	1-11/16	3	TSM50219
23/64	1-13/16	3-1/8	TSM50220
3/8	1-13/16	3-1/8	TSM50221
25/64	1-15/16	3-5/16	TSM50222
13/32	1-15/16	3-5/16	TSM50223
27/64	2-1/16	3-7/16	TSM50224
7/16	2-1/16	3-7/16	TSM50225
29/64	2-1/8	3-5/8	TSM50226
15/32	2-1/8	3-5/8	TSM50227

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
31/64	2-1/4	3-3/4	TSM50228
1/2	2-1/4	3-3/4	TSM50229
17/32	2-3/8	3-7/8	TSM50231
9/16	2-1/2	4	TSM50233
19/32	2-5/8	4-1/8	TSM50235
5/8	2-3/4	4-1/4	TSM50237
21/32	2-7/8	4-1/2	TSM50239
11/16	2-7/8	4-5/8	TSM50241
23/32	3	4-3/4	TSM50243
3/4	3-1/8	5	TSM50245
25/32	3-1/4	5-1/8	TSM50247
13/16	3-3/8	5-1/4	TSM50249
27/32	3-1/2	5-3/8	TSM50251
7/8	3-1/2	5-1/2	TSM50253
29/32	3-5/8	5-5/8	TSM50255
15/16	3-3/4	5-3/4	TSM50257
31/32	3-7/8	5-7/8	TSM50259
1	4	6	TSM50261
1-1/16	4	6-1/4	TSM50262
1-1/8	4	6-3/8	TSM50263
1-3/16	4-1/4	6-5/8	TSM50264
1-1/4	4-3/8	6-3/4	TSM50265

• 1/8" - 1/2", 6 per pack
 17/32" - 1-1/4", 1 per tube

Inch Dim.

LETTER SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
D	1-3/8	2-1/2	TSM60404
F	1-1/2	2-11/16	TSM60406
G	1-1/2	2-11/16	TSM60407
H	1-1/2	2-11/16	TSM60408
I	1-1/2	2-11/16	TSM60409
O	1-5/8	2-13/16	TSM60415
Q	1-11/16	3	TSM60417
R	1-11/16	3	TSM60418
U	1-13/16	3-1/8	TSM60421
W	1-15/16	3-5/16	TSM60423
X	1-15/16	3-5/16	TSM60424

• 6 per pack

Inch Dim.

SWG NUMBER SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	ALFA USA STOCK #
1	1-3/8	2-1/2	TSM60301
3	1-1/4	2-3/8	TSM60303
7	1-1/4	2-3/8	TSM60307

• 12 per pack

Drills over 1/2" diameter have straight cylindrical shanks.



SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

1/4" HEX SHANK DRILLS 118° POINT & 135° SPLIT POINT

- High speed steel quickly penetrates wood, metal and plastic.
- 1/4" Hex shank works in all cordless power screwdrivers as well as in cordless and conventional drills, and most common chuck adapters.

Expanded Offering!

Expanded Offering!

Inch Dim.

118° REGULAR POINT

DRILL DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
			BULK	CARD
1/16	3/4	2-1/4	HSD51021	HSD51021C
5/64	7/8	2-3/8	HSD51021A	HSD51021AC
3/32	1	2-1/2	HSD51022	HSD51022C
7/64	1-1/16	2-5/8	HSD51024	HSD51024C
1/8	1-1/4	2-3/4	HSD51025	HSD51025C
9/64	1-3/8	2-7/8	HSD51026	HSD51026C
5/32	1-3/8	3	HSD51027	HSD51027C
11/64	1-5/8	3	HSD51028	HSD51028C
3/16	1-5/8	3-1/8	HSD51029	HSD51029C
13/64	1-3/4	3-1/4	HSD51030	HSD51030C
7/32	1-7/8	3-3/8	HSD51031	HSD51031C
15/64	2	3-1/2	HSD51032	HSD51032C
1/4	2-1/8	3-5/8	HSD51033	HSD51033C

• Bulk 12 per envelope • Card 1 per card

Inch Dim.

135° SPLIT POINT

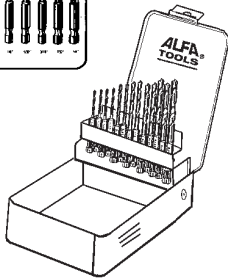
DRILL DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
			BULK	CARD
1/16	3/4	2-1/4	HSD51071	HSD51071C
5/64	7/8	2-3/8	HSD51071A	HSD51071AC
3/32	1	2-1/2	HSD51072	HSD51072C
7/64	1-1/16	2-5/8	HSD51072A	HSD51072AC
1/8	1-1/4	2-3/4	HSD51073	HSD51073C
9/64	1-3/8	2-7/8	HSD51073A	HSD51073AC
5/32	1-3/8	3	HSD51074	HSD51074C
11/64	1-5/8	3	HSD51074A	HSD51074AC
3/16	1-5/8	3-1/8	HSD51075	HSD51075C
13/64	1-3/4	3-1/4	HSD51075A	HSD51075AC
7/32	1-7/8	3-3/8	HSD51076	HSD51076C
15/64	2	3-1/2	HSD51076A	HSD51076AC
1/4	2-1/8	3-5/8	HSD51077	HSD51077C

• Bulk 12 per envelope • Card 1 per card



A

Hex Shank Drills / Pilot Drills



1/4" HEX SHANK DRILL SETS

Expanded Offering!

SET QTY.	SIZE RANGE	STOCK #
ON A HANG-UP CARD		
7 Pc.	118° Point set includes sizes: 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"	HSD51042
7 Pc.	135° Split Point set includes sizes: 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"	HSD51081

SET QTY.	SIZE RANGE	STOCK #
IN STEEL INDEX		
13 Pc.	118° Point set includes sizes: 1/16" - 1/4" by 64ths	HSD51082
13 Pc.	135° Split Point set includes sizes: 1/16" - 1/4" by 64ths	HSD51083

See page A-72 for Monolock™ Quick Change Chuck Information

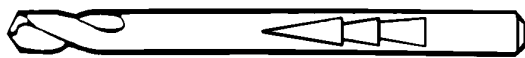
PILOT DRILLS

HIGH SPEED STEEL AND CARBIDE TIPPED

1/4" PILOT DRILLS FOR USE WITH HOLE SAW ARBORS

- 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 and metals.

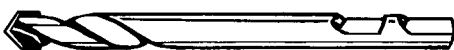
Expanded Offering!



PD61801



PD61802



PD61803

Inch Dim.

DESCRIPTION	DIA.	OVERALL LENGTH	STOCK #	
			BULK	CARD
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



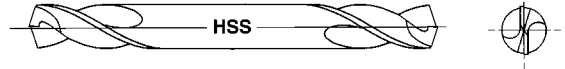
SHEET METAL BODY DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

**HEAVY DUTY
135° SPLIT POINT
BRIGHT, BLACK OXIDE
OR TIN COATED**

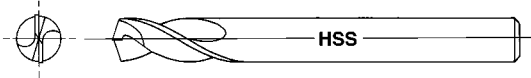
- Used for drilling truck and auto bodies, or any thin sheet metal and aluminum.
- Sturdy construction with 135° self-centering point for ease of penetration.

Expanded Offering!



A

Sheet Metal, Fishtail, Spot Weld Drills



Inch Dimensions

SINGLE END

DRILL SIZE	STOCK #		
	BRIGHT FINISH	BLACK OXIDE	TIN COATED
7/64	SH50204SB	SH50204S	SH50204STN
1/8	SH50205SB	SH50205S	SH50205STN
9/64	SH50206SB	SH50206S	SH50206STN
5/32	SH50207SB	SH50207S	SH50207STN
3/16	SH50209SB	SH50209S	SH50209STN
13/64	SH50210SB	SH50210S	SH50210STN
7/32	SH50211SB	SH50211S	SH50211STN
1/4	SH50213SB	SH50213S	SH50213STN
#1	SH60301SB	SH60301S	SH60301STN
#11	SH60311SB	SH60311S	SH60311STN
#20	SH60320SB	SH60320S	SH60320STN
#30	SH60330SB	SH60330S	SH60330STN

• 12 per pack

Inch Dimensions

DOUBLE END

DRILL SIZE	STOCK #		
	BRIGHT FINISH	BLACK OXIDE	TIN COATED
7/64	SH50204DB	SH50204D	SH50204DTN
1/8	SH50205DB	SH50205D	SH50205DTN
9/64	SH50206DB	SH50206D	SH50206DTN
5/32	SH50207DB	SH50207D	SH50207DTN
3/16	SH50209DB	SH50209D	SH50209DTN
13/64	SH50210DB	SH50210D	SH50210DTN
7/32	SH50211DB	SH50211D	SH50211DTN
1/4	SH50213DB	SH50213D	SH50213DTN
#1	SH60301DB	SH60301D	SH60301DTN
#10	SH60310DB	SH60310D	SH60310DTN
#11	SH60311DB	SH60311D	SH60311DTN
#20	SH60320DB	SH60320D	SH60320DTN
#21	SH60321DB	SH60321D	SH60321DTN
#30	SH60330DB	SH60330D	SH60330DTN
#40	SH60340DB	SH60340D	SH60340DTN

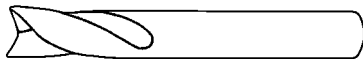
• 12 per pack

1/8" Double End Drills – 72 Pcs. / Hang-up Tube
STOCK # BRIGHT FINISH SH50214DB
BLACK OXIDE FINISH SH50214D

FISHTAIL POINT DRILLS

SUPER HIGH SPEED STEEL

**FOR BURR-FREE HOLES
3/4" FLUTE LENGTH
3" OVERALL LENGTH
BLACK OXIDE FINISH**



- Fishtail point drills are used to drill holes on thin material where the ratio of hole size to material thickness is very large.
- A guide bushing is required; set close to the material being drilled to center the drill point.

Inch Dimensions

SIZE	STOCK #	SIZE	STOCK #
7/64	FT74401	5/16	FT74412
1/8	FT74402	11/32	FT74413
9/64	FT74403	3/8	FT74414
5/32	FT74404	13/32	FT74415
3/16	FT74405	27/64	FT74416
7/32	FT74407	7/16	FT74417
1/4	FT74409	1/2	FT74418
17/64	FT74410	#30	FT74419
9/32	FT74411	F	FT74421

• 7/64" to 5/16", 12 per pack
11/32" to 1/2", 6 per pack

• #30 & F, 12 per pack



SPOT WELD DRILLS

SUPER HIGH SPEED STEEL

**SPUR POINT
3" OVERALL LENGTH
BLACK OXIDE FINISH**

NEW



- These drills are used for fast, accurate removal of standard spot welds.
- The pilot centering point ensures precision drilling without the use of a guide bushing.
- Twin cutting spurs provide burr free holes.

SIZE	STOCK #
8mm x 3" OAL	SWC8H
10mm x 3" OAL	SWC10H

• 1 per pack



DRILLS FOR PLASTICS - ACRYLICS

SPECIAL TOOL STEEL

NEW

60° PRECISION POINT
BRIGHT FINISH



Inch Dim.

DRILL SIZE	SHANK DIA.	FLUTE LENGTH	OAL	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	2-5/8	3-1/2	PD70510
1/4	1/4	2-3/4	4	PD70514
5/16	5/16	3-1/16	4-1/2	PD70520
3/8	3/8	3-5/8	5	PD70524
7/16	7/16	4-1/16	5-1/2	PD70528
1/2	1/2	4-1/2	6	PD70532

• 1/8 - 5/16, 12 per envelope
3/8 - 1/2, 6 per envelope

- 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.

A

Special Application Drills

SPOTTING & CENTERING DRILLS

SUPER HIGH SPEED STEEL

90° & 118° POINT ANGLE
BRIGHT FINISH



NEW

Inch Dim.

DRILL SIZE	FLUTE LENGTH	OAL	90°	118°
			STOCK #	
1/8	3/16	1-1/4	SCD52605	SCD52705
3/16	1	1-1/2	SCD52609	SCD52709
1/4	1	1-1/2	SCD52612	SCD52712
5/16	1	1-1/2	SCD52614	SCD52714
3/8	1	2	SCD52615	SCD52715
7/16	1	2	SCD52616	SCD52716

Used to locate the hole position for a larger drill. With short flutes, 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.

NEW

Inch Dim.

DRILL SIZE	FLUTE LENGTH	OAL	90°	118°
			STOCK #	
1/2	1	2	SCD52617	SCD52717
9/16	1	2	SCD52618	SCD52718
5/8	1-1/8	2-1/4	SCD52619	SCD52719
3/4	1-1/8	2-1/4	SCD52620	SCD52720
7/8	1-1/4	2-1/2	SCD52621	SCD52721
1	1-1/4	2-1/2	SCD52622	SCD52722

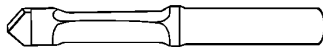
• Up to 5/16" dia, 12 per envelope
3/8" - 1/2" dia, 6 per envelope
Above 1/2", individually tubed

PANEL ROUTER BITS

SUPER HIGH SPEED STEEL

STRAIGHT EDGE
STRAIGHT PILOT POINT

NEW



- These straight flute tools with boring points and pilots are the workhorse of the mobile home, modular home & RV industries.
- Used on wood panels, vinyl coated panels, wall board and aluminum layered materials.

Inch Dim.

DRILL SIZE	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #
1/4	1/4	3/4	2-3/4	PR1800
3/8	3/8	7/8	2-7/8	PR1802
1/2	1/2	1	3-1/2	PR1803



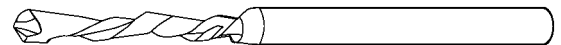
• 1 per tube / box

DRYWALL ROUTER BITS

SUPER HIGH SPEED STEEL

TWO FLUTE
FAST CUTTING

NEW



- These spiral flute tools are designed to make cut outs in drywall.
- Used in manufactured housing and on site construction.

Inch Dim.

DRILL SIZE	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #
1/8	1/8	7/8	2-3/8	DWR2011
3/16	1/4	1	3-1/4	DWR2010

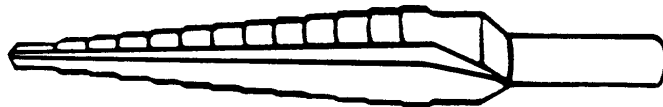
• 1 per tube / box

ProBit™ STEP DRILLS

SUPER HIGH SPEED STEEL • PROFESSIONAL QUALITY

Expanded Offering!

2 FLUTES
FRACTIONAL
MULTI-STEP SIZES
BRIGHT FINISH
OR TIN COATED



A

ProBit™ Step Drills

- 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 are resharpenable.

ProBits™ patented design offers great convenience, and quality; making them especially very popular in the professional/construction industry. ProBits are constructed of high speed steel and are available in two finishes – Regular bright finish or Titanium Nitride (TiN) coated gold finish.

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

The 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.

SCHEMATIC CONFIGURATION	STYLE	NO. OF STEPS	SIZE RANGE	SHANK SIZE	OAL	BRIGHT FINISH		TiN COATED	
						STOCK #		STOCK #	
						TUBED	CARD	TUBED	CARD
	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 tube or card

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

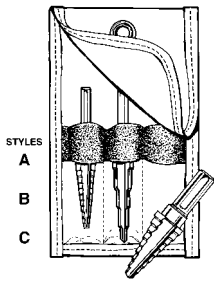
**For hole enlarging, require 3/4" or larger pilot holes.

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

NEW

ProBit™ STEP DRILL SETS

Provides easy storage in the workplace.



MBS3

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



MBS13



MBS16

ProBit™ STEP DRILLS – Cont.

SUPER HIGH SPEED STEEL • PROFESSIONAL QUALITY
(Patent #5466100)



1/4" HEX POWER SHANK
2 FLUTES
BRIGHT FINISH
OR TIN COATED

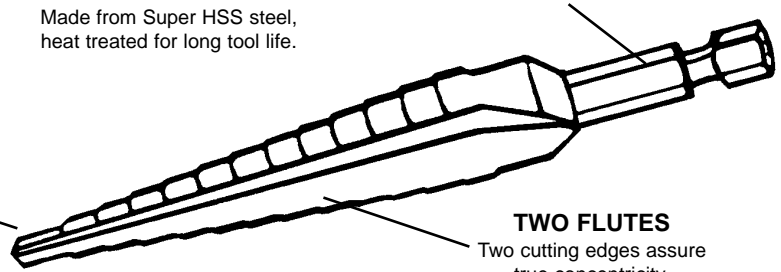
Made from Super HSS steel,
heat treated for long tool life.

1/4" HEX POWER SHANK

For instant loading into
quick change adapter.

SELF STARTING TIP

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



TWO FLUTES

Two cutting edges assure
true concentricity.

STYLE	NO. OF STEPS	SIZE RANGE	SHANK SIZE	OAL	STOCK #		STOCK #	
					BRIGHT FINISH		TIN COATED	
					TUBED	CARDED	TUBED	CARDED
AH	13	1/8" - 1/2"	1/4" Hex	3"	MB52509	MB52509C	MB52509TN	MB52509TNC
BH	6	3/16" - 1/2"	1/4" Hex	3-1/4"	MB52510	MB52510C	MB52510TN	MB52510TNC

• 1 per tube or card



NEW

HEX SHANK ADAPTORS

Converts Round Shank Bit into a Quick Change Bit.

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



NEW

6" ProBit™ 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	VB1	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

ProBit 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



A

ProBit™ Step Drills

AIRCRAFT EXTENSION DRILLS

SUPER HIGH SPEED STEEL • NAS 907, TYPE B SPECIFICATIONS

6" OVERALL LENGTH
135° SPLIT POINT
BLACK OXIDE FINISH

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



Aircraft Extension Drills

Inch
Dimensions

FRACTIONAL SIZES

DRILL SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
			ENVELOPED	POUCHED
*3/64	3/4	6	AE60600	AE60600P
1/16	7/8	6	AE60601	AE60601P
5/64	1	6	AE60602	AE60602P
3/32	1-1/4	6	AE60603	AE60603P
7/64	1-1/2	6	AE60604	AE60604P
1/8	1-5/8	6	AE60605	AE60605P
9/64	1-3/4	6	AE60606	AE60606P
5/32	2	6	AE60607	AE60607P
11/64	2-1/8	6	AE60608	AE60608P
3/16	2-5/16	6	AE60609	AE60609P
13/64	2-7/16	6	AE60610	AE60610P
7/32	2-1/2	6	AE60611	AE60611P
15/64	2-5/8	6	AE60612	AE60612P
1/4	2-3/4	6	AE60613	AE60613P
17/64	2-7/8	6	AE60614	AE60614P
9/32	2-15/16	6	AE60615	AE60615P
19/64	3-1/16	6	AE60616	AE60616P
5/16	3-3/16	6	AE60617	AE60617P
21/64	3-5/16	6	AE60618	AE60618P
11/32	3-7/16	6	AE60619	AE60619P
23/64	3-1/2	6	AE60620	AE60620P
3/8	3-5/8	6	AE60621	AE60621P
25/64	3-3/4	6	AE60622	AE60622P
13/32	3-7/8	6	AE60623	AE60623P
27/64	3-15/16	6	AE60624	AE60624P
7/16	4-1/16	6	AE60625	AE60625P
29/64	4-3/16	6	AE60626	AE60626P
15/32	4-5/16	6	AE60627	AE60627P
31/64	4-3/8	6	AE60628	AE60628P
1/2	4-1/2	6	AE60629	AE60629P
SWG NUMBER SIZES			Expanded Offerings!	
1	2-5/8	6	AE60641	-
2	2-5/8	6	AE60642	-
3	2-1/2	6	AE60643	-
4	2-1/2	6	AE60644	-
5	2-1/2	6	AE60645	-
6	2-1/2	6	AE60646	-
7	2-7/16	6	AE60647	-
8	2-7/16	6	AE60648	-
9	2-7/16	6	AE60649	-
10	2-7/16	6	AE60650	-
11	2-5/16	6	AE60651	-
12	2-5/16	6	AE60652	-
13	2-5/16	6	AE60653	-
14	2-3/16	6	AE60654	-
15	2-3/16	6	AE60655	-
16	2-3/16	6	AE60656	-
17	2-3/16	6	AE60657	-
18	2-1/8	6	AE60658	-

• Bulk 3/64" to 5/16", 12 per envelope
 21/64" to 1/2", 6 per envelope
 • Pouch 1 per pouch

* Not split point

Inch
Dimensions

SWG NUMBER SIZES – Cont.

DRILL SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
			ENVELOPED	POUCHED
19	2-1/8	6	AE60659	-
20	2-1/8	6	AE60660	-
21	2-1/8	6	AE60661	-
22	2	6	AE60662	-
23	2	6	AE60663	-
24	2	6	AE60664	-
25	1-7/8	6	AE60665	-
26	1-7/8	6	AE60666	-
27	1-7/8	6	AE60667	-
28	1-3/4	6	AE60668	-
29	1-3/4	6	AE60669	-
30	1-5/8	6	AE60670	-
31	1-5/8	6	AE60671	-
32	1-5/8	6	AE60672	-
33	1-1/2	6	AE60673	-
34	1-1/2	6	AE60674	-
35	1-1/2	6	AE60675	-
36	1-7/16	6	AE60676	-
37	1-7/16	6	AE60677	-
38	1-7/16	6	AE60678	-
39	1-3/8	6	AE60679	-
40	1-3/8	6	AE60680	-
41	1-3/8	6	AE60681	-
42	1-1/4	6	AE60682	-
43	1-1/4	6	AE60683	-
44	1-1/8	6	AE60684	-
45	1-1/8	6	AE60685A	-
46	1-1/8	6	AE60686A	-
47	1	6	AE60687A	-
48	1	6	AE60688A	-
49	1	6	AE60689A	-
50	1	6	AE60690A	-
51	1	6	AE60691	-
52	7/8	6	AE60692	-
*53	7/8	6	AE60693	-
*54	7/8	6	AE60694	-
*55	7/8	6	AE60695	-
*56	3/4	6	AE60696	-
*57	3/4	6	AE60697	-
*58	11/16	6	AE60698	-
*59	11/16	6	AE60699	-
*60	11/16	6	AE60700	-
LETTER SIZES				
A	2-5/8	6	AE60685	-
B	2-3/4	6	AE60686	-
C	2-3/4	6	AE60687	-
D	2-3/4	6	AE60688	-
E	2-3/4	6	AE60689	-
F	2-7/8	6	AE60690	-

• #1 - #60, 12 per envelope
 • A to F, 6 per envelope

* Not split point

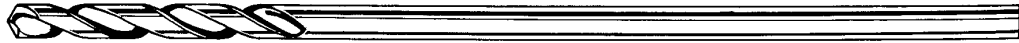


AIRCRAFT EXTENSION DRILLS - Cont.

SUPER HIGH SPEED STEEL • NAS 907, TYPE B SPECIFICATIONS

12" OVERALL LENGTH
135° SPLIT POINT
BLACK OXIDE FINISH

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



Inch
Dimensions

FRACTIONAL SIZES

DRILL SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
			ENVELOPED	POUCHED
*3/64	3/4	12	AE60700A	-
1/16	7/8	12	AE60701	AE60701P
5/64	1	12	AE60702	AE60702P
3/32	1-1/4	12	AE60703	AE60703P
7/64	1-1/2	12	AE60704	AE60704P
1/8	1-5/8	12	AE60705	AE60705P
9/64	1-3/4	12	AE60706	AE60706P
5/32	2	12	AE60707	AE60707P
11/64	2-1/8	12	AE60708	AE60708P
3/16	2-5/16	12	AE60709	AE60709P
13/64	2-7/16	12	AE60710	AE60710P
7/32	2-1/2	12	AE60711	AE60711P
15/64	2-5/8	12	AE60712	AE60712P
1/4	2-3/4	12	AE60713	AE60713P
17/64	2-7/8	12	AE60714	AE60714P
9/32	2-15/16	12	AE60715	AE60715P
19/64	3-1/16	12	AE60716	AE60716P
5/16	3-3/16	12	AE60717	AE60717P
21/64	3-5/16	12	AE60718	AE60718P
11/32	3-7/16	12	AE60719	AE60719P
23/64	3-1/2	12	AE60720	AE60720P
3/8	3-5/8	12	AE60721	AE60721P
25/64	3-3/4	12	AE60722	AE60722P
13/32	3-7/8	12	AE60723	AE60723P
27/64	3-15/16	12	AE60724	AE60724P
7/16	4-1/16	12	AE60725	AE60725P
29/64	4-3/16	12	AE60726	AE60726P
15/32	4-5/16	12	AE60727	AE60727P
31/64	4-3/8	12	AE60728	AE60728P
1/2	4-1/2	12	AE60729	AE60729P

SWG NUMBER SIZES

Expanded Offering!

1	2-5/8	12	AE60741	-
2	2-5/8	12	AE60742	-
3	2-1/2	12	AE60743	-
4	2-1/2	12	AE60744	-
5	2-1/2	12	AE60745	-
6	2-1/2	12	AE60746	-
7	2-7/16	12	AE60747	-
8	2-7/16	12	AE60748	-
9	2-7/16	12	AE60749	-
10	2-7/16	12	AE60750	-
11	2-5/16	12	AE60751	-
12	2-5/16	12	AE60752	-
13	2-5/16	12	AE60753	-
14	2-3/16	12	AE60754	-
15	2-3/16	12	AE60755	-
16	2-3/16	12	AE60756	-
17	2-3/16	12	AE60757	-
18	2-1/8	12	AE60758	-

- Bulk 3/64" to 5/16", 6 per envelope
21/64" to 1/2", 3 per envelope
- Pouch 1 per pouch

* Not split point

Inch
Dimensions

SWG NUMBER SIZES - Cont.

DRILL SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
			ENVELOPED	POUCHED
19	2-1/8	12	AE60759	-
20	2-1/8	12	AE60760	-
21	2-1/8	12	AE60761	-
22	2	12	AE60762	-
23	2	12	AE60763	-
24	2	12	AE60764	-
25	1-7/8	12	AE60765	-
26	1-7/8	12	AE60766	-
27	1-7/8	12	AE60767	-
28	1-3/4	12	AE60768	-
29	1-3/4	12	AE60769	-
30	1-5/8	12	AE60770	-
31	1-5/8	12	AE60771	-
32	1-5/8	12	AE60772	-
33	1-1/2	12	AE60773	-
34	1-1/2	12	AE60774	-
35	1-1/2	12	AE60775	-
36	1-7/16	12	AE60776	-
37	1-7/16	12	AE60777	-
38	1-7/16	12	AE60778	-
39	1-3/8	12	AE60779	-
40	1-3/8	12	AE60780	-
41	1-3/8	12	AE60781	-
42	1-1/4	12	AE60782	-
43	1-1/4	12	AE60783	-
44	1-1/8	12	AE60784	-
45	1-1/8	12	AE60785	-
46	1-1/8	12	AE60786A	-
47	1	12	AE60787A	-
48	1	12	AE60788A	-
49	1	12	AE60789A	-
50	1	12	AE60790A	-
51	1	12	AE60791A	-
52	7/8	12	AE60792	-
*53	7/8	12	AE60793	-
*54	7/8	12	AE60794	-
*55	7/8	12	AE60795	-
*56	3/4	12	AE60796	-
*57	3/4	12	AE60797	-
*58	11/16	12	AE60798	-
*59	11/16	12	AE60799	-
*60	11/16	12	AE60800	-

LETTER SIZES

A	2-5/8	12	AE60786	-
B	2-3/4	12	AE60787	-
C	2-3/4	12	AE60788	-
D	2-3/4	12	AE60789	-
E	2-3/4	12	AE60790	-
F	2-7/8	12	AE60791	-

- #1 - #60, 6 per envelope
- A to F, 6 per envelope



A

Aircraft Extension Drills

COBALT AIRCRAFT EXTENSION DRILLS

M-42 COBALT HIGH SPEED STEEL • NAS 907, TYPE J SPECIFICATIONS

6" OR 12" OVERALL LENGTH
135° SPLIT POINT
STRAW GOLD FINISH

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 heat.



Cobalt Aircraft Extension Drills

Inch
Dimensions

6" OAL FRACTIONAL SIZES

DRILL SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
			ENVELOPED	POUCHED
1/16	7/8	6	AECO60601	AECO60601P
5/64	1	6	AECO60602	AECO60602P
3/32	1-1/4	6	AECO60603	AECO60603P
7/64	1-1/2	6	AECO60604	AECO60604P
1/8	1-5/8	6	AECO60605	AECO60605P
9/64	1-3/4	6	AECO60606	AECO60606P
5/32	2	6	AECO60607	AECO60607P
11/64	2-1/8	6	AECO60608	AECO60608P
3/16	2-5/16	6	AECO60609	AECO60609P
13/64	2-7/16	6	AECO60610	AECO60610P
7/32	2-1/2	6	AECO60611	AECO60611P
15/64	2-5/8	6	AECO60612	AECO60612P
1/4	2-3/4	6	AECO60613	AECO60613P

SWG NUMBER SIZES

1	2-5/8	6	AECO60631	-
2	2-5/8	6	AECO60632	-
3	2-1/2	6	AECO60633	-
4	2-1/2	6	AECO60634	-
5	2-1/2	6	AECO60635	-
6	2-1/2	6	AECO60636	-
7	2-7/16	6	AECO60637	-
8	2-7/16	6	AECO60638	-
9	2-7/16	6	AECO60639	-
10	2-7/16	6	AECO60640	-
11	2-5/16	6	AECO60641	-
12	2-5/16	6	AECO60642	-
13	2-5/16	6	AECO60643	-
14	2-3/16	6	AECO60644	-
15	2-3/16	6	AECO60645	-
16	2-3/16	6	AECO60646	-
17	2-3/16	6	AECO60647	-
18	2-1/8	6	AECO60648	-
19	2-1/8	6	AECO60649	-
20	2-1/8	6	AECO60650	-
21	2-1/8	6	AECO60651	-
22	2	6	AECO60652	-
23	2	6	AECO60653	-
24	2	6	AECO60654	-
25	1-7/8	6	AECO60655	-
26	1-7/8	6	AECO60656	-
27	1-7/8	6	AECO60657	-
28	1-3/4	6	AECO60658	-
29	1-3/4	6	AECO60659	-
30	1-5/8	6	AECO60660	-
31	1-5/8	6	AECO60661	-
32	1-5/8	6	AECO60662	-
33	1-1/2	6	AECO60663	-
34	1-1/2	6	AECO60664	-
35	1-1/2	6	AECO60665	-
36	1-7/16	6	AECO60666	-
37	1-7/16	6	AECO60667	-
38	1-7/16	6	AECO60668	-
39	1-3/8	6	AECO60669	-
40	1-3/8	6	AECO60670	-

• 1/16" to 1/4", 12 per envelope
• #1 - #40, 6 per envelope

• Pouch 1 per pouch

Inch
Dimensions

12" OAL FRACTIONAL SIZES

DRILL SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
			ENVELOPED	POUCHED
1/16	7/8	12	AECO60701	AECO60701P
5/64	1	12	AECO60702	AECO60702P
3/32	1-1/4	12	AECO60703	AECO60703P
7/64	1-1/2	12	AECO60704	AECO60704P
1/8	1-5/8	12	AECO60705	AECO60705P
9/64	1-3/4	12	AECO60706	AECO60706P
5/32	2	12	AECO60707	AECO60707P
11/64	2-1/8	12	AECO60708	AECO60708P
3/16	2-5/16	12	AECO60709	AECO60709P
13/64	2-7/16	12	AECO60710	AECO60710P
7/32	2-1/2	12	AECO60711	AECO60711P
15/64	2-5/8	12	AECO60712	AECO60712P
1/4	2-3/4	12	AECO60713	AECO60713P

SWG NUMBER SIZES

1	2-5/8	12	AECO60731	-
2	2-5/8	12	AECO60732	-
3	2-1/2	12	AECO60733	-
4	2-1/2	12	AECO60734	-
5	2-1/2	12	AECO60735	-
6	2-1/2	12	AECO60736	-
7	2-7/16	12	AECO60737	-
8	2-7/16	12	AECO60738	-
9	2-7/16	12	AECO60739	-
10	2-7/16	12	AECO60740	-
11	2-5/16	12	AECO60741	-
12	2-5/16	12	AECO60742	-
13	2-5/16	12	AECO60743	-
14	2-3/16	12	AECO60744	-
15	2-3/16	12	AECO60745	-
16	2-3/16	12	AECO60746	-
17	2-3/16	12	AECO60747	-
18	2-1/8	12	AECO60748	-
19	2-1/8	12	AECO60749	-
20	2-1/8	12	AECO60750	-
21	2-1/8	12	AECO60751	-
22	2	12	AECO60752	-
23	2	12	AECO60753	-
24	2	12	AECO60754	-
25	1-7/8	12	AECO60755	-
26	1-7/8	12	AECO60756	-
27	1-7/8	12	AECO60757	-
28	1-3/4	12	AECO60758	-
29	1-3/4	12	AECO60759	-
30	1-5/8	12	AECO60760	-
31	1-5/8	12	AECO60761	-
32	1-5/8	12	AECO60762	-
33	1-1/2	12	AECO60763	-
34	1-1/2	12	AECO60764	-
35	1-1/2	12	AECO60765	-
36	1-7/16	12	AECO60766	-
37	1-7/16	12	AECO60767	-
38	1-7/16	12	AECO60768	-
39	1-3/8	12	AECO60769	-
40	1-3/8	12	AECO60770	-

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

• Pouch 1 per pouch

EXTRA LONG DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

STRAIGHT SHANK
118° POINT
BLACK OXIDE FINISH

For general purpose drilling in deep hole applications where extra length of reach is required. 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.



Inch Dim. **8" LENGTH 5-1/2" FLUTE**

DRILL SIZE	FLUTE LENGTH	OAL	STOCK #	
			ENVELOPED	
1/8	5-1/2	8	LB60205	
9/64	5-1/2	8	LB60206	
5/32	5-1/2	8	LB60207	
11/64	5-1/2	8	LB60208	
3/16	5-1/2	8	LB60209	
13/64	5-1/2	8	LB60210	
7/32	5-1/2	8	LB60211	
15/64	5-1/2	8	LB60212	
1/4	5-1/2	8	LB60213	
17/64	5-1/2	8	LB60214	
9/32	5-1/2	8	LB60215	
19/64	5-1/2	8	LB60216	
5/16	5-1/2	8	LB60217	
21/64	5-1/2	8	LB60218	
11/32	5-1/2	8	LB60219	
23/64	5-1/2	8	LB60220	
3/8	5-1/2	8	LB60221	
25/64	5-1/2	8	LB60222	
13/32	5-1/2	8	LB60223	
27/64	5-1/2	8	LB60224	
7/16	5-1/2	8	LB60225	
29/64	5-1/2	8	LB60226	
15/32	5-1/2	8	LB60227	
31/64	5-1/2	8	LB60228	
1/2	5-1/2	8	LB60229	

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

Inch Dim. **12" LENGTH 9" FLUTE**

DRILL SIZE	FLUTE LENGTH	OAL	STOCK #	
			ENVELOPED	
1/8	9	12	LB60251	
5/32	9	12	LB60253	
3/16	9	12	LB60255	
7/32	9	12	LB60257	
1/4	9	12	LB60259	
9/32	9	12	LB60261	
5/16	9	12	LB60263	
11/32	9	12	LB60265	
3/8	9	12	LB60267	
13/32	9	12	LB60269	
7/16	9	12	LB60271	
15/32	9	12	LB60273	
1/2	9	12	LB60275	
9/16	9	12	LB60277	
5/8	9	12	LB60279	

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

Inch Dim. **15" LENGTH 11" FLUTE**

DRILL SIZE	FLUTE LENGTH	OAL	STOCK #	
			ENVELOPED	
3/16	11	15	LB60255A	
7/32	11	15	LB60257A	
1/4	11	15	LB60259A	
9/32	11	15	LB60261A	
5/16	11	15	LB60263A	
11/32	11	15	LB60265A	
3/8	11	15	LB60267A	
13/32	11	15	LB60269A	
7/16	11	15	LB60271A	
15/32	11	15	LB60273A	
1/2	11	15	LB60275A	
9/16	11	15	LB60277A	
5/8	11	15	LB60279A	
11/16	11	15	LB60280A	
3/4	11	15	LB60281A	
13/16	11	15	LB60283A	
7/8	11	15	LB60284A	
1	11	15	LB60285A	

• 15" OAL: 3/16" to 5/16", 6 per pack
11/32" to 1/2", 3 per pack
9/16" to 1", 1 per pack

Inch Dim. **18" LENGTH 13" FLUTE**

DRILL SIZE	FLUTE LENGTH	OAL	STOCK #	
			ENVELOPED	
1/4	13	18	LB60909	
9/32	13	18	LB60911	
5/16	13	18	LB60913	
11/32	13	18	LB60915	
3/8	13	18	LB60917	

• 18" OAL: 1/4" to 5/8", 1 per pack

DRILL SIZE	FLUTE LENGTH	OAL	STOCK #	
			ENVELOPED	
13/32	13	18	LB60919	
7/16	13	18	LB60921	
15/32	13	18	LB60923	
1/2	13	18	LB60925	
9/16	13	18	LB60927	
5/8	13	18	LB60929	

12" LONG DRILLS WITH 1/2" SHANK

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

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 where extra length for reach is required. 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.

Inch Dim. **12" LENGTH**

DRILL SIZE	FLUTE LENGTH	OAL	STOCK #	
			ENVELOPED	
*7/16	9	12	LB60940	
1/2	9	12	LB60941	
9/16	9	12	LB60942	
5/8	9	12	LB60943	
11/16	9	12	LB60944	

• 1 per tube

*Has 7/16" Shank

DRILL SIZE	FLUTE LENGTH	OAL	STOCK #	
			ENVELOPED	
3/4	9	12	LB60945	
13/16	9	12	LB60946	
7/8	9	12	LB60947	
1	9	12	LB60948	
1-1/16	9	12	LB60949	



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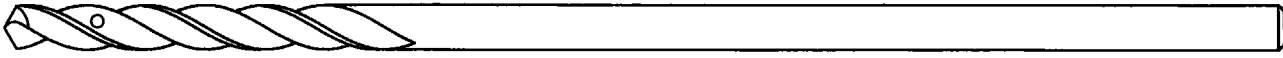
Extra Long Drills

BELL HANGER – FEELER BITS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

WITH FISH EYE HOLE
BRIGHT FINISH

- Fish eye hole near tip of flutes to aid in pulling wire after drilling.
- Suitable for burglar alarm, telephone, wire & cable installations.
- Tapered for quick chip clearance.



Available in 12", 18", 24", 30", and 42 overall lengths

Inch
Dimensions

DRILL SIZE	OAL	STOCK #
1/4	12	BH74500
5/16	12	BH74501
3/8	12	BH74502
1/2	12	BH74503
1/4	18	BH74504
5/16	18	BH74505
3/8	18	BH74506
1/2	18	BH74507

• 1 per pack

DRILL SIZE	OAL	STOCK #
1/4	24	BH74508
5/16	24	BH74509
3/8	24	BH74510
1/2	24	BH74511
1/4	30	BH74512
3/8	30	BH74513
1/2	30	BH74514
1/4	42	BH74515
3/8	42	BH74516
1/2	42	BH74517

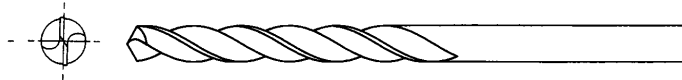
Taper Length Drills / Bell Hanger – Feeler Bits

TAPER LENGTH DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

STRAIGHT SHANK
118° STANDARD POINT

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.



Inch
Dim.

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OAL	STOCK #
1/16	1-3/4	3	TL50301
5/64	2	3-3/4	TL50302
3/32	2-1/4	4-1/4	TL50303
7/64	2-1/2	4-5/8	TL50304
1/8	2-3/4	5-1/8	TL50305
9/64	3	5-3/8	TL50306
5/32	3	5-3/8	TL50307
11/64	3-3/8	5-3/4	TL50308
3/16	3-3/8	5-3/4	TL50309
13/64	3-5/8	6	TL50310
7/32	3-5/8	6	TL50311
15/64	3-3/4	6-1/8	TL50312
1/4	3-3/4	6-1/8	TL50313
17/64	3-7/8	6-1/4	TL50314
9/32	3-7/8	6-1/4	TL50315
19/64	4	6-3/8	TL50316
5/16	4	6-3/8	TL50317
21/64	4-1/8	6-1/2	TL50318
11/32	4-1/8	6-1/2	TL50319
23/64	4-1/4	6-3/4	TL50320

SIZE	FLUTE LENGTH	OAL	STOCK #
3/8	4-1/4	6-3/4	TL50321
25/64	4-3/8	7	TL50322
13/32	4-3/8	7	TL50323
27/64	4-5/8	7-1/4	TL50324
7/16	4-5/8	7-1/4	TL50325
29/64	4-3/4	7-1/2	TL50326
15/32	4-3/4	7-1/2	TL50327
31/64	4-3/4	7-3/4	TL50328
1/2	4-3/4	7-3/4	TL50329
33/64	4-3/4	8	TL50330
17/32	4-3/4	8	TL50331
35/64	4-7/8	8-1/4	TL50332
9/16	4-7/8	8-1/4	TL50333
37/64	4-7/8	8-3/4	TL50334
19/32	4-7/8	8-3/4	TL50335
39/64	4-7/8	8-3/4	TL50336
5/8	4-7/8	8-3/4	TL50337
41/64	5-1/8	9	TL50338
21/32	5-1/8	9	TL50339
43/64	5-3/8	9-1/4	TL50340
11/16	5-3/8	9-1/4	TL50341

SIZE	FLUTE LENGTH	OAL	STOCK #
45/64	5-5/8	9-1/2	TL50342
23/32	5-5/8	9-1/2	TL50343
47/64	5-7/8	9-3/4	TL50344
3/4	5-7/8	9-3/4	TL50345
49/64	6	9-7/8	TL50346
25/32	6	9-7/8	TL50347
51/64	6-1/8	10	TL50348
13/16	6-1/8	10	TL50349
53/64	6-1/8	10	TL50350
27/32	6-1/8	10	TL50351
55/64	6-1/8	10	TL50352
7/8	6-1/8	10	TL50353
57/64	6-1/8	10	TL50354
29/32	6-1/8	10	TL50355
59/64	6-1/8	10-3/4	TL50356
15/16	6-1/8	10-3/4	TL50357
61/64	6-3/8	11	TL50358
31/32	6-3/8	11	TL50359
63/64	6-3/8	11	TL50360
1	6-3/8	11	TL50361

• 1/16" to 5/16", 12 per envelope
21/64" to 1/2", 6 per envelope
33/64" to 1", 1 per tube

Continued

TAPER LENGTH DRILLS – Cont.

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

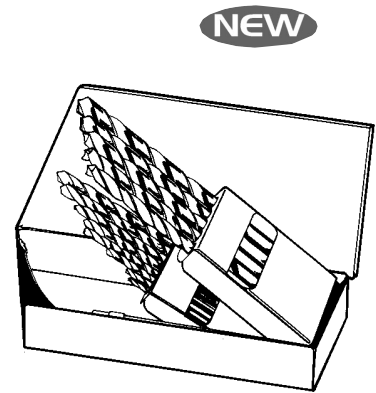
Inch Dim.

SWG NUMBER SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1	3-3/4	6-1/8	TL51301
2	3-3/4	6-1/8	TL51302
3	3-5/8	6	TL51303
4	3-5/8	6	TL51304
5	3-5/8	6	TL51305
6	3-5/8	6	TL51306
7	3-5/8	6	TL51307
8	3-5/8	6	TL51308
9	3-5/8	6	TL51309
10	3-5/8	6	TL51310
11	3-5/8	6	TL51311
12	3-5/8	6	TL51312
13	3-3/8	5-3/4	TL51313
14	3-3/8	5-3/4	TL51314
15	3-3/8	5-3/4	TL51315
16	3-3/8	5-3/4	TL51316
17	3-3/8	5-3/4	TL51317
18	3-3/8	5-3/4	TL51318
19	3-3/8	5-3/4	TL51319
20	3-3/8	5-3/4	TL51320
21	3-3/8	5-3/4	TL51321
22	3-3/8	5-3/4	TL51322
23	3	5-3/8	TL51323
24	3	5-3/8	TL51324
25	3	5-3/8	TL51325
26	3	5-3/8	TL51326
27	3	5-3/8	TL51327
28	3	5-3/8	TL51328
29	3	5-3/8	TL51329
30	3	5-3/8	TL51330

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
31	2-3/4	5-1/8	TL51331
32	2-3/4	5-1/8	TL51332
33	2-3/4	5-1/8	TL51333
34	2-3/4	5-1/8	TL51334
35	2-3/4	5-1/8	TL51335
36	2-1/2	4-5/8	TL51336
37	2-1/2	4-5/8	TL51337
38	2-1/2	4-5/8	TL51338
39	2-1/2	4-5/8	TL51339
40	2-1/2	4-5/8	TL51340
41	2-1/2	4-5/8	TL51341
42	2-1/4	4-1/4	TL51342
43	2-1/4	4-1/4	TL51343
44	2-1/4	4-1/4	TL51344
45	2-1/4	4-1/4	TL51345
46	2-1/4	4-1/4	TL51346
47	2-1/4	4-1/4	TL51347
48	2	3-3/4	TL51348
49	2	3-3/4	TL51349
50	2	3-3/4	TL51350
51	2	3-3/4	TL51351
52	2	3-3/4	TL51352
53	1-3/4	3	TL51353
54	1-3/4	3	TL51354
55	1-3/4	3	TL51355
56	1-1/8	2-1/4	TL51356
57	1-1/8	2-1/4	TL51357
58	1-1/8	2-1/4	TL51358
59	1-1/8	2-1/4	TL51359
60	1-1/8	2-1/4	TL51360

• 12 per envelope



TAPER LENGTH DRILL SETS IN METAL INDEX

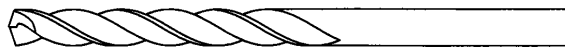
SET QTY.	SIZE RANGE	STOCK #
16 Pc.	33/64" - 3/4" by 64ths	TL50391
16 Pc.	49/64" - 1" by 64ths	TL50392
29 Pc.	1/16" - 1/2" by 64ths	TL50393

A
Taper Length Drills

COBALT TAPER LENGTH DRILLS

M42 COBALT • RIGHT HAND SPIRAL

HEAVY DUTY
STRAIGHT SHANK
135° SPLIT POINT



Made of heat resistant cobalt. Features heavy duty construction for drilling in tough alloy steels, forgings and castings.

Inch Dim.

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/16	1-3/4	3	TLCO50301
5/64	2	3-3/4	TLCO50302
3/32	2-1/4	4-1/4	TLCO50303
7/64	2-1/2	4-5/8	TLCO50304
1/8	2-3/4	5-1/8	TLCO50305
9/64	3	5-3/8	TLCO50306
5/32	3	5-3/8	TLCO50307
11/64	3-3/8	5-3/4	TLCO50308
3/16	3-3/8	5-3/4	TLCO50309
13/64	3-5/8	6	TLCO50310
7/32	3-5/8	6	TLCO50311
15/64	3-3/4	6-1/8	TLCO50312
1/4	3-3/4	6-1/8	TLCO50313
17/64	3-7/8	6-1/4	TLCO50314
9/32	3-7/8	6-1/4	TLCO50315

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

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
19/64	4	6-3/8	TLCO50316
5/16	4	6-3/8	TLCO50317
21/64	4-1/8	6-1/2	TLCO50318
11/32	4-1/8	6-1/2	TLCO50319
23/64	4-1/4	6-3/4	TLCO50320
3/8	4-1/4	6-3/4	TLCO50321
25/64	4-3/8	7	TLCO50322
13/32	4-3/8	7	TLCO50323
27/64	4-5/8	7-1/4	TLCO50324
7/16	4-5/8	7-1/4	TLCO50325
29/64	4-3/4	7-1/2	TLCO50326
15/32	4-3/4	7-1/2	TLCO50327
31/64	4-3/4	7-3/4	TLCO50328
1/2	4-3/4	7-3/4	TLCO50329
33/64	4-3/4	8	TLCO50330

• 33/64" to 3/4", 1 per tube
• Split point through 1/2"; notched point 33/64" to 3/4"

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
17/32	4-3/4	8	TLCO50331
35/64	4-7/8	8-1/4	TLCO50332
9/16	4-7/8	8-1/4	TLCO50333
37/64	4-7/8	8-3/4	TLCO50334
19/32	4-7/8	8-3/4	TLCO50335
39/64	4-7/8	8-3/4	TLCO50336
5/8	4-7/8	8-3/4	TLCO50337
41/64	5-1/8	9	TLCO50338
21/32	5-1/8	9	TLCO50339
43/64	5-3/8	9-1/4	TLCO50340
11/16	5-3/8	9-1/4	TLCO50341
45/64	5-5/8	9-1/2	TLCO50342
23/32	5-5/8	9-1/2	TLCO50343
47/64	5-7/8	9-3/4	TLCO50344
3/4	5-7/8	9-3/4	TLCO50345

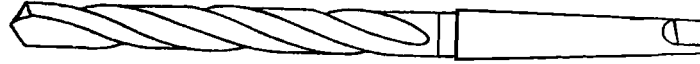


TAPER SHANK DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

STRAIGHT SHANK
118° POINT
BLACK OXIDE FINISH

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



Expanded Offering!

FRACTIONAL SIZES REGULAR TAPERS

Inch
Dimensions

SIZE	MT	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/4	1	2-7/8	6-1/8	TS49993
17/64	1	3	6-1/4	TS49994
9/32	1	3	6-1/4	TS49995
19/64	1	3-1/8	6-3/8	TS49996
5/16	1	3-1/8	6-3/8	TS49997
21/64	1	3-1/4	6-1/2	TS49998
11/32	1	3-1/4	6-1/2	TS49999
23/64	1	3-1/2	6-3/4	TS50000
3/8	1	3-1/2	6-3/4	TS50001
25/64	1	3-5/8	7	TS50002
13/32	1	3-5/8	7	TS50003
27/64	1	3-7/8	7-1/4	TS50004
7/16	1	3-7/8	7-1/4	TS50005
29/64	1	4-1/8	7-1/2	TS50006
15/32	1	4-1/8	7-1/2	TS50007
31/64	2	4-3/8	8-1/4	TS50008
1/2	2	4-3/8	8-1/4	TS50009
33/64	2	4-5/8	8-1/2	TS50010
17/32	2	4-5/8	8-1/2	TS50011
35/64	2	4-7/8	8-3/4	TS50012
9/16	2	4-7/8	8-3/4	TS50013
37/64	2	4-7/8	8-3/4	TS50014
19/32	2	4-7/8	8-3/4	TS50015
39/64	2	4-7/8	8-3/4	TS50016
5/8	2	4-7/8	8-3/4	TS50017
41/64	2	5-1/8	9	TS50018
21/32	2	5-1/8	9	TS50019
43/64	2	5-3/8	9-1/4	TS50020
11/16	2	5-3/8	9-1/4	TS50021
45/64	2	5-5/8	9-1/2	TS50022
23/32	2	5-5/8	9-1/2	TS50023
47/64	2	5-7/8	9-3/4	TS50024
3/4	2	5-7/8	9-3/4	TS50025
49/64	2	6	9-7/8	TS50026
25/32	2	6	9-7/8	TS50027
51/64	3	6-1/8	10-3/4	TS50028
13/16	3	6-1/8	10-3/4	TS50029
53/64	3	6-1/8	10-3/4	TS50030
27/32	3	6-1/8	10-3/4	TS50031
55/64	3	6-1/8	10-3/4	TS50032
7/8	3	6-1/8	10-3/4	TS50033
57/64	3	6-1/8	10-3/4	TS50034
29/32	3	6-1/8	10-3/4	TS50035
59/64	3	6-1/8	10-3/4	TS50036
15/16	3	6-1/8	10-3/4	TS50037
61/64	3	6-3/8	11	TS50038
31/32	3	6-3/8	11	TS50039
63/64	3	6-3/8	11	TS50040
1	3	6-3/8	11	TS50041

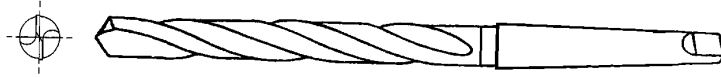
SIZE	MT	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1-1/64	3	6-1/2	11-1/8	TS50042
1-1/32	3	6-1/2	11-1/8	TS50043
1-3/64	3	6-5/8	11-1/4	TS50044
1-1/16	3	6-5/8	11-1/4	TS50045
1-5/64	4	6-7/8	12-1/2	TS50046
1-3/32	4	6-7/8	12-1/2	TS50047
1-7/64	4	7-1/8	12-3/4	TS50048
1-1/8	4	7-1/8	12-3/4	TS50049
1-9/64	4	7-1/4	12-7/8	TS50050
1-5/32	4	7-1/4	12-7/8	TS50051
1-11/64	4	7-3/8	13	TS50052
1-3/16	4	7-3/8	13	TS50053
1-13/64	4	7-1/2	13-1/8	TS50054
1-7/32	4	7-1/2	13-1/8	TS50055
1-15/64	4	7-7/8	13-1/2	TS50056
1-1/4	4	7-7/8	13-1/2	TS50057
1-17/64	4	8-1/2	14-1/8	TS50058
1-9/32	4	8-1/2	14-1/8	TS50059
1-19/64	4	8-5/8	14-1/4	TS50060
1-5/16	4	8-5/8	14-1/4	TS50061
1-21/64	4	8-3/4	14-3/8	TS50062
1-11/32	4	8-3/4	14-3/8	TS50063
1-23/64	4	8-7/8	14-1/2	TS50064
1-3/8	4	8-7/8	14-1/2	TS50065
1-25/64	4	9	14-5/8	TS50066
1-13/32	4	9	14-5/8	TS50067
1-27/64	4	9-1/8	14-3/4	TS50068
1-7/16	4	9-1/8	14-3/4	TS50069
1-29/64	4	9-1/4	14-7/8	TS50070
1-15/32	4	9-1/4	14-7/8	TS50071
1-31/64	4	9-3/8	15	TS50072
1-1/2	4	9-3/8	15	TS50073
1-17/32	5	9-3/8	16-3/8	TS50074
1-9/16	5	9-5/8	16-5/8	TS50075
1-19/32	5	9-7/8	16-7/8	TS50076
1-5/8	5	10	17	TS50077
1-21/32	5	10-1/8	17-1/8	TS50078
1-11/16	5	10-1/8	17-1/8	TS50079
1-23/32	5	10-1/8	17-1/8	TS50080
1-3/4	5	10-1/8	17-1/8	TS50081
1-25/32	5	10-1/8	17-1/8	TS50082
1-13/16	5	10-1/8	17-1/8	TS50083
1-27/32	5	10-1/8	17-1/8	TS50084
1-7/8	5	10-3/8	17-3/8	TS50085
1-29/32	5	10-3/8	17-3/8	TS50086
1-15/16	5	10-3/8	17-3/8	TS50087
1-31/32	5	10-3/8	17-3/8	TS50088
2	5	10-3/8	17-3/8	TS50089

• 1 per tube

TAPER SHANK DRILLS – Cont.

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

STRAIGHT SHANK
118° POINT
BLACK OXIDE FINISH



Expanded Offering!

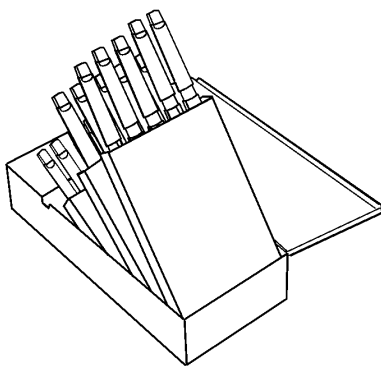
Inch Dimensions

FRACTIONAL SIZES
SMALLER / LARGER TAPERS

SIZE	MT	FLUTE LENGTH	OVERALL LENGTH	STOCK #
3/8	2	3-1/2	7-3/8	TS50001A
25/64	2	3-5/8	7-1/2	TS50002A
13/32	2	3-5/8	7-1/2	TS50003A
27/64	2	3-7/8	7-3/4	TS50004A
7/16	2	3-7/8	7-3/4	TS50005A
29/64	2	4-1/8	8	TS50006A
15/32	2	4-1/8	8	TS50007A
31/64	1	4-3/8	7-3/4	TS50008A
1/2	1	4-3/8	7-3/4	TS50009A
33/64	1	4-5/8	8	TS50010A
17/32	1	4-5/8	8	TS50011A
35/64	1	4-7/8	8-1/4	TS50012A
9/16	1	4-7/8	8-1/4	TS50013A
21/32	3	5-1/8	9-3/4	TS50019A
43/64	3	5-3/8	10	TS50020A
11/16	3	5-3/8	10	TS50021A
45/64	3	5-5/8	10-1/4	TS50022A
23/32	3	5-5/8	10-1/4	TS50023A
47/64	3	5-7/8	10-1/2	TS50024A
3/4	3	5-7/8	10-1/2	TS50025A
49/64	3	6	10-5/8	TS50026A
25/32	3	6	10-5/8	TS50027A
51/64	2	6-1/8	10	TS50028A
13/16	2	6-1/8	10	TS50029A
53/64	2	6-1/8	10	TS50030A
27/32	2	6-1/8	10	TS50031A

SIZE	MT	FLUTE LENGTH	OVERALL LENGTH	STOCK #
55/64	2	6-1/8	10	TS50032A
7/8	2	6-1/8	10	TS50033A
57/64	2	6-1/8	10	TS50034A
29/32	2	6-1/8	10	TS50035A
1	4	6-3/8	12	TS50041A
1	2	6-3/8	12	TS50041B
1-1/32	4	6-1/2	12-1/8	TS50043A
1-1/16	4	6-5/8	12-1/4	TS50045A
1-5/64	3	6-7/8	11-1/2	TS50046A
1-3/32	3	6-7/8	11-1/2	TS50047A
1-7/64	3	7-1/8	11-3/4	TS50048A
1-1/8	3	7-1/8	11-3/4	TS50049A
1-9/64	3	7-1/4	11-7/8	TS50050A
1-5/32	3	7-1/4	11-7/8	TS50051A
1-11/64	3	7-3/8	12	TS50052A
1-3/16	3	7-3/8	12	TS50053A
1-13/64	3	7-1/2	12-1/8	TS50054A
1-7/32	3	7-1/2	12-1/8	TS50055A
1-15/64	3	7-7/8	12-1/2	TS50056A
1-1/4	3	7-7/8	12-1/2	TS50057A
1-5/8	4	10	15-5/8	TS50077A
1-11/16	4	10-1/8	15-3/4	TS50079A
1-3/4	4	10-3/8	16-1/4	TS50081A
1-13/16	4	10-3/8	16-1/4	TS50083A
1-7/8	4	10-1/2	16-1/2	TS50085A
1-15/16	4	10-5/8	16-5/8	TS50087A
2	4	10-5/8	16-5/8	TS50089A

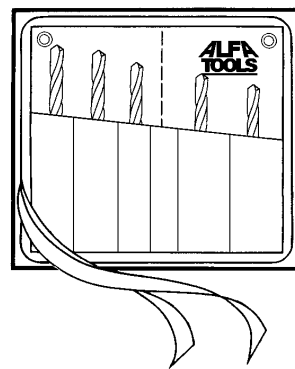
• 1 per tube



TAPER SHANK DRILL SETS
IN METAL CASE

SET QTY.	SIZE RANGE	STOCK #
16 Pc.	33/64" - 3/4" by 64ths	TS50098
16 Pc.	49/64" - 1" by 64ths	TS50099

NEW



TAPER SHANK DRILL SETS
IN HANDY ROLL

SET QTY.	SIZE RANGE	STOCK #
5 Pc.	1/2", 9/16", 5/8", 3/4", 1" each Morse #2	TS50097R



A

Taper Shank Drills

CORE DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

118° POINT
TAPER SHANK
BLACK OXIDE FINISH
3 FLUTE OR 4 FLUTE

Inch Dim.

3 FLUTE

DRILL SIZE	MT	FLUTE LENGTH	OAL	STOCK #
1/2	2	4-3/8	8-1/4	CD16001
17/32	2	4-5/8	8-1/2	CD16002
9/16	2	4-7/8	8-3/4	CD16003
19/32	2	4-7/8	8-3/4	CD16004
5/8	2	4-7/8	8-3/4	CD16005
21/32	2	5-1/8	9	CD16006
11/16	2	5-3/8	9-1/4	CD16007
23/32	2	5-5/8	9-1/2	CD16008
3/4	2	5-7/8	9-3/4	CD16009
25/32	2	6	9-7/8	CD16010
13/16	3	6-1/8	10-3/4	CD16011
27/32	3	6-1/8	10-3/4	CD16012
7/8	3	6-1/8	10-3/4	CD16013
29/32	3	6-1/8	10-3/4	CD16014
15/16	3	6-1/8	10-3/4	CD16015
31/32	3	6-3/8	11	CD16016
1	3	6-3/8	11	CD16017

4 FLUTE – Cont.

DRILL SIZE	MT	FLUTE LENGTH	OAL	STOCK #
1-1/32	3	6-1/2	11-1/8	CD16048
1-1/16	3	6-5/8	11-1/4	CD16049
1-3/32	4	6-7/8	12-1/2	CD16050
1-1/8	4	7-1/8	12-3/4	CD16051
1-5/32	4	7-1/4	12-7/8	CD16052
1-3/16	4	7-3/8	13	CD16053
1-7/32	4	7-1/2	13-1/8	CD16054
1-1/4	4	7-7/8	13-1/2	CD16055
1-9/32	4	8-1/2	14-1/8	CD16056
1-5/16	4	8-5/8	14-1/4	CD16057
1-11/32	4	8-3/4	14-3/8	CD16058
1-3/8	4	8-7/8	14-1/2	CD16059
1-13/32	4	9	14-5/8	CD16060
1-7/16	4	9-1/8	14-3/4	CD16061
1-15/32	4	9-1/4	14-7/8	CD16062
1-1/2	4	9-3/8	15	CD16063
1-17/32	5	9-3/8	16-3/8	CD16064
1-9/16	5	9-5/8	16-5/8	CD16065
1-19/32	5	9-7/8	16-7/8	CD16066
1-5/8	5	10	17	CD16067
1-21/32	5	10-1/8	17-1/8	CD16068
1-11/16	5	10-1/8	17-1/8	CD16069
1-23/32	5	10-1/8	17-1/8	CD16070
1-3/4	5	10-1/8	17-1/8	CD16071
1-25/32	5	10-1/8	17-1/8	CD16072
1-13/16	5	10-1/8	17-1/8	CD16073
1-27/32	5	10-1/8	17-1/8	CD16074
1-7/8	5	10-3/8	17-3/8	CD16075
1-29/32	5	10-3/8	17-3/8	CD16076
1-15/16	5	10-3/8	17-3/8	CD16077
1-31/32	5	10-3/8	17-3/8	CD16078
2	5	10-3/8	17-3/8	CD16079
2-1/8	5	10-1/4	17-3/8	CD16080
2-1/4	5	10-1/8	17-3/8	CD16081
2-3/8	5	10-1/8	17-3/8	CD16082
2-1/2	5	11-1/4	18-3/4	CD16083

4 FLUTE

DRILL SIZE	MT	FLUTE LENGTH	OAL	STOCK #
1/2	2	4-3/8	8-1/4	CD16031
17/32	2	4-5/8	8-1/2	CD16032
9/16	2	4-7/8	8-3/4	CD16033
19/32	2	4-7/8	8-3/4	CD16034
5/8	2	4-7/8	8-3/4	CD16035
21/32	2	5-1/8	9	CD16036
11/16	2	5-3/8	9-1/4	CD16037
23/32	2	5-5/8	9-1/2	CD16038
3/4	2	5-7/8	9-3/4	CD16039
25/32	2	6	9-7/8	CD16040
13/16	3	6-1/8	10-3/4	CD16041
27/32	3	6-1/8	10-3/4	CD16042
7/8	3	6-1/8	10-3/4	CD16043
29/32	3	6-1/8	10-3/4	CD16044
15/16	3	6-1/8	10-3/4	CD16045
31/32	3	6-3/8	11	CD16046
1	3	6-3/8	11	CD16047

• 1 per tube / box

Oil Hole Drills / Core Drills

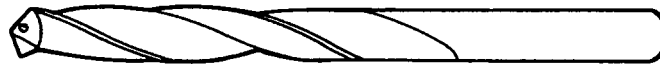
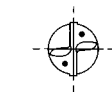


Used to enlarge holes that have been previously drilled, cored or punched. These drills, however, are not designed to drill original holes of their own.

OIL HOLE DRILLS

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

COOLANT HOLE
23° HELIX
118° NOTCHED POINT
TAPER LENGTH
BLACK OXIDE FINISH



Inch Dim.

FRACTIONAL SIZES

SIZE	FLUTE LENGTH	OAL	STOCK #
3/8	4-1/4	6-3/4	CH50321
13/32	4-3/8	7	CH50323
7/16	4-5/8	7-1/4	CH50325
15/32	4-7/8	7-1/2	CH50327
1/2	5	7-3/4	CH50329
17/32	5-1/4	8	CH50331
9/16	5-3/8	8-1/4	CH50333
19/32	5-5/8	8-1/2	CH50335
5/8	5-3/4	8-3/4	CH50337
21/32	5-7/8	9	CH50339
11/16	6	9-1/4	CH50341
23/32	6-3/16	9-1/2	CH50343
3/4	6-3/8	9-3/4	CH50345
25/32	6-1/2	9-7/8	CH50347
13/16	6-5/8	10	CH50349
27/32	6-3/4	10-1/4	CH50351

SIZE	FLUTE LENGTH	OAL	STOCK #
7/8	7	10-1/2	CH50353
29/32	7	10-5/8	CH50355
15/16	7	10-3/4	CH50357
31/32	7-1/8	10-7/8	CH50359
1	7-3/16	11	CH50361
1-1/32	7-5/16	11-1/8	CH50363
1-1/16	7-3/8	11-1/4	CH50365
1-3/32	7-5/8	11-1/2	CH50367
1-1/8	7-7/8	11-3/4	CH50369
1-5/32	8	11-7/8	CH50371
1-3/16	8-1/8	12	CH50373
1-7/32	8-1/8	12-1/8	CH50375
1-1/4	8-1/2	12-1/2	CH50377
1-5/16	9-1/4	14-1/4	CH50381
1-3/8	9-1/2	14-1/2	CH50385
1-7/16	9-5/8	14-3/4	CH50389
1-1/2	9-7/8	15	CH50393

• 1 per pack



MEGADRILL™ MULTI-PURPOSE DRILL BITS

CARBIDE TIPPED • RIGHT HAND SPIRAL

FOR ROTARY DRILLING ONLY
BLACK OXIDE FINISH

NEW

A

MegaDrill™



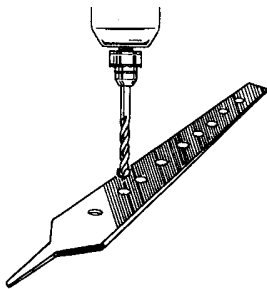
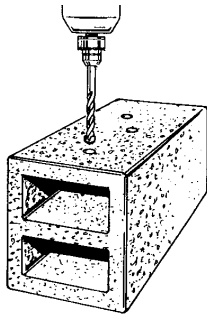
- The MEGADRILL™ (multi-purpose) drill bits are specially developed for drilling in a wide variety of materials.
- Ideal for jobs where drilling in different materials is necessary.
- These drills are not recommended for drilling in soft materials and are not for percussion drilling.

MEGADRILL™ is made in Germany

Inch Dim.

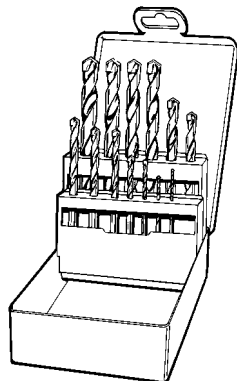
DRILL DIA.	SHANK DIA.	OVERALL LENGTH	STOCK #	
			BULK	POUCH / TUBE
1/8	1/8	3	MD1005	MD1005P
5/32	5/32	3	MD1007	MD1007P
3/16	3/16	3-1/2	MD1015	MD1015P
7/32	7/32	3-3/4	MD1017	MD1017P
1/4	1/4	4-1/4	MD1025	MD1025P
1/4	1/4	6	MD1026	MD1026P
9/32	9/32	4-3/8	MD1027	MD1027P
5/16	5/16	4-1/2	MD1035	MD1035P
11/32	11/32	5	MD1037	MD1037P
3/8	3/8	5-3/8	MD1045	MD1045P
13/32	13/32	6	MD1047	MD1047P
7/16	7/16	6	MD1055	MD1055P
15/32	3/8	6	MD1057	MD1057P
1/2	3/8	6	MD1065	MD1065P
9/16	3/8	6	MD1075	MD1075P
5/8	3/8	6	MD1076	MD1076P
3/4	3/8	6	MD1090	MD1090P

- **Bulk** Up to 5/16", 12 per pack
11/32" - 1/2", 6 per pack
9/16" - 3/4", 1 per pack
- **Pouch / Tube** 1/8" to 3/4", 1 per each



MEGADRILL™ SET IN METAL INDEX

SET QTY.	SIZE RANGE	STOCK #
13 Pc.	1/8", 5/32", 3/16", 7/32", 1/4" (4-1/4" OAL), 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	MD1099





ANNULAR HOLE CUTTER • COBALT SUPER HIGH SPEED STEEL

Patented Chipbreaker Tooth Design • Patent # GB2278793 & GB 23197393

3/4" Weldon Shank

Features

- Manufactured from heat resistant 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 erection.
- Bridge and highway maintenance.
- Welding.
- Truck and trailer manufacturing.
- Plant maintenance and elevator repair.
- Mining and construction.
- Ship building and railroad.

RotaCutter™

Inch Dimensions

NEW

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	RCCO74435



Inch Dimensions

TiN COATED

NEW

CUTTER DIA.	STOCK #		
	1" DEPTH OF CUT	2" DEPTH OF CUT	3" DEPTH OF CUT
7/16	RCCO74300TN	RCCO74350TN	—
1/2	RCCO74301TN	RCCO74351TN	—
9/16	RCCO74302TN	RCCO74352TN	—
5/8	RCCO74303TN	RCCO74353TN	—
11/16	RCCO74304TN	RCCO74354TN	—
3/4	RCCO74305TN	RCCO74355TN	—
13/16	RCCO74306TN	RCCO74356TN	RCCO74406TN
7/8	RCCO74307TN	RCCO74357TN	RCCO74407TN
15/16	RCCO74308TN	RCCO74358TN	RCCO74408TN
1	RCCO74309TN	RCCO74359TN	RCCO74409TN
1-1/16	RCCO74310TN	RCCO74360TN	RCCO74410TN
1-1/8	RCCO74311TN	RCCO74361TN	RCCO74411TN
1-3/16	RCCO74312TN	RCCO74362TN	RCCO74412TN
1-1/4	RCCO74313TN	RCCO74363TN	RCCO74413TN
1-5/16	RCCO74314TN	RCCO74364TN	RCCO74414TN
1-3/8	RCCO74315TN	RCCO74365TN	RCCO74415TN
1-7/16	RCCO74316TN	RCCO74366TN	RCCO74416TN
1-1/2	RCCO74317TN	RCCO74367TN	RCCO74417TN
1-9/16	RCCO74318TN	RCCO74368TN	RCCO74418TN
1-5/8	RCCO74319TN	RCCO74369TN	RCCO74419TN
1-3/4	RCCO74320TN	RCCO74370TN	RCCO74420TN
1-7/8	RCCO74321TN	RCCO74371TN	RCCO74421TN
1-15/16	RCCO74322TN	RCCO74372TN	RCCO74422TN
2	RCCO74323TN	RCCO74373TN	RCCO74423TN
2-1/8	RCCO74324TN	RCCO74375TN	RCCO74435TN

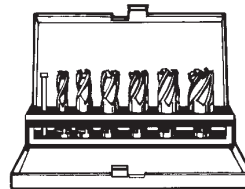
• Pack: Individually tubed

• Pack: Individually tubed

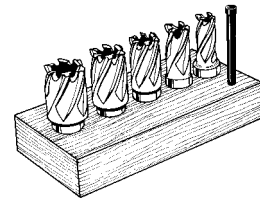
EJECTOR PILOTS

NEW

FOR 7/16" DIA. COBALT CUTTERS			
For 1" Depth of Cut	SHORT	3/16" x 3"	RC76006
For 2" Depth of Cut	LONG	3/16" x 4"	RC76007
FOR ALL OTHER COBALT CUTTERS			
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



RCCO74346



RCCO74347

Inch Dimensions

ROTACUTTER™ SETS

NEW

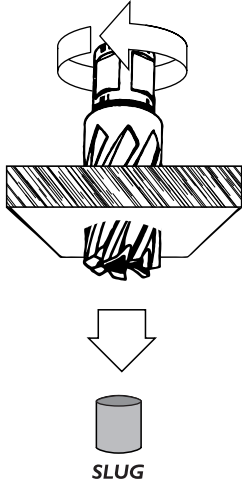
7 Pc.	7 Pc. set in steel index 1" depth x 9/16, 5/8, 11/16, 15/16, 7/8, 1 1 Ejector Pilot	RCCO74346
6 Pc.	6 Pc. set in wood block 1" depth x 9/16, 11/16, 13/16, 15/16, 1-1/16 1 Ejector Pilot	RCCO74347
6 Pc.	6 Pc. set in wood block 2" depth x 9/16, 11/16, 13/16, 15/16, 1-1/4 1 Ejector Pilot	RCCO74396



ANNULAR HOLE CUTTER • COBALT SUPER HIGH SPEED STEEL

Patented Chipbreaker Tooth Design • Patent # GB2278793 & GB 23197393

3/4" Weldon Shank



METRIC SIZES

Metric Dimensions

CUTTER DIA.	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

CUTTER DIA.	STOCK #	
	1" DEPTH OF CUT	2" DEPTH OF CUT
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

• Pack: Individually tubed

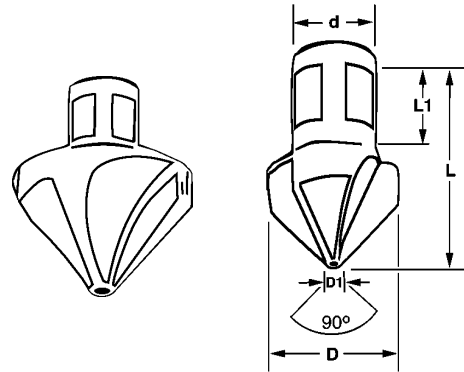
NEW

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



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:

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

Where RPM=revs per minute, T=number of teeth,

F=feed per tooth in inches/mm

Formula for calculating RPM is:

$$\text{RPM} = \frac{1000S}{\pi D}$$

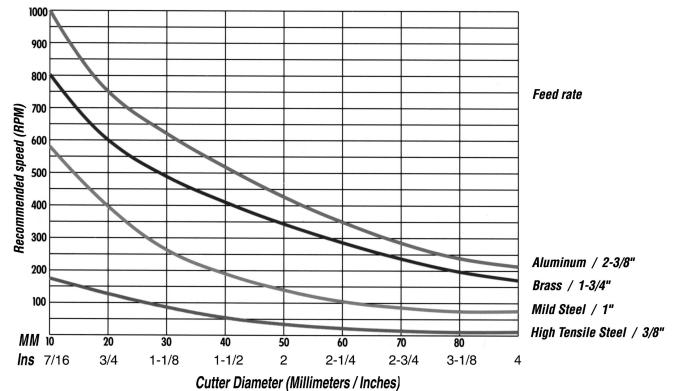
Where S=cutting speed and D=diameter of cutter

N.B. cutting speed is the variable, as a general rule cutting speed for mild steel=50ft/minute

Feed per rev=feed per tooth x number of teeth.

Feed=RPM x feed per rev.

Recommended speeds for cutters in different materials



CARBIDE TIPPED ROTA CUTTER™

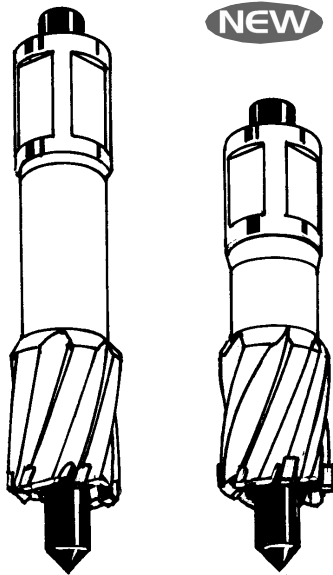
TUNGSTEN CARBIDE TIPPED • 3/4" WELDON SHANKS

Made in Germany.

A

Carbide Tipped RotaCutter™

- These cutters are specially designed for the toughest operating conditions and difficult to machine metals.
- For use on all portable or stationary drilling machines with cutting speed approx. 50% higher compared to HSS tools.

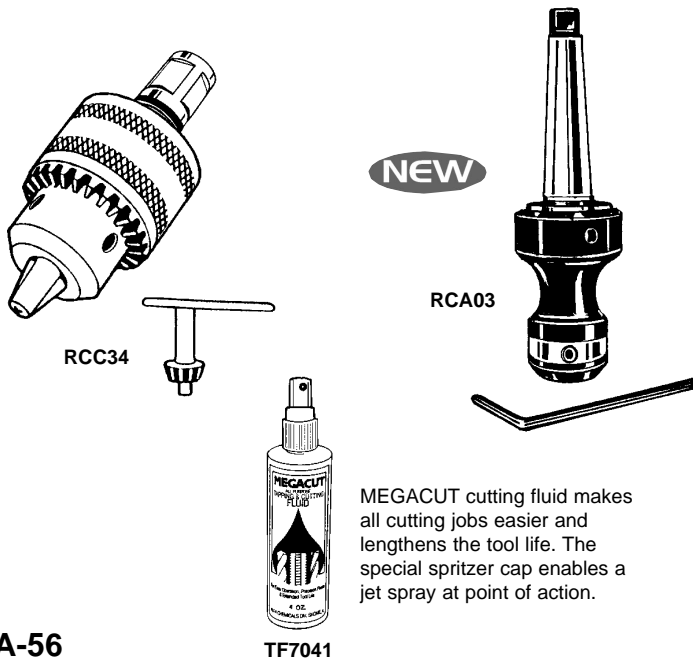


CUTTER DIA.	STOCK #	
	1-3/8" DEPTH OF CUT	2" DEPTH OF CUT
11/16"	RCT74610	RCT74510
3/4"	RCT74612	RCT74512
13/16"	RCT74614	RCT74514
7/8"	RCT74616	RCT74516
15/16"	RCT74618	RCT74518
1"	RCT74620	RCT74520
1-1/16"	RCT74622	RCT74522
1-1/8"	RCT74624	RCT74524
1-3/16"	RCT74626	RCT74526
1-1/4"	RCT74628	RCT74528
1-5/16"	RCT74630	RCT74530
1-3/8"	RCT74632	RCT74532
1-7/16"	—	RCT74534
1-1/2"	—	RCT74536
1-9/16"	—	RCT74538
1-5/8"	—	RCT74540
1-11/16"	—	RCT74542
1-3/4"	—	RCT74544
1-13/16"	—	RCT74546
1-7/8"	—	RCT74548
1-15/16"	—	RCT74550
2"	—	RCT74552

EJECTOR PILOTS

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

ROTA CUTTER™ ACCESSORIES



MEGACUT cutting fluid makes all cutting jobs easier and lengthens the tool life. The special spritzer cap enables a jet spray at point of action.

Drill Chuck

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

Morse Taper Adaptor

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

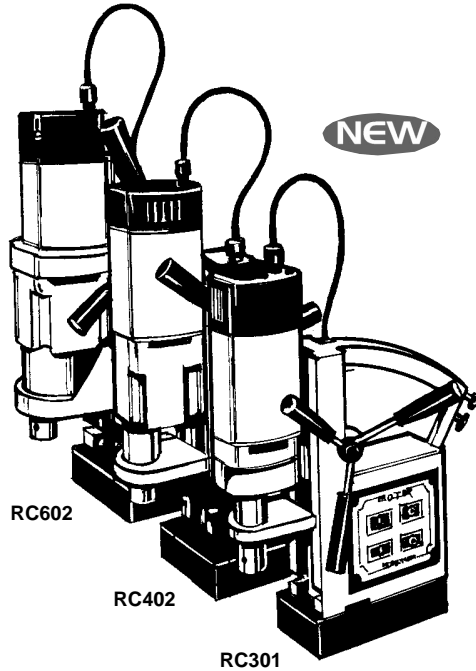
DESCRIPTION	STOCK #
DRILL CHUCK	
Drill Chuck with 3/4" Weldon Shank for Drills	RCC34
MORSE TAPER ADAPTORS	
No. 2 Morse Taper Adaptor	RCA02
No. 3 Morse Taper Adaptor	RCA03
MegaCut Cutting Fluid 4 oz. Spritz Bottle	TF7041



OPTI BOHR® MAGNETIC BASE MACHINES

HOLE BORING • RUGGED • RELIABLE • PRECISION • PORTABLE

Made in Germany.



Machine Features

- Precision gear box for smooth running and long machine life.
- High efficiency motors, endurance tested.
- Micro Processor control ensures operation in difficult situations, with safety circuitry at membrane keyboard.
- UL Certified.

	MINI 3025	MINOR 4035	MAJOR 6050E
Capacity: Cutter Dia. Drill	7/16" - 1-1/4" 1/16" - 1/2"	7/8" - 1-9/16" 1/16" - 1/2"	7/16" - 2-3/8" 1/16" - 7/8"
Travel Stroke	5"	6"	11"
Speed	450 RPM	280 / 500 RPM (2 speeds)	230 / 560 RPM (2 speeds)
Power	900 Watts 8 Amps 110 Volts	1200 Watts 11 Amps 110 Volts	1800 Watts 16 Amps 110 Volts
Magnetic Base: Adhesion Hose Size Type	1900 lbs. 2-3/4" x 6-3/4" Non-movable	2880 lbs. 3-5/8" x 8" Non-movable	4320 lbs. 3-5/8" x 8" movable 13/32" back / forward 330° rotatable
Weight	19 lbs.	32 lbs.	53 lbs.
Stock #	RC301	RC402	RC602

OPTI BOHR Core boring magnetic base machines were introduced in Germany about 20 years ago. Many improvements, computer designs and printed circuit controls have resulted in today's state-of-the-art machines.

The 3 machines MINI, MINOR and MAJOR cover a versatile capacity range for core boring, countersinking, drilling, reaming and for trepanning work with strong magnetic adherence bases.

OPTI BOHR machines can be used everywhere in the shop, maintenance work or at site for structurals, mining, petroleum and shipbuilding industries.

Each machine has a strong blow molded, transport case with sufficient space for accessories, cutters, tools, coolant cans, etc.

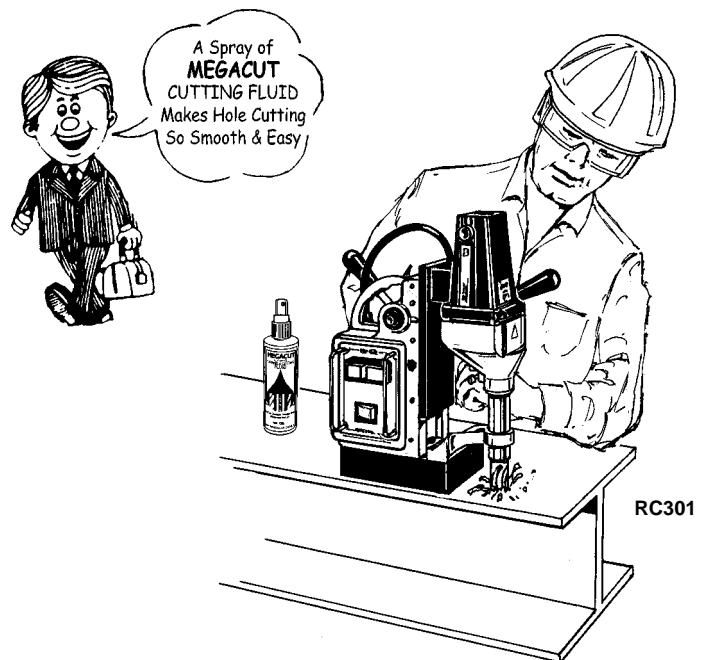
Warranty & Service

Replacement Parts & Service

A complete stock of accessories, replacement parts and service available.

Machine Warranty

ALFA TOOLS warrants its magnetic base machines for one (1) year from the date of purchase against defects due to faulty material or workmanship and will repair or replace (at its option) without charge any items returned. This warranty is void if the item has been damaged by accident or unreasonable use, neglect, improper service or other causes not arising out of defects in material or workmanship. No other expressed warranty is given or authorized. ALFA TOOLS disclaims any implied warranty or merchantability or fitness for any period beyond the expressed warranty, and shall not be liable for incidental or consequential damages. To obtain warranty service, return item(s) freight prepaid.



A

OPTI BOHR® Magnetic Base Machines

COMBINED DRILLS & COUNTERSINKS

HIGH SPEED STEEL • COBALT • SOLID CARBIDE

PLAIN TYPE
60° INCLUDED ANGLE



Expanded Offering!

A
Combined Drills & Countersinks

Inch
Dimensions

ASA NO.	DRILL DIA.	BODY DIA.	OVERALL LENGTH	HIGH SPEED STEEL		M-42 COBALT		SOLID CARBIDE
				STOCK #		STOCK #		STOCK #
				ALFA USA	ECO-PRO	ALFA USA	ECO-PRO	ALFA USA
000	0.020	1/8	1-1/4	CDHK50448	CDH50448	CDCK50448	-	-
00	0.025	1/8	1-1/4	CDHK50449	CDH50449	CDCK50449	-	-
0	1/32	1/8	1-1/4	CDHK50450	CDH50450	CDCK50450	-	CDTC50450
1	3/64	1/8	1-1/4	CDHK50451	CDH50451	CDCK50451	CDC50451	CDTC50451
2	5/64	3/16	1-7/8	CDHK50452	CDH50452	CDCK50452	CDC50452	CDTC50452
3	7/64	1/4	2	CDHK50453	CDH50453	CDCK50453	CDC50453	CDTC50453
4	1/8	5/16	2-1/8	CDHK50454	CDH50454	CDCK50454	CDC50454	CDTC50454
5	3/16	7/16	2-3/4	CDHK50455	CDH50455	CDCK50455	CDC50455	CDTC50455
6	7/32	1/2	3	CDHK50456	CDH50456	CDCK50456	CDC50456	CDTC50456
7	1/4	5/8	3-1/4	CDHK50457	CDH50457	CDCK50457	CDC50457	-
8	5/16	3/4	3-1/2	CDHK50458	CDH50458	CDCK50458	CDC50458	-

• 000 to 4, 12 per pack
5 to 8, 6 per pack

• 000 to 8, 1 per pack

• 0 to 6, 1 per pack

NEW



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

NEW

HSS METRIC SIZES

DRILL DIA.	BODY DIA.	OVERALL LENGTH	STOCK #
			ECO PRO
0.8	3.15	21	CDM50486
1	3.15	33.5	CDM50487
1.25	3.15	33.5	CDM50488
1.6	4	37.5	CDM50489
2	5	42	CDM50490
2.5	6.3	47	CDM50491
3.15	8	52	CDM50492
4	10	59	CDM50493
5	12.5	66	CDM50494
6.3	16	74	CDM50495
8	20	83	CDM50496
10	25	103	CDM50497

• 6 per pack

LONG LENGTH
PLAIN TYPE
HIGH SPEED STEEL



Inch
Dimensions

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

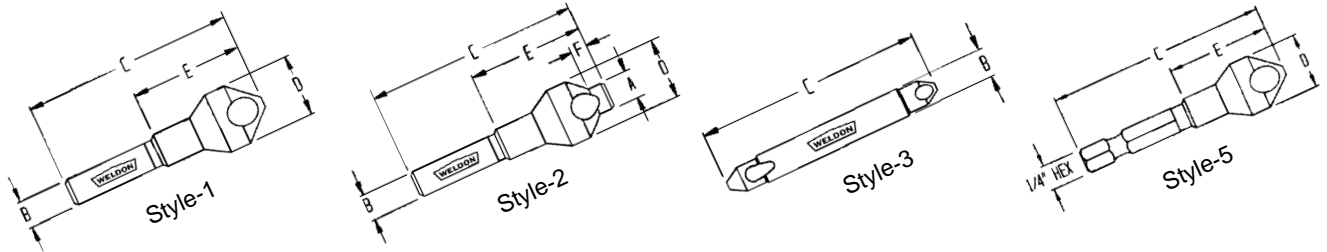
• 1 to 4, 12 per pack
5 to 8, 1 per pack

All combined Drills & Countersinks are available TiN coated. Details on request.



COUNTERSINK & DEBURRING TOOLS

FLUTELESS • HIGH SPEED STEEL • STRAIGHT SHANK



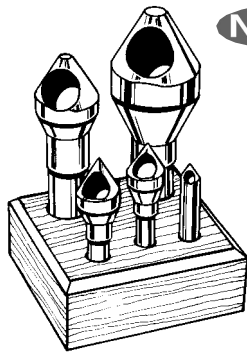
Inch
Dimensions

WELDON 82° COUNTERSINK & DEBURRING TOOLS

NEW

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

• Individually packed in tube

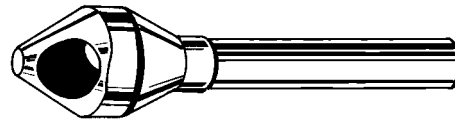


SET IN WOODEN BLOCK

SET QTY.	SIZE RANGE	ALFA USA STOCK #
5 Pc.	#0 - #4	CDT50510S

• 1 per box

NEW



ECO PRO 82° COUNTERSINK & DEBURRING TOOLS

Inch Dim.

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 to 8, 1 per pack

• Card 0 to 3, 1 per card



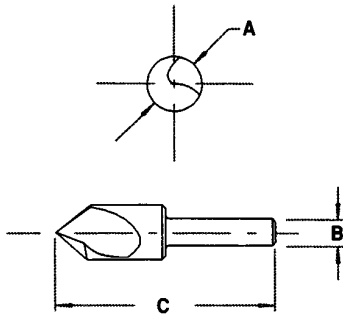
COUNTERSINKS

HIGH SPEED STEEL • RIGHT HAND CUT

A

SINGLE FLUTE COUNTERSINK STRAIGHT SHANK

Countersinks



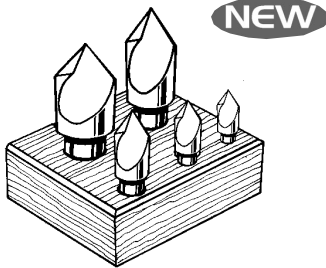
Inch Dimensions

A BODY DIA.	B SHANK DIA.	C OVERALL LENGTH	STOCK #				
			82° ENVELOPED	82° CARDED	60°	90°	100°
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

• Bulk 3/16" to 3/8", 12 per pack
1/2" to 7/8", 6 per pack
1" to 2", 1 per pack

• Card 82°, 1 per card

SINGLE FLUTE SETS IN WOODEN BLOCK

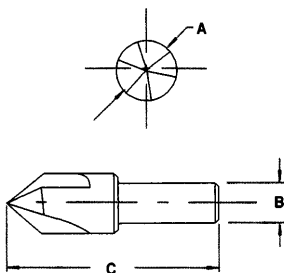


SET QTY.	SET RANGE	STOCK #			
		82°	60°	90°	100°
5 Pc.	1/4" - 1"	CSF50570	CSF50570A	CSF50570B	CSF50570C
9 Pc.	3/16" - 1"	CSF50571	CSF50571A	CSF50571B	CSF50571C
12 Pc.	3/16" - 2"	CSF50572	CSF50572A	CSF50572B	CSF50572C

• 1 per pack

5 pc. set includes: 1/4", 3/8", 1/2", 3/4", 1"
9 pc. set includes: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1"
12 pc. set includes: 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1"
1-1/4", 1-1/2", 2"

THREE FLUTE COUNTERSINK/CENTER REAMER STRAIGHT SHANK

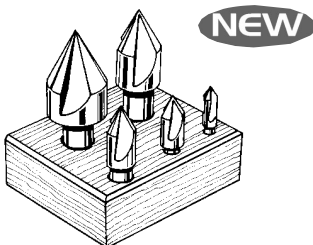


Inch Dimensions

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
1	3/4	2-3/4	C3F50538	C3F50538A	C3F50538B
1-1/4	3/4	3	C3F50539	C3F50539A	C3F50539B
1-1/2	3/4	3	C3F50540	C3F50540A	C3F50540B

• 1/4" to 1-1/2", 1 per pack

THREE FLUTE SET IN WOODEN BLOCK



SET QTY.	SET RANGE	STOCK #		
		82°	60°	90°
5 Pc.	1/4" - 1"	C3F50573	C3F50573A	C3F50573B

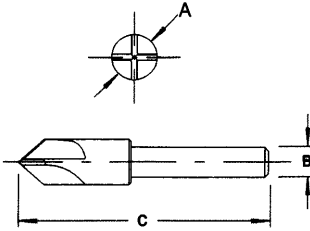
• 1 per pack

5 pc. set includes: 1/4", 3/8", 1/2", 3/4", 1"

COUNTERSINKS – Cont.

HIGH SPEED STEEL

FOUR FLUTE MACHINE COUNTERSINK

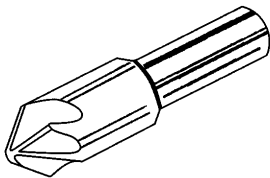


Inch Dimensions

A BODY DIA.	B SHANK DIA.	C OVERALL LENGTH	STOCK #		
			82°	60°	90°
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

• 1 per pack

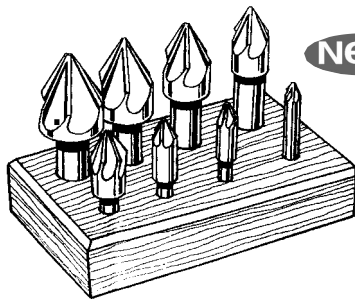
SIX FLUTE CHATTERLESS COUNTERSINK



Inch Dimensions

BODY DIA.	SHANK DIA.	OVERALL LENGTH	STOCK #		
			82°	60°	90°
1/4	1/4	2	C6F50547	C6F50547A	C6F50547B
5/16	1/4	2	C6F50548	C6F50548A	C6F50548B
3/8	1/4	2	C6F50549	C6F50549A	C6F50549B
1/2	1/4	2	C6F50550	C6F50550A	C6F50550B
5/8	1/2	2-3/4	C6F50551	C6F50551A	C6F50551B
3/4	1/2	2-3/4	C6F50552	C6F50552A	C6F50552B
7/8	1/2	2-3/4	C6F50553	C6F50553A	C6F50553B
1	1/2	2-3/4	C6F50554	C6F50554A	C6F50554B
1-1/4	3/4	3-3/8	C6F50555	C6F50555A	C6F50555B
1-1/2	3/4	3-1/2	C6F50556	C6F50556A	C6F50556B
1-3/4	1	4-1/4	C6F50557	C6F50557A	C6F50557B
2	1	4-3/8	C6F50558	C6F50558A	C6F50558B

• 1 per pack



SIX FLUTE SETS IN WOODEN BLOCK

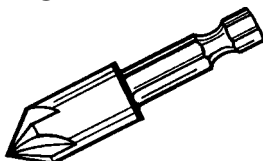
SET QTY.	SET RANGE	STOCK #		
		82°	60°	90°
8 Pc.	1/4" - 1"	C6F50574	C6F50574A	C6F50574B
10 Pc.	1/4" - 1-1/2"	C6F50575	C6F50575A	C6F50575B

• 1 per pack

8 pc. set includes: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1"
10 pc. set includes: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1"
1-1/4", 1-1/2"



FIVE FLUTE 1/4" HEX POWER SHANK 82° ANGLE



Inch Dimensions

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

• 1 per pack



See page A-72 for Monolock™ Quick Change Chuck Information

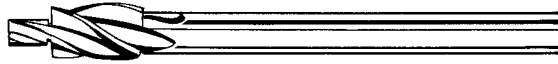
A

Countersinks

CAP SCREW COUNTERBORES

HIGH SPEED STEEL

SOLID PILOT
THREE FLUTES
STRAIGHT SHANK



NEW

A

Counterbores

Inch
Dimensions

FRACTIONAL SIZES

CAP SCREW SIZE	PILOT DIA.	CUTTER DIA.	SHANK DIA.	OAL	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 SIZES

CAP SCREW SIZE	PILOT DIA.	CUTTER DIA.	SHANK DIA.	OAL	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

COUNTERBORES

HIGH SPEED STEEL

INTERCHANGEABLE PILOT
STRAIGHT SHANK



NEW

Inch
Dimensions

DIA.	SHANK DIA.	OAL	NO. OF FLUTES	PILOT HOLE DIA.	STOCK #
3/16	15/64	3	3	3/32	CSC55751
7/32	15/64	3	3	3/32	CSC55752
1/4	15/64	3-13/16	3	3/32	CSC55753
9/32	17/64	3-13/16	3	3/32	CSC55754
5/16	19/64	3-13/16	3	3/32	CSC55755
11/32	5/16	3-13/16	3	3/32	CSC55756
3/8	5/16	4-1/16	3	5/32	CSC55757
13/32	3/8	4-1/16	3	5/32	CSC55758
7/16	3/8	4-1/16	3	5/32	CSC55759
15/32	7/16	4-5/16	3	3/16	CSC55760
1/2	7/16	4-5/16	3	3/16	CSC55761
17/32	1/2	4-5/16	3	3/16	CSC55762
9/16	1/2	4-5/16	3	3/16	CSC55763
19/32	1/2	5-1/8	3	3/16	CSC55764
5/8	1/2	5-1/8	3	3/16	CSC55765
21/32	1/2	5-1/8	3	3/16	CSC55766
11/16	1/2	5-1/8	3	3/16	CSC55767
23/32	1/2	5-3/8	3	1/4	CSC55768
3/4	1/2	5-3/8	3	1/4	CSC55769
25/32	5/8	5-3/8	3	1/4	CSC55770
13/16	5/8	5-3/8	3	1/4	CSC55771
27/32	3/4	5-3/8	3	1/4	CSC55772

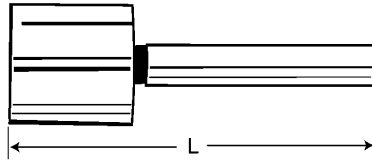
DIA.	SHANK DIA.	OAL	NO. OF FLUTES	PILOT HOLE DIA.	STOCK #
7/8	3/4	5-3/8	3	1/4	CSC55773
29/32	3/4	6-1/8	3	1/4	CSC55774
15/16	3/4	6-1/8	3	1/4	CSC55775
31/32	3/4	6-3/8	3	5/16	CSC55776
1	3/4	6-3/8	3	5/16	CSC55777
1-1/16	3/4	6-3/8	3	5/16	CSC55778
1-1/8	1	6-3/8	3	5/16	CSC55779
1-3/16	1	6-3/8	3	5/16	CSC55780
1-1/4	1	6-5/8	5	3/8	CSC55781
1-5/16	1	6-5/8	5	3/8	CSC55782
1-3/8	1	6-5/8	5	3/8	CSC55783
1-7/16	1-1/4	7-7/8	5	3/8	CSC55784
1-1/2	1-1/4	7-7/8	5	3/8	CSC55785
1-9/16	1-1/4	8-1/8	5	7/16	CSC55786
1-5/8	1-1/4	8-1/8	5	7/16	CSC55787
1-11/16	1-1/4	8-1/8	5	7/16	CSC55788
1-3/4	1-1/4	8-1/8	5	7/16	CSC55789
1-13/16	1-1/2	8-1/8	5	7/16	CSC55790
1-7/8	1-1/2	8-1/8	5	7/16	CSC55791
1-15/16	1-1/2	8-1/8	5	7/16	CSC55792
2	1-1/2	8-3/8	5	1/2	CSC55793

• 1 per pack



INTERCHANGEABLE COUNTERBORE PILOTS

HIGH SPEED STEEL



NEW

Inch
Dimensions

A

Counterbores

PILOT DIAMETER	STOCK #								
	3/32" SHANK	1/8" SHANK	5/32" SHANK	3/16" SHANK	1/4" SHANK	5/16" SHANK	3/8" SHANK	7/16" SHANK	1/2" SHANK
1/8	CSC005	CSC038	-	-	-	-	-	-	-
5/32	CSC010	CSC039	CSC050	-	-	-	-	-	-
3/16	CSC015	CSC041	CSC055	-	-	-	-	-	-
7/32	CSC020	CSC042	CSC060	CSC105	-	-	-	-	-
1/4	CSC025	CSC043	CSC065	CSC110	CSC215	-	-	-	-
9/32	CSC030	CSC044	CSC070	CSC115	CSC220	-	-	-	-
5/16	CSC035	CSC046	CSC075	CSC120	CSC225	-	-	-	-
11/32	CSC036	CSC047	CSC080	CSC125	CSC230	-	-	-	-
3/8	CSC037	CSC048	CSC085	CSC130	CSC235	CSC325	-	-	-
13/32	-	-	CSC090	CSC135	CSC240	CSC330	-	-	-
7/16	-	-	CSC095	CSC140	CSC245	CSC335	CSC440	-	-
15/32	-	-	-	CSC145	CSC250	CSC340	CSC445	-	-
1/2	-	-	CSC100	CSC150	CSC255	CSC345	CSC450	CSC570	-
17/32	-	-	-	CSC155	CSC260	CSC350	CSC455	CSC575	-
9/16	-	-	-	CSC160	CSC265	CSC355	CSC460	CSC580	CSC725
19/32	-	-	-	CSC165	CSC270	CSC360	CSC465	CSC585	CSC730
5/8	-	-	-	CSC170	CSC275	CSC365	CSC470	CSC590	CSC735
21/32	-	-	-	CSC175	CSC280	CSC370	CSC475	CSC595	CSC740
11/16	-	-	-	CSC180	CSC285	CSC375	CSC480	CSC600	CSC745
23/32	-	-	-	CSC185	CSC290	CSC380	CSC485	CSC605	CSC750
3/4	-	-	-	CSC190	CSC295	CSC385	CSC490	CSC610	CSC755
25/32	-	-	-	CSC195	CSC300	CSC390	CSC495	CSC615	CSC760
13/16	-	-	-	CSC200	CSC305	CSC395	CSC500	CSC620	CSC765
27/32	-	-	-	CSC205	CSC310	CSC400	CSC505	CSC625	CSC770
7/8	-	-	-	CSC210	CSC315	CSC405	CSC510	CSC630	CSC775
29/32	-	-	-	-	-	CSC410	CSC515	CSC635	CSC780
15/16	-	-	-	-	-	CSC415	CSC520	CSC640	CSC785
31/32	-	-	-	-	-	CSC420	CSC525	CSC645	CSC790
1	-	-	-	-	CSC320	CSC425	CSC530	CSC650	CSC795
1-1/16	-	-	-	-	-	CSC430	CSC535	CSC655	CSC800
1-1/8	-	-	-	-	-	CSC435	CSC540	CSC660	CSC805
1-3/16	-	-	-	-	-	-	CSC545	CSC665	CSC810
1-1/4	-	-	-	-	-	-	CSC550	CSC670	CSC815
1-5/16	-	-	-	-	-	-	CSC555	CSC675	CSC820
1-3/8	-	-	-	-	-	-	CSC560	CSC680	CSC825
1-7/16	-	-	-	-	-	-	CSC565	CSC685	CSC830
1-1/2	-	-	-	-	-	-	-	CSC690	CSC835
1-9/16	-	-	-	-	-	-	-	CSC695	CSC840
1-5/8	-	-	-	-	-	-	-	CSC700	CSC845
1-11/16	-	-	-	-	-	-	-	CSC705	CSC850
1-3/4	-	-	-	-	-	-	-	CSC710	CSC855
1-13/16	-	-	-	-	-	-	-	CSC715	CSC860
1-7/8	-	-	-	-	-	-	-	CSC720	CSC865
1-15/16	-	-	-	-	-	-	-	-	CSC870
2	-	-	-	-	-	-	-	-	CSC875
L	1-1/4	1-1/2	1-1/2	1-3/4	1-7/8	2-1/8	2-3/8	2-5/8	2-3/4

• 1 per pack



CAR REAMERS • STRUCTURAL REAMERS

SUPER HIGH SPEED STEEL • LEFT HAND HELIX

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

A

Reamers

CAR REAMERS 1/2" STRAIGHT SHANK WITH 3 FLATS ON SHANK



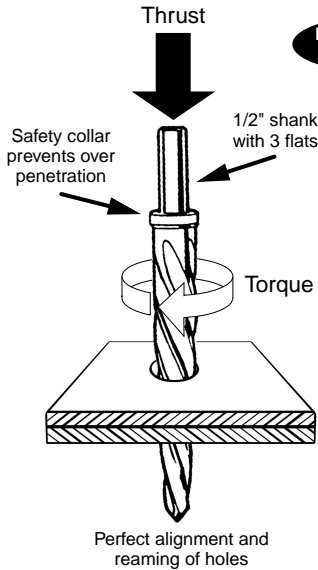
REGULAR – BRIGHT FINISH



BLITZ – BLACK / GOLD FINISH

- 1/2" straight shank reamers are preferred where electric power tools can be used.
- Performs excellently in various types of metals – including stainless steel and tough alloys.
- Deburrs welded and punched holes.
- Three flats on shank prevents slippage in three jaw chuck.
- Built-in collar prevents overpenetration.
- Sizes .652 and .776 are primarily designed for shoulder bolts used on truck frames.

Expanded Offering!



Inch Dimensions

REAMER SIZE	DECIMAL EQUIV.	SHANK DIA.	POINT DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
						REGULAR	BLITZ
3/8	.3750	3/8	15/64	3	5	CR54549	CRB54549
7/16	.4375	7/16	1/4	3-3/16	5-1/4	CR54550	CRB54550
1/2	.5000	1/2	5/16	3-5/8	5-15/16	CR54551	CRB54551
9/16	.5625	1/2	5/16	3-5/8	5-15/16	CR54552	CRB54552
5/8	.6250	1/2	5/16	4-1/4	6-9/16	CR54553	CRB54553
.652	.6520	1/2	5/16	4-1/4	6-9/16	CR54553A	CRB54553A
11/16	.6875	1/2	3/8	4-1/4	6-9/16	CR54554	CRB54554
3/4	.7500	1/2	1/2	4-9/16	7	CR54555	CRB54555
.776	.7760	1/2	1/2	4-9/16	7	CR54555A	CRB54555A
13/16	.8125	1/2	9/16	4-9/16	7	CR54556	CRB54556
7/8	.8750	1/2	5/8	4-9/16	7-1/4	CR54557	CRB54557
15/16	.9375	1/2	11/16	4-9/16	7-1/4	CR54558	CRB54558
1	1.0000	1/2	3/4	4-9/16	7-1/4	CR54559	CRB54559
1-1/16	1.0625	1/2	13/16	4-9/16	7-1/4	CR54560	CRB54560

• 1 per pack

- 3/8" reamer has 3/8" shank
- 7/16" reamer has 7/16" shank

STRUCTURAL REAMERS HEX SHANK



REGULAR – BRIGHT FINISH



BLITZ – BLACK / GOLD FINISH

- The heavy hex shank reamers are engineered for use in either pneumatic rotary socket power tools (impact wrench) applications or where only hand tools are available.
- Left hand helix enables quick chip removal.

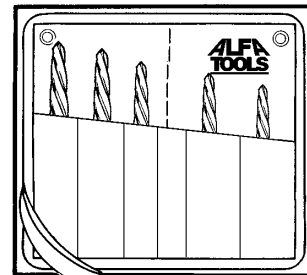
Inch Dimensions

REAMER SIZE	HEX NUT A F	POINT DIA.	FLUTE LENGTH	OVERALL LENGTH	STOCK #	
					REGULAR	BLITZ
11/16	1-1/16	13/32	7-1/8	9-1/8	CR54571	CRB54571
13/16	1-1/4	35/64	7-3/8	9-3/8	CR54572	CRB54572
15/16	1-7/16	43/64	7-3/8	9-3/8	CR54573	CRB54573
1-1/16	1-5/8	13/16	7-3/8	9-3/8	CR54574	CRB54574
1-3/16	1-13/16	57/64	7-3/8	9-3/8	CR54575	CRB54575
1-5/16	2	1-1/8	7-3/8	9-3/8	CR54576	CRB54576

• 1 per pack

5 PC. CAR REAMER SET IN A HANDY ROLL

NEW



DESCRIPTION	STOCK #
Set includes sizes: 3/8", 1/2", 9/16", 5/8" and 3/4"	CR54565
Blitz Set includes sizes: 3/8", 1/2", 9/16", 5/8" and 3/4"	CRB54565



CHUCKING REAMERS

SUPER HIGH SPEED STEEL • RIGHT HAND CUT

STRAIGHT SHANK
STRAIGHT FLUTE



Chucking reamers are designed for precision reaming in a wide range of materials, using a variety of equipment. They are commonly used in drill presses, turret lathes and screw machines. The straight flute design is used for most general purpose reaming.

Inch
Dimensions

FRACTIONAL SIZES

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

- 1/8" to 5/16", 12 per envelope
- 21/64" to 1/2", 6 per envelope
- 17/32" to 2", 1 per tube



Inch
Dimensions

SWG NUMBER SIZES

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 to 32, 12 per envelope

Inch
Dimensions

LETTER SIZES

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

- A to O, 12 per envelope
- P to Z, 6 per envelope

A

Reamers

CHUCKING REAMERS

BRIDGE REAMERS

SUPER HIGH SPEED STEEL

Chucking reamers are designed for precision reaming in a wide range of materials, using a variety of equipment. They are commonly used in drill presses, turret lathes and screw machines. The straight flute design is used for most general purpose reaming.

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

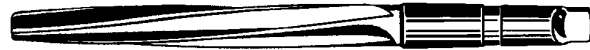
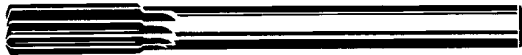
A

Reamers

STRAIGHT SHANK
STRAIGHT FLUTE
METRIC SIZES

TAPER SHANK
SPIRAL FLUTE
LEFT HAND HELIX
RIGHT-HAND CUT

Expanded Offering!



Metric Dimensions

METRIC SIZES

SIZE DIA.	FLUTE LENGTH	OVERALL LENGTH	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
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

- 2.5 to 8mm, 10 per envelope
- 9 to 24mm, 1 per pack

Inch Dimensions

FRACTIONAL SIZES

SIZE DIA.	POINT DIA.	FLUTE LENGTH	OVERALL LENGTH	TAPER NO.	STOCK #
5/16	11/64	4-3/8	8-1/4	2	BR54505
13/32	7/32	4-3/8	8-1/4	2	BR54506
7/16	17/64	4-3/8	8-1/4	2	BR54507
15/32	9/32	5-1/8	9	2	BR54508
1/2	5/16	5-1/8	9	2	BR54509
17/32	11/32	5-1/8	9	2	BR54510
9/16	3/8	5-1/8	9	2	BR54511
5/8	25/64	6-1/8	10	2	BR54512
11/16	13/32	7-1/8	11-3/4	3	BR54513
3/4	15/32	7-3/8	12	3	BR54514
13/16	35/64	7-3/8	12	3	BR54515
7/8	39/64	7-3/8	12	3	BR54516
15/16	43/64	7-3/8	12	3	BR54517
1	47/64	7-3/8	12	3	BR54518
1-1/16	13/16	7-3/8	12	3	BR54519
1-1/8	55/64	7-3/8	12	3	BR54520
1-3/16	59/64	7-3/8	12	3	BR54521
1-1/4	63/64	7-3/8	13	4	BR54522
1-5/16	1-1/16	7-3/8	13	4	BR54523
1-3/8	1-1/8	7-3/8	13	4	BR54524
1-7/16	1-3/16	7-3/8	13	4	BR54525
1-1/2	1-1/4	7-3/8	13	4	BR54526
1-9/16	1-1/4	7-3/8	13	4	BR54527
1-5/8	1-3/8	7-3/8	13	4	BR54528
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

- 5/16" to 2", 1 per pack

HAND REAMERS

HIGH SPEED STEEL • SQUARE DRIVE

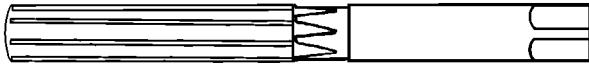
Hand reamers are generally used by hand for the final sizing and finishing of a predrilled hole. The square shank can be held firmly in a tap handle, reamer wrench or vise. Ground with a starting chamfer to provide easy entry of the reamer into the hole.

The straight flute hand reamer is recommended for most hand reaming applications.

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

STRAIGHT SHANK STRAIGHT FLUTE RIGHT-HAND CUT

NEW



Inch
Dimensions

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

STRAIGHT SHANK SPIRAL FLUTE LEFT HAND HELIX RIGHT-HAND CUT

NEW



Inch
Dimensions

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



A

Reamers

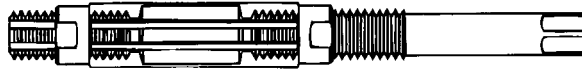
ADJUSTABLE HAND REAMERS

WITH HIGH SPEED STEEL BLADES

A

Reamers

- 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.
- Worn blades can be easily replaced.
- Used widely for automotive, aircraft maintenance and railway repair.
- For hand use only.



NEW

Inch
Dimensions

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

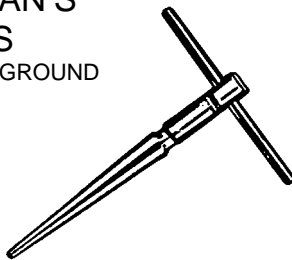
SIZE DIA.	RANGE	OVERALL LENGTH	STOCK #
E	23/32 to 25/32	7	HR54623
F	25/32 to 27/32	7-3/8	HR54625
G	27/32 to 15/16	8	HR54627
H	15/16 to 1-1/16	9	HR54629
I	1-1/16 to 1-3/16	10	HR54631
J	1-3/16 to 1-11/32	11	HR54633
K	1-11/32 to 1-1/2	12	HR54635
L	1-1/2 to 1-13/16	14	HR54637
M	1-13/16 to 2-7/32	16	HR54639
N	2-7/32 to 2-3/4	18	HR54641
O	2-3/4 to 3-11/32	20	HR54643

• 1 per pack

MECHANIC'S REAMERS

SUPER HIGH SPEED STEEL

**REPAIRMAN'S
REAMERS**
HARDENED & GROUND



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" - 1/2"	MR54571	MR54571P
1/8" - 5/8"	MR54572	MR54572P
11/64" - 7/8"	MR54573	MR54573P
11/64" - 1-1/4"	MR54574	MR54574P

- Bulk 1 per pack
- Pouch 1 per pouch

**PLUMBER'S
REAMERS**
WITH 1/2" ROUND SHANK



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

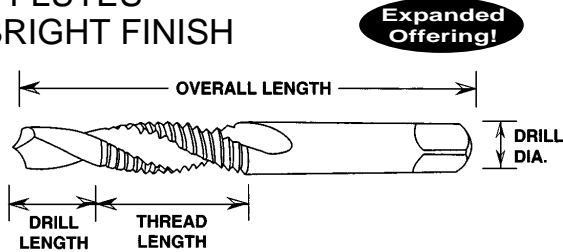
SIZE RANGE	STOCK #	
	BULK	POUCHED
1/4" - 1-1/2"	MR54575	MR54575P
3/8" - 2"	MR54577	MR54577P

- Bulk 1 per pack
- Pouch 1 per pouch

COMBINATION DRILL & TAP

SUPER HIGH SPEED STEEL AND COBALT STEEL

2 FLUTES
BRIGHT FINISH



- This combination tool drills and taps in a single pass, saving a complete set-up.
- Point is self-centering.
- Designed to drill & 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.
- Cobalt steel is heat resistant and enables use in the harder, high tensile strength materials.

Inch
Dimensions

MACHINE SCREW & FRACTIONAL SIZES

SIZE	OVERALL LENGTH	DRILL LENGTH	DRILL SIZE	THREAD LENGTH	SHANK DIA.	LENGTH OF SQUARE	SIZE OF SQUARE	HSS	COBALT
								ALFA USA STOCK #	ALFA USA STOCK #
4-40 UNC	1-7/8	1/4	.0910	3/8	.1410	3/16	.110	DTH66101	DTC66101
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	DTC66102
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	DTC66103
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	DTC66104
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	DTC66105
10-32 UNF	2-3/8	13/32	.1635	5/8	.1940	1/4	.152	DTH66106	DTC66106
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	DTC66107
1/4-28 UNF	2-1/2	17/32	.2200	25/32	.2550	5/16	.191	DTH66108	DTC66108
5/16-18 UNC	2-27/32	11/16	.2660	15/16	.3180	3/8	.238	DTH66109	DTC66109
5/16-24 UNF	2-27/32	11/16	.2770	15/16	.3180	3/8	.238	DTH66110	DTC66110
3/8-16 UNC	3-3/8	13/16	.3225	1-1/16	.3810	7/16	.286	DTH66111	DTC66111
3/8-24 UNF	3-3/8	13/16	.3395	1-1/16	.3810	7/16	.286	DTH66112	DTC66112
7/16-14 UNC	3-3/4	1	.3770	1-1/4	.3230	13/32	.242	DTH66113	DTC66113
7/16-20 UNF	3-3/4	1	.3955	1-1/4	.3230	13/32	.242	DTH66114	DTC66114
1/2-13 UNC	4-1/16	1-1/8	.4350	1-3/8	.3670	7/16	.275	DTH66115	DTC66115
1/2-20 UNF	4-1/16	1-1/8	.4580	1-3/8	.3670	7/16	.275	DTH66116	DTC66116

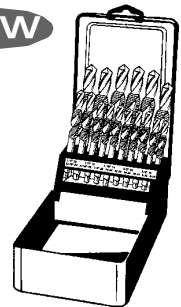
- 4 to 1/4", 12 per pack
- 5/16" to 3/8", 6 per pack
- 7/16" to 1/2", 3 per pack

Available TiN coated.
Details on request.

DRILL & TAP SET IN DELUXE METAL INDEX HSS

NEW

SET QTY.	SIZE RANGE	STOCK #
16 Pc.	Contains 1 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



4 FLUTES
BRIGHT FINISH
HIGH SPEED STEEL

Inch
Dimensions

PIPE DRILL & TAP

NEW

HSS

SIZE	OVERALL LENGTH	DRILL LENGTH	DRILL SIZE	THREAD LENGTH	SHANK DIA.	LENGTH OF SQUARE	SIZE OF SQUARE	ALFA USA
								STOCK #
1/16 - 27 NPTF	2-13/16	11/16	.2420	11/16	.312	3/8	.234	DTNPT66121
1/8 - 27 NPTF	2-7/8	3/4	.3320	3/4	.437	3/8	.328	DTNPT66122
1/4 - 18 NPTF	3-5/16	7/8	.4370	1-1/16	.562	7/16	.421	DTNPT66123
3/8 - 18 NPTF	3-1/2	15/16	.5620	1-1/16	.700	1/2	.531	DTNPT66124
1/2 - 14 NPTF	4-3/8	1-1/4	.7030	1-3/8	.687	5/8	.515	DTNPT66125
3/4 - 14 NPTF	4-9/16	1-5/16	.9060	1-3/8	.906	11/16	.679	DTNPT66126
1 - 11-1/2 NPTF	5-3/8	1-5/8	1.1410	1-3/4	1.125	13/16	.843	DTNPT66127



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

A

Combination Drill & Taps

TOOL BITS

HIGH SPEED STEEL • COBALT STEEL • GROUND

- Manufactured from the finest tool steels available, our high speed precision ground tool bits are designed for long lasting, accurate performance and machining accuracy.
- A precisely controlled heat treatment process gives uniform hardness throughout.
- These cost effective tools offer high resistance to abrasion, even shock associated with interrupted cuts.

A

Tool Bits

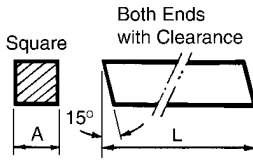
HIGH SPEED STEEL SQUARE TOOL BITS BOTH ENDS BEVELED

For general purpose applications. The unique tungsten-molybdenum high speed steel tool bit provides for excellent strength and toughness. They are ideally suited for a wide variety of applications in ferrous and non-ferrous alloys.



SIZE A	OVERALL LENGTH L	STOCK #
		HSS
3/16"	2-1/2"	TBHS60803
1/4"	2-1/2"	TBHS60805
1/4"	4"	TBHS60806
5/16"	2-1/2"	TBHS60807
3/8"	3"	TBHS60809
7/16"	3-1/2"	TBHS60811
1/2"	4"	TBHS60813
1/2"	6"	TBHS60814
5/8"	4-1/2"	TBHS60815
3/4"	5"	TBHS60817
7/8"	6"	TBHS60819
1"	7"	TBHS60821

- 3/16" to 1/2", 5 per pack
- 5/8" to 1", 1 per pack



COBALT STEEL M-35 SQUARE TOOL BITS BOTH ENDS BEVELED

For toughest applications. Manufactured from premium Cobalt M-35 high speed steel, these tools are designed to provide best wear resistance on difficult-to-machine alloys and heat-treated, high strength steels. Also used in production runs where higher speeds for feeds are desired with mild materials.



SIZE A	OVERALL LENGTH L	STOCK #
		COBALT
3/16"	2-1/2"	TBCS60803
1/4"	2-1/2"	TBCS60805
1/4"	4"	TBCS60806
5/16"	2-1/2"	TBCS60807
3/8"	3"	TBCS60809
7/16"	3-1/2"	TBCS60811
1/2"	4"	TBCS60813
1/2"	6"	TBCS60814
5/8"	4-1/2"	TBCS60815
3/4"	5"	TBCS60817
7/8"	6"	TBCS60819
1"	7"	TBCS60821

- 3/16" to 1/2", 5 per pack
- 5/8" to 1", 1 per pack

HIGH SPEED STEEL ROUND TOOL BITS

NEW

For general purpose applications. The unique tungsten-molybdenum high speed steel tool bit provides for excellent strength and toughness. They are ideally suited for a wide variety of applications in ferrous and non-ferrous alloys.



SIZE	OVERALL LENGTH	STOCK #
		HSS
1/8"	2-3/4"	TBHR60831
3/16"	3-1/2"	TBHR60832
1/4"	4"	TBHR60833
5/16"	4-1/2"	TBHR60834
3/8"	5"	TBHR60835
7/16"	5-1/2"	TBHR60836
1/2"	6"	TBHR60837
5/8"	6"	TBHR60838
3/4"	6"	TBHR60839

- 1/8" to 1/2", 5 per pack
- 5/8" to 3/4", 1 per pack

HIGH SPEED STEEL RECTANGULAR TOOL BITS

NEW



SIZE		OVERALL LENGTH	STOCK #
Width	Height		HSS
1/4"	3/8"	3"	TBHR60851
1/4"	1/2"	4"	TBHR60852
3/8"	1/2"	4"	TBHR60853
3/8"	5/8"	4-1/2"	TBHR60854
3/8"	3/4"	5"	TBHR60855
1/2"	3/4"	5"	TBHR60856
1/2"	1"	7"	TBHR60857
5/8"	1"	7"	TBHR60858
3/4"	1"	6"	TBHR60859

- 1/4" to 1/2", 5 per pack
- 5/8" to 3/4", 1 per pack

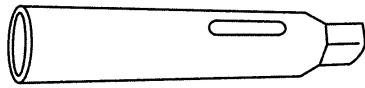


DRILL SLEEVES • SOCKETS • ADAPTERS • DRIFTS

HARDENED & GROUND • PRECISION MADE

Morse Taper Shank Tools

DRILL SLEEVES



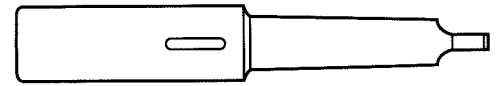
Drill sleeves, also known as reducing sleeves, or shell sockets, are used to adapt taper shank tools where the drill shank is smaller than the machine spindle hole.

Inch Dim.

SIZE	MORSE TAPER		STOCK #
	INSIDE	OUTSIDE	
1 to 2	1	2	DS1601
1 to 3	1	3	DS1602
1 to 4	1	4	DS1603
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



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

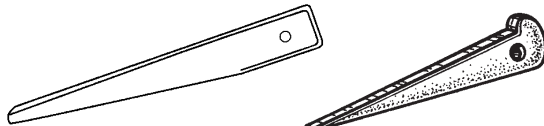
Inch Dim.

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
5 to 3	5	3	DS1660
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
3 to 5	3	5	DS1666
4 to 5	4	5	DS1667
5 to 5	5	5	DS1668
6 to 5	6	5	DS1669
4 to 6	4	6	DS1670
5 to 6	5	6	DS1671

• 1 per pack

DRILL DRIFTS

DROP FORGED / HARDENED



Style A

Style B

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

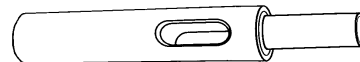
Inch Dim.

SIZE	FITS MORSE TAPER	STOCK #
STYLE "A"		
1	1 M.T.	DDK2001
2	2 M.T.	DDK2002
3	3 M.T.	DDK2003
4	4 M.T.	DDK2004
5	5 M.T.	DDK2005
STYLE "B"		
1	1 M.T.	DDK2011
2	2 M.T.	DDK2012
3	3 M.T.	DDK2013
4	4 M.T.	DDK2014
5	5 M.T.	DDK2015

• 1 per pack

MORSE TAPER ADAPTERS

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



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.

Inch Dim.

MORSE TAPER HOLE	OUTSIDE 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

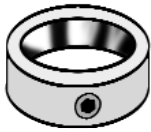


A

Drill Sleeves / Sockets / Adapters / Drifts

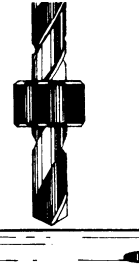
SHAFT & DRILL COLLARS

TOP QUALITY • FAST, EASY & ACCURATE



- 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.

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



A

Shaft & Drill Collars
Quick Change Chucks

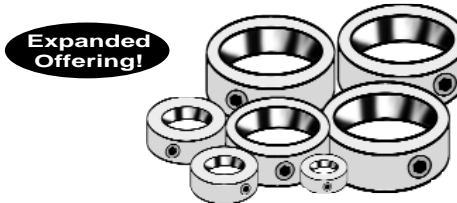
SHAFT COLLARS

NEW

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
15/16"	1-1/2"	9/16"	5/16"-18	DC075
1"	1-1/2"	9/16"	5/16"-18	DC008
1-1/8"	1-3/4"	9/16"	5/16"-18	DC009
1-3/16"	2"	11/16"	3/8"-16	DC095
1-1/4"	2"	11/16"	3/8"-16	DC010
1-5/16"	2-1/4"	3/4"	3/8"-16	DC105
1-3/8"	2-1/4"	3/4"	3/8"-16	DC011
1-7/16"	2-1/4"	3/4"	3/8"-16	DC115
1-1/2"	2-1/4"	3/4"	3/8"-16	DC012
1-5/8"	2-1/2"	3/4"	3/8"-16	DC013
1-11/16"	2-1/2"	3/4"	3/8"-16	DC135
1-3/4"	2-3/4"	7/8"	1/2"-13	DC014
1-7/8"	2-3/4"	7/8"	1/2"-13	DC015A
1-15/16"	3"	7/8"	1/2"-13	DC155
2"	3"	7/8"	1/2"-13	DC016

• 1/8" to 1", 12 per pack • 1-1/8" to 2", 6 per pack

ADJUSTABLE DRILL STOP COLLAR SETS



Expanded Offering!

3 POPULAR SETS TO CHOOSE FROM

SET QTY.	SIZE RANGE	STOCK #
4 Pc.	1 each size: 5/8", 3/4", 7/8", 1"	DC1698
7 Pc.	1 each size: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	DC1699
11 Pc.	1 each size: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4", 7/8", 1"	DC1697

• 1 per polybag



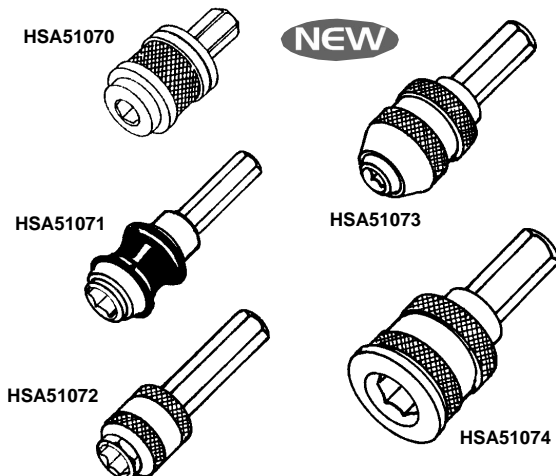
Monolock™
QUICK CHANGE SYSTEM

QUICK CHANGE CHUCKS

Quick Change chucks enable instantaneous changing of tooling in the workplace. It 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.

The Monolock chucks fit either directly into any adjustable jaw powerdrill chuck or a 1/4" hex power driver. The 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.



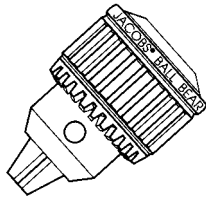
CHUCKING SIZE	SHANK SIZE	STOCK #
1/4" Hex	3/8" Hex Converts a 3/8" power tool for 1/4" hex shank tools.	HSA51070
1/4" Hex	1/4" Hex For the hobbyist.	HSA51071
1/4" Hex	3/8" Hex Slim chuck to reach narrow areas.	HSA51072
3/8" Hex	3/8" Hex For 3/8" hex shank tools.	HSA51073
7/16" Hex	7/16" Hex For 7/16"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

• 1 per polybag



Jacobs® CHUCKS • ADAPTORS • KEYS

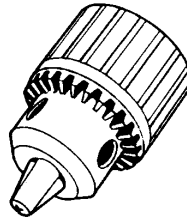
A
Chucks / Adaptors / Keys



HEAVY DUTY BALL BEARING CHUCKS

SIZE CAPACITY	MOUNT SIZE	KEY #	STOCK #
0" - 3/8"	2JT	K32	JC30215
0" - 1/2"	3JT	K3	JC30221
1/8" - 5/8"	3JT	K4	JC30227
1/8" - 3/4"	4JT	K4	JC30233
3/8" - 1"	5JT	K5	JC30239

• 1 per pack

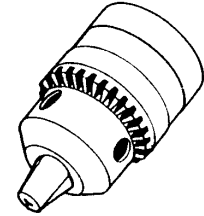


Expanded Offering!

PLAIN BEARING KEY-TYPE CHUCKS

SIZE CAPACITY	MOUNT SIZE	KEY #	STOCK #
0" - 3/8"	3/8 - 24	K2	JC6219
0" - 3/8"	1/2 - 20	K30	JC31090
3/64" - 1/2"	1/2 - 20	K32	JC6287
5/64" - 1/2"	3/8 - 24	K32	JC6283
1/8" - 5/8"	5/8 - 16	K4	JC6232

• 1 per pack



Multi-Craft KEY-TYPE CHUCKS

SIZE CAPACITY	MOUNT SIZE	KEY #	STOCK #
1/16" - 3/8"	3/8" - 24	KG1	JC30247
5/64" - 1/2"	3/8" - 24	KK	JC30598
5/64" - 1/2"	1/2" - 20	KK	JC30602

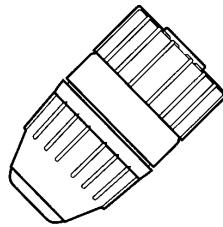
• 1 per pack



KEYLESS HAND-TITE DRILL CHUCKS

SIZE CAPACITY	MOUNT SIZE	STOCK #
3/8"	3/8" - 24	JC30354
1/16" - 1/2"	1/2" - 20	JC31038
1/16" - 1/2"	3/8" - 24	JC31037

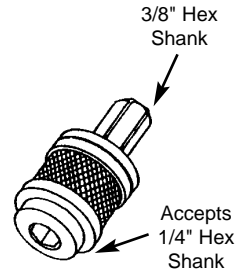
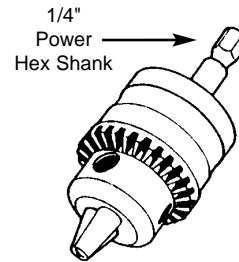
• 1 per pack



KEYLESS HAND-TITE HAMMER DRILL CHUCK

SIZE CAPACITY	MOUNT SIZE	STOCK #
1/16" - 1/2"	1/2" - 20	JC31237

• 1 per pack

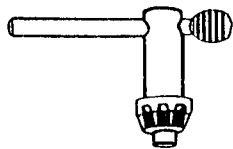


ADAPTOR CHUCKS

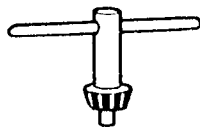
ADAPTOR CHUCKS: Converts power tools to cordless screwdrivers and cordless screwdrivers to power tools.

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

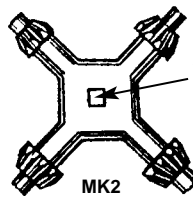
• 1 per pack



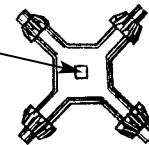
K2, K3, K30, K32



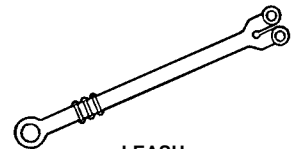
KK, KG1



MK2



MK1



LEASH

CHUCK KEYS

KEY #	SUITABLE FOR	STOCK #
K2	JC6219	CK2016
K3	JC30221	CK2017
K30	JC31090	CK2018
K32	JC30215 / 6287 / 6283	CK2019
KK	JC30598 / 30602	CK2020
KG1	JC30247	CK2021
K4	JC30222 / JC30223	CK2027
K5	JC30239	CK2028

• 1 per pack

MASTER KEYS – 4 in 1

KEY #	SUITABLE FOR	STOCK #
MK1	K7; K30; KK; KG1	CK2023
MK2	K2; K3; K32; K4	CK2022
KEY LEASH		
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.

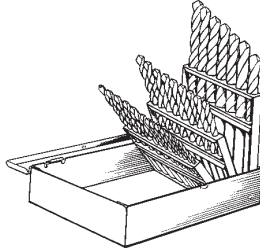
1. Never apply extensions, pliers, wrenches on any kind of key.
2. Do not subject chuck keys to hammer or other impact blows.



DRILL SETS – ALFA USA

See page A-76 for ECO PRO drill sets.

ALFA USA DRILL SETS JOBBER LENGTH IN METAL INDEX



Drill Sets

FRACTIONAL SIZES

SET QTY.	SIZE RANGE	GENERAL PURPOSE 118°		HEAVY DUTY 135° SPLIT POINT		TIN COATED		COBALT 135° S.P.
		BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE	BRIGHT FINISH	118°	135° S.P.	
13 Pc.	1/16" - 1/4" by 64ths	J150194	J150194B	S150194	S150194B	J150194TN	S150194TN	CO50194
15 Pc.	1/16" - 1/2" by 32nds	J150193	J150193B	S150193	S150193B	J150193TN	S150193TN	CO50193
21 Pc.	1/16" - 3/8" by 64ths	J150192	J150192B	S150192	S150192B	J150192TN	S150192TN	CO50192
29 Pc.	1/16" - 1/2" by 64ths	J150190	J150190B	S150190	S150190B	J150190TN	S150190TN	CO50190

SWG NUMBER SIZES

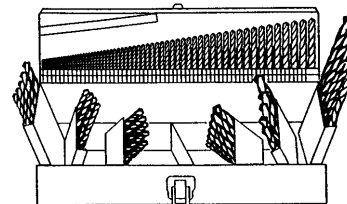
SET QTY.	SIZE RANGE	GENERAL PURPOSE 118°		HEAVY DUTY 135° SPLIT POINT		TIN COATED		COBALT 135° S.P.
		BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE	BRIGHT FINISH	118°	135° S.P.	
60 Pc.	#1 - #60	J150191	J150191B	S150191	S150191B	J150191TN	S150191TN	CO50191
20 Pc.	#61 - #80	J150189	J150189B	-	-	-	-	-

LETTER SIZES

SET QTY.	SIZE RANGE	GENERAL PURPOSE 118°		HEAVY DUTY 135° SPLIT POINT		TIN COATED		COBALT 135° S.P.
		BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE	BRIGHT FINISH	118°	135° S.P.	
26 Pc.	A - Z	J150197	J150197B	S150197	S150197B	J150197TN	S150197TN	CO50197

METRIC SIZES

SET QTY.	SIZE RANGE	GENERAL PURPOSE 118°	
		BLACK OXIDE	BRIGHT FINISH
13 Pc.	1.00 - 7.00 mm by .5 mm	MJ150194	-
19 Pc.	1.00 - 10.00 mm by .5 mm	MJ150198A	-
25 Pc.	1.00 - 13.00 mm by .5 mm	MJ150198	-



COMBINATION SIZES

SET QTY.	SIZE RANGE	GENERAL PURPOSE 118°		HEAVY DUTY 135° SPLIT POINT		TIN COATED		COBALT 135° S.P.
		BLACK OXIDE	BRIGHT FINISH	BLACK OXIDE	BRIGHT FINISH	118°	135° S.P.	
114 Pc.	1/16" - 1/2" by 64ths #1 - #60, 1 - 13 mm by .5 mm	J150199A	-	-	-	-	-	-
115 Pc.	1/16" - 1/2" by 64ths #1 - #60, A - Z	J150199	J150199B	S150199	S150199B	J150199TN	S150199TN	CO50199

DRILL SETS – ALFA USA - Cont.

See page A-76 for ECO PRO drill sets.

ALFA USA DRILL SETS JOBBER LENGTH

FRACTIONAL SIZES IN FOLDING PLASTIC CASE		HSS GENERAL PURPOSE 118°						COBALT 135° SPLIT POINT	
		BLACK OXIDE		BRIGHT FINISH		TIN COATED		STRAW GOLD	
SET QTY.	SIZE RANGE	BULK	CARDED	BULK	CARDED	BULK	CARDED	BULK	CARDED
10 Pc.	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	J150196W	J150196WC	J150196BW	J150196BWC	J150196TNW	J150196WTNC	-	-
13 Pc.	1/16" - 1/4" by 64ths	J150195W	J150195WC	J150195BW	J150195BWC	J150195TNW	J150195WTNC	CO50195W	CO50195WC

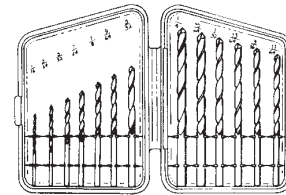
FRACTIONAL SIZES IN DIAL-A-DRILL CASE		HSS GENERAL PURPOSE 118°			HSS HEAVY DUTY 135° SPLIT POINT			COBALT 135° SPLIT POINT
		BLACK OXIDE	BRIGHT FINISH	TIN COATED	BLACK OXIDE	BRIGHT FINISH	TIN COATED	STRAW GOLD
SET QTY.	SIZE RANGE							
13 Pc.	1/16" - 1/4" by 64ths	J150195D	J150195DB	J150195DTN	S150195D	S150195DB	S150195DTN	CO50195D
21 Pc.	1/16" - 3/8" by 64ths	J160195D	J160195DB	J160195DTN	S160195D	S160195DB	S160195DTN	CO60195D

ALFA USA DRILL SETS REDUCED SHANK

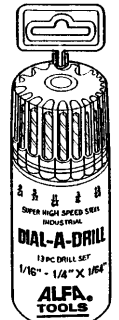
1/4" SHANK FRACTIONAL SIZES IN FOLDING PLASTIC CASE

SET QTY.	SIZE RANGE	SHANK SIZE	HSS GENERAL PURPOSE 118°	
			BLACK OXIDE	
			BULK	CARDED
14 Pc.	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 7/16", 1/2"	1/4"	J150184W	J150184WC

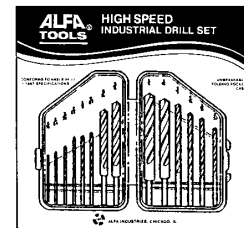
*Drills over 1/4" diameter have 1/4" shank.
*Sizes 5/16" to 1/2" have 4" OAL.



J150195W



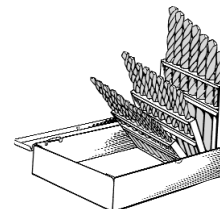
J150195D



J150184WC

3/8" SHANK FRACTIONAL SIZES IN METAL INDEX

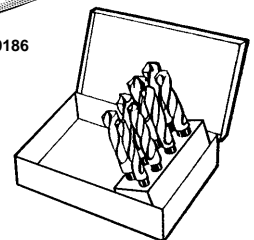
SET QTY.	SIZE RANGE	SHANK SIZE	HSS GENERAL PURPOSE 118°	HEAVY DUTY 135° SPLIT POINT	COBALT 135° SPLIT POINT
			BLACK OXIDE	BLACK OXIDE	STRAW GOLD
15 Pc.	1/16" - 1/2" by 32nds	3/8"	RS150193	RSS150193	RSCO50193
29 Pc.	1/16" - 1/2" by 64ths	3/8"	RS150186	RSS150186	RSCO50186



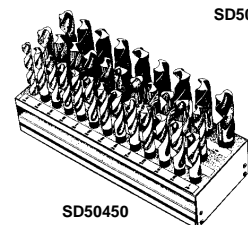
RS150186

SILVER & DEMING DRILLS 1/2" SHANK

SET QTY.	SIZE RANGE	SHANK SIZE	TYPE OF CONTAINER	HSS 118°	COBALT 118° SPLIT POINT
				BLACK OXIDE	STRAW GOLD
5 Pc.	9/16", 5/8", 3/4", 7/8", 1"	1/2"	Handy Roll	SD50448R	-
8 Pc.	9/16" - 1" by 1/16"	1/2"	Handy Roll	SD50449R	-
8 Pc.	9/16" - 1" by 1/16"	1/2"	Steel Index	SD50449A	SDCO50449A
33 Pc.	1/2" - 1" by 64ths	1/2"	Metal Stand	SD50450	-



SD50449A



SD50450



• ALFA USA drills are manufactured in the United States

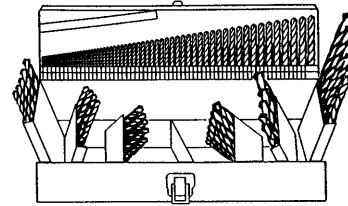
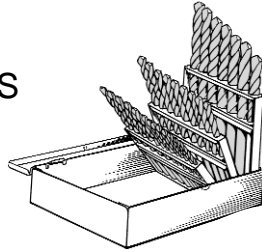
DRILL SETS – ECO PRO

SUPER HIGH SPEED STEEL • RIGHT HAND SPIRAL

A

Drill Sets

ECO PRO JOBBER LENGTH SETS IN METAL INDEX



J250199A

FRACTIONAL SIZES

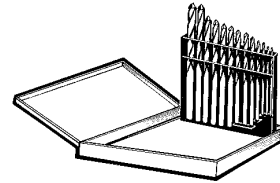
SET QTY.	SIZE RANGE	GENERAL PURPOSE 118°	HEAVY DUTY 135°	TIN COATED 118°
		BLACK OXIDE	BLACK OXIDE	GOLD FINISH
13 Pc.	1/16" - 1/4" by 64ths	J250194	S250194	J250194TN
15 Pc.	1/16" - 1/2" by 32nds	J250193	S250193	J250193TN
21 Pc.	1/16" - 3/8" by 64ths	J250192	S250192	J250192TN
29 Pc.	1/16" - 1/2" by 64ths	J250190	S250190	J250190TN

COMBINATION SIZES

SET QTY.	SIZE RANGE	GENERAL PURPOSE 118°	HEAVY DUTY 135° S.P.
		BLACK OXIDE	BLACK OXIDE
114 Pc.	1/16" - 1/2" by 64ths 1 - 60, 1 - 13 mm by .5 mm	J250199A	—
115 Pc.	1/16" - 1/2" by 64ths 1 - 60, A - Z	J250199	S250199

SWG NUMBER SIZES

SET QTY.	SIZE RANGE	BLACK OXIDE	BLACK OXIDE
60 Pc.	#1 - #60	J250191	S250191
20 Pc.	#61 - #80	J250189	—



METRIC SIZES

SET QTY.	SIZE RANGE	GENERAL PURPOSE 118°
		BLACK OXIDE
13 Pc.	1.00 - 7.00 mm by .5 mm	MJ250194
19 Pc.	1.00 - 10.00 mm by .5 mm	MJ250198A
25 Pc.	1.00 - 13.00 mm by .5 mm	MJ250198

LETTER SIZES

SET QTY.	SIZE RANGE	BLACK OXIDE	BLACK OXIDE
26 Pc.	A - Z	J250197	S250197

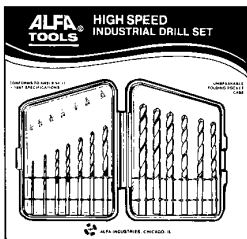
ECO PRO DRILL SETS 1/4", 3/8" & 1/2" REDUCED SHANK

JOBBER LENGTH IN METAL INDEX

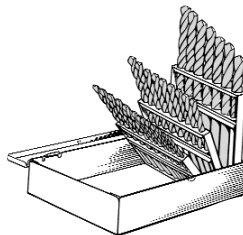
SET QTY.	SIZE RANGE	SHANK SIZE	GENERAL PURPOSE 118°
			BLACK OXIDE
29 Pc.	1/16" - 1/2" by 64ths	1/4"	RS250187
15 Pc.	1/16" - 1/2" by 32nds	3/8"	RS250193
29 Pc.	1/16" - 1/2" by 64ths	3/8"	RS250186

SILVER & DEMING DRILLS 1/2" SHANK

SET QTY.	SIZE RANGE	TYPE OF CONTAINER	BLACK OXIDE
8 Pc.	9/16" - 1" by 1/16"	Handy Roll	SD250449R
8 Pc.	9/16" - 1" by 1/16"	Metal Index	SD250449A
33 Pc.	1/2" - 1" by 64ths	Metal Stand	SD250450



J250195WC



FRACTIONAL SIZES IN FOLDING PLASTIC CASE

SET QTY.	SIZE RANGE	GENERAL PURPOSE 118°	
		BULK	CARDED
10 Pc.	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	J250196W	J250196WC
13 Pc.	1/16" - 1/4" by 64ths	J250195W	J250195WC



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

DRILL DISPLAYS

JOBBER LENGTH DRILLS

- Wall Displays emphasize ALFA TOOLS® drills in a minimum of wall space.
- The rack may be stocked with any of the different types of drills listed below.

HSS GENERAL PURPOSE

DESCRIPTION	FINISH	STOCK #
Alfa USA, M7, 118° Point	Black Oxide	SODJ100
Alfa USA, M7, 118° Point	Bright Finish	SODJ100B
Eco Pro, M2, 118° Point	Black Oxide	SODJ2100

HSS HEAVY DUTY

Alfa USA, M7 135° Point	Black Oxide	SODS100
Alfa USA, M7 135° Point	Bright Finish	SODS100B

HSS BLITZ BITS®

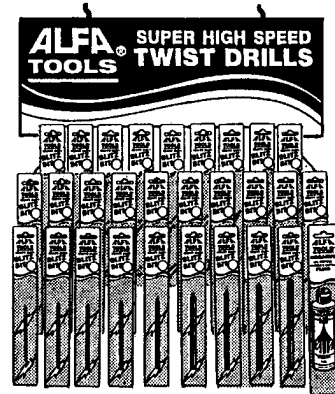
Alfa USA, Blitz Bits®, 135° Split Point	Black & Gold	SODBB7100
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HSS TiN COATED

Alfa USA, TiN Coated, 118° Point	Gold Finish	SODJ100TN
Eco Pro, TiN Coated, 118° Point	Gold Finish	SODJ2100TN

HSS COBALT M42

Alfa USA, Cobalt M42, 135° Split Point	Straw Gold	SODCO100
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100 Pc. Step Out Wall Displays are composed of the following:

Inch Dim.

SIZE	QTY.	SIZE	QTY.	SIZE	QTY.
1/16	3	7/32	3	3/8	6
5/64	3	15/64	3	25/64	2
3/32	6	1/4	6	13/32	2
7/64	3	17/64	2	27/64	2
1/8	6	9/32	3	7/16	3
9/64	3	19/64	2	29/64	2
5/32	6	5/16	6	15/32	2
11/64	3	21/64	3	31/64	2
3/16	6	11/32	3	1/2	2
13/64	3	23/64	2	Megacut Oil	2

Wall displays include 3 tier wire display rack and header card.

16 Pc. SILVER & DEMING DRILL DISPLAYS

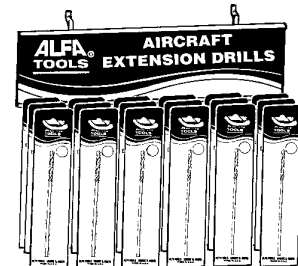


NEW

DESCRIPTION	FINISH	STOCK #
Contains 2 each of the following sizes: 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"		
Alfa USA M7, HSS, 118° Point	Black Oxide	SODSD16
Eco Pro M2, HSS, 118° Point	Black Oxide	SODSD216
Blitz Bits®, 118° Split Point	Black & Gold	SODSDBB16
Cobalt M42, 118° Split Point	Straw Gold	SODCO16

• 8 peg wire display rack and header card included.

24 Pc. AIRCRAFT EXTENSION DRILL DISPLAYS



NEW

DESCRIPTION	OAL	STOCK #
Contains 3 each of the following sizes: 1/16", 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"		
Alfa USA, M7 High Speed Steel, 135° Split Point	6"	SODAE624
Alfa USA, M7 High Speed Steel, 135° Split Point	12"	SODAE1224

• 8 peg wire display rack and header card included.



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



METAL INDEXES • STANDS

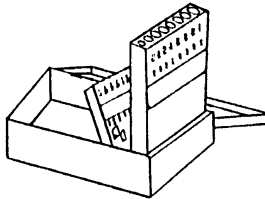
TOOLS NOT INCLUDED

- Industrial complete metal construction.
- Durable baked epoxy finish for rigorous use.
- Large legible markings.

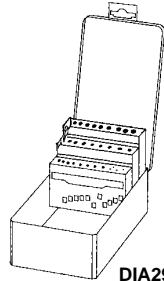
Metal Indexes / Stands

NEW

DESCRIPTION	STOCK #
DRILL INDEX FOR JOBBER LENGTH H STYLE	
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



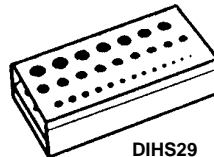
DIH29



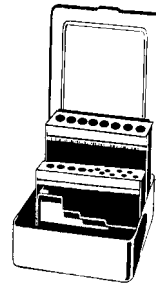
DIA29

DESCRIPTION	STOCK #
DRILL INDEX FOR JOBBER LENGTH A STYLE	
13 Pc. 1/16" - 1/4" by 64ths	DIA13
15 Pc. 1/16" - 1/2" by 32nds	DIA15
21 Pc. 1/16" - 3/8" by 64ths	DIA21
29 Pc. 1/16" - 1/2" by 64ths	DIA29
60 Pc. #1 - #60	DIA60
26 Pc. A - Z	DIA26
115 Pc. Master Set Fractional / Number / Letter	DIA115
25 Pc. Metric 1mm - 13mm x .5mm	DIA25

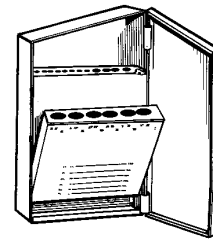
DESCRIPTION	STOCK #
DRILL STAND	
29 Pc. 1/16" - 1/2" by 64ths	DIHS29
60 Pc. #1 - #60	DIHS60
26 Pc. A - Z	DIHS26
33 Pc. 1/2" - 1" by 64ths, S & D Drills	DIHS33



DIHS29



DIAT21

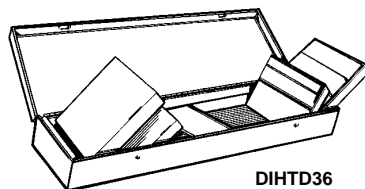


DIHTD18B

Expanded Offering!

Expanded Offering!

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

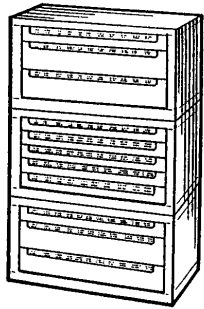


DIHTD36

DESCRIPTION	STOCK #
TAP INDEX	
21 Pc. Taps 3 taps per size 6 - 32 to 1/2" - 20	DIAT21
TAP AND DRILL INDEX	
18 Pc. NC Plug Taps with Jobber Drills Contains 1 each 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	DIHTD18B
18 Pc. NF Plug Taps with Jobber Drills Contains 1 each 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	DIHTD18A
36 Pc. NC/NF Plug Taps with Jobber Drills Contains 1 each NC 6-32 tap #36 drill 8-32 #29 10-24 #25 12-24 #16 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64" Contains 1 each 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 / TAP DISPENSER CABINETS

TOOLS NOT INCLUDED



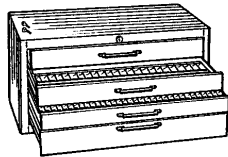
Stackable
(Not Lockable)

NEW
Drill Dispenser
DIHDF13000
Fractional

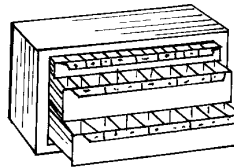
DIHDN13025
Sizes

DIHDL13050
Letter Sizes

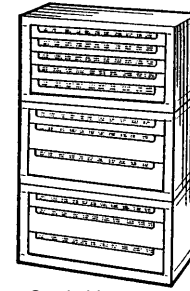
- Cost effective tool management & storage.
- Heavy gauge steel cabinets and drawers with vinyl dividers.
- Stackable models with full drawer extensions.
- Baked epoxy finish for long life.



Master Drill Dispenser
DIHDM13175
(Lockable)



Tap & Drill Dispenser
DIHT13590
(Not Lockable)

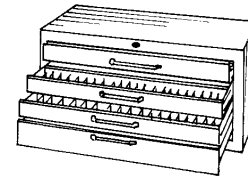


Stackable
(Not Lockable)

Tap Dispenser
Machine Screw Sizes
DIHTMS13550

Fractional Sizes
DIHTMF13500

Metric Taps
DIHTM13575



NEW
Master Tap
Dispenser
DIHTM13580
(Lockable)

A

Drill / Tap Dispenser Cabinets

DRILL DISPENSER CABINETS

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

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

MASTER DRILL DISPENSER (Four Drawers)

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

DESCRIPTION	WEIGHT	STOCK #
Top drawer holds fractional sizes 1/16" - 1/2" by 64ths, Second drawer holds wire gauge sizes #1 - #60 Third drawer holds letter sizes A - Z Fourth drawer is undivided for misc. tools Lockable	43 lbs.	DIHDM13175

TAP DISPENSER CABINETS

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

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

MASTER TAP DISPENSER

(Four Drawers)

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

NEW

DESCRIPTION	WEIGHT	STOCK #
Holds NC/NF sizes in taper, plug and bottoming chamfer Machine screw sizes 2-56 to 12-28 Fractional sizes 1/4"-20 to 1"-14 Lockable	46 lbs.	DIHTM13580

TAP & DRILL DISPENSER

(Three Drawers)

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

NEW

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

DESCRIPTION						WEIGHT	STOCK #
Tap	Drill	Tap	Drill	Tap	Drill	10.5 lbs.	DIHT13590
6-32	#36	1/4"-28	#3	7/16"-14	U		
8-32	#29	5/16"-18	F	7/16"-20	25/64"		
10-24	#25	5/16"-24	I	1/2"-13	27/64"		
10-32	#21	3/8"-16	5/16"	1/2"-20	29/64"		
1/4"-20	#7	3/8"-24	Q				

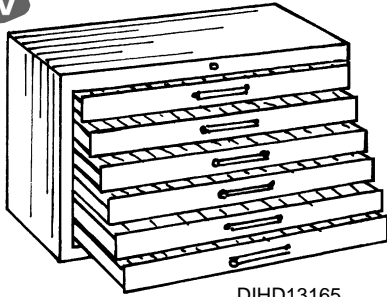


DRILL / END MILL DISPENSER CABINETS

A

Drill / End Mill Dispenser Cabinets

NEW



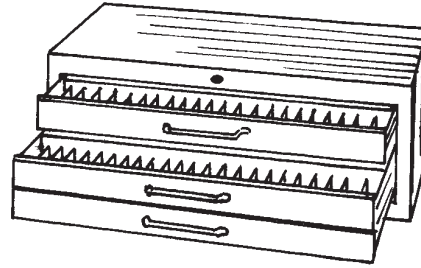
DIHD13165
(Lockable)

S & D DRILL DISPENSER (Six Drawers)

Dimensions: 26" W x 12" D x 15-13/16" H

DESCRIPTION	WEIGHT	STOCK #
Holds S & D Drills 33/64ths to 1" by 64ths, 1-1/32", 1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-3/8", 1-1/2" 110 Compartments Lockable	75 lbs.	DIHD13165

NEW



DIH13300
DIH13325
(Lockable)

END MILL DISPENSER (Three Drawers)

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

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

Cutting Speeds — by Working Material Deep Hole Drilling Parameters

Speeds for High Speed Steel Drills SFM	
Aluminum and its Alloys	200-300
Brass and Bronze (Ordinary)	150-300
Bronze (High Tensile)	70-150
Die Castings (Zinc Base)	300-400
Iron-Cast (Soft)	100-150
Cast (Medium hard)	70-100
Hard Chilled	30-40
Malleable	80-90
Magnesium and its Alloys	25-400
Monel Metal or High-Nickel Steel	30-50
Plastics or Similar Materials (Bakelite)	100-300
Steel—Mild . . (.2 carbon to .3 carbon)	80-110
Steel . . (.4 carbon to .5 carbon)	70-80
Tool . . (.1.2 carbon)	50-60
Forgings	40-50
Alloy—300 to 400 Brinell	20-30
High Tensile (Heat Treated)	
35 to 40 Rockwell C	30-40
40 to 45 Rockwell C	25-35
45 to 50 Rockwell C	15-25
50 to 55 Rockwell C	7-15
Stainless Steel	
Free Machining Grades	30-80
Work Hardening Grades	15-50
Wood	300-400

Feed Per Drill Revolution

Drill Diameter Range	Feed Per Drill Revolution		
	Light	Medium	Heavy
1/16 to 1/8	.0005-.0010	.0010-.0020	.0020-.0040
1/8 to 1/4	.0010-.0030	.0030-.0050	.0040-.0050
1/4 to 3/8	.0030-.0050	.0050-.0070	.0060-.0100
3/8 to 1/2	.0040-.0060	.0050-.0080	.0080-.0120
1/2 to 3/4	.0050-.0070	.0070-.0100	.0090-.0140
3/4 to 1	.0070-.0100	.0090-.0140	.0140-.0200

Speeds and Feeds for Deep-Hole Drilling

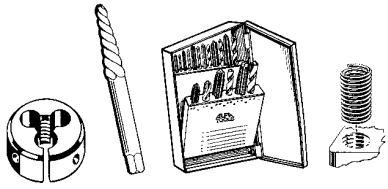
Holes which must be drilled three diameters deep or more fall into the "deep-hole" drilling class, and some adjustment of feeds and speeds is necessary. The deeper the hole, the greater the tendency there is for chips to pack and clog the flutes of the drill. This increases the amount of heat generated and prevents the coolant from conducting the heat away from the point. A build-up of heat at the point will eventually result in premature failure.

Step drilling, or the practice of drilling a short distance, then withdrawing the drill, will often reduce the chip packing. The deeper the hole, the more frequent the drill must be retracted to be effective. Generally, a reduction in speed and feed to reduce the amount of heat generated is required in most deep-hole applications, where coolant cannot be effectively applied.

Speed and Feed Reduction (Based upon hole depth)

Hole Depth to Diameter (times drill diameter)	Ratio Speed Reduction	Feed Reduction
3	10%	10%
4	20%	10%
5	30%	20%
6	35-40%	20%





B

Taps, Dies Extractors Thread Inserts Accessories

B

High Speed Steel Taps & Dies

Hand Taps	
ALFA USA	B2
ECO PRO	B3
Special Thread	B4
+.005 Oversize	B5
Tap Bit, Monolock™	B5
Eight Pitch	B5
Left Hand	B6
Metric	B6
Metric, Special Thread	B7
Screw Thread Insert (STI)	B7
Thread Forming Taps	B8
Pulley Taps	B8
Spiral Fluted Taps	B9
Spiral Fluted Taps, High Performance	B9
Spiral Pointed Taps	
Standard	B10
Metric	B10
Oversize	B10
Steam Oxide	B11
Tin Coated	B11
High Performance	B11
Acme Taps	B11
Rethreading Taps	B11
Pipe Taps	
Taper Pipe, NPT	B12
Taper Pipe, NPTF (Dry Seal)	
Taper Pipe, Interrupted	
Straight Pipe, NPS	
Taper Pipe, BSPT (British Std.)	
Taper Pipe Reamers	B12
Carbide Taps	
Regular	B13
Spiral Pointed	B13
Taper Pipe, NPT	B13
Dies	
Hexagon Dies	B14
Adjustable Round Dies	B15
Adjustable Round Dies – Special Thread	B16-18

Carbon Steel Taps & Dies

Hand Taps	B19
Metric Hand Taps	B20
Taper Pipe Taps, NPT	B20
Spark Plug Taps & Sets	B20
Hexagon Dies	
Eight Pitch	B14
Metric	B21
Rethreading Hexagon Dies	B22
Universal Thread File	B22
Thread Restoring Files	B22
Metric Rethreading Hexagon Dies	B23
Adjustable Round Dies	B23

Extractors & Sets

Screw Extractors	B24
Spiral Flute	B24
Straight Flute	B24
Sets	B24
Tap Extractors	B25
Tap Extensions	B25
Drill-Out® Power Extractor	B25

Tapping Tools & Accessories

T-Handle Tap Wrench	B26
Adjustable Tap / Reamer Wrench	B26
Die Adapter	B26
Die Stock	B26
Floating Die Holder	B26
Thread Pitch Gages	B26

Screw / Thread Inserts

Solid Screw Inserts & Kits	B27
Helical Thread Inserts	B28
Helical Thread Repair Kits	B29

Tap & Die Sets

Carbon Steel	B30-32
High Speed Steel	B31-32
Tap & Die Dispenser	B32
Hex Die Sets	B33
Tap & Drill Indexes	B33-34
Tap Indexes	B35
Tap & Die Displays	B36



HAND TAPS - ALFA USA

SUPER HIGH SPEED STEEL • GROUND THREAD • RIGHT HAND (Taper, Plug, Bottoming & Sets)

These general purpose taps can be used by hand or under power, in through or blind holes. They are supplied in standard "H" limits which provide an adequate "class of fit" for standard tapping applications. Available in three chamfer styles:



Taper taps (7 to 10 threads) has the longest standard chamfer insuring easier starting.

Plug taps (3 to 5 threads) has the most common chamfer, and are used in through or blind holes.

Bottoming taps (1 to 2 threads) are used for threading close to the bottom of a blind hole.

Sets comprise one each of Taper, Plug and Bottom in plastic case.

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

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

• Bulk 0 to 1/2", 12 per pack
9/16" to 5/8", 6 per pack

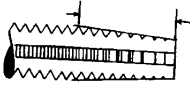
11/16" to 1", 3 per pack
1-1/8" to 1-1/2", 1 per pack

• Sets 3 taps per box



HAND TAPS - ECO PRO

SUPER HIGH SPEED STEEL • GROUND THREAD • RIGHT HAND
(Taper, Plug, Bottoming & Sets)



These general purpose taps can be used by hand or under power, in through or blind holes.
Available in three chamfer styles—Taper (7 to 10 threads), Plug (3 to 5 threads), Bottoming (1 to 2 threads).

Sets comprise one each of Taper, Plug and Bottom in plastic case.

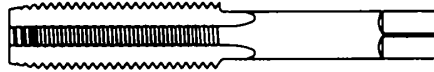
NC = National Coarse NF = National Fine NS = National Standard

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

• Bulk 0 to 1/2", 12 per pack
9/16" to 5/8", 6 per pack
11/16" to 1", 3 per pack
1-1/8" to 1-1/2", 1 per pack
• Sets 3 taps per box

HAND TAPS – SPECIAL THREAD

SUPER HIGH SPEED STEEL • GROUND THREAD • RIGHT HAND



TAPER / PLUG / BOTTOMING

PLEASE SPECIFY (T) TAPER / (P) PLUG / (B) BOTTOMING WHEN ORDERING i.e. HTSPⓅ71301

Inch Dimensions

Machine screw and fractional sizes

B

Hand Taps – Special Thread

TAP SIZE x TPI	STOCK #	TAP SIZE x TPI	STOCK #	TAP SIZE x TPI	STOCK #	TAP SIZE x TPI	STOCK #	TAP SIZE x TPI	STOCK #
6-36	HTSP 71301	5/8-24	HTSP 71351	1-16	HTSP 71401	1 3/8-10	HTSP 71451	1 15/16-18	HTSP 71501
6-48	HTSP 71302	5/8-26	HTSP 71352	1-18	HTSP 71402	1 3/8-14	HTSP 71452	2-4 1/2	HTSP 71502
8-24	HTSP 71303	5/8-27	HTSP 71353	1-20	HTSP 71403	1 3/8-16	HTSP 71453	2-8	HTSP 71503
8-40	HTSP 71304	5/8-28	HTSP 71354	1-24	HTSP 71404	1 3/8-18	HTSP 71454	2-10	HTSP 71504
8-48	HTSP 71305	5/8-32	HTSP 71355	1-26	HTSP 71405	1 3/8-20	HTSP 71455	2-12	HTSP 71505
10-28	HTSP 71306	5/8-36	HTSP 71356	1-27	HTSP 71406	1 3/8-24	HTSP 71456	2-14	HTSP 71506
10-36	HTSP 71307	5/8-40	HTSP 71357	1-28	HTSP 71407	1 7/16-12	HTSP 71457	2-16	HTSP 71507
10-40	HTSP 71308	11/16-12	HTSP 71358	1-32	HTSP 71408	1 7/16-16	HTSP 71458	2-18	HTSP 71508
10-48	HTSP 71309	11/16-18	HTSP 71359	1-36	HTSP 71409	1 7/16-18	HTSP 71459	2-20	HTSP 71509
12-32	HTSP 71310	11/16-20	HTSP 71360	1-40	HTSP 71410	1 7/16-20	HTSP 71460	2 1/8-8	HTSP 71510
12-36	HTSP 71311	11/16-24	HTSP 71361	1 1/16-8	HTSP 71411	1 1/2-8	HTSP 71461	2 1/8-12	HTSP 71511
12-40	HTSP 71312	11/16-27	HTSP 71362	1 1/16-12	HTSP 71412	1 1/2-10	HTSP 71462	2 1/4-4 1/2	HTSP 71512
12-48	HTSP 71313	11/16-32	HTSP 71363	1 1/16-14	HTSP 71413	1 1/2-14	HTSP 71463	2 1/4-8	HTSP 71513
1/4-24	HTSP 71314	3/4-12	HTSP 71364	1 1/16-16	HTSP 71414	1 1/2-16	HTSP 71464	2 1/4-12	HTSP 71514
1/4-32	HTSP 71315	3/4-14	HTSP 71365	1 1/16-18	HTSP 71415	1 1/2-18	HTSP 71465	2 1/4-14	HTSP 71515
1/4-36	HTSP 71316	3/4-18	HTSP 71366	1 1/16-20	HTSP 71416	1 1/2-20	HTSP 71466	2 1/4-16	HTSP 71516
1/4-40	HTSP 71317	3/4-20	HTSP 71367	1 1/16-24	HTSP 71417	1 1/2-24	HTSP 71467	2 1/4-18	HTSP 71517
5/16-20	HTSP 71318	3/4-24	HTSP71368	1 1/16-32	HTSP 71418	1 1/2-32	HTSP 71468	2 3/8-8	HTSP 71518
5/16-22	HTSP 71319	3/4-26	HTSP 71369	1 1/8-8	HTSP 71419	1 9/16-12	HTSP 71469	2 3/8-12	HTSP 71519
5/16-32	HTSP 71320	3/4-27	HTSP 71370	1 1/8-10	HTSP 71420	1 9/16-16	HTSP 71470	2 3/8-16	HTSP 71520
5/16-36	HTSP 71321	3/4-28	HTSP 71371	1 1/8-16	HTSP 71421	1 9/16-18	HTSP 71471	2 3/8-18	HTSP 71521
5/16-40	HTSP 71322	3/4-32	HTSP 71372	1 1/8-18	HTSP 71422	1 9/16-20	HTSP 71472	2 1/2-4	HTSP 71522
3/8-14	HTSP 71323	3/4-36	HTSP 71373	1 1/8-20	HTSP 71423	1 5/8-5 1/2	HTSP 71473	2 1/2-8	HTSP 71523
3/8-18	HTSP 71324	13/16-10	HTSP 71374	1 1/8-24	HTSP 71424	1 5/8-8	HTSP 71474	2 1/2-12	HTSP 71524
3/8-20	HTSP 71325	13/16-12	HTSP 71375	1 1/8-27	HTSP 71425	1 5/8-12	HTSP 71475	2 1/2-16	HTSP 71525
3/8-32	HTSP 71326	13/16-14	HTSP 71376	1 1/8-32	HTSP 71426	1 5/8-16	HTSP 71476	2 1/2-32	HTSP 71526
3/8-40	HTSP 71327	13/16-16	HTSP 71377	1 3/16-8	HTSP 71427	1 5/8-18	HTSP 71477	2 5/8-8	HTSP 71527
7/16-24	HTSP 71328	13/16-18	HTSP 71378	1 3/16-12	HTSP 71428	1 5/8-20	HTSP 71478	2 5/8-12	HTSP 71528
7/16-27	HTSP 71329	13/16-20	HTSP 71379	1 3/16-14	HTSP 71429	1 11/16-12	HTSP 71479	2 5/8-16	HTSP 71529
7/16-28	HTSP 71330	13/16-24	HTSP 71380	1 3/16-16	HTSP 71430	1 11/16-16	HTSP 71480	2 3/4-8	HTSP 71530
1/2-12	HTSP 71331	13/16-26	HTSP 71381	1 3/16-18	HTSP 71431	1 11/16-18	HTSP 71481	2 3/4-12	HTSP 71531
1/2-14	HTSP 71332	13/16-28	HTSP 71382	1 3/16-20	HTSP 71432	1 11/16-20	HTSP 71482	2 3/4-16	HTSP 71532
1/2-16	HTSP 71333	13/16-32	HTSP 71383	1 3/16-24	HTSP 71433	1 3/4-5	HTSP 71483	2 7/8-8	HTSP 71533
1/2-18	HTSP 71334	13/16-36	HTSP 71384	1 3/16-32	HTSP 71434	1 3/4-6	HTSP 71484	2 7/8-12	HTSP 71534
1/2-24	HTSP 71335	7/8-12	HTSP 71385	1 1/4-8	HTSP 71435	1 3/4-8	HTSP 71485	3-4	HTSP 71535
1/2-28	HTSP 71336	7/8-16	HTSP 71386	1 1/4-10	HTSP 71436	1 3/4-10	HTSP 71486	3-8	HTSP 71536
1/2-32	HTSP 71337	7/8-18	HTSP 71387	1 1/4-14	HTSP 71437	1 3/4-12	HTSP 71487	3-12	HTSP 71537
1/2-40	HTSP 71338	7/8-20	HTSP 71388	1 1/4-16	HTSP 71438	1 3/4-14	HTSP 71488	3-16	HTSP 71538
9/16-16	HTSP 71339	7/8-24	HTSP 71389	1 1/4-18	HTSP 71439	1 3/4-16	HTSP 71489	3-18	HTSP 71539
9/16-20	HTSP 71340	7/8-27	HTSP 71390	1 1/4-20	HTSP 71440	1 3/4-18	HTSP 71490	3 1/4-8	HTSP 71540
9/16-24	HTSP 71341	7/8-32	HTSP 71391	1 1/4-24	HTSP 71441	1 3/4-20	HTSP 71491	3 1/4-12	HTSP 71541
9/16-27	HTSP 71342	7/8-40	HTSP 71392	1 1/4-26	HTSP 71442	1 3/4-24	HTSP 71492	3 1/2-4	HTSP 71542
9/16-28	HTSP 71343	15/16-12	HTSP 71393	1 1/4-32	HTSP 71443	1 7/8-5	HTSP 71493	3 1/2-8	HTSP 71543
9/16-30	HTSP 71344	15/16-16	HTSP 71394	1 5/16-8	HTSP 71444	1 7/8-8	HTSP 71494	3 1/2-12	HTSP 71544
9/16-32	HTSP 71345	15/16-18	HTSP 71395	1 5/16-12	HTSP 71445	1 7/8-12	HTSP 71495	3 3/4-8	HTSP 71545
9/16-40	HTSP 71346	15/16-20	HTSP 71396	1 5/16-14	HTSP 71446	1 7/8-16	HTSP 71496	3 3/4-12	HTSP 71546
5/8-12	HTSP 71347	15/16-24	HTSP 71397	1 5/16-16	HTSP 71447	1 7/8-18	HTSP 71497	4-8	HTSP 71547
5/8-14	HTSP 71348	15/16-27	HTSP 71398	1 5/16-18	HTSP 71448	1 7/8-20	HTSP 71498	4-12	HTSP 71548
5/8-16	HTSP 71349	15/16-32	HTSP 71399	1 5/16-20	HTSP 71449	1 15/16-12	HTSP 71499		
5/8-20	HTSP 71350	1-10	HTSP 71400	1 3/8-8	HTSP 71450	1 15/16-16	HTSP 71500		

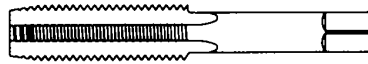
• 1 per pack

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



HAND TAPS + .005 OVERSIZE

HIGH SPEED STEEL • GROUND THREAD



PLUG STYLE

These taps will produce threads with a pitch diameter which is .005 larger than the basic pitch diameter. They are used primarily where the part will be plated or heat treated after tapping or where loss of size, for any reason, is anticipated.

TAP SIZE	TPI	NO. OF FLUTES	STOCK #
MACHINE SCREW SIZES			
4	40	3	HTO71407
5	40	3	HTO71409
6	32	3	HTO71411
6	40	3	HTO71412
8	32	4	HTO71413
8	36	4	HTO71414
10	24	4	HTO71415
10	32	4	HTO71416

- 4 to 1/2", 12 per pack
- 9/16" to 5/8", 6 per pack
- 3/4" to 7/8", 3 per pack
- 1", 1 per pack

TAP SIZE	TPI	NO. OF FLUTES	STOCK #
FRACTIONAL SIZES			
1/4"	20	4	HTO71430
1/4"	28	4	HTO71431
5/16"	18	4	HTO71432
5/16"	24	4	HTO71433
3/8"	16	4	HTO71434
3/8"	24	4	HTO71435
7/16"	14	4	HTO71436
7/16"	20	4	HTO71437
1/2"	13	4	HTO71438
1/2"	20	4	HTO71439
9/16"	12	4	HTO71440
9/16"	18	4	HTO71441

TAP SIZE	TPI	NO. OF FLUTES	STOCK #
FRACTIONAL SIZES			
5/8"	11	4	HTO71442
5/8"	18	4	HTO71443
3/4"	10	4	HTO71446
3/4"	16	4	HTO71447
7/8"	9	4	HTO71448
7/8"	14	4	HTO71449
1"	8	4	HTO71450
1"	12	4	HTO71451
1"	14	4	HTO71452



TAP BIT

HIGH SPEED STEEL • 1/4" POWER SHANK

Use with Hex Shank Driving Tool or Ratchet Handle Wrench

See page A-72 for Monolock™ Quick Change Chuck Information



Machine screw and fractional sizes

NC = National Coarse

NF = National Fine

Metric

TAP SIZE x TPI	OAL	STOCK #
6-32	1-5/8"	HST70321
8-32	1-5/8"	HST70322
10-24	1-5/8"	HST70323
1/4"-20	1-5/8"	HST70324
5/16"-18	1-5/8"	HST70325
3/8"-16	1-5/8"	HST70326

• 6 per pack

TAP SIZE x TPI	OAL	STOCK #
6-40	1-5/8"	HST70341
8-36	1-5/8"	HST70342
10-32	1-5/8"	HST70343
1/4"-28	1-5/8"	HST70344
5/16"-24	1-5/8"	HST70345
3/8"-24	1-5/8"	HST70346

• 6 per pack

TAP SIZE x TPI	OAL	STOCK #
4-0.7	1-5/8"	HST70351
5-0.8	1-5/8"	HST70352
6-1.0	1-5/8"	HST70353
8-1.25	1-5/8"	HST70354
10-1.25	1-5/8"	HST70355

• 6 per pack

EIGHT PITCH HAND TAPS

HIGH SPEED STEEL GROUND THREAD



Fractional sizes

PLEASE SPECIFY (T) TAPER / (P) PLUG / (B) BOTTOMING WHEN ORDERING

i.e. HTSP (T) 71419

TAP SIZE	TPI	NO. OF FLUTES	STOCK
1-1/8"	8	4	HTSP 71419
1-1/4"	8	4	HTSP 71435
1-3/8"	8	4	HTSP 71450
1-1/2"	8	6	HTSP 71461
1-5/8"	8	6	HTSP 71474
1-3/4"	8	6	HTSP 71485
1-7/8"	8	6	HTSP 71494
2"	8	6	HTSP 71503
2-1/8"	8	6	HTSP 71510
2-1/4"	8	6	HTSP 71513

• 1 per pack

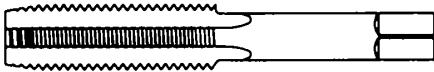
TAP SIZE	TPI	NO. OF FLUTES	STOCK
2-3/8"	8	6	HTSP 71518
2-1/2"	8	8	HTSP 71523
2-5/8"	8	8	HTSP 71527
2-3/4"	8	8	HTSP 71530
2-7/8"	8	8	HTSP 71533
3"	8	8	HTSP 71536
3-1/4"	8	8	HTSP 71540
3-1/2"	8	8	HTSP 71543
3-3/4"	8	8	HTSP 71545
4"	8	8	HTSP 71547

• 1 per pack



LEFT HAND TAPS

HIGH SPEED STEEL • GROUND THREAD



PLUG CHAMFER

Left hand taps are specifically designed to cut threads with a left hand rotation, and are used in applications where left hand fasteners are required.

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
6	32	3	H3	HSHTL71111
8	32	4	H3	HSHTL71113
10	24	4	H3	HSHTL71115
10	32	4	H3	HSHTL71116
FRACTIONAL SIZES				
1/4"	20	4	H3	HSHTL71120
1/4"	28	4	H3	HSHTL71121
5/16"	18	4	H3	HSHTL71122
5/16"	24	4	H3	HSHTL71123
3/8"	16	4	H3	HSHTL71124
3/8"	24	4	H3	HSHTL71125
7/16"	14	4	H3	HSHTL71126
7/16"	20	4	H3	HSHTL71127
1/2"	13	4	H3	HSHTL71128
1/2"	20	4	H3	HSHTL71129
9/16"	12	4	H3	HSHTL71130
9/16"	18	4	H3	HSHTL71131
5/8"	11	4	H3	HSHTL71132
5/8"	18	4	H3	HSHTL71133
3/4"	10	4	H3	HSHTL71134
3/4"	16	4	H3	HSHTL71135
7/8"	9	4	H4	HSHTL71136
7/8"	14	4	H4	HSHTL71137
1"	8	4	H4	HSHTL71138
1"	12	4	H4	HSHTL71139
1"	14	4	H4	HSHTL71140
1-1/8"	7	4	H4	HSHTL71141
1-1/4"	7	4	H4	HSHTL71143
1-1/4"	12	6	H4	HSHTL71144
1-3/8"	6	6	H4	HSHTL71145
1-1/2"	6	4	H4	HSHTL71147

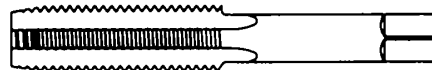
- 6 to 1/2", 12 per pack
- 9/16" to 5/8", 6 per pack
- 3/4" to 7/8", 3 per pack
- 1" to 1-1/2", 1 per pack

• All taps available TiN coated. Details on request.

METRIC HAND TAPS

HIGH SPEED STEEL • GROUND THREAD
RIGHT HAND

NEW



PLEASE SPECIFY (T) TAPER / (P) PLUG /
(B) BOTTOMING WHEN ORDERING

i.e. HSMT T171004

TAP SIZE MM	PITCH MM	NO. OF FLUTES	STOCK #	
			ALFA USA	ECO PRO
2	0.4	3	HSMT 171004	HSMT 271004
2.2	0.45	3	HSMT 171006	HSMT 271006
2.3	0.4	3	-	HSMT 271007
2.5	0.45	3	HSMT 171008	HSMT 271008
3	0.5	3	HSMT 171010	HSMT 271010
3.5	0.6	3	HSMT 171012	HSMT 271012
4	0.5	4	-	HSMT 271013
4	0.7	4	HSMT 171014	HSMT 271014
4.5	0.75	4	HSMT 171015	HSMT 271015
5	0.8	4	HSMT 171016	HSMT 271016
5	0.9	4	-	HSMT 271017
5	0.5	4	-	HSMT 271018
6	1.0	4	HSMT 171020	HSMT 271020
6	0.75	4	-	HSMT 271021
7	1.0	4	HSMT 171023	HSMT 271023
8	1.25	4	HSMT 171024	HSMT 271024
8	1.0	4	HSMT 171025	HSMT 271025
9	1.25	4	-	HSMT 271026
10	1.5	4	HSMT 171027	HSMT 271027
10	1.25	4	HSMT 171028	HSMT 271028
10	1.0	4	-	HSMT 271029
11	1.5	4	-	HSMT 271030
12	1.75	4	HSMT 171031	HSMT 271031
12	1.5	4	-	HSMT 271032
12	1.25	4	HSMT 171033	HSMT 271033
14	2.0	4	HSMT 171034	HSMT 271034
14	1.5	4	HSMT 171035	HSMT 271035
14	1.25	4	-	HSMT 271036
16	2.0	4	HSMT 171037	HSMT 271037
16	1.5	4	HSMT 171038	HSMT 271038
18	2.5	4	HSMT 171039	HSMT 271039
18	2.0	4	-	HSMT 271040
18	1.0	4	-	HSMT 271041
18	1.5	4	HSMT 171042	HSMT 271042
20	2.5	4	HSMT 171043	HSMT 271043
20	1.5	4	HSMT 171044	HSMT 271044
20	1.0	4	-	HSMT 271045
20	2.0	4	-	HSMT 271046
22	2.5	4	HSMT 171047	HSMT 271047
22	1.5	4	HSMT 171048	HSMT 271048
24	3.0	4	HSMT 171049	HSMT 271049
24	2.0	4	HSMT 171050	HSMT 271050
24	1.5	4	-	HSMT 271051
27	3.0	4	HSMT 171052	HSMT 271052
27	2.0	4	HSMT 171053	HSMT 271053
30	3.5	4	HSMT 171054	HSMT 271054
30	2.0	4	HSMT 171055	HSMT 271055
30	1.5	4	-	HSMT 271056
32	2.0	4	-	HSMT 271057
33	3.5	4	HSMT 171058	HSMT 271058
33	2.0	4	HSMT 171059	HSMT 271059
36	4.0	4	HSMT 171060	HSMT 271060

- 2 to 12mm, 12 per pack
- 14 to 16mm, 6 per pack
- 18 to 27mm, 3 per pack
- 30 to 36mm, 1 per pack

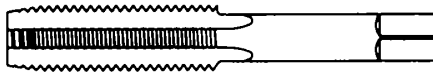
B

Hand Taps



METRIC HAND TAPS – SPECIAL THREAD

HIGH SPEED • GROUND THREAD



NEW

PLUG / BOTTOMING CHAMFERS

PLEASE SPECIFY (P) PLUG / (B) BOTTOMING WHEN ORDERING

i.e. HSMT®72005

TAP SIZE MM	STOCK #	TAP SIZE MM	STOCK #	TAP SIZE MM	STOCK #	TAP SIZE MM	STOCK #
1.4 x 0.30	HSMT 72005	11 x 0.75	HSMT 72040	18 x 1.25	HSMT 72072	28 x 2.00	HSMT 72103
1.7 x 0.20	HSMT 72006	11 x 1.00	HSMT 72041	18 x 1.75	HSMT 72073	30 x 1.00	HSMT 72104
1.7 x 0.35	HSMT 72007	11 x 1.25	HSMT 72042	19 x 0.50	HSMT 72075	30 x 2.50	HSMT 72106
2 x 0.25	HSMT 72008	12 x 0.50	HSMT 72044	19 x 1.00	HSMT 72076	30 x 3.00	HSMT 72107
2 x 0.45	HSMT 72009	12 x 0.75	HSMT 72045	19 x 1.50	HSMT 72077	32 x 1.50	HSMT 72108
2.5 x 0.50	HSMT 72011	12 x 1.00	HSMT 72046	19 x 2.00	HSMT 72078	33 x 1.50	HSMT 72110
2.6 x 0.35	HSMT 72012	13 x 0.50	HSMT 72048	20 x 1.25	HSMT 72080	34 x 1.50	HSMT 72112
2.6 x 0.45	HSMT 72013	13 x 1.00	HSMT 72049	21 x 1.00	HSMT 72082	35 x 1.50	HSMT 72113
3 x 0.35	HSMT 72014	13 x 1.25	HSMT 72050	21 x 1.50	HSMT 72083	38 x 1.50	HSMT 72114
3 x 0.60	HSMT 72015	13 x 1.50	HSMT 72051	21 x 2.00	HSMT 72084	39 x 1.50	HSMT 72115
3.5 x 0.50	HSMT 72016	13 x 2.00	HSMT 72052	21 x 2.50	HSMT 72085	40 x 1.50	HSMT 72116
4.5 x 0.50	HSMT 72018	14 x 0.50	HSMT 72053	22 x 1.00	HSMT 72086	42 x 1.50	HSMT 72117
5 x 0.75	HSMT 72020	14 x 0.75	HSMT 72054	22 x 2.00	HSMT 72087	42 x 3.00	HSMT 72118
5.5 x 0.70	HSMT 72022	14 x 1.00	HSMT 72055	23 x 1.00	HSMT 72088	42 x 4.50	HSMT 72119
5.5 x 0.90	HSMT 72023	14 x 1.75	HSMT 72057	23 x 1.50	HSMT 72089	45 x 1.50	HSMT 72120
6 x 0.50	HSMT 72024	15 x 0.50	HSMT 72058	23 x 2.00	HSMT 72090	45 x 3.00	HSMT 72121
7 x 0.50	HSMT 72026	15 x 1.50	HSMT 72059	23 x 2.50	HSMT 72091	45 x 4.50	HSMT 72122
7 x 0.75	HSMT 72027	15 x 1.00	HSMT 72060	23 x 3.00	HSMT 72092	48 x 1.50	HSMT 72123
7 x 1.25	HSMT 72028	15 x 2.00	HSMT 72061	24 x 1.00	HSMT 72093	48 x 3.00	HSMT 72124
8 x 0.50	HSMT 72029	16 x 0.50	HSMT 72062	25 x 1.00	HSMT 72094	48 x 4.50	HSMT 72125
8 x 0.75	HSMT 72030	16 x 0.75	HSMT 72063	25 x 1.50	HSMT 72095	48 x 5.00	HSMT 72126
8 x 1.50	HSMT 72031	16 x 1.00	HSMT 72064	25 x 2.00	HSMT 72096	50 x 1.50	HSMT 72127
9 x 0.50	HSMT 72032	16 x 1.25	HSMT 72065	25 x 3.00	HSMT 72097	50 x 3.00	HSMT 72128
9 x 0.75	HSMT 72033	17 x 0.50	HSMT 72066	26 x 1.50	HSMT 72098	52 x 1.50	HSMT 72129
9 x 1.00	HSMT 72034	17 x 1.00	HSMT 72067	26 x 2.00	HSMT 72099	52 x 3.00	HSMT 72130
10 x 0.50	HSMT 72036	17 x 1.50	HSMT 72068	27 x 1.00	HSMT 72100	52 x 5.00	HSMT 72131
10 x 0.75	HSMT 72037	17 x 2.00	HSMT 72069	27 x 2.50	HSMT 72101		
11 x 0.50	HSMT 72039	18 x 0.50	HSMT 72070	28 x 1.50	HSMT 72102		

* 1 per pack



Hand Taps

SCREW THREAD INSERT (STI) TAPS

SUPER HIGH SPEED STEEL

SPECIAL TAPS FOR HELICAL COIL THREAD INSERTS (PLUG STYLE)



Expanded Offering!

INCH SIZES

STI SIZE	DRILL SIZE	STOCK #
MACHINE SCREW SIZES		
4 - 40	#31	ST66507
4 - 48	#31	ST66508
5 - 40	#28	ST66509
6 - 32	#25	ST66511
6 - 40	#25	ST66512
8 - 32	11/64"	ST66513
8 - 36	#17	ST66514
10 - 24	13/64"	ST66515
10 - 32	13/64"	ST66516
12 - 24	#1	ST66517

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



STI SIZE	DRILL SIZE	STOCK #
FRACTIONAL SIZES		
1/4" - 20	17/64"	ST66530
1/4" - 28	17/64"	ST66531
5/16" - 18	21/64"	ST66532
5/16" - 24	21/64"	ST66533
3/8" - 16	25/64"	ST66534
3/8" - 24	25/64"	ST66535
7/16" - 14	29/64"	ST66536
7/16" - 20	29/64"	ST66537
1/2" - 13	17/32"	ST66538
1/2" - 20	33/64"	ST66539
5/8" - 11	21/32"	ST66542
5/8" - 18	41/64"	ST66542A
3/4" - 10	25/32"	ST66546
3/4" - 16	49/64"	ST66547
7/8" - 9	29/32"	ST66548
7/8" - 14	57/64"	ST66548A
1" - 8	1-1/32"	ST66549
1" - 12	1-1/64"	ST66549A
1" - 14	1-1/64"	ST66549B

METRIC SIZES

STI SIZE	DRILL SIZE	STOCK #
M5 x .8	5.2	ST66550
M6 x 1.0	6.3	ST66551
M8 x 1.0	8.3	ST66552A
M8 x 1.25	8.3	ST66552
M9 x 1.25	9.25	ST66553
M10 x 1.0	10.3	ST66554A
M10 x 1.25	10.3	ST66554
M10 x 1.50	10.4	ST66555
M11 x 1.25	11.00	ST66556
M11 x 1.50	11.00	ST66557
M12 x 1.25	12.2	ST66558
M12 x 1.50	12.25	ST66559
M12 x 1.75	12.50	ST66560
M14 x 1.25	14.30	ST66561A
M14 x 1.50	14.30	ST66561
M14 x 2.0	14.50	ST66562
M16 x 1.50	16.25	ST66563
M16 x 2.00	16.50	ST66564
M18 x 1.50	18.25	ST66565
M18 x 2.0	18.50	ST66566A
M18 x 2.50	18.50	ST66566
M20 x 1.50	20.25	ST66567
M20 x 2.0	20.50	ST66568A
M20 x 2.50	20.50	ST66568
M22 x 1.50	22.50	ST66569
M22 x 2.0	22.50	ST66570
M22 x 2.5	22.50	ST66571A
M24 x 2.0	24.25	ST66571
M24 x 3.0	24.75	ST66572

• M5 to M12, 12 per pack
M14 to M16, 6 per pack
M18 and above: individual

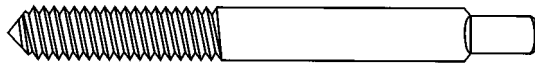
THREAD FORMING TAPS

HIGH SPEED STEEL • GROUND THREAD

For internal threading in ductile materials

Aluminum, brass, stainless steel, copper, zinc, cast steel, & alloy steel.

NEW



PLUG CHAMFER BOTTOMING CHAMFER

TAP SIZE	TPI	GRIND LIMITS	CLASS OF FIT	STOCK #	
				PLUG	BOTTOM
MACHINE SCREW SIZES					
0	80	H3	2B	—	TFB81700
1	64	H3	3B	—	TFB81701
1	72	H3	3B	—	TFB81702
2	56	H3	3B	—	TFB81703
2	64	H3	3B	—	TFB81704
3	48	H3	3B	—	TFB81705
3	56	H3	3B	—	TFB81706
4	40	H3	3B	TFP71707	TFB81707
4	48	H3	3B	TFP71708	TFB81708
5	40	H4	3B	TFP71709	TFB81709
5	44	H3	3B	TFP71710	TFB81710
6	32	H4	3B	TFP71711	TFB81711
6	40	H4	3B	TFP71712	TFB81712
8	32	H4	3B	TFP71713	TFB81713
8	36	H4	3B	TFP71714	TFB81714
10	24	H5	2B	TFP71715	TFB81715
10	32	H5	2B	TFP71716	TFB81716
12	24	H4	3B	TFP71717	TFB81717
12	28	H4	3B	TFP71718	TFB81718
FRACTIONAL SIZES					
1/4"	20	H6	2B	TFP71719	TFB81719
1/4"	28	H5	2B	TFP71720	TFB81720
5/16"	18	H6	2B	TFP71721	TFB81721
5/16"	24	H6	2B	TFP71722	TFB81722
3/8"	16	H7	2B	TFP71723	TFB81723
3/8"	24	H6	2B	TFP71724	TFB81724
7/16"	14	H6	3B	TFP71725	TFB81725
7/16"	20	H5	3B	TFP71726	TFB81726
1/2"	13	H8	2B	TFP71727	TFB81727
1/2"	20	H5	3B	TFP71728	TFB81728
9/16"	12	H6	3B	TFP71729	TFB81729
9/16"	18	H5	3B	TFP71730	TFB81730
5/8"	11	H8	2B	TFP71731	TFB81731
5/8"	18	H6	3B	TFP71732	TFB81732
3/4"	10	H8	2B	TFP71733	TFB81733
3/4"	16	H6	3B	TFP71734	TFB81734

- 0 to 1/4", 12 per pack
- 5/16" to 1/2", 6 per pack
- 9/16" to 5/8", 3 per pack
- 3/4", 1 per pack



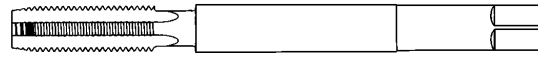
PULLEY TAPS

HIGH SPEED STEEL • GROUND THREAD

These taps are designed to tap the set screw thread in pulley hubs.

They are also used as extension taps in many applications.

Available in 6", 8", 10" and 12" overall lengths.



Expanded Offering!

PLUG CHAMFER

TAP SIZE	TPI	OVERALL LENGTH	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES					
6	32	6	3	3	HSPUT70201
8	32	6	4	3	HSPUT70202
10	24	6	4	3	HSPUT70203
10	32	6	4	3	HSPUT70204
FRACTIONAL SIZES					
1/4"	20	6	4	3	HSPUT70205
1/4"	28	6	4	3	HSPUT70206
5/16"	18	6	4	3	HSPUT70207
5/16"	24	6	4	3	HSPUT70208
3/8"	16	6	4	3	HSPUT70209
3/8"	24	6	4	3	HSPUT70210
7/16"	14	6	4	3	HSPUT70211
7/16"	20	6	4	3	HSPUT70212
1/2"	13	6	4	3	HSPUT70213
1/2"	20	6	4	3	HSPUT70214
5/8"	11	6	4	3	HSPUT70215
5/8"	18	6	4	3	HSPUT70216
1/4"	20	8	4	3	HSPUT70230
1/4"	28	8	4	3	HSPUT70231
5/16"	18	8	4	3	HSPUT70232
5/16"	24	8	4	3	HSPUT70233
3/8"	16	8	4	3	HSPUT70234
3/8"	24	8	4	3	HSPUT70235
7/16"	14	8	4	3	HSPUT70236
1/2"	13	8	4	3	HSPUT70238
1/2"	20	8	4	3	HSPUT70239
5/8"	11	8	4	3	HSPUT70240
5/8"	18	8	4	3	HSPUT70241
3/4"	10	8	4	3	HSPUT70242
1"	8	8	4	3	HSPUT70243
3/8"	16	10	4	3	HSPUT70250
1/2"	13	10	4	3	HSPUT70254
5/8"	11	10	4	3	HSPUT70256
5/8"	18	10	4	3	HSPUT70257
3/4"	10	10	4	3	HSPUT70258
3/4"	16	10	4	3	HSPUT70259
1"	8	10	4	3	HSPUT70260
1/2"	13	12	4	4	HSPUT70270
5/8"	11	12	4	4	HSPUT70272
5/8"	18	12	4	4	HSPUT70273
3/4"	10	12	4	4	HSPUT70274
1"	8	12	4	4	HSPUT70276

- Up to 1/2", 6 per pack
- 5/8" to 1", 1 per pack



B

Thread Forming Taps / Pulley Taps

SPIRAL FLUTED TAPS

HIGH SPEED STEEL • GROUND THREAD

Spiral fluted taps draw chips out of a tapped hole, thereby preventing clogging and recutting of chips. They will also bridge a keyway, or other gap inside the hole. They can be used for tapping most materials, especially mild steel, aluminum, magnesium, copper and brass in blind holes. Chamfer: Plug (3 to 5 threads) Bottoming (1 to 2 threads)

PLUG STYLE

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
3	48	2	H2	SFTP170905
3	56	2	H2	SFTP170906
4	40	2	H2	SFTP170907
4	48	2	H2	SFTP170908
5	40	2	H2	SFTP170909
5	44	2	H2	SFTP170910
6	32	2	H3	SFTP170911
6	40	2	H2	SFTP170912
8	32	2-3	H3	SFTP170913
8	36	2-3	H3	SFTP170914
10	24	2-3	H3	SFTP170915
10	32	2-3	H3	SFTP170916
12	24	2-3	H3	SFTP170917
12	28	2-3	H3	SFTP170918
FRACTIONAL SIZES				
1/4"	20	2-3	H3	SFTP170930
1/4"	28	2-3	H3	SFTP170931
5/16"	18	3	H3	SFTP170932
5/16"	24	3	H3	SFTP170933
3/8"	16	3	H3	SFTP170934
3/8"	24	3	H3	SFTP170935
7/16"	14	3-4	H3	SFTP170936
7/16"	20	3-4	H3	SFTP170937
1/2"	13	3-4	H3	SFTP170938
1/2"	20	3-4	H3	SFTP170939
9/16"	12	3-4	H3	SFTP170940
9/16"	18	3-4	H3	SFTP170941
5/8"	11	3-4	H3	SFTP170942
5/8"	18	3-4	H3	SFTP170943
3/4"	10	4	H3	SFTP170946
3/4"	16	4	H3	SFTP170947

- 3 to 1/2", 12 per pack
- 9/16" to 3/4", 6 per pack

BOTTOMING STYLE

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
3	48	2	H2	SFTB170905
3	56	2	H2	SFTB170906
4	40	2	H2	SFTB170907
4	48	2	H2	SFTB170908
5	40	2	H2	SFTB170909
5	44	2	H2	SFTB170910
6	32	2	H3	SFTB170911
6	40	2	H2	SFTB170912
8	32	2-3	H3	SFTB170913
8	36	2-3	H3	SFTB170914
10	24	2-3	H3	SFTB170915
10	32	2-3	H3	SFTB170916
12	24	2-3	H3	SFTB170917
12	28	2-3	H3	SFTB170918
FRACTIONAL SIZES				
1/4"	20	2-3	H3	SFTB170930
1/4"	28	2-3	H3	SFTB170931
5/16"	18	3	H3	SFTB170932
5/16"	24	3	H3	SFTB170933
3/8"	16	3	H3	SFTB170934
3/8"	24	3	H3	SFTB170935
7/16"	14	3-4	H3	SFTB170936
7/16"	20	3-4	H3	SFTB170937
1/2"	13	3-4	H3	SFTB170938
1/2"	20	3-4	H3	SFTB170939
9/16"	12	3-4	H3	SFTB170940
9/16"	18	3-4	H3	SFTB170941
5/8"	11	3-4	H3	SFTB170942
5/8"	18	3-4	H3	SFTB170943
3/4"	10	4	H3	SFTB170946
3/4"	16	4	H3	SFTB170947

- 3 to 1/2", 12 per pack
- 9/16" to 3/4", 6 per pack



B
Spiral Fluted Taps

HIGH PERFORMANCE SPIRAL FLUTED TAPS

PM HI-VANADIUM COBALT STEEL • GROUND THREADS • STEAM OXIDE

45° SPIRAL 8° – 10° HOOK

Extra life taps for tougher jobs

High performance taps are suitable for High Strength Steel, Tool Steel, Stainless Steel, Titanium Alloys and Nickel based Alloys.

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

NEW



TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
4	40	2	H2	SFCO70907
5	40	2	H2	SFCO70909
6	32	2	H3	SFCO70911
8	32	2	H3	SFCO70913
10	24	3	H3	SFCO70915
10	32	3	H3	SFCO70916
FRACTIONAL SIZES				
1/4"	20	3	H3	SFCO70930
1/4"	28	3	H3	SFCO70931
5/16"	18	3	H3	SFCO70932
5/16"	24	3	H3	SFCO70933

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
3/8"	16	3	H3	SFCO70934
3/8"	24	3	H3	SFCO70935
7/16"	14	3	H3	SFCO70936
7/16"	20	3	H3	SFCO70937
1/2"	13	3	H3	SFCO70938
1/2"	20	3	H3	SFCO70939
5/8"	11	3	H3	SFCO70942
5/8"	18	4	H3	SFCO70943
3/4"	10	4	H3	SFCO70946
3/4"	16	4	H3	SFCO70947

- 3 per pack



SPIRAL POINTED TAPS

SUPER HIGH SPEED STEEL • GROUND THREAD • RIGHT HAND SPIRAL

SPIRAL POINTED TAPS PLUG CHAMFER

Spiral point taps, or "gun taps", are designed for tapping through holes or blind holes which are deep enough for chips to collect at the bottom of the hole. The spiral point forces the chips ahead of the tap, thereby preventing clogging. Suitable for tapping most materials, especially those with high ductility.

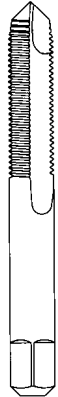
Expanded Offering!

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #	
				ALFA USA	ECO PRO
MACHINE SCREW SIZES					
0	80	2	H1	SPT170100	SPT270100
1	64	2	H1	SPT170101	SPT270101
1	72	2	H1	SPT170102	SPT270102
2	56	2	H2	SPT170103	SPT270103
2	64	2	H2	SPT170104	SPT270104
3	48	2	H2	SPT170105	SPT270105
3	56	2	H2	SPT170106	SPT270106
4	40	2	H2	SPT170107	SPT270107
4	48	2	H2	SPT170108	SPT270108
5	40	2	H2	SPT170109	SPT270109
5	44	2	H2	SPT170110	SPT270110
6	32	2	H3	SPT170111	SPT270111
6	40	2	H2	SPT170112	SPT270112
8	32	2	H3	SPT170113	SPT270113
8	36	2	H2	SPT170114	SPT270114
10	24	2	H3	SPT170115	SPT270115
10	32	2	H3	SPT170116	SPT270116
12	24	2	H3	SPT170117	SPT270117
12	28	2	H3	SPT170118	SPT270118
FRACTIONAL SIZES					
1/4"	20	2	H3	SPT170128	SPT270128
1/4"	28	2	H3	SPT170129	SPT270129
5/16"	18	2	H3	SPT170130	SPT270130
5/16"	24	2	H3	SPT170131	SPT270131
3/8"	16	2	H3	SPT170132	SPT270132
3/8"	24	3	H3	SPT170133	SPT270133
7/16"	14	3	H3	SPT170134	SPT270134
7/16"	20	3	H3	SPT170135	SPT270135
1/2"	13	3	H3	SPT170136	SPT270136
1/2"	20	3	H3	SPT170137	SPT270137
9/16"	12	3	H3	SPT170138	SPT270138
9/16"	18	3	H3	SPT170139	SPT270139
5/8"	11	3	H3	SPT170140	SPT270140
5/8"	18	3	H3	SPT170141	SPT270141
3/4"	10	3	H3	SPT170142	SPT270142
3/4"	16	3	H3	SPT170143	SPT270143
7/8"	9	3	H4	SPT170144	SPT270144
7/8"	14	3	H4	SPT170145	SPT270145
1"	8	3	H4	SPT170146	SPT270146
1"	12	3	H4	SPT170147	SPT270147
1"	14	3	H4	SPT170148	SPT270148

• 0 to 1/2", 12 per pack
9/16" to 3/4", 6 per pack
7/8" to 1", 3 per pack

METRIC SPIRAL POINTED TAPS PLUG CHAMFER

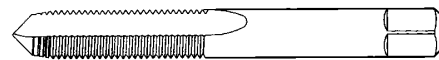
NEW



TAP SIZE MM	D LIMIT	NO. OF FLUTES	THREAD LENGTH	STOCK #	
				ALFA USA	ECO PRO
1.6 x .35	3	2	5/16	SPTM170151	SPTM270151
1.8 x .35	3	2	3/8	SPTM170152	SPTM270152
2 x .4	3	2	7/16	SPTM170153	SPTM270153
2.2 x .45	3	2	7/16	SPTM170154	SPTM270154
2.5 x .45	3	2	1/2	SPTM170155	SPTM270155
3 x .5	3	2	5/8	SPTM170156	SPTM270156
3.5 x .6	4	2	11/16	SPTM170157	SPTM270157
4 x .7	4	2	3/4	SPTM170158	SPTM270158
4.5 x .75	4	2	7/8	SPTM170159	SPTM270159
5 x .8	4	2	7/8	SPTM170160	SPTM270160
6 x 1	5	2	1	SPTM170161	SPTM270161
6.3 x 1	5	2	1	-	SPTM270162
7 x 1	5	2	1-1/8	SPTM170163	SPTM270163
8 x 1.25	5	2	1-1/8	SPTM170164	SPTM270164
8 x 1	5	2	1-1/8	SPTM170165	SPTM270165
10 x 1.5	6	3	1-1/4	SPTM170166	SPTM270166
10 x 1.25	5	3	1-1/4	SPTM170167	SPTM270167
12 x 1.75	6	3	1-21/32	SPTM170168	SPTM270168
12 x 1.25	5	3	1-21/32	SPTM170169	SPTM270169
14 x 2	7	3	1-21/32	SPTM170170	SPTM270170
14 x 1.5	6	3	1-21/32	SPTM170171	SPTM270171
16 x 2	7	3	1-13/16	SPTM170172	SPTM270172
16 x 1.5	6	3	1-13/16	SPTM170173	SPTM270173
18 x 2.5	7	4	1-13/16	SPTM170174	SPTM270174
20 x 2.5	7	3	2	SPTM170175	SPTM270175
20 x 2.5	7	4	2	-	SPTM270176

• 1.6 to 12, 12 per pack
14 to 20, 6 per pack

+ .005 OVERSIZE SPIRAL POINTED TAPS



PLUG CHAMFER

These taps will produce threads with a pitch diameter which is .005 larger than the basic pitch diameter. They are used primarily where the part will be plated or heat treated after tapping or where loss of size, for any reason, is anticipated.

TAP SIZE	TPI	NO. OF FLUTES	STOCK #
MACHINE SCREW SIZES			
6	32	2	SPTO71511
8	32	2	SPTO71513
10	24	2	SPTO71515
10	32	2	SPTO71516

• 6 to 1/2", 6 per pack

TAP SIZE	TPI	NO. OF FLUTES	STOCK #
FRACTIONAL SIZES			
1/4"	20	2	SPTO71528
1/4"	28	2	SPTO71529
5/16"	18	2	SPTO71530
5/16"	24	2	SPTO71531
3/8"	16	3	SPTO71532
3/8"	24	3	SPTO71533
1/2"	13	3	SPTO71536
1/2"	20	3	SPTO71537



SPIRAL POINTED TAPS

NEW **STEAM OXIDE SPIRAL POINTED TAPS**

HIGH SPEED STEEL • GROUND THREAD
Steam oxide surface treatment for extended wear life in ferrous metals.

PLUG CHAMFER

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
4	40	2	H2	SPTB170107
6	32	2	H3	SPTB170111
8	32	2	H3	SPTB170113
10	24	2	H3	SPTB170115
10	32	2	H3	SPTB170116
12	24	2	H3	SPTB170117
FRACTIONAL SIZES				
1/4"	20	2	H3	SPTB170128
1/4"	20	3	H3	SPTB170129
1/4"	28	2	H3	SPTB170130
5/16"	18	2	H3	SPTB170131
5/16"	24	2	H3	SPTB170132
3/8"	16	3	H3	SPTB170133
3/8"	24	3	H3	SPTB170134
7/16"	14	3	H3	SPTB170135
7/16"	20	3	H3	SPTB170136
1/2"	13	3	H3	SPTB170137
1/2"	20	3	H3	SPTB170138

• 3 taps per pack

TITANIUM NITRIDE COATED SPIRAL POINTED TAPS

HIGH SPEED STEEL • GROUND THREAD
Titanium nitride coated for greater lubricity & higher tapping speeds.

NEW



PLUG CHAMFER

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
4	40	2	H2	SPT170107TN
6	32	2	H3	SPT170111TN
8	32	2	H3	SPT170113TN
10	24	2	H3	SPT170115TN
10	32	2	H3	SPT170116TN
12	24	2	H3	SPT170117TN
FRACTIONAL SIZES				
1/4"	20	2	H3	SPT170128TN
1/4"	28	2	H3	SPT170129TN
5/16"	18	2	H3	SPT170130TN
5/16"	24	2	H3	SPT170131TN
3/8"	16	3	H3	SPT170132TN
3/8"	24	3	H3	SPT170133TN
7/16"	14	3	H3	SPT170134TN
7/16"	20	3	H3	SPT170135TN
1/2"	13	3	H3	SPT170136TN
1/2"	20	3	H3	SPT170137TN

• 3 taps per pack



HIGH PERFORMANCE SPIRAL POINTED TAPS

PM HI-VANADIUM COBALT STEEL
GROUND THREAD • STEAM OXIDE

NEW



Ultimate extra life taps for tougher jobs. High performance taps are suitable for high strength steels, tool steels, stainless steels, titanium alloys and nickel based alloys.

PLUG CHAMFER

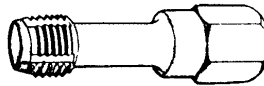
TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
MACHINE SCREW SIZES				
4	40	2	H2	SPCO90107
5	40	3	H2	SPCO90109
6	32	3	H3	SPCO90111
8	32	3	H3	SPCO90113
10	24	3	H3	SPCO90115
10	32	3	H3	SPCO90116
FRACTIONAL SIZES				
1/4"	20	3	H3	SPCO90130
1/4"	28	3	H3	SPCO90131
5/16"	18	3	H3	SPCO90132
5/16"	24	3	H3	SPCO90133
3/8"	16	3	H3	SPCO90134
3/8"	24	3	H3	SPCO90135
7/16"	14	3	H3	SPCO90136
7/16"	20	3	H3	SPCO90137
1/2"	13	3	H3	SPCO90138
1/2"	20	3	H3	SPCO90139
5/8"	11	3	H3	SPCO90142
5/8"	18	3	H3	SPCO90143
3/4"	10	4	H3	SPCO90146
3/4"	16	4	H3	SPCO90147

• 3 taps per pack

B

Spiral Pointed Taps

RETHREADING TAPS



For restoring Internal Threads without Undercutting

THREAD SIZE	STOCK #
1/4" - 20	RTT70761
1/4" - 28	RTT70762
5/16" - 18	RTT70763
5/16" - 24	RTT70764
3/8" - 16	RTT70765
3/8" - 24	RTT70766
7/16" - 14	RTT70767
7/16" - 20	RTT70768
1/2" - 13	RTT70769
1/2" - 20	RTT70770
9/16" - 12	RTT70771
9/16" - 18	RTT70772

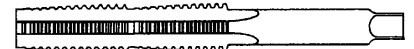
• 1/4" to 9/16", 3 per pack

4 Pc. SET **NEW**

1 each sizes: 1/4" - 20; 5/16" - 18; 3/8" - 16; 1/2" - 13 In a plastic bag	RTT70775
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ACME TAPS

HIGH SPEED STEEL
GROUND THREAD



Tandem Style, Single Pass

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK # ECO PRO
1/2" - 10	2-9/16"	5"	AT66571
5/8" - 8	3-3/16"	6-1/4"	AT66572
3/4" - 6	4-5/16"	7-15/16"	AT66573
7/8" - 6	4-3/8"	8-5/8"	AT66574
1" - 5	5-1/4"	10-1/8"	AT66575
1-1/8" - 5	5-1/4"	10-3/4"	AT66576
1-1/4" - 5	5-1/4"	11-1/8"	AT66577
1-3/8" - 4	5-7/8"	12-1/4"	AT66578
1-1/2" - 4	5-7/8"	12-5/8"	AT66579

• 1/2" to 1-1/2", 1 per pack

PIPE TAPS

HIGH SPEED STEEL • GROUND THREAD

Generally used for tapping of pipe and pipe fittings. Designed to produce threads where mated parts are not required to withstand high fluid or gas pressures, and where the use of a sealing compound or tape is acceptable to produce a leakproof thread.

TAPER PIPE TAPS, NPT

Expanded Offering!

TAP SIZE (PIPE)	TPI	THREAD LENGTH	NO. OF FLUTES	STOCK #	
				ALFA USA	ECO PRO
1/16"	27	11/16"	4	HSNPT170301	HSNPT270301
1/8"	27	3/4"	4	HSNPT170302	HSNPT270302
1/4"	18	1-1/16"	4	HSNPT170303	HSNPT270303
3/8"	18	1-1/16"	4	HSNPT170304	HSNPT270304
1/2"	14	1-3/8"	4	HSNPT170305	HSNPT270305
3/4"	14	1-3/8"	5	HSNPT170306	HSNPT270306
1"	11-1/2	1-3/4"	5	HSNPT170307	HSNPT270307
1-1/4"	11-1/2	1-3/4"	5	HSNPT170308	HSNPT270308
1-1/2"	11-1/2	1-3/4"	7	HSNPT170309	HSNPT270309
2"	11-1/2	1-3/4"	7	HSNPT170310	HSNPT270310
2-1/2"	8	2-9/16"	8	—	HSNPT270311
3"	8	2-5/8"	8	—	HSNPT270312
3-1/2"	8	2-11/16"	8	—	HSNPT270313
4"	8	2-3/4"	8	—	HSNPT270314

• 1/16" to 1/8", 12 per pack
1/4" to 3/8", 6 per pack

• 1/2" to 3/4", 3 per pack
1" to 4", 1 per pack

TAPER PIPE TAPS, NPTF (Dry Seal)

Dryseal Taps are used to tap fittings which will give a pressure tight joint without the use of a sealer.

NEW

TAP SIZE	TPI	THREAD LENGTH	NO. OF FLUTES	STOCK #	
				ALFA USA	ECO PRO
1/16"	27	11/16"	4	HSNPT180321	HSNPT280321
1/8"	27	3/4"	4	HSNPT180322	HSNPT280322
1/4"	18	1-1/16"	4	HSNPT180323	HSNPT280323
3/8"	18	1-1/16"	4	HSNPT180324	HSNPT280324
1/2"	14	1-3/8"	4	HSNPT180325	HSNPT280325
3/4"	14	1-3/8"	5	HSNPT180326	HSNPT280326
1"	11-1/2	1-3/4"	5	HSNPT180327	HSNPT280327
1-1/4"	11-1/2	1-3/4"	5	HSNPT180328	HSNPT280328

• 1/16" to 1/8", 12 per pack
1/4" to 3/8", 6 per pack

• 1/2" to 3/4", 3 per pack
1" to 1-1/4", 1 per pack

Pipe Taps & Reamers

STRAIGHT PIPE TAPS, NPS

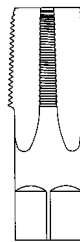
NPS pipe taps are suitable for tapping holes or couplings for low pressure work to assemble with taper threaded pipe or fittings to secure a tight joint when a sealer is used.

TAP SIZE	TPI	THREAD LENGTH	NO. OF FLUTES	STOCK #	
				ALFA USA	ECO PRO
1/16"	27	11/16"	4	HSNPS172321	HSNPS272321
1/8"	27	3/4"	4	HSNPS172323	HSNPS272323
1/4"	18	1-1/16"	4	HSNPS172324	HSNPS272324
3/8"	18	1-1/16"	4	HSNPS172325	HSNPS272325
1/2"	14	1-3/8"	4	HSNPS172326	HSNPS272326
3/4"	14	1-3/8"	5	HSNPS172327	HSNPS272327
1"	11-1/2	1-3/4"	5	HSNPS172328	HSNPS272328
1-1/4"	11-1/2	1-3/4"	5	HSNPS172329	HSNPS272329
1-1/2"	11-1/2	1-3/4"	7	HSNPS172330	HSNPS272330
2"	11-1/2	1-3/4"	7	HSNPS172331	HSNPS272331

• 1/16" to 1/8", 12 per pack
1/4" to 3/8", 6 per pack

• 1/2" to 3/4", 3 per pack
1" to 2", 1 per pack

NEW



BSP BRITISH STANDARD PIPE TAPS STRAIGHT & TAPER

TAP SIZE	TPI	STOCK #	
		BSPP STRAIGHT	BSPT TAPER
1/8"	28	BSPP70452	BSPT70342
1/4"	19	BSPP70453	BSPT70343
3/8"	19	BSPP70454	BSPT70344
1/2"	14	BSPP70455	BSPT70345
3/4"	14	BSPP70456	BSPT70346
1"	11	BSPP70457	BSPT70347
1-1/4"	11	BSPP70458	BSPT70348
1-1/2"	11	BSPP70459	BSPT70349
2"	11	BSPP70460	BSPT70350

• 3 per pack

TAPER PIPE REAMERS

3/4" PER FOOT



NPT SIZE	SMALL DIA.	LARGE DIA.	OVERALL LENGTH	STOCK #
STRAIGHT FLUTE				
1/8"	.316	.362	2-1/8"	HSPR70341
1/4"	.406	.472	2-7/16"	HSPR70342
3/8"	.540	.606	2-9/16"	HSPR70343
1/2"	.665	.751	3-1/8"	HSPR70344
3/4"	.876	.962	3-1/4"	HSPR70345
1"	1.103	1.212	3-3/4"	HSPR70346
1-1/4"	1.444	1.553	4"	HSPR70347
1-1/2"	1.684	1.793	4-1/4"	HSPR70348
2"	2.159	2.268	4-1/2"	HSPR70349
SPIRAL FLUTE				
1/8"	.316	.362	2-1/8"	HSPR70351
1/4"	.406	.472	2-7/16"	HSPR70352
3/8"	.540	.606	2-9/16"	HSPR70353
1/2"	.665	.751	3-1/8"	HSPR70354
3/4"	.876	.962	3-1/4"	HSPR70355
1"	1.103	1.212	3-3/4"	HSPR70356
1-1/4"	1.444	1.553	4"	HSPR70357
1-1/2"	1.684	1.793	4-1/4"	HSPR70358
2"	2.159	2.268	4-1/2"	HSPR70359

• 1/8" to 1/4", 6 per pack
3/8" to 3/4", 3 per pack

• 1" to 2", 1 per pack

TAPER PIPE TAPS, INTERRUPTED

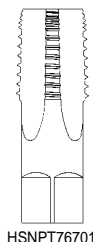
Interrupted Taper Pipe Taps are appropriate for threading a wide variety of materials both ferrous and nonferrous where chip disposal is a problem. The first few threads on an interrupted thread Pipe Tap are full; the balance of the threads are interrupted to reduce drag while taper pipe threading. These pipe taps are standard, having an odd number of flutes.

NEW

TAP SIZE	TPI	NO. OF FLUTES	OVERALL LENGTH	LENGTH OF THREAD	STOCK #
					ALFA USA
1/16"	27	5	2-1/8"	11/16"	HSNPT76701
1/8"	27	5	2-1/8"	3/4"	HSNPT76702
1/4"	18	5	2-7/16"	1-1/16"	HSNPT76703
3/8"	18	5	2-9/16"	1-1/16"	HSNPT76704
1/2"	14	5	3-1/8"	1-3/8"	HSNPT76705
3/4"	14	5	3-1/4"	1-3/8"	HSNPT76706
1"	11-1/2	5	3-3/4"	1-3/4"	HSNPT76707
1-1/4"	11-1/2	5	4"	1-3/4"	HSNPT76708
1-1/2"	11-1/2	7	4"	1-3/4"	HSNPT76709
2"	11-1/2	7	4-1/2"	1-3/4"	HSNPT76710

• 1/16" to 1/8", 12 per pack
1/4" to 3/8", 6 per pack

• 1/2" to 3/4", 3 per pack
1" to 2", 1 per pack



HSNPT76701

• ALFA USA taps are manufactured in the United States.

• ECO PRO taps are made outside the United States to ALFA TOOL'S specifications.



CARBIDE TAPS FOR UNSURPASSED TAPPING PERFORMANCE

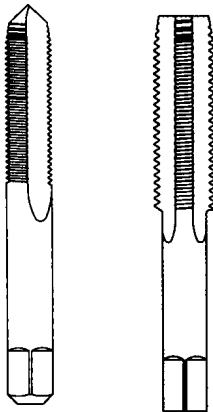
Carbide taps are manufactured from the finest Micro-Grain Carbide for exceptional wear life and durability. Ideal for long production runs where reduced tool changes means improved production efficiency. Carbide taps are an excellent choice for threading hard materials above 40 RC, such as Alloy Steels, Stainless Steels and Exotic materials: Stellite; Hastalag; Inconel; Waspaloy, etc. Also used extensively for threading Plastics, Aluminum, Zinc Castings, Beryllium, Cast Iron, Teflon.

NEW

CARBIDE TAPS

B

Carbide Taps



TAP SIZE	TPI		NO. OF FLUTES	GRIND LIMITS	TAPER STOCK #	PLUG STOCK #	BOTTOM STOCK #
	NC	NF					
MACHINE SCREW SIZES							
6	32	NC	3	H3	CHTT170011	CHTP170011	CHTB170011
6	40	NF	3	H2	CHTT170012	CHTP170012	CHTB170012
8	32	NC	4	H3	CHTT170013	CHTP170013	CHTB170013
8	36	NF	4	H2	CHTT170014	CHTP170014	CHTB170014
10	24	NC	4	H3	CHTT170015	CHTP170015	CHTB170015
10	32	NF	4	H3	CHTT170016	CHTP170016	CHTB170016
12	24	NC	4	H3	CHTT170017	CHTP170017	CHTB170017
12	28	NF	4	H3	CHTT170018	CHTP170018	CHTB170018
FRACTIONAL SIZES							
1/4"	20	NC	4	H3	CHTT170030	CHTP170030	CHTB170030
1/4"	28	NF	4	H3	CHTT170031	CHTP170031	CHTB170031
5/16"	18	NC	4	H3	CHTT170032	CHTP170032	CHTB170032
5/16"	24	NF	4	H3	CHTT170033	CHTP170033	CHTB170033
3/8"	16	NC	4	H3	CHTT170034	CHTP170034	CHTB170034
3/8"	24	NF	4	H3	CHTT170035	CHTP170035	CHTB170035

• 1 per pack

CARBIDE SPIRAL POINTED TAPS

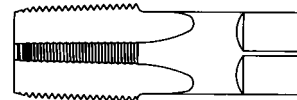


NEW

TAP SIZE	TPI	NO. OF FLUTES	GROUND LIMITS	STOCK #
MACHINE SCREW SIZES				
6	32	2	H3	SCSPT70111
8	32	2	H3	SCSPT70113
10	24	2	H3	SCSPT70115
10	32	2	H3	SCSPT70116
FRACTIONAL SIZES				
1/4"	20	2	H3	SCSPT70128
1/4"	28	2	H3	SCSPT70129
5/16"	18	2	H3	SCSPT70130
5/16"	24	2	H3	SCSPT70131
3/8"	16	3	H3	SCSPT70132
3/8"	24	3	H3	SCSPT70133

• 1 per pack

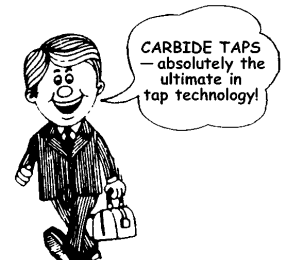
CARBIDE TAPER PIPE TAPS, NPT



NEW

TAP SIZE	TPI	NO. OF FLUTES	STOCK #
1/4"	18	4	SCNPT170303
1/2"	14	4	SCNPT170305
3/4"	14	5	SCNPT170306
1"	11-1/2	5	SCNPT170307

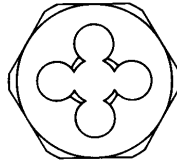
• 1 per pack



HEXAGON DIES

HIGH SPEED STEEL • RIGHT HAND THREAD

Designed for tough cutting applications of all types of external threads.
Versatile hexagon shape assures use with die stock or ordinary adjustable wrench.



NEW

NEW

B

Hexagon Dies

THREAD SIZE	TPI NC, NF, NS	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
MACHINE SCREW SIZES				
4	40	19/32"	1/4"	HSHD74501
6	32	19/32"	1/4"	HSHD74503
8	32	19/32"	1/4"	HSHD74505
10	24	19/32"	1/4"	HSHD74507
10	32	19/32"	1/4"	HSHD74509
12	24	19/32"	1/4"	HSHD74511
FRACTIONAL SIZES				
1/4"	20	19/32"	1/4"	HSHD74512
1/4"	28	19/32"	1/4"	HSHD74513
5/16"	18	11/16"	5/16"	HSHD74514
5/16"	24	11/16"	5/16"	HSHD74515
3/8"	16	25/32"	3/8"	HSHD74516
3/8"	24	25/32"	3/8"	HSHD74517
7/16"	14	7/8"	7/16"	HSHD74518
7/16"	20	7/8"	7/16"	HSHD74519
1/2"	13	1-1/16"	1/2"	HSHD74520
1/2"	20	1-1/16"	1/2"	HSHD74521
9/16"	12	1-1/16"	1/2"	HSHD74522
9/16"	18	1-1/16"	1/2"	HSHD74523
5/8"	11	1-1/4"	5/8"	HSHD74524
5/8"	18	1-1/4"	5/8"	HSHD74525
3/4"	10	1-7/16"	3/4"	HSHD74526
3/4"	16	1-7/16"	3/4"	HSHD74527
7/8"	9	1-5/8"	7/8"	HSHD74528
7/8"	14	1-5/8"	7/8"	HSHD74529
1"	8	1-13/16"	1"	HSHD74530
1"	12	1-13/16"	1"	HSHD74531
1"	14	1-13/16"	1"	HSHD74532
1-1/8"	7	2"	1"	HSHD74533
1-1/8"	12	2"	1"	HSHD74534
1-1/4"	7	2-3/16"	1"	HSHD74535
1-1/4"	12	2-3/16"	1"	HSHD74536
1-3/8"	6	2-3/8"	1"	HSHD74537
1-3/8"	12	2-3/8"	1"	HSHD74538
1-1/2"	6	2-9/16"	1"	HSHD74539
1-1/2"	12	2-9/16"	1"	HSHD74540

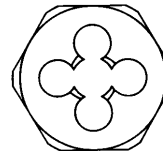
• Up to 5/16", 6 per pack
Up to 1/2", 3 per pack
Up to 1-1/2", 1 per pack

THREAD SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
NPT SIZES				
1/8"	27	25/32"	3/8"	HSHD74551
1/4"	18	1-1/16"	1/2"	HSHD74552
3/8"	18	1-1/4"	5/8"	HSHD74553
1/2"	14	1-7/16"	3/4"	HSHD74554
3/4"	14	1-13/16"	1"	HSHD74555
1"	11-1/2	2-3/16"	1"	HSHD74556
1-1/4"	11-1/2	2-9/16"	1"	HSHD74557
1-1/2"	11-1/2	3-1/8"	1"	HSHD74558
2"	11-1/2	4-1/2"	1-1/2"	HSHD74559

• 1/8" to 1/2", 6 per pack
3/4" to 2", 1 per pack

EIGHT PITCH HEXAGON DIES

HIGH CARBON STEEL



TAP SIZE	TPI	STOCK #
1-1/8"	8	CSRTD70751
1-1/4"	8	CSRTD70752
1-3/8"	8	CSRTD70753
1-1/2"	8	CSRTD70754
1-5/8"	8	CSRTD70755
1-3/4"	8	CSRTD70756
1-7/8"	8	CSRTD70757
2"	8	CSRTD70758
2-1/8"	8	CSRTD70759
2-1/4"	8	CSRTD70760
2-3/8"	8	CSRTD70761
2-1/2"	8	CSRTD70762
2-5/8"	8	CSRTD70763
2-3/4"	8	CSRTD70764
2-7/8"	8	CSRTD70765
3"	8	CSRTD70766
3-1/4"	8	CSRTD70767
3-1/2"	8	CSRTD70768
3-3/4"	8	CSRTD70769
4"	8	CSRTD70770

• 1 per pack



ADJUSTABLE ROUND DIES

HIGH SPEED STEEL • STANDARD THREAD

For threading where a high speed steel round adjustable die is desired for improved wear life. Ideal for precision threading with the adjustment of die made by set screws. Adjustment dies allow the user to under or over cut their threads.

TAP SIZE	TPI NC, NF, NS	STOCK #						
		13/16" O.D.	1" O.D.	1-1/2" O.D.	2" O.D.	2-1/2" O.D.	3" O.D.	4" O.D.
MACHINE SCREW SIZES								
5	40	HSRD70401	-	-	-	-	-	-
5	44	HSRD70402	-	-	-	-	-	-
6	32	HSRD70403	HSRD70420	-	-	-	-	-
6	40	HSRD70404	-	-	-	-	-	-
8	32	HSRD70405	HSRD70422	-	-	-	-	-
8	36	HSRD70406	-	-	-	-	-	-
10	24	HSRD70407	HSRD70424	-	-	-	-	-
10	32	HSRD70408	HSRD70426	-	-	-	-	-
12	24	HSRD70409	-	-	-	-	-	-
12	28	HSRD70410	-	-	-	-	-	-
FRACTIONAL SIZES								
1/4"	20	HSRD70411	HSRD70428	HSRD70440	-	-	-	-
1/4"	28	HSRD70412	HSRD70429	HSRD70441	-	-	-	-
5/16"	18	HSRD70413	HSRD70430	HSRD70442	-	-	-	-
5/16"	24	HSRD70414	HSRD70431	HSRD70443	-	-	-	-
3/8"	16	-	HSRD70432	HSRD70444	-	-	-	-
3/8"	24	-	HSRD70433	HSRD70445	-	-	-	-
7/16"	14	-	-	HSRD70446	-	-	-	-
7/16"	20	-	-	HSRD70447	-	-	-	-
1/2"	13	-	-	HSRD70448	-	-	-	-
1/2"	20	-	-	HSRD70449	-	-	-	-
9/16"	12	-	-	HSRD70450	-	-	-	-
9/16"	18	-	-	HSRD70451	-	-	-	-
5/8"	11	-	-	HSRD70452	HSRD70460	-	-	-
5/8"	18	-	-	HSRD70453	HSRD70461	-	-	-
3/4"	10	-	-	-	HSRD70462	-	-	-
3/4"	16	-	-	-	HSRD70463	-	-	-
7/8"	9	-	-	-	HSRD70464	-	-	-
7/8"	14	-	-	-	HSRD70465	-	-	-
1"	8	-	-	-	HSRD70466	-	-	-
1"	12	-	-	-	HSRD70467	-	-	-
1"	14	-	-	-	HSRD70468	-	-	-
NPT SIZES								
1/16"	27	-	HSRD70470	-	-	-	-	-
1/8"	27	-	HSRD70471	HSRD70472	-	-	-	-
1/4"	18	-	-	HSRD70473	HSRD70475	-	-	-
3/8"	18	-	-	HSRD70474	HSRD70476	-	-	-
1/2"	14	-	-	-	HSRD70477	-	-	-
3/4"	14	-	-	-	HSRD70478	-	-	-
1"	11-1/2	-	-	-	-	HSRD70479	-	-
1-1/4"	11-1/2	-	-	-	-	-	HSRD70480	-
1-1/2"	11-1/2	-	-	-	-	-	HSRD70481	HSRD70482
2"	11-1/2	-	-	-	-	-	-	HSRD70483
METRIC SIZES								
2.5	0.45	HSRDM71604	-	-	-	-	-	-
3	0.5	HSRDM71610	-	-	-	-	-	-
3.5	0.6	HSRDM71612	-	-	-	-	-	-
4	0.5	HSRDM71613	-	-	-	-	-	-
4	0.7	HSRDM71615	-	-	-	-	-	-
5	0.8	HSRDM71616	-	-	-	-	-	-
6	1	HSRDM71619	HSRDM71620	-	-	-	-	-
6.3	1	-	HSRDM71622	-	-	-	-	-
7	1	-	HSRDM71623	-	-	-	-	-
8	1.25	-	HSRDM71624	-	-	-	-	-
10	1.5	-	HSRDM71627	-	-	-	-	-
12	1.75	-	HSRDM71631	-	-	-	-	-
14	2	-	-	HSRDM71634	-	-	-	-
16	2	-	-	HSRDM71637	-	-	-	-
18	2.5	-	-	HSRDM71639	-	-	-	-
20	2.5	-	-	HSRDM71643	-	-	-	-

• 13/16" O.D., 6 per pack
 1" O.D., 6 per pack
 1-1/2" O.D. up to 5/16", 6 per pack
 up to 1/2", . 3 per pack
 up to 5/8", . 1 per pack
 2" O.D., 1 per pack

• 1" & 1-1/2" O.D., 6 per pack
 2", 2-1/2", 3" & 4" O.D., 1 per pack

• 13/16" & 1" O.D., 6 per pack
 1-1/2" O.D., 1 per pack

B

Adjustable Round Dies





ADJUSTABLE ROUND DIES - SPECIAL THREAD

HIGH SPEED STEEL

INCH SIZES – MACHINE SCREW & FRACTIONAL

NEW**B**

Adjustable Round Dies

SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #
1" O.D.		1" O.D.		1-1/2" O.D.		1-1/2" O.D.		2" O.D.	
4-36	RDSP74710	5/16-30	RDSP74765	1/4-22	RDSP74810	1/2-48	RDSP74865	7/16-18	RDSP75030
4-56	RDSP74711	5/16-32	RDSP74766	1/4-24	RDSP74811	1/2-56	RDSP74866	7/16-24	RDSP75031
4-60	RDSP74712	5/16-36	RDSP74767	1/4-27	RDSP74812	9/16-14	RDSP74867	1/2-12	RDSP75032
4-64	RDSP74713	5/16-40	RDSP74768	1/4-30	RDSP74813	9/16-16	RDSP74868	1/2-16	RDSP75033
5-48	RDSP74714	5/16-48	RDSP74769	1/4-32	RDSP74814	9/16-20	RDSP74869	1/2-18	RDSP75034
5-56	RDSP74715	3/8-14	RDSP74770	1/4-36	RDSP74815	9/16-22	RDSP74870	1/2-24	RDSP75035
5-64	RDSP74716	3/8-18	RDSP74771	1/4-40	RDSP74816	9/16-24	RDSP74871	1/2-27	RDSP75036
6-30	RDSP74717	3/8-20	RDSP74772	1/4-48	RDSP74817	9/16-27	RDSP74872	1/2-28	RDSP75037
6-36	RDSP74718	3/8-22	RDSP74773	5/16-16	RDSP74818	9/16-28	RDSP74873	1/2-30	RDSP75038
6-48	RDSP74719	3/8-26	RDSP74774	5/16-20	RDSP74819	9/16-30	RDSP74874	1/2-32	RDSP75039
6-56	RDSP74720	3/8-27	RDSP74775	5/16-22	RDSP74820	9/16-32	RDSP74875	9/16-14	RDSP75040
8-24	RDSP74721	3/8-28	RDSP74776	5/16-27	RDSP74821	9/16-36	RDSP74876	9/16-20	RDSP75041
8-30	RDSP74722	3/8-30	RDSP74777	5/16-28	RDSP74822	9/16-40	RDSP74877	9/16-24	RDSP75042
8-40	RDSP74723	3/8-32	RDSP74778	5/16-30	RDSP74823	5/8-10	RDSP74878	9/16-27	RDSP75043
8-48	RDSP74724	3/8-36	RDSP74779	5/16-32	RDSP74824	5/8-12	RDSP74879	9/16-28	RDSP75044
8-56	RDSP74725	3/8-40	RDSP74780	5/16-36	RDSP74825	5/8-14	RDSP74880	9/16-30	RDSP75045
10-26	RDSP74726	3/8-48	RDSP74781	5/16-40	RDSP74826	5/8-16	RDSP74881	9/16-32	RDSP75046
10-27	RDSP74727	7/16-16	RDSP74782	5/16-48	RDSP74827	5/8-20	RDSP74882	9/16-36	RDSP75047
10-28	RDSP74728	7/16-18	RDSP74783	3/8-14	RDSP74828	5/8-22	RDSP74883	5/8-10	RDSP75048
10-30	RDSP74729	7/16-24	RDSP74784	3/8-18	RDSP74829	5/8-24	RDSP74884	5/8-12	RDSP75049
10-36	RDSP74730	7/16-27	RDSP74785	3/8-20	RDSP74830	5/8-26	RDSP74885	5/8-14	RDSP75050
10-40	RDSP74731	7/16-28	RDSP74786	3/8-22	RDSP74831	5/8-27	RDSP74886	5/8-16	RDSP75051
10-48	RDSP74732	7/16-30	RDSP74787	3/8-26	RDSP74832	5/8-28	RDSP74887	5/8-20	RDSP75052
10-56	RDSP74733	7/16-32	RDSP74788	3/8-27	RDSP74833	5/8-30	RDSP74888	5/8-24	RDSP75053
12-26	RDSP74734	7/16-36	RDSP74789	3/8-28	RDSP74834	5/8-32	RDSP74889	5/8-27	RDSP75054
12-27	RDSP74735	7/16-40	RDSP74790	3/8-30	RDSP74835	5/8-36	RDSP74890	5/8-28	RDSP75055
12-30	RDSP74736	1/2-12	RDSP74791	3/8-32	RDSP74836	5/8-40	RDSP74891	5/8-30	RDSP75056
12-32	RDSP74737	1/2-14	RDSP74792	3/8-36	RDSP74837	5/8-48	RDSP74892	5/8-32	RDSP75057
12-36	RDSP74738	1/2-16	RDSP74793	3/8-40	RDSP74838	11/16-12	RDSP74893	5/8-40	RDSP75058
12-40	RDSP74739	1/2-18	RDSP74794	3/8-48	RDSP74839	11/16-14	RDSP74894	11/16-12	RDSP75059
12-48	RDSP74740	1/2-22	RDSP74795	7/16-12	RDSP74840	11/16-18	RDSP74895	11/16-14	RDSP75060
12-56	RDSP74741	1/2-24	RDSP74796	7/16-16	RDSP74841	11/16-20	RDSP74896	11/16-18	RDSP75061
14-27	RDSP74742	1/2-27	RDSP74797	7/16-18	RDSP74842	11/16-24	RDSP74897	11/16-20	RDSP75062
14-28	RDSP74743	1/2-28	RDSP74798	7/16-22	RDSP74843	11/16-27	RDSP74898	11/16-24	RDSP75063
14-30	RDSP74744	1/2-30	RDSP74799	7/16-24	RDSP74844	11/16-30	RDSP74899	11/16-27	RDSP75064
14-32	RDSP74745	1/2-32	RDSP74800	7/16-27	RDSP74845	11/16-32	RDSP75000	11/16-32	RDSP75065
14-48	RDSP74746	1/2-36	RDSP74801	7/16-28	RDSP74846	3/4-12	RDSP75001	11/16-36	RDSP75066
1/4-14	RDSP74747	1/2-40	RDSP74802	7/16-30	RDSP74847	3/4-14	RDSP75002	11/16-40	RDSP75067
1/4-16	RDSP74748	1/2-48	RDSP74803	7/16-32	RDSP74848	3/4-18	RDSP75003	3/4-12	RDSP75068
1/4-18	RDSP74749			7/16-36	RDSP74849	3/4-20	RDSP75004	3/4-14	RDSP75069
1/4-22	RDSP74750			7/16-40	RDSP74850	3/4-24	RDSP75005	3/4-18	RDSP75070
1/4-24	RDSP74751			7/16-48	RDSP74851	3/4-27	RDSP75006	3/4-20	RDSP75071
1/4-26	RDSP74752			15/32-32	RDSP74852	3/4-28	RDSP75007	3/4-24	RDSP75072
1/4-27	RDSP74753			1/2-12	RDSP74853	3/4-30	RDSP75008	3/4-27	RDSP75073
1/4-30	RDSP74754			1/2-14	RDSP74854	3/4-32	RDSP75009	3/4-28	RDSP75074
1/4-32	RDSP74755			1/2-16	RDSP74855	3/4-36	RDSP75010	3/4-32	RDSP75075
1/4-36	RDSP74756			1/2-18	RDSP74856	3/4-40	RDSP75011	3/4-36	RDSP75076
1/4-40	RDSP74757			1/2-22	RDSP74857	3/4-48	RDSP75012	3/4-40	RDSP75077
1/4-48	RDSP74758			1/2-24	RDSP74858	13/16-10	RDSP75013	13/16-10	RDSP75078
1/4-56	RDSP74759			1/2-27	RDSP74859	13/16-12	RDSP75014	13/16-12	RDSP75079
5/16-16	RDSP74760			1/2-28	RDSP74860	13/16-16	RDSP75015	13/16-14	RDSP75080
5/16-20	RDSP74761			1/2-30	RDSP74861	13/16-20	RDSP75016	13/16-16	RDSP75081
5/16-22	RDSP74762			1/2-32	RDSP74862	13/16-24	RDSP75017		
5/16-27	RDSP74763			1/2-36	RDSP74863	13/16-28	RDSP75018		
5/16-28	RDSP74764			1/2-40	RDSP74864	13/16-32	RDSP75019		

Continued



ADJUSTABLE ROUND DIES - SPECIAL THREAD

HIGH SPEED STEEL

INCH SIZES – MACHINE SCREW & FRACTIONAL

NEW

SIZE	STOCK #
2" O.D.	
13/16-18	RDSP75082
13/16-20	RDSP75083
13/16-24	RDSP75084
13/16-27	RDSP75085
13/16-30	RDSP75086
13/16-32	RDSP75087
13/16-36	RDSP75088
13/16-40	RDSP75089
7/8-10	RDSP75090
7/8-12	RDSP75091
7/8-16	RDSP75092
7/8-18	RDSP75093
7/8-20	RDSP75094
7/8-24	RDSP75095
7/8-27	RDSP75096
7/8-28	RDSP75097
7/8-30	RDSP75098
7/8-32	RDSP75099
7/8-36	RDSP75100
7/8-40	RDSP75101
15/16-10	RDSP75102
15/16-12	RDSP75103
15/16-14	RDSP75104
15/16-16	RDSP75105
15/16-18	RDSP75106
15/16-20	RDSP75107
15/16-24	RDSP75108
15/16-27	RDSP75109
15/16-28	RDSP75110
15/16-30	RDSP75111
15/16-32	RDSP75112
1-10	RDSP75113
1-16	RDSP75114
1-18	RDSP75115
1-20	RDSP75116
1-24	RDSP75117
1-27	RDSP75118
1-28	RDSP75119
1-30	RDSP75120
1-32	RDSP75121
1-36	RDSP75122
1-40	RDSP75123
1-48	RDSP75124
1-56	RDSP75125

SIZE	STOCK #
2-1/2" O.D.	
1-10	RDSP75130
1-16	RDSP75131
1-18	RDSP75132
1-20	RDSP75133
1-24	RDSP75134
1-26	RDSP75135
1-27	RDSP75136
1-28	RDSP75137
1-32	RDSP75138
1-1/16-7	RDSP75139
1-1/16-8	RDSP75140
1-1/16-10	RDSP75141
1-1/16-12	RDSP75142
1-1/16-14	RDSP75143
1-1/16-16	RDSP75144
1-1/16-18	RDSP75145
1-1/16-20	RDSP75146
1-1/16-24	RDSP75147
1-1/16-28	RDSP75148
1-1/8-8	RDSP75149
1-1/8-10	RDSP75150
1-1/8-14	RDSP75151
1-1/8-16	RDSP75152
1-1/8-18	RDSP75153
1-1/8-20	RDSP75154
1-1/8-24	RDSP75155
1-1/8-26	RDSP75156
1-1/8-27	RDSP75157
1-1/8-28	RDSP75158
1-1/8-30	RDSP75159
1-1/8-32	RDSP75160
1-3/16-7	RDSP75161
1-3/16-8	RDSP75162
1-3/16-12	RDSP75163
1-3/16-14	RDSP75164
1-3/16-16	RDSP75165
1-3/16-18	RDSP75166
1-3/16-20	RDSP75167
1-3/16-24	RDSP75168
1-3/16-27	RDSP75169
1-3/16-28	RDSP75170
1-3/16-32	RDSP75171
1-1/4-8	RDSP75172
1-1/4-10	RDSP75173
1-1/4-14	RDSP75174
1-1/4-16	RDSP75175
1-1/4-18	RDSP75176
1-1/4-20	RDSP75177

SIZE	STOCK #
2-1/2" O.D.	
1-1/4-24	RDSP75178
1-1/4-26	RDSP75179
1-1/4-27	RDSP75180
1-1/4-28	RDSP75181
1-1/4-30	RDSP75182
1-1/4-32	RDSP75183
1-1/4-36	RDSP75184
1-1/4-40	RDSP75185
1-5/16-8	RDSP75186
1-5/16-12	RDSP75187
1-5/16-14	RDSP75188
1-5/16-16	RDSP75189
1-5/16-18	RDSP75190
1-5/16-20	RDSP75191
1-5/16-24	RDSP75192
1-5/16-27	RDSP75193
1-5/16-32	RDSP75194
1-3/8-7	RDSP75195
1-3/8-8	RDSP75196
1-3/8-10	RDSP75197
1-3/8-14	RDSP75198
1-3/8-16	RDSP75199
1-3/8-18	RDSP75200
1-3/8-20	RDSP75201
1-3/8-24	RDSP75202
1-3/8-27	RDSP75203
1-3/8-32	RDSP75204
1-7/16-6	RDSP75205
1-7/16-8	RDSP75206
1-7/16-12	RDSP75207
1-7/16-16	RDSP75208
1-7/16-18	RDSP75209
1-1/2-7	RDSP75210
1-1/2-8	RDSP75211
1-1/2-10	RDSP75212
1-1/2-14	RDSP75213
1-1/2-16	RDSP75214
1-1/2-18	RDSP75215
1-1/2-20	RDSP75216
1-1/2-24	RDSP75217
1-1/2-27	RDSP75218
1-1/2-30	RDSP75219
1-1/2-32	RDSP75220

SIZE	STOCK #
3" O.D.	
1-10	RDSP75230
1-16	RDSP75231
1-18	RDSP75232
1-20	RDSP75233
1-24	RDSP75234
1-1/16-8	RDSP75235
1-1/16-10	RDSP75236
1-1/16-12	RDSP75237
1-1/16-14	RDSP75238
1-1/16-16	RDSP75239
1-1/16-18	RDSP75240
1-1/16-20	RDSP75241
1-1/16-24	RDSP75242
1-1/8-8	RDSP75243
1-1/8-10	RDSP75244
1-1/8-14	RDSP75245
1-1/8-16	RDSP75246
1-1/8-18	RDSP75247
1-1/8-20	RDSP75248
1-1/8-24	RDSP75249
1-3/16-8	RDSP75250
1-3/16-12	RDSP75251
1-3/16-16	RDSP75252
1-1/4-6	RDSP75253
1-1/4-8	RDSP75254
1-1/4-10	RDSP75255
1-1/4-14	RDSP75256
1-1/4-16	RDSP75257
1-1/4-18	RDSP75258
1-1/4-20	RDSP75259
1-1/4-24	RDSP75260
1-5/16-8	RDSP75261
1-5/16-10	RDSP75262
1-5/16-12	RDSP75263
1-5/16-14	RDSP75264
1-5/16-16	RDSP75265
1-5/16-18	RDSP75266
1-5/16-20	RDSP75267
1-3/8-8	RDSP75268
1-3/8-10	RDSP75269
1-3/8-14	RDSP75270
1-3/8-16	RDSP75271
1-3/8-18	RDSP75272
1-3/8-20	RDSP75273
1-3/8-24	RDSP75274
1-7/16-6	RDSP75275
1-7/16-8	RDSP75276
1-7/16-12	RDSP75277
1-7/16-16	RDSP75278
1-7/16-18	RDSP75279
1-1/2-8	RDSP75280
1-1/2-10	RDSP75281

SIZE	STOCK #
3" O.D.	
1-1/2-14	RDSP75282
1-1/2-16	RDSP75283
1-1/2-18	RDSP75284
1-1/2-20	RDSP75285
1-1/2-24	RDSP75286
1-9/16-6	RDSP75287
1-9/16-8	RDSP75288
1-9/16-12	RDSP75289
1-9/16-16	RDSP75290
1-9/16-18	RDSP75291
1-5/8-5	RDSP75292
1-5/8-5-1/2	RDSP75293
1-5/8-6	RDSP75294
1-5/8-8	RDSP75295
1-5/8-10	RDSP75296
1-5/8-12	RDSP75297
1-5/8-14	RDSP75298
1-5/8-18	RDSP75299
1-5/8-20	RDSP75300
1-11/16-6	RDSP75301
1-11/16-8	RDSP75302
1-11/16-12	RDSP75303
1-11/16-16	RDSP75304
1-11/16-18	RDSP75305
1-3/4-5-1/2	RDSP75306
1-3/4-6	RDSP75307
1-3/4-8	RDSP75308
1-3/4-10	RDSP75309
1-3/4-14	RDSP75310
1-3/4-16	RDSP75311
1-3/4-20	RDSP75312
1-3/4-24	RDSP75313
1-7/8-5	RDSP75314
1-7/8-5-1/2	RDSP75315
1-7/8-6	RDSP75316
1-7/8-8	RDSP75317
1-7/8-10	RDSP75318
1-7/8-12	RDSP75319
1-7/8-14	RDSP75320
1-7/8-16	RDSP75321
1-7/8-18	RDSP75322
1-7/8-20	RDSP75323
2-4	RDSP75324
2-6	RDSP75325
2-8	RDSP75326
2-10	RDSP75327
2-14	RDSP75328
2-16	RDSP75329
2-18	RDSP75330
2-20	RDSP75331
2-24	RDSP75332

• 1 per pack

B

Adjustable Round Dies





ADJUSTABLE ROUND DIES - SPECIAL THREAD

HIGH SPEED STEEL

METRIC SIZES

NEW

B

Adjustable Round Dies

SIZE	STOCK #
1" O.D.	
3 x 0.35	RDSPM75320
3 x 0.60	RDSPM75321
3 x 0.75	RDSPM75322
3.5 x 0.35	RDSPM75323
3.5 x 0.50	RDSPM75324
4 x 0.50	RDSPM75325
4 x 0.35	RDSPM75326
4 x 0.60	RDSPM75327
4 x 0.75	RDSPM75328
4 x 1.00	RDSPM75329
4.5 x 0.50	RDSPM75330
4.5 x 1.00	RDSPM75331
5 x 0.50	RDSPM75332
5 x 0.75	RDSPM75333
5 x 0.90	RDSPM75334
5 x 1.00	RDSPM75335
5.5 x 0.50	RDSPM75336
5.5 x 0.70	RDSPM75337
5.5 x 0.90	RDSPM75338
6 x 0.50	RDSPM75339
6 x 0.75	RDSPM75340
6 x 1.25	RDSPM75341
6 x 1.50	RDSPM75342
7 x 0.50	RDSPM75343
7 x 0.75	RDSPM75344
7 x 1.25	RDSPM75345
8 x 0.50	RDSPM75346
8 x 0.75	RDSPM75347
8 x 1.50	RDSPM75348
8 x 1.75	RDSPM75349
9 x 0.50	RDSPM75350
9 x 0.75	RDSPM75351
9 x 1.00	RDSPM75352
9 x 1.25	RDSPM75353
9 x 1.50	RDSPM75354
9 x 1.75	RDSPM75355
10 x 0.50	RDSPM75356
10 x 0.75	RDSPM75357
10 x 1.00	RDSPM75358
10 x 1.75	RDSPM75359
10 x 2.00	RDSPM75360
11 x 0.50	RDSPM75361
11 x 0.75	RDSPM75362
11 x 1.00	RDSPM75363
11 x 1.25	RDSPM75364
11 x 1.50	RDSPM75365
11 x 1.75	RDSPM75366
11 x 2.00	RDSPM75367
12 x 0.50	RDSPM75368
12 x 0.75	RDSPM75369
12 x 1.00	RDSPM75370
12 x 1.50	RDSPM75371
12 x 2.00	RDSPM75372

SIZE	STOCK #
1-1/2" O.D.	
9 x 0.50	RDSPM75410
9 x 0.75	RDSPM75411
9 x 1.00	RDSPM75412
9 x 1.25	RDSPM75413
10 x 0.50	RDSPM75414
10 x 0.75	RDSPM75415
10 x 1.00	RDSPM75416
11 x 0.50	RDSPM75417
11 x 0.75	RDSPM75418
11 x 1.00	RDSPM75419
11 x 1.25	RDSPM75420
11 x 1.50	RDSPM75421
12 x 0.50	RDSPM75422
12 x 0.75	RDSPM75423
12 x 1.00	RDSPM75424
12 x 1.50	RDSPM75425
12 x 2.00	RDSPM75426
13 x 0.50	RDSPM75427
13 x 0.75	RDSPM75428
13 x 1.00	RDSPM75429
13 x 1.25	RDSPM75430
13 x 1.50	RDSPM75431
13 x 1.75	RDSPM75432
13 x 2.00	RDSPM75433
14 x 0.50	RDSPM75434
14 x 0.75	RDSPM75435
14 x 1.00	RDSPM75436
14 x 1.25	RDSPM75437
14 x 1.75	RDSPM75438
15 x 0.50	RDSPM75439
15 x 1.00	RDSPM75440
15 x 1.50	RDSPM75441
15 x 2.00	RDSPM75442
16 x 0.50	RDSPM75443
16 x 0.75	RDSPM75444
16 x 1.00	RDSPM75445
16 x 1.25	RDSPM75446
16 x 1.75	RDSPM75447
17 x 0.50	RDSPM75448
17 x 1.00	RDSPM75449
17 x 1.50	RDSPM75450
17 x 2.00	RDSPM75451
18 x 0.50	RDSPM75452
18 x 1.00	RDSPM75453
18 x 1.25	RDSPM75454
18 x 1.75	RDSPM75455
18 x 2.00	RDSPM75456
19 x 0.50	RDSPM75457
19 x 1.00	RDSPM75458
19 x 1.50	RDSPM75459
19 x 2.00	RDSPM75460
20 x 1.00	RDSPM75461
20 x 1.25	RDSPM75462
20 x 1.75	RDSPM75463
20 x 2.00	RDSPM75464

SIZE	STOCK #
2" O.D.	
18 x 1.00	RDSPM75510
19 x 1.50	RDSPM75511
20 x 1.00	RDSPM75512
20 x 1.25	RDSPM75513
20 x 2.00	RDSPM75514
21 x 1.00	RDSPM75515
21 x 1.50	RDSPM75516
21 x 2.00	RDSPM75517
21 x 2.50	RDSPM75518
22 x 1.00	RDSPM75519
22 x 2.00	RDSPM75520
23 x 1.00	RDSPM75521
23 x 1.50	RDSPM75522
23 x 2.00	RDSPM75523
23 x 2.50	RDSPM75524
24 x 1.50	RDSPM75525
25 x 1.00	RDSPM75526
25 x 1.50	RDSPM75527
25 x 2.00	RDSPM75528
25 x 2.50	RDSPM75529
26 x 1.50	RDSPM75530
26 x 2.00	RDSPM75531
27 x 1.00	RDSPM75532
27 x 1.50	RDSPM75533
28 x 1.00	RDSPM75534
28 x 1.50	RDSPM75535
28 x 2.00	RDSPM75536
30 x 1.00	RDSPM75537
30 x 1.50	RDSPM75538
30 x 2.00	RDSPM75539
30 x 3.00	RDSPM75540
2-1/2" O.D.	
32 x 1.50	RDSPM75610
33 x 1.50	RDSPM75611
34 x 1.50	RDSPM75612
35 x 1.00	RDSPM75613
35 x 1.50	RDSPM75614
36 x 1.50	RDSPM75615
38 x 1.50	RDSPM75620

SIZE	STOCK #
3" O.D.	
39 x 1.50	RDSPM75621
40 x 1.50	RDSPM75622
42 x 1.50	RDSPM75623
42 x 3.00	RDSPM75624
42 x 4.50	RDSPM75625
45 x 1.50	RDSPM75626
45 x 3.00	RDSPM75627
45 x 4.50	RDSPM75628
48 x 1.50	RDSPM75629
48 x 3.00	RDSPM75630
48 x 5.00	RDSPM75631
50 x 1.50	RDSPM75632
52 x 1.50	RDSPM75633
52 x 3.00	RDSPM75634
52 x 5.00	RDSPM75635

• 1 per pack

HAND TAPS CARBON STEEL

CUT THREAD • RIGHT HAND • BRIGHT FINISH

(Taper, Plug, Bottoming & Sets)

Precision made from high carbon tool steel. Ideal for hand threading in routine maintenance, repair work and for rethreading applications.

NC = National Coarse NF = National Fine NS = National Standard SP = Spark Plug



TAP SIZE	TPI NC, NF, NS	TAPER STOCK # BULK	PLUG STOCK # BULK	PLUG STOCK # CARDED	BOTTOM STOCK # BULK	SET OF 3 STOCK # BOXED
MACHINE SCREW SIZES						
0	80 NF	CSHTT70500	CSHTP70500	CSHTP70500C	CSHTB70500	CSHTS70500
1	64 NC	CSHTT70501	CSHTP70501	CSHTP70501C	CSHTB70501	CSHTS70501
1	72 NF	CSHTT70502	CSHTP70502	CSHTP70502C	CSHTB70502	CSHTS70502
2	56 NC	CSHTT70503	CSHTP70503	CSHTP70503C	CSHTB70503	CSHTS70503
2	64 NF	CSHTT70504	CSHTP70504	CSHTP70504C	CSHTB70504	CSHTS70504
3	48 NC	CSHTT70505	CSHTP70505	CSHTP70505C	CSHTB70505	CSHTS70505
3	56 NF	CSHTT70506	CSHTP70506	CSHTP70506C	CSHTB70506	CSHTS70506
4	36 NS	CSHTT70507	CSHTP70507	CSHTP70507C	CSHTB70507	CSHTS70507
4	40 NC	CSHTT70508	CSHTP70508	CSHTP70508C	CSHTB70508	CSHTS70508
4	48 NF	CSHTT70509	CSHTP70509	CSHTP70509C	CSHTB70509	CSHTS70509
5	40 NC	CSHTT70510	CSHTP70510	CSHTP70510C	CSHTB70510	CSHTS70510
5	44 NF	CSHTT70511	CSHTP70511	CSHTP70511C	CSHTB70511	CSHTS70511
6	32 NC	CSHTT70512	CSHTP70512	CSHTP70512C	CSHTB70512	CSHTS70512
6	40 NF	CSHTT70513	CSHTP70513	CSHTP70513C	CSHTB70513	CSHTS70513
8	32 NC	CSHTT70514	CSHTP70514	CSHTP70514C	CSHTB70514	CSHTS70514
8	36 NF	CSHTT70515	CSHTP70515	CSHTP70515C	CSHTB70515	CSHTS70515
10	24 NC	CSHTT70516	CSHTP70516	CSHTP70516C	CSHTB70516	CSHTS70516
10	32 NF	CSHTT70517	CSHTP70517	CSHTP70517C	CSHTB70517	CSHTS70517
12	24 NC	CSHTT70518	CSHTP70518	CSHTP70518C	CSHTB70518	CSHTS70518
12	28 NF	CSHTT70519	CSHTP70519	CSHTP70519C	CSHTB70519	CSHTS70519
FRACTIONAL SIZES						
3/16"	24 NS	CSHTT70530	CSHTP70530	CSHTP70530C	CSHTB70530	CSHTS70530
3/16"	32 NS	CSHTT70531	CSHTP70531	CSHTP70531C	CSHTB70531	CSHTS70531
1/4"	20 NC	CSHTT70532	CSHTP70532	CSHTP70532C	CSHTB70532	CSHTS70532
1/4"	28 NF	CSHTT70533	CSHTP70533	CSHTP70533C	CSHTB70533	CSHTS70533
5/16"	18 NC	CSHTT70534	CSHTP70534	CSHTP70534C	CSHTB70534	CSHTS70534
5/16"	24 NF	CSHTT70535	CSHTP70535	CSHTP70535C	CSHTB70535	CSHTS70535
3/8"	16 NC	CSHTT70536	CSHTP70536	CSHTP70536C	CSHTB70536	CSHTS70536
3/8"	24 NF	CSHTT70537	CSHTP70537	CSHTP70537C	CSHTB70537	CSHTS70537
7/16"	14 NC	CSHTT70538	CSHTP70538	CSHTP70538C	CSHTB70538	CSHTS70538
7/16"	20 NF	CSHTT70539	CSHTP70539	CSHTP70639C	CSHTP70539	CSHTS70539
1/2"	13 NC	CSHTT70540	CSHTP70540	CSHTP70540C	CSHTB70540	CSHTS70540
1/2"	20 NF	CSHTT70541	CSHTP70541	CSHTP70541C	CSHTB70541	CSHTS70541
9/16"	12 NC	CSHTT70542	CSHTP70542	—	CSHTB70542	CSHTS70542
9/16"	18 NF	CSHTT70543	CSHTP70543	—	CSHTB70543	CSHTS70543
5/8"	11 NC	CSHTT70544	CSHTP70544	—	CSHTB70544	CSHTS70544
5/8"	18 NF	CSHTT70545	CSHTP70545	—	CSHTB70545	CSHTS70545
3/4"	10 NC	CSHTT70546	CSHTP70546	—	CSHTB70546	CSHTS70546
3/4"	16 NF	CSHTT70547	CSHTP70547	—	CSHTB70547	CSHTS70547
7/8"	9 NC	CSHTT70548	CSHTP70548	—	CSHTB70548	CSHTS70548
7/8"	14 NF	CSHTT70549	CSHTP70549	—	CSHTB70549	CSHTS70549
*7/8"	18 SP	—	CSHTP70550	—	—	—
1"	8 NC	CSHTT70551	CSHTP70551	—	CSHTB70551	CSHTS70551
1"	12 NF	CSHTT70552	CSHTP70552	—	CSHTB70552	CSHTS70552
1"	14 NS	CSHTT70553	CSHTP70553	—	CSHTB70553	CSHTS70553
1-1/8"	7 NC	CSHTT70554	CSHTP70554	—	CSHTB70554	CSHTS70554
1-1/8"	12 NF	CSHTT70555	CSHTP70555	—	CSHTB70555	CSHTS70555
1-1/4"	7 NC	CSHTT70556	CSHTP70556	—	CSHTB70556	CSHTS70556
1-1/4"	12 NF	CSHTT70557	CSHTP70557	—	CSHTB70557	CSHTS70557
1-3/8"	6 NC	CSHTT70558	CSHTP70558	—	CSHTB70558	CSHTS70558
1-3/8"	12 NF	CSHTT70559	CSHTP70559	—	CSHTB70559	CSHTS70559
1-1/2"	6 NC	CSHTT70560	CSHTP70560	—	CSHTB70560	CSHTS70560
1-1/2"	12 NF	CSHTT70561	CSHTP70561	—	CSHTB70561	CSHTS70561

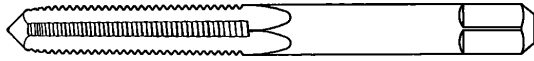
* Spark Plug Tap

- Bulk 0 to 1/4", 12 per pack 5/16" to 5/8", 6 per pack 3/4" to 1-1/2", 3 per pack
- Card Plug Taps 0 to 1/2, 1 per card

METRIC HAND TAPS

HIGH CARBON STEEL

Precision made from high carbon tool steel.
Ideal for hand threading in routine maintenance, repair work
and for rethreading applications.



METRIC HAND TAPS (PLUG ONLY)

TAP SIZE	STOCK #	
	BULK	CARDED
3 mm - 0.60 mm	CSMT70811	CSMT70811C
4 mm - 0.50 mm	CSMT70812	CSMT70812C
4 mm - 0.70 mm	CSMT70813	CSMT70813C
5 mm - 0.80 mm	CSMT70814	CSMT70814C
5 mm - 0.90 mm	CSMT70815	CSMT70815C
6 mm - 1.00 mm	CSMT70816	CSMT70816C
7 mm - 1.00 mm	CSMT70817	CSMT70817C
8 mm - 1.00 mm	CSMT70818	CSMT70818C
8 mm - 1.25 mm	CSMT70819	CSMT70819C
9 mm - 0.75 mm	CSMT70820	CSMT70820C
9 mm - 1.00 mm	CSMT70821	CSMT70821C
9 mm - 1.25 mm	CSMT70822	CSMT70822C
10 mm - 1.00 mm	CSMT70823	CSMT70823C
10 mm - 1.25 mm	CSMT70824	CSMT70824C
10 mm - 1.50 mm	CSMT70825	CSMT70825C
11 mm - 1.50 mm	CSMT70826	CSMT70826C
12 mm - 1.25 mm	CSMT70827	CSMT70827C
12 mm - 1.50 mm	CSMT70828	CSMT70828C
12 mm - 1.75 mm	CSMT70829	CSMT70829C
14 mm - 1.25 mm	CSMT70830	—
14 mm - 1.50 mm	CSMT70831	—
14 mm - 2.00 mm	CSMT70832	—
16 mm - 1.50 mm	CSMT70833	—
16 mm - 2.00 mm	CSMT70834	—
18 mm - 2.00 mm	CSMT70835	—
18 mm - 2.50 mm	CSMT70836	—
18 mm - 1.50 mm	CSMT70837	—
20 mm - 1.50 mm	CSMT70838	—
20 mm - 2.50 mm	CSMT70839	—
22 mm - 1.50 mm	CSMT70840	—
22 mm - 2.50 mm	CSMT70841	—
24 mm - 2.00 mm	CSMT70842	—
24 mm - 3.00 mm	CSMT70843	—
27 mm - 2.00 mm	CSMT70844	—
27 mm - 3.00 mm	CSMT70845	—
30 mm - 2.00 mm	CSMT70846	—
30 mm - 3.50 mm	CSMT70847	—

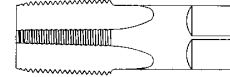
• Bulk 3 to 12mm, 12 per pack
14 to 16mm, 6 per pack
18 to 27mm, 3 per pack
30mm, 1 per pack

• Card 1 per card

TAPER PIPE TAPS

HIGH CARBON STEEL

Taper pipe taps are normally used for tapping pipe fittings although they have numerous other applications. The nominal size of the tap is that of the pipe fitting being tapped and not the actual size of the tap. They are tapered at the rate of 3/4" per foot.



TAPER PIPE TAPS, NPT

TAP SIZE	TPI	STOCK #	
		BULK	CARDED
1/8"	27	CSNPT70561	CSNPT70561C
1/4"	18	CSNPT70562	CSNPT70562C
3/8"	18	CSNPT70563	CSNPT70563C
1/2"	14	CSNPT70564	CSNPT70564C
3/4"	14	CSNPT70565	—
1"	11 1/2	CSNPT70566	—
1-1/4"	11 1/2	CSNPT70567	—
1-1/2"	11 1/2	CSNPT70568	—
2"	11 1/2	CSNPT70569	—

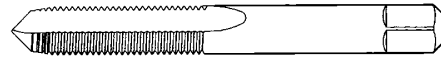
• Bulk 1/8" to 1/2", 6 per pack
3/4" to 2", 1 per pack

• Card 1/8" to 1/2", 1 per card

SPARK PLUG TAPS

HIGH CARBON STEEL

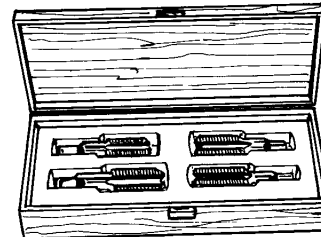
Ideal for threading or re-threading spark plug holes.
Available in standard and metric threads.



NEW

TAP SIZE	NO. OF FLUTES	STOCK #
7/8"-18NS	4	CSHTP70550
10mm - 1.00	4	CSMT70823
12mm - 1.25	4	CSMT70827
14mm - 1.25	4	CSMT70830
18mm - 1.50	4	CSMT70837

• 3 per pack



SPARK PLUG TAP SET IN WOODEN STORAGE CASE

NEW

NO. OF PIECES	DESCRIPTION	STOCK #
4 pc Set	Spark Plug Tap Set Contains: 10mm - 1.00mm 12mm - 1.25mm 14mm - 1.25mm 18mm - 1.50mm	CSMT70855

• 3 per pack



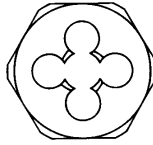
B

Hand / Pipe / Spark Plug Taps

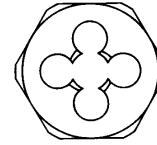
HEXAGON DIES

HIGH CARBON STEEL

Expanded Offering!



Used for cutting all types of external threads. Versatile hexagon shape assures use with die stock or ordinary adjustable wrench. Best suited for maintenance and repair work.



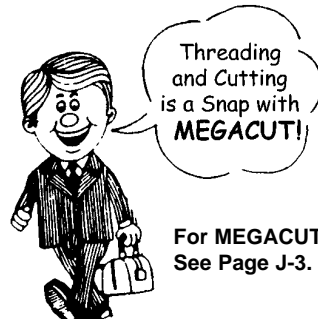
HEXAGON DIES

THREAD SIZE	TPI	STOCK #	
		BULK	CARD
1" A.F.			
4	40	CSHD70859	CSHD70859C
5	40	CSHD70860	CSHD70860C
6	32	CSHD70861	CSHD70861C
8	32	CSHD70862	CSHD70862C
10	24	CSHD70863	CSHD70863C
10	32	CSHD70864	CSHD70864C
12	24	CSHD70865	CSHD70865C
1/4"	20	CSHD70866	CSHD70866C
1/4"	28	CSHD70867	CSHD70867C
5/16"	18	CSHD70868	CSHD70868C
5/16"	24	CSHD70869	CSHD70869C
3/8"	16	CSHD70870	CSHD70870C
3/8"	24	CSHD70871	CSHD70871C
7/16"	14	CSHD70872	CSHD70872C
7/16"	20	CSHD70873	CSHD70873C
1/2"	13	CSHD70874	CSHD70874C
1/2"	20	CSHD70875	CSHD70875C
1/8" NPT	27	CSHD70891	CSHD70891C
1/4" NPT	18	CSHD70893	CSHD70893C
1-7/16" A.F.			
1/2"	13	CSHD70880	CSHD70880C
1/2"	20	CSHD70881	CSHD70881C
9/16"	12	CSHD70882	CSHD70882C
9/16"	18	CSHD70883	CSHD70883C
5/8"	11	CSHD70884	CSHD70884C
5/8"	18	CSHD70885	CSHD70885C
3/4"	10	CSHD70886	CSHD70886C
3/4"	16	CSHD70887	CSHD70887C
1/8" NPT	27	CSHD70892	CSHD70892C
1/4" NPT	18	CSHD70894	CSHD70894C

• Bulk 1" A.F. 4 to 1/4", 12 per pack
5/16" to 1/2", 6 per pack

• Bulk 1-7/16" A.F. 1/2" to 3/4", 1 per pack

• Card 1 per card



For MEGACUT details,
See Page J-3.

METRIC HEXAGON DIES

THREAD SIZE	STOCK #	
	BULK	CARD
1" A.F.		
3 mm - 0.60 mm	MHD71011	MHD71011C
4 mm - 0.50 mm	MHD71012	MHD71012C
4 mm - 0.70 mm	MHD71013	MHD71013C
5 mm - 0.80 mm	MHD71014	MHD71014C
5 mm - 0.90 mm	MHD71015	MHD71015C
6 mm - 1.00 mm	MHD71016	MHD71016C
7 mm - 1.00 mm	MHD71017	MHD71017C
8 mm - 1.00 mm	MHD71018	MHD71018C
8 mm - 1.25 mm	MHD71019	MHD71019C
9 mm - 0.75 mm	MHD71020	MHD71020C
9 mm - 1.00 mm	MHD71021	MHD71021C
9 mm - 1.25 mm	MHD71022	MHD71022C
10 mm - 1.00 mm	MHD71023	MHD71023C
10 mm - 1.25 mm	MHD71024	MHD71024C
10 mm - 1.50 mm	MHD71025	MHD71025C
11 mm - 1.50 mm	MHD71026	MHD71026C
12 mm - 1.25 mm	MHD71027	MHD71027C
12 mm - 1.50 mm	MHD71028	MHD71028C
12 mm - 1.75 mm	MHD71029	MHD71029C
1-7/16" A.F.		
14 mm - 1.25 mm	MHD71029A	—
14 mm - 1.50 mm	MHD71030	—
14 mm - 2.00 mm	MHD71031	—
16 mm - 1.25 mm	MHD71032	—
16 mm - 1.50 mm	MHD71033	—
16 mm - 2.00 mm	MHD71034	—
18 mm - 1.50 mm	MHD71035	—
18 mm - 2.00 mm	MHD71036	—
18 mm - 2.50 mm	MHD71037	—
HEX NUT SIZE		
20 mm - 1.50 mm	MHD71038	—
20 mm - 2.50 mm	MHD71039	—
22 mm - 1.50 mm	MHD71040	—
22 mm - 2.50 mm	MHD71041	—
24 mm - 2.00 mm	MHD71042	—
24 mm - 3.00 mm	MHD71043	—
27 mm - 2.00 mm	MHD71044	—
27 mm - 3.00 mm	MHD71045	—
30 mm - 2.00 mm	MHD71046	—
30 mm - 3.50 mm	MHD71047	—

• Bulk 3 to 6mm, 12 per pack
7 to 12mm, 6 per pack
14 to 30mm, 1 per pack

• Card 3 to 12mm, 1 per card

RETHREADING HEXAGON DIES

HIGH CARBON STEEL

These dies are designed specifically for the purpose of cleaning dirty or rusty threads and for restoring damaged threads to correct form and lead. They will not undercut good threads. The hexagon shape enables use with any open end, box or adjustable wrench.

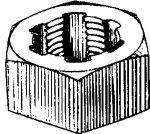
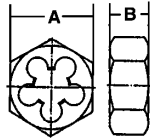
RIGHT HAND THREAD

TAP SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
1/4"	20	19/32"	1/4"	CSRTD70701
1/4"	28	19/32"	1/4"	CSRTD70702
5/16"	18	11/16"	5/16"	CSRTD70703
5/16"	24	11/16"	5/16"	CSRTD70704
3/8"	16	25/32"	3/8"	CSRTD70705
3/8"	24	25/32"	3/8"	CSRTD70706
7/16"	14	7/8"	7/16"	CSRTD70707
7/16"	20	7/8"	7/16"	CSRTD70708
1/2"	13	1-1/16"	1/2"	CSRTD70709
1/2"	20	1-1/16"	1/2"	CSRTD70710
9/16"	12	1-1/16"	1/2"	CSRTD70711
9/16"	18	1-1/16"	1/2"	CSRTD70712
5/8"	11	1-1/4"	5/8"	CSRTD70713
5/8"	18	1-1/4"	5/8"	CSRTD70714
3/4"	10	1-7/16"	3/4"	CSRTD70715
3/4"	16	1-7/16"	3/4"	CSRTD70716
7/8"	9	1-5/8"	7/8"	CSRTD70717
7/8"	14	1-5/8"	7/8"	CSRTD70718
1"	8	1-13/16"	1"	CSRTD70719
1"	12	1-13/16"	1"	CSRTD70720
1"	14	1-13/16"	1"	CSRTD70721
1-1/8"	7	2"	1"	CSRTD70722
1-1/8"	12	2"	1"	CSRTD70723
1-1/4"	7	2-3/16"	1"	CSRTD70724
1-1/4"	12	2-3/16"	1"	CSRTD70725
1-3/8"	6	2-3/8"	1"	CSRTD70726
1-3/8"	12	2-3/8"	1"	CSRTD70727
1-1/2"	6	2-9/16"	1"	CSRTD70728
1-1/2"	12	2-9/16"	1"	CSRTD70729
1-5/8"	6	3-1/8"	1"	CSRTD70730
1-5/8"	12	3-1/8"	1"	CSRTD70731
1-3/4"	5	3-1/8"	1"	CSRTD70732
1-3/4"	12	3-1/8"	1"	CSRTD70733
2"	4-1/2	3-1/2"	1-1/4"	CSRTD70734
2"	12	3-1/2"	1-1/4"	CSRTD70735
2-1/2"	4	4-1/2"	1-1/2"	CSRTD70736
2-3/4"	4	4-1/2"	1-5/8"	CSRTD70737
3"	4	5"	2"	CSRTD70738
3-1/4"	4	5"	2"	CSRTD70739
3-1/2"	4	5"	2"	CSRTD70739A
3-3/4"	4	6"	2-1/4"	CSRTD70739B
4"	4	7"	2-3/8"	CSRTD70739C
NPT SIZES				
1/8"	27	25/32"	3/8"	CSRTD70740
1/4"	18	1-1/16"	1/2"	CSRTD70741
3/8"	18	1-1/4"	5/8"	CSRTD70742
1/2"	14	1-7/16"	3/4"	CSRTD70743
3/4"	14	1-13/16"	1"	CSRTD70744
1"	11-1/2	2-3/16"	1"	CSRTD70745
1-1/4"	11-1/2	2-9/16"	1"	CSRTD70746
1-1/2"	11-1/2	3-1/8"	1"	CSRTD70747
2"	11-1/2	4-1/2"	1-1/2"	CSRTD70748

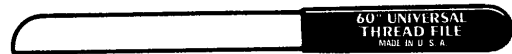
LEFT HAND THREAD

TAP SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
1/4"	20	19/32"	1/4"	CSRTD70701L
1/4"	28	19/32"	1/4"	CSRTD70702L
5/16"	18	11/16"	5/16"	CSRTD70703L
5/16"	24	11/16"	5/16"	CSRTD70704L
3/8"	16	25/32"	3/8"	CSRTD70705L
3/8"	24	25/32"	3/8"	CSRTD70706L
7/16"	14	7/8"	7/16"	CSRTD70707L
7/16"	20	7/8"	7/16"	CSRTD70708L
1/2"	13	1-1/16"	1/2"	CSRTD70709L
1/2"	20	1-1/16"	1/2"	CSRTD70710L
9/16"	12	1-1/16"	1/2"	CSRTD70711L
9/16"	18	1-1/16"	1/2"	CSRTD70712L
5/8"	11	1-1/4"	5/8"	CSRTD70713L
5/8"	18	1-1/4"	5/8"	CSRTD70714L
3/4"	10	1-7/16"	3/4"	CSRTD70715L
3/4"	16	1-7/16"	3/4"	CSRTD70716L
7/8"	9	1-5/8"	7/8"	CSRTD70717L
7/8"	14	1-5/8"	7/8"	CSRTD70718L
1"	8	1-13/16"	1"	CSRTD70719L
1"	12	1-13/16"	1"	CSRTD70720L
1"	14	1-13/16"	1"	CSRTD70721L
1-1/8"	7	2"	1"	CSRTD70722L
1-1/8"	12	2"	1"	CSRTD70723L
1-1/4"	7	2-3/16"	1"	CSRTD70724L
1-1/4"	12	2-3/16"	1"	CSRTD70725L
1-3/8"	6	2-3/8"	1"	CSRTD70726L
1-3/8"	12	2-3/8"	1"	CSRTD70727L
1-1/2"	6	2-9/16"	1"	CSRTD70728L
1-1/2"	12	2-9/16"	1"	CSRTD70729L

• 1/4" to 1/2", 6 per pack
9/16" to 1-1/2", 1 per pack



UNIVERSAL THREAD FILE



Single Blade Universal Thread File
renews all 60° Threads (also metric)
STOCK # RTF70751

THREAD RESTORING FILES

Battered, rusted, corroded threads are restored in a jiffy!
Makes a perfect thread gauge. Select the proper clearly marked size; overlap a few good threads and use just like a file to restore damaged area.

NEW

DESCRIPTION	THREADS	STOCK #
Thread Restoring Files	11, 12, 13, 14, 16, 18, 20 & 24 TPI	TRF01
	9, 10, 12, 16, 20, 27, 28, & 32 TPI	TRF02
External Pipe Files	8, 11-1/2, 14, 18	TRF04
	8, 10, 11-1/2, 14	TRF05
Metric Thread Files	.75, 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0	TRF08
Plastic Handles	For files #101, #103 & #107	TRF12
4 File Set in Plastic Roll	1 each #1, #2, #7, #8	TRF15P

• 1/4" to 1/2", 6 per pack
9/16" to 4", 1 per pack



METRIC RETHREADING HEXAGON DIES

HIGH CARBON STEEL

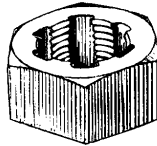
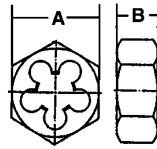
- Ideal for repairing damaged threads without undercutting good threads.
- The hexagon shape enables use with any open end, box or adjustable wrench.

RIGHT HAND THREAD

THREAD SIZE	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
3 x 0.50	19/32	1/4	MHD70751
3.5 x 0.60	19/32	1/4	MHD70752
4 x 0.70	19/32	1/4	MHD70753
4.5 x 0.75	19/32	1/4	MHD70754
5 x 0.80	19/32	1/4	MHD70755
6 x 1.00	19/32	1/4	MHD70756
6.3 x 1.00	19/32	1/4	MHD70757
7 x 1.00	11/16	5/16	MHD70758
8 x 1.00	11/16	5/16	MHD70759
8 x 1.25	11/16	5/16	MHD70760
10 x 1.00	25/32	3/8	MHD70761A
10 x 1.25	25/32	3/8	MHD70761
10 x 1.50	25/32	3/8	MHD70762
11 x 1.50	7/8	7/16	MHD70763
12 x 1.25	1-1/16	1/2	MHD70764
12 x 1.75	1-1/16	1/2	MHD70765
14 x 1.25	1-1/16	1/2	MHD70766
14 x 1.50	1-1/16	1/2	MHD70767
14 x 2.00	1-1/16	1/2	MHD70768
16 x 1.25	1-1/4	5/8	MHD70769
16 x 1.50	1-1/4	5/8	MHD70770
16 x 2.00	1-1/4	5/8	MHD70771
18 x 1.50	1-7/16	3/4	MHD70772
18 x 2.00	1-7/16	3/4	MHD70773
18 x 2.50	1-7/16	3/4	MHD70774
20 x 1.50	1-7/16	3/4	MHD70775
20 x 2.50	1-7/16	3/4	MHD70776
22 x 1.50	1-5/8	7/8	MHD70777
22 x 2.50	1-5/8	7/8	MHD70778
24 x 2.00	1-13/16	1	MHD70779
24 x 3.00	1-13/16	1	MHD70780
27 x 2.00	2	1	MHD70781
27 x 3.00	2	1	MHD70782
30 x 2.00	2	1	MHD70783
30 x 3.50	2	1	MHD70784

• 1 per pack

NEW



LEFT HAND THREAD

THREAD SIZE	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
5 x 0.80	19/32	1/4	MHD70755L
6 x 1.00	19/32	1/4	MHD70756L
6.3 x 1.00	19/32	1/4	MHD70757L
7 x 1.00	11/16	5/16	MHD70758L
8 x 1.00	11/16	5/16	MHD70759L
8 x 1.25	11/16	5/16	MHD70760L
10 x 1.25	25/32	3/8	MHD70761L
10 x 1.50	25/32	3/8	MHD70762L
11 x 1.50	7/8	7/16	MHD70763L
12 x 1.25	1-1/16	1/2	MHD70764L
12 x 1.75	1-1/16	1/2	MHD70765L
14 x 1.25	1-1/16	1/2	MHD70766L
14 x 1.50	1-1/16	1/2	MHD70767L
14 x 2.00	1-1/16	1/2	MHD70768L
16 x 1.25	1-1/4	5/8	MHD70769L
16 x 1.50	1-1/4	5/8	MHD70770L
16 x 2.00	1-1/4	5/8	MHD70771L
18 x 1.50	1-7/16	3/4	MHD70772L
18 x 2.00	1-7/16	3/4	MHD70773L
18 x 2.50	1-7/16	3/4	MHD70774L
20 x 1.50	1-7/16	3/4	MHD70775L
20 x 2.50	1-7/16	3/4	MHD70776L
22 x 1.50	1-5/8	7/8	MHD70777L
22 x 2.50	1-5/8	7/8	MHD70778L
24 x 2.00	1-13/16	1	MHD70779L
24 x 3.00	1-13/16	1	MHD70780L
27 x 2.00	2	1	MHD70781L
27 x 3.00	2	1	MHD70782L
30 x 2.00	2	1	MHD70783L
30 x 3.50	2	1	MHD70784L

• 1 per pack

B

Hexagon Dies / Adjustable Round Dies



ADJUSTABLE ROUND DIES

HIGH CARBON STEEL

Ideal for precision threading with the adjustment of die made by set screw. Adjustment dies allow the user to under or over cut their threads.

THREAD SIZE	TPI	STOCK #	
		BULK	CARD
1" O.D.			
5	40	CSRD70601	CSRD70601C
5	44	CSRD70602	CSRD70602C
6	32	CSRD70603	CSRD70603C
6	40	CSRD70604	CSRD70604C
8	32	CSRD70605	CSRD70605C
8	36	CSRD70606	CSRD70606C
10	24	CSRD70607	CSRD70607C
10	32	CSRD70608	CSRD70608C
12	24	CSRD70609	CSRD70609C
12	28	CSRD70610	CSRD70610C
1/4"	20	CSRD70611	CSRD70611C
1/4"	28	CSRD70612	CSRD70612C
5/16"	18	CSRD70613	CSRD70613C
5/16"	24	CSRD70614	CSRD70614C
3/8"	16	CSRD70615	CSRD70615C
3/8"	24	CSRD70616	CSRD70616C
7/16"	14	CSRD70617	CSRD70617C
7/16"	20	CSRD70618	CSRD70618C
1/2"	13	CSRD70619	CSRD70619C
1/2"	20	CSRD70620	CSRD70620C

- Bulk 1" O.D., 6 per pack
- 1-1/2" O.D., 1/4" to 5/16", 6 per pack
- 3/8" to 1/2", 3 per pack
- 9/16" to 3/4", 1 per pack

• Card 1 per card



2" O.D., 1 per pack

THREAD SIZE	TPI	STOCK #	
		BULK	CARD
1-1/2" O.D.			
1/4"	20	CSRD70630	CSRD70630C
1/4"	28	CSRD70631	CSRD70631C
5/16"	18	CSRD70632	CSRD70632C
5/16"	24	CSRD70633	CSRD70633C
3/8"	16	CSRD70634	CSRD70634C
3/8"	24	CSRD70635	CSRD70635C
7/16"	14	CSRD70636	CSRD70636C
7/16"	20	CSRD70637	CSRD70637C
1/2"	13	CSRD70638	CSRD70638C
1/2"	20	CSRD70639	CSRD70639C
9/16"	12	CSRD70640	CSRD70640C
9/16"	18	CSRD70641	CSRD70641C
5/8"	11	CSRD70642	CSRD70642C
5/8"	18	CSRD70643	CSRD70643C
3/4"	10	CSRD70644	CSRD70644C
3/4"	16	CSRD70645	CSRD70645C
2" O.D.			
5/8"	11	CSRD70650	-
5/8"	18	CSRD70651	-
3/4"	10	CSRD70652	-
3/4"	16	CSRD70653	-
7/8"	9	CSRD70654	-
7/8"	14	CSRD70655	-
1"	8	CSRD70656	-
1"	12	CSRD70657	-
1"	14	CSRD70658	-

SCREW EXTRACTORS

SPIRAL & STRAIGHT FLUTE • SPECIAL ALLOY STEEL

Made from rugged, alloy steel to handle the stress of removing broken bolts, studs, socket screws and fittings.

SPIRAL FLUTE SCREW EXTRACTORS



Tapered, left hand spiral flutes grip screws firmly.

SCREW EXTRACTOR SIZE #	USE DRILL SIZE	REMOVES BOLT / SCREW SIZE	STOCK #	
			BULK	CARD
1	5/64"	3/32" to 5/32"	SE61701	SE61701C
2	7/64"	5/32" to 7/32"	SE61702	SE61702C
3	5/32"	7/32" to 9/32"	SE61703	SE61703C
4	1/4"	9/32" to 3/8", 1/8" Pipe	SE61704	SE61704C
5	19/64"	3/8", to 5/8", 1/4" Pipe	SE61705	SE61705C
6	13/64"	5/8" to 7/8", 3/8" Pipe	SE61706	SE61706C
7	17/32"	7/8" to 1-1/8", 1/2" Pipe	SE61707	—
8	13/16"	1-1/8" to 1-3/8", 3/4" Pipe	SE61708	—
9	1-1/16"	1-3/8" to 2", 1" Pipe	SE61709	—

• **Bulk** # 1 to 4, 12 per pack
5 to 6, 6 per pack
7 to 9, 1 per pack

• **Card** # 1 to 6, 1 per card

STRAIGHT FLUTE SCREW EXTRACTORS



Straight flutes provide maximum bite.

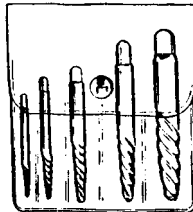
SCREW EXTRACTOR SIZE #	USE DRILL SIZE	REMOVES BOLT / SCREW SIZE	STOCK #
1	1/8"	1/4" to 5/16"	SE61721
2	3/16"	3/8"	SE61722
3	15/64"	7/16", 1/8" Pipe	SE61723
4	5/16"	1/2" to 9/16", 1/4" Pipe	SE61724
5	3/8"	5/8", 3/8" Pipe	SE61725
6	15/32"	3/4"	SE61726
7	9/16"	7/8", 1/2" Pipe	SE61727
8	21/32"	1" to 1-1/8", 1/2" Pipe	SE61728
9	13/16"	1-1/4" to 1-3/8", 3/4" Pipe	SE61729

• **Bulk** # 1 to 4, 12 per pack
5 to 6, 6 per pack
7 to 9, 1 per pack

Screw Extractors

SPIRAL FLUTE SCREW EXTRACTOR SETS

IN VINYL POUCH

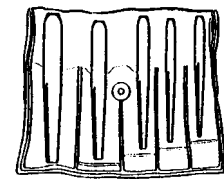


NO. OF PIECES	DESCRIPTION	STOCK #
5 pc.	Spiral Flute Sizes: 1, 2, 3, 4, 5	SE61715
6 pc.	Spiral Flute Sizes: 1, 2, 3, 4, 5, 6	SE61716

• 1 per pack

STRAIGHT FLUTE SCREW EXTRACTOR SETS

IN VINYL POUCH

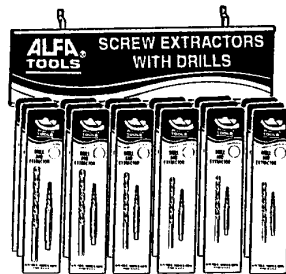


NO. OF PIECES	DESCRIPTION	STOCK #
5 pc.	Straight Flute Sizes: 1, 2, 3, 4, 5	SE61735
6 pc.	Straight Flute Sizes: 1, 2, 3, 4, 5, 6	SE61736

• 1 per pack

SPIRAL FLUTED SCREW EXTRACTOR PAIRED WITH HSS LEFT HAND DRILL

ON A HANGUP CARD



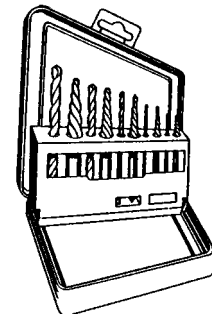
No more guesswork! Get the appropriate HSS Left Hand Drill paired with the Screw Extractor

SCREW EXTRACTOR SIZE #	LEFT HAND DRILL SIZE	STOCK #
#1	5/64"	SE61741C
#2	7/64"	SE61742C
#3	5/32"	SE61743C
#4	1/4"	SE61744C
#5	19/64"	SE61745C
#6	13/32"	SE61746C

• 1 pair per card

10 PC. SPIRAL FLUTE SCREW EXTRACTOR & DRILL SET (Matched)

IN METAL INDEX CASE



Five most used spiral fluted screw extractors are matched with HSS left hand drills, in a metal index case.

NO. OF PIECES	DESCRIPTION	STOCK #
10 pc.	Screw Extractor Sizes: 1, 2, 3, 4, 5 L.H. Drill Sizes: 5/64", 7/64", 5/32", 1/4", 19/64"	SE61747

• 1 per pack



TAP EXTRACTORS

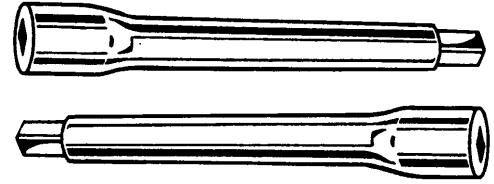


Machine Screw, Fractional & Metric Sizes

TAP SIZE	STOCK #		
	4-FLUTE	3-FLUTE	2-FLUTE
#4 (3mm)	—	TE10043	TE10042
#5 (1/8) (3.2mm)	—	TE10053	TE10052
#6 (3.5mm)	TE10064	TE10063	TE10062
#8 (4mm)	TE10084	TE10083	TE10082
#10 (3/16) (5mm)	TE10104	TE10103	TE10102
#12 (5.5mm)	TE10124	TE10123	TE10122
1/4" (6mm)	TE10254	TE10253	TE10252
5/16" (8mm)	TE10314	TE10313	TE10312
3/8" (9mm)	TE10374	TE10373	TE10372
7/16" (11mm)	TE10434	TE10433	TE10432
1/2" (12mm)	TE10504	TE10503	TE10502
9/16" (14mm)	TE10564	TE10563	—
5/8" (16mm)	TE10624	TE10623	—
11/16" (18mm)	TE10684	—	—
3/4" (20mm)	TE10754	TE10753	—
7/8" (22mm)	TE10874	TE10873	—
1" (25mm)	TE11004	TE11003	—

- 1 per pack
- 4 Flute style normally supplied unless otherwise specified.

TAP EXTENSIONS



A quality product, accurately made of alloy steel carefully heat treated for strength and durability. Handy for hand tapping in close quarters – where it is difficult or impossible to turn a tap wrench. No need for expensive, special length taps. Supplied in paired sets, each piece 5" long, can be combined to achieve 10" length extension.

Machine Screw & Fractional Sizes

TAP SIZE	SQUARE SHANK OF TAP	OPENING SOCKET	STOCK #
#10 (3/16)	.152 sq	.154 sq.	TE45010
1/4"	.191 sq	.193 sq.	TE45025
5/16"	.238 sq	.242 sq.	TE45031
3/8" (.206 sq.)	.206 sq	.210 sq.	TE45037
3/8" (.286 sq.)	*.286 sq	*.290 sq.	TE45038
7/16"	.242 sq	.246 sq.	TE45043
1/2"	.275 sq	.279 sq.	TE45050
5/8"	.360 sq	.364 sq.	TE45062
3/4"	.442 sq	.446 sq.	TE45075
7/8"	.523 sq	.527 sq.	TE45087
1"	.600 sq	.604 sq.	TE45100

- 1 pair per pack

* This 3/8" (.286 sq.) size is more frequently used than the 3/8" (.206 sq.) size. Specify which is required.

B

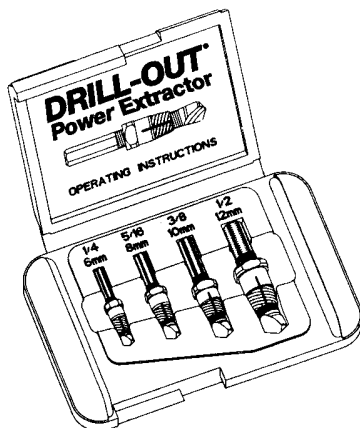
Tap Extractors / Extensions / Drill-Out®

DRILL-OUT® POWER EXTRACTOR

For Extracting Broken Bolts, Screws & Studs

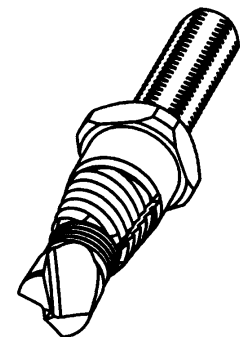
- L.H. HSS Drill
- Self Centering
- Hot Die Steel Collet
- Easy, Quick positioning

Available individually or in wallet sets



TO REMOVE BROKEN BOLT / SCREW SIZES	STOCK #
	CARDED
#5 & #6 M3	SE61710C
#8 M4	SE61711C
#10 & #12 M5	SE61712C
1/4" M6	SE61713C
5/16" M8	SE61714C
3/8" M10	SE61717C
1/2" M12	SE61718C

- 1 per card



WALLET SETS

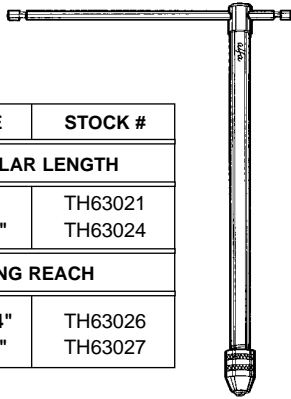
4 Pc. Set: #5 & #6, #8, #10 & #12, 1/4" M3 M4 M5 M6	SE61719
4 Pc. Set: 1/4", 5/16", 3/8", 1/2" M6 M8 M10 M12	SE61720



TAPPING TOOLS & ACCESSORIES

T-HANDLE TAP WRENCH

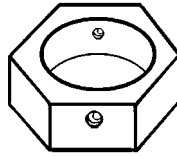
Chrome Plated for Square Driven Tools:
Taps - Reamers - Screw Extractors



TAP SIZE	STOCK #
REGULAR LENGTH	
#0 - 1/4"	TH63021
1/4" - 1/2"	TH63024
LONG REACH	
5/32" - 1/4"	TH63026
1/4" - 1/2"	TH63027

• 1 per pack

DIE ADAPTER

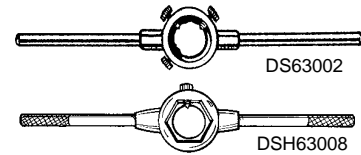


Converts Round Dies to Hex Dies

ROUND DIE SIZE	HEX SIZE	STOCK #
13/16"	1-1/2"	DA63031
1"	1-1/2"	DA63032
1-1/2"	2"	DA63033
2"	2-1/2"	DA63034
2-1/2"	3"	DA63035
3"	3-3/4"	DA63036

• 1 per pack

DIE STOCK



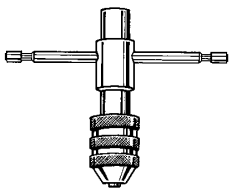
DS63002

DSH63008

SIZE	OAL	STOCK #
ROUND		
13/16" OD	6-1/4"	DS63001
1"	9"	DS63002
1-1/2"	14"	DS63003
2"	23"	DS63004
2-1/2"	26"	DS63005
3"	22"	DS63006
4"	29"	DS63007
HEX		
1" A.F.	9"	DSH63008
1 7/16" A.F.	12"	DSH63009

• 1 per pack

T-HANDLE TAP WRENCH WITH RATCHET



TAP SIZE	OVERALL LENGTH	STOCK #
REGULAR REACH		
1/4"	3-3/8"	TH63022R
1/2"	4-3/8"	TH63024R
LONG REACH		
1/4"	9-1/2"	TH63022RL
1/2"	11-3/8"	TH63024RL

• 1 per pack

FLOATING DIE HOLDER

For short / medium run threading
of shafts, bolts on machines.



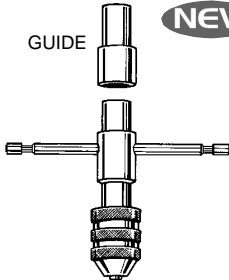
DIE SIZE O.D.	STOCK #
13/16"	DH63061
1"	DH63062
1-1/2"	DH63063

• 1 per pack

GUIDE

NEW

T-HANDLE TAP WRENCH WITH GUIDE

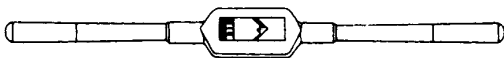


TAP SIZE	OVERALL LENGTH	STOCK #
0 - 1/4"	3-1/4"	TH65031
1/4" - 1/2"	4"	TH65032
1/2" - 3/4"	4-1/4"	TH65033

• 1 per pack

Expanded Offering!

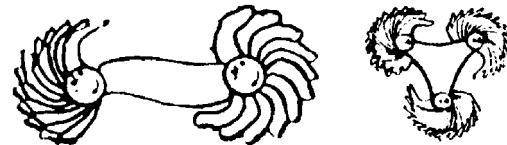
ADJUSTABLE TAP / REAMER WRENCH



#	SIZE CAPACITY	OVERALL LENGTH	STOCK #
#0	#0 - 1/4"	7"	TW63011
#4	#0 - 3/8"	8"	TW63012
#5	#7 - 1/2", 1/8" NPT	11"	TW63013
#6	#7 - 3/4", 1/4" NPT	15"	TW63014
#7	1/4" - 1-1/8", 3/4" NPT	19"	TW63015
#7-1/2	1/2" - 1-3/8", 1/4" - 1 NPT	31"	TW63016
#8	3/4" - 1-5/8", 3/8" - 1-1/4 NPT	40"	TW63017

• 1 per pack

THREAD PITCH GAGES



- Blades are of a narrow leaf design to permit their use in determining pitch for inside as well as outside screw threads.
- Each blade marked with proper thread size.
- Locking device at each end.

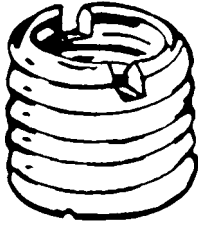
NO. OF BLADES	TPI RANGE	STOCK #
51	4 - 84	TPG63041
28	4 - 80	TPG63042
22	9 - 40	TPG63043
28	0.25 - 2.50 mm	TPG63044

• 1 per pack

Pitch Gage Range

Unified 60°	51 Blades included: 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82 and 84
Unified 60°	28 Blades included: 4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40, 44, 48, 56, 64, 72, and 80
Unified 60°	22 Blades included: 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38 and 40
Metric Gauge	28 Blades included: .25, .30, .35, .40, .45, .50, .55, .60, .65, .70, .75, .80, .85, .90, 1.00, 1.10, 1.20, 1.25, 1.30, 1.40, 1.50, 1.60, 1.70, 1.75, 1.80, 1.90, 2.00 and 2.50

SOLID SCREW INSERTS



ALFA LOK Inserts will not back out or vibrate loose.

Immediately on installation, microencapsulated Loctite® begins to set, and the newly installed insert can be fastened to within minutes. The adhesive continues to cure over night until completely set.

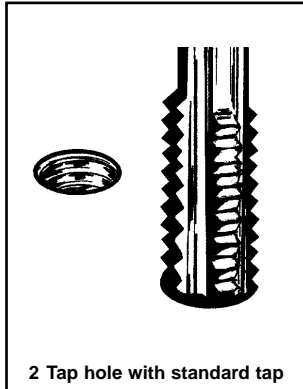
The adhesive seals against liquids and gases to pressure of 6,000 psi, and bonds to virtually all metals.

Easy Removal:

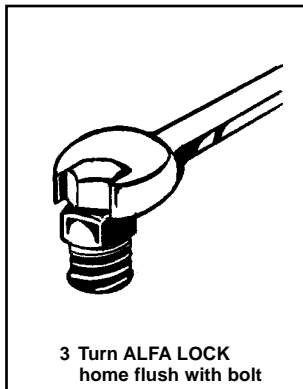
Use a standard screw and bolt extractor to back out a damaged insert and then replace it with a new insert. Removal is simply a matter of overcoming the resistance to torque-out which has been produced by the thread locking material.



1 Drill with standard drill



2 Tap hole with standard tap



3 Turn ALFA LOCK home flush with bolt

Inch Dim.

COARSE THREAD

INTERNAL THREAD	EXTERNAL THREAD	LENGTH	TAP DRILL SIZE	TAP SIZE	MINIMUM FULL THREAD DEPTH	STOCK #
4-40	10-32	.250	5/32	10-32	9/32	SI67501
6-32	1/4-20	.280	7	1/4-20	11/32	SI67502
8-32	5/16-18	.290	F	5/16-18	7/16	SI67503
10-24	3/8-16	.406	5/16	3/8-16	15/32	SI67504
1/4-20	7/16-14	.437	23/64	7/16-14	1/2	SI67505
5/16-18	1/2-13	.484	27/64	1/2-13	9/16	SI67506
3/8-16	9/16-12	.515	31/64	9/16-12	19/32	SI67507
7/16-14	5/8-11	.656	17/32	5/8-11	23/32	SI67508
1/2-13	3/4-10	.656	21/32	3/4-10	3/4	SI67509
9/16-12	3/4-10	.656	21/32	3/4-10	3/4	SI67510
5/8-11	7/8-9	.687	49/64	7/8-9	13/16	SI67511
5/8-11	7/8-9	1.125	49/64	7/8-9	1-1/4	SI67512
3/4-10	1-8	.781	7/8	1-8	7/8	SI67513
7/8-9	1-1/4 - 7	1.125	1-7/64	1-1/4 - 7	1-1/8	SI67514
1-8	1-3/8 - 12	1.250	1-9/32	1-3/8 - 12	1-3/8	SI67515

FINE THREAD

10-32	3/8-16	.406	5/16	3/8-16	15/32	SI67521
1/4-28	7/16-14	.437	23/64	7/16-14	1/2	SI67522
5/16-24	1/2-13	.484	27/64	1/2-13	9/16	SI67523
3/8-24	9/16-12	.515	31/64	9/16-12	19/32	SI67524
7/16-20	5/8-11	.656	17/32	5/8-11	23/32	SI67525
1/2-20	3/4-10	.656	21/32	3/4-10	3/4	SI67526
9/16-18	3/4-10	.656	21/32	3/4-10	3/4	SI67527
5/8-18	7/8-9	.687	49/64	7/8-9	13/16	SI67528
3/4-16	1-8	.781	7/8	1-8	7/8	SI67529
7/8-14	1-1/4 - 7	1.125	1-7/64	1-1/4 - 7	1-1/8	SI67530
1-14	1-3/8 - 12	1.250	1-9/32	1-3/8 - 12	1-3/8	SI67531

EXTRA HEAVY WALL

1/4-20	1/2-13	.484	27/64	1/2-13	9/16	SI67533
5/16-18	9/16-12	.515	31/64	9/16-12	19/32	SI67534
3/8-16	5/8-11	.656	17/32	5/8-11	23/32	SI67535
1/2-13	7/8-9	.687	49/64	7/8-9	13/16	SI67536
5/8-11	1-8	.781	7/8	1-8	7/8	SI67537

METRIC INSIDE – N. C. OUTSIDE

M6-1.0	3/8-16	.406	5/16	3/8-16	15/32	SIM67541
M8-1.25	1/2-13	.484	27/64	1/2-13	9/16	SIM67542
M10-1.50	9/16-12	.515	31/64	9/16-12	19/32	SIM67543
M10-1.25	9/16-12	.515	31/64	9/16-12	19/32	SIM67544
M12-1.75	3/4-10	.658	21/32	3/4-10	3/4	SIM67545
M14-2.0	7/8-9	.687	49/64	7/8-9	13/16	SIM67546
M16-2.0	1-8	.781	7/8	1-8	7/8	SIM67547

SCREW INSERT KITS

KIT RANGE	CONTENTS		STOCK #
#10 - 1/2" UNC	10-10-24 10-1/4-20	10-5/16-18 10-3/8-16	6-1/2-13 SI67555
1/2" - 1" UNC		6-1/2 - 13 7-5/8 - 11	7-3/4 - 10 2-1-8 SI67556
#10 - 1/2" UNF	10-10-32 10-1/4-28	10-5/16-24 10-3/8-24	6-1/2-20 SI67557
1/2" - 1" UNF		6-1/2-20 7-5/8 - 18	7-3/4 - 16 2-1-14 SI67558
M8 - M16 METRIC	10 M8-1.25 10 M10-1.5		8 M12-1.75 5 M16-2.0 SI67559

• Bulk up to 1/2", 10 per pack
9/16" to 1", 5 per pack

• M6 to M12, 10 per pack
M14 to M16, 5 per pack

• Kits 1 per pack



B

Solid Screw Inserts

HELICAL THREAD INSERTS

HELICALLY WOUND STAINLESS STEEL • FOR STRONG THREADS IN WEAK MATERIALS
COARSE • FINE • PIPE • METRIC • SPARK PLUG SIZES

NC INSERTS

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

NF INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
4-48	0.168	NO. 31	TI66211
4-48	0.224		TI66211B
6-40	0.207	NO. 26	TI66213
6-40	0.276		TI66213B
8-36	0.246	11/64	TI66215
8-36	0.328		TI66215B
10-32	0.285	13/64	TI66217
10-32	0.380		TI66217B
1/4"-28	0.375	17/64	TI66221
1/4"-28	0.500		TI66221B
5/16"-24	0.468	21/64	TI66223
5/16"-24	0.624		TI66223B
3/8"-24	0.563	25/64	TI66225
3/8"-24	0.750		TI66225B
7/16"-20	0.657	29/64	TI66227
7/16"-20	0.876		TI66227B
1/2"-20	0.750	33/64	TI66229
1/2"-20	1.000		TI66229B
5/8"-18	0.938	41/64	TI66233
5/8"-18	1.250		TI66233B
3/4"-16	1.125	49/64	TI66235
3/4"-16	1.500		TI66235B
7/8"-14	1.313	57/64	TI66237
7/8"-14	1.750		TI66237B
1"-12	1.500	1-1/64	TI66239
1"-12	2.000		TI66239B
1"-14	1.500	1-1/64	TI66241
1"-14	2.000		TI66241B

• 10 per pack

Alfa Tools inserts are made of stainless steel with diamond cross section. They are interchangeable with Helicoil and all other brands.

Expanded Offering!



NEW

APPLICATIONS:

- To repair damaged threaded holes.
- Reinforce threads which may be subject to failure.
- Can be used on cast iron, steel, copper, aluminum, zinc, magnesium, most plastic compounds and wood.
- Meets or exceeds most applicable specifications, including MS122076 series, 124651 series, 21208, 21209, 33537, mil-1 8846 and mil-F-5577.
- Easy way to change from inch to metric threads.
- Provides stronger and more efficient threads.

STI TAPS
NC / NF / METRIC
See Page B-7

NPT INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
1/8"- 27	0.188	3/8	TI66340
1/8"- 27	0.250		TI66340B
1/4"- 18	0.375	33/64	TI66341
1/4"- 18	0.500		TI66341B
3/8"- 18	0.562	21/32	TI66342
3/8"- 18	0.750		TI66342B
1/2"- 14	0.750	13/16	TI66343
1/2"- 14	1.000		TI66343B
3/4"- 14	1.125	11/64	TI66344
3/4"- 14	1.500		TI66344B
1"- 11-1/2	1.500	19/32	TI66345
1"- 11-1/2	2.000		TI66345B

• 10 per pack

METRIC COARSE INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
M6-1	9.000	6.3	TI66243
M6-1	12.000		TI66243B
M8-1.25	12.000	8.3	TI66244
M8-1.25	16.000		TI66244B
M10-1.5	15.000	10.4	TI66247
M10-1.5	20.000		TI66247B
M12-1.75	18.000	12.5	TI66250
M12-1.75	24.000		TI66250B
M14-2	21.000	14.5	TI66252
M14-2	28.000		TI66252B
M16-2	24.000	16.5	TI66254
M16-2	32.000		TI66254B
M18-2.5	27.000	18.8	TI66256
M18-2.5	36.000		TI66256B
M20-2.5	30.000	20.8	TI66258
M20-2.5	40.000		TI66258B
M22-2.5	33.000	22.8	TI66260
M22-2.5	44.000		TI66260B
M24-3	36.000	24.8	TI66262
M24-3	48.000		TI66262B

METRIC FINE INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
M8-1	12.000	8.3	TI66263
M8-1	16.000		TI66263B
M10-1.25	15.000	10.3	TI66265
M10-1.25	20.000		TI66265B
M10-1	15.000	10.3	TI66267
M10-1	20.000		TI66267B
M12-1.25	18.000	12.3	TI66271
M12-1.25	24.000		TI66271B
M12-1.5	18.000	12.3	TI66269
M12-1.5	24.000		TI66269B
M14-1.5	21.000	14.3	TI66273
M14-1.5	28.000		TI66273B
M16-1.5	24.000	16.5	TI66275
M16-1.5	32.000		TI66275B
M18-2	27.000	18.5	TI66277
M18-2	36.000		TI66277B
M18-1.5	27.000	18.5	TI66279
M18-1.5	36.000		TI66279B
M20-2	30.000	20.5	TI66281
M20-2	40.000		TI66281B
M20-1.5	30.000	20.5	TI66283
M20-1.5	40.000		TI66283B
M22-2	33.000	22.5	TI66285
M22-2	44.000		TI66285B
M22-1.5	33.000	22.5	TI66287
M22-1.5	44.000		TI66287B
M24-2	36.000	24.5	TI66289
M24-2	48.000		TI66289B

SPARK PLUG INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
M10-1	0.339	10.3	TI66290
M10-1	1/2"		TI66290A
M12-1.25	1/2"	12.3	TI66291
M12-1.25	3/4"		TI66291B
M14-1.25	3/8"	14.25	TI66293
M14-1.25	0.472		TI66293A
M14-1.25	7/16"	TI66293B	
M14-1.25	1/2"	TI66293C	
M14-1.25	3/4"	TI66293D	
M18-1.5	1/2"	18.5	TI66294

• 10 per pack

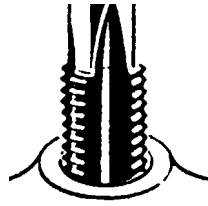


HELICAL THREAD REPAIR KITS

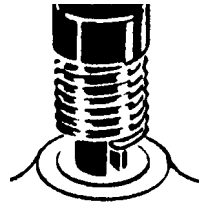
How to use Insert-A-Thread



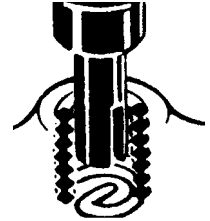
1. DRILL
Drill to clear out the damaged thread (if necessary).



2. TAP
Thread with STI tap supplied with the kit.



3. INSTALL
Wind insert in with light downward pressure until 1/4 to 1/2 turn below the surface, driving tang towards the bottom of the hole.

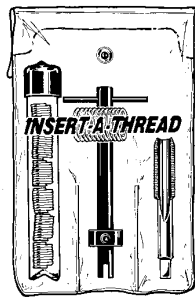


4. TANG REMOVAL
Remove tool and place back on top of tang. Tap down on tool sharply. Do not try to twist tang off. For spark plug and large fine thread inserts, use long nose pliers and pull tang out.

NC REPAIR KITS

SIZE	INSERT LENGTH	NO. OF INSERTS	STOCK #
4-40	0.168	10	TI66210K
6-32	0.207	10	TI66212K
8-32	0.246	10	TI66214K
10-24	0.285	10	TI66216K
1/4"- 20	0.375	10	TI66220K
5/16"- 18	0.468	5	TI66222K
3/8"- 16	0.563	5	TI66224K
7/16"- 14	0.657	5	TI66226K
1/2"- 13	0.750	5	TI66228K
5/8"- 11	0.938	5	TI66230K
3/4"- 10	1.125	5	TI66232K
7/8"- 9	1.313	5	TI66234K
1"- 8	1.500	5	TI66236K

Expanded Offering!



Each Kit Includes:
Inserts, Insertion Tool & STI Tap

METRIC COARSE REPAIR KITS

SIZE	INSERT LENGTH	INSERTS PER KIT	STOCK #
M6-1	9.00	10	TI66243K
M8-1.25	12.00	5	TI66244K
M10-1.5	15.00	5	TI66247K
M12-1.75	18.00	5	TI66250K
M14-2	21.00	5	TI66252K
M16-2	24.00	5	TI66254K
M18-2.5	27.00	5	TI66256K
M20-2.5	30.00	5	TI66258K
M22-2.5	33.00	5	TI66260K
M24-3	36.00	5	TI66262K

SPARK PLUG REPAIR KITS

SIZE	INSERT LENGTH	INSERTS PER KIT	STOCK #
M10-1	1/2"	10	TI66290K
M12-1.25	1/2"	10	TI66291BK
	3/4"	10	TI66291AK
M14-1.25	3/8"	5	TI66293K
	3/4"	5	TI66293DK
M18-1.5	1/2"	5	TI66294K

NF REPAIR KITS

SIZE	INSERT LENGTH	NO. OF INSERTS	STOCK #
4-48	0.168	10	TI66211K
6-40	0.207	10	TI66213K
8-36	0.246	10	TI66215K
10-32	0.285	10	TI66217K
1/4"- 28	0.375	10	TI66221K
5/16"- 24	0.468	5	TI66223K
3/8"- 24	0.563	5	TI66225K
7/16"- 20	0.657	5	TI66227K
1/2"- 20	0.750	5	TI66229K
5/8"- 18	0.938	5	TI66233K
3/4"- 16	1.125	5	TI66235K
7/8"- 14	1.313	5	TI66237K
1"- 12	1.500	5	TI66239K
1"- 14	1.500	5	TI66241K

• 1 kit per pack

METRIC FINE REPAIR KITS

SIZE	INSERT LENGTH	INSERTS PER KIT	STOCK #
M8-1	12.00	5	TI66263K
M10-1.25	15.00	5	TI66265K
M10-1	15.00	5	TI66267K
M12-1.5	18.00	5	TI66269K
M12-1.25	18.00	5	TI66271K
M14-1.5	21.00	5	TI66273K
M16-1.5	24.00	5	TI66275K
M18-2	27.00	5	TI66277K
M18-1.5	27.00	5	TI66279K
M20-2	30.00	5	TI66281K
M20-1.5	30.00	5	TI66283K
M22-2	33.00	5	TI66285K
M22-1.5	33.00	5	TI66287K
M24-2	36.00	5	TI66289K

• 1 kit per pack

RANGE THREAD REPAIR KITS

UNC RANGE

SIZE	LENGTH (INCH)	INSERTS PER SIZE	STOCK #
1/4"- 20	0.375	10	TIK66597
5/16"- 18	0.468	5	
3/8"- 16	0.563	5	
7/16"- 14	0.657	5	
1/2"- 13	0.750	5	

UNF RANGE

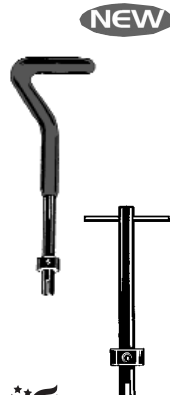
SIZE	LENGTH (INCH)	INSERTS PER SIZE	STOCK #
1/4"- 28	0.375	10	TIK66598
5/16"- 24	0.468	5	
3/8"- 24	0.563	5	
7/16"- 20	0.657	5	
1/2"- 20	0.750	5	

METRIC RANGE

SIZE	LENGTH (INCH)	INSERTS PER SIZE	STOCK #
M6-1	9.000	5	TIK66599
M8-1	12.000	5	
M8-1.25	12.000	5	
M10-1.5	15.000	5	
M12-1.75	18.000	5	

• 1 kit per pack

INSTALLATION TOOLS



UNC THREADS		
THREAD SIZE	STOCK #	
4-40	TI66314	
6-32	TI66315	
8-32	TI66316	
10-24	TI66317	
1/4"- 20	TI66318	
5/16"- 18	TI66319	
3/8"- 16	TI66320	
7/16"- 14	TI66321	
1/2"- 13	TI66322	
5/8"- 11	TI66323	
3/4"- 10	TI66324	
7/8"- 9	TI66325	
1"- 8	TI66326	

UNF THREADS		
THREAD SIZE	STOCK #	
4-48	TI66314	
6-40	TI66315	
8-36	TI66316	
10-32	TI66317	
1/4"- 28	TI66318	
5/16"- 24	TI66328	
3/8"- 24	TI66329	
7/16"- 20	TI66321	
1/2"- 20	TI66322	
5/8"- 18	TI66323	
3/4"- 16	TI66330	
7/8"- 14	TI66325	
1"- 12	TI66326	
1"- 14	TI66326	

METRIC COARSE THREADS		
THREAD SIZE	STOCK #	
M6-1	TI66318	
M8-1.25	TI66328	
M10-1.5	TI66320	
M12-1.75	TI66322	
M14-2	TI66331	
M16-2	TI66323	
M18-2.5	TI66324	
M20-2.5	TI66330	
M22-2.5	TI66325	
M24-3	TI66326	

METRIC FINE THREADS		
THREAD SIZE	STOCK #	
M8-1	TI66328	
M10-1.25	TI66329	
M10-1	TI66329	
M12-1.5	TI66322	
M12-1.25	TI66322	
M14-1.25S/P	TI66332	
M14-1.5	TI66332	
M16-1.5	TI66323	
M18-2	TI66324	
M18-1.5	TI66324	
M20-2	TI66330	
M20-1.5	TI66330	
M22-2	TI66325	
M22-1.5	TI66325	
M24-2	TI66326	

NPT REPAIR KITS		
THREAD SIZE	STOCK #	
1/8"- 27	TI66329	
1/4"- 18	TI66331	
3/8"- 18	TI66323	
1/2"- 14	TI66325	
3/4"- 14	TI66333	
1" - 11-1/2	TI66334	

• Individually packed

B

Thread Repair Kits

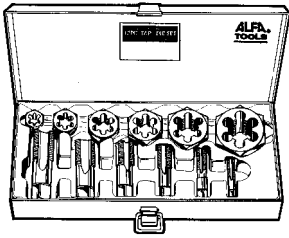
TAP & DIE SETS

Available in Fractional, Metric or Combination Sets

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

B

Tap & Die Sets



TDS66012NPT

12 PC. PIPE TAP & RETHRADING HEXAGON DIE SET **NEW**

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66012NPT	HIGH CARBON	12	6 NPT Pipe Taps, and 6 NPT Rethrading Hexagon Dies
Size and threads per inch (NPT sizes) 1/8-27, 1/4-18, 3/8-18, 1/2-14, 3/4-14, 1-11 1/2			

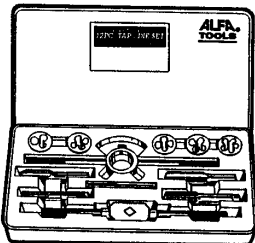


TDS66042

42 PC. ALFA USA MASTER RETHRADING TAP & HEXAGON DIE SET **NEW**

IN A MOLDED CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66042	HIGH CARBON	42	19 Rethrading Taps - Color Coded, 21 Rethrading Hexagon Dies - Color Coded, and 2 Rethrading Files
Size and threads per inch NC (Silver) 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, (5/8-11 Hex Die Only) NF (Black) 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, (5/8-18 Hex Die Only) METRIC (Gold) 6 X 1.00, 8 x 1.25, 10 x 1.25, 10 x 1.50, 12. x 1.25, 12 x 1.50, 12 x 1.75			
Rethrading File Pitches REGULAR 11, 12, 13, 14, 18, 20, 24 METRIC 0.75mm, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00			



TDS66012

12 PC. TAP & ADJ. ROUND DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66012	HIGH CARBON	12	5 Plug Taps, 5 Adj. 1" O.D. Round Dies,
Size and threads per inch (Fractional sizes) NC 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13 NC 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13 1 Die Stock 1" O.D. and 1 T-Handle Tap Wrench 1/8" - 1/2"			



TDS66022

22 PC. TAP & ADJ. ROUND DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66022	HIGH CARBON	22	10 Plug Taps, 10 Adj. 1" O.D. Round Dies,
Size and threads per inch (Fractional sizes) NC 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13 NF 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20 1 Die Stock 1" O.D. and 1 T-Handle Tap Wrench 1/8" - 1/2"			



TDS24MC

24 PC. METRIC TAP & ADJ. ROUND DIE SET **NEW**

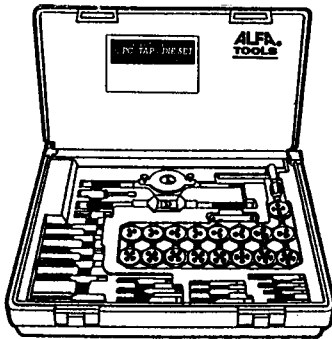
IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS24MC	HIGH CARBON	24	11 Plug Taps, 11 Adj. 2" O.D. Round Dies,
TDS24MH	HIGH SPEED	24	1 Die Stock 2" O.D. and 1 Adj. Tap Wrench
Metric sizes: M6 - M20, 1 each tap, 1 each die 6mm x 1.00, 7 x 1.00, 8 x 1.25, 9 x 1.25, 10 x 1.50, 11 x 1.50, 12mm x 1.75, 14 x 2.00, 16 x 2.00, 18 x 2.50, 20 x 2.50			

TAP & DIE SETS

Available in Fractional, Metric or Combination Sets

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

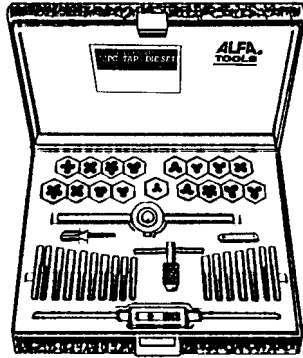


TDS66040CA

40 PC. ALFA USA SUPER DELUXE TAP & DIE SET

WITH HEXAGON DIES IN A MOLDED CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66040CA	HIGH CARBON	40	17 Plug Taps, 17 - 1" Hexagon Dies, 1 Hexagon Die Stock 1", 2 T Handle Tap Wrenches: 0 to 1/4" & 1/4" to 1/2", 1 Adjustable Tap Wrench 0 - 1", 1 Screw Driver, and 1 Thread Gauge.
Size and threads per inch (Machine Screw & Fractional sizes)			
NC	4-40, 6-32, 8-32, 10-24, 12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13		
NF	10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20		
NPT	1/8-27		



TDS66039H

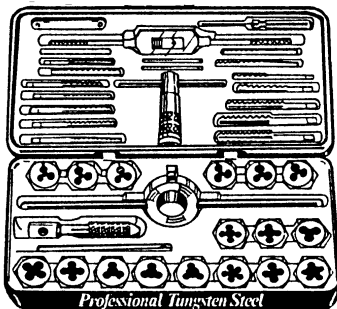
39 PC. DELUXE PROFESSIONAL TAP & DIE SET

WITH HEXAGON DIES IN A STEEL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66039H	HIGH SPEED	39	17 Plug Taps, 17 - 1" Hexagon Dies, 1 Hexagon Die Stock 1", 1 T Handle Tap Wrench: 0 to 1/4", 1 Adjustable Tap Wrench, 1 Screw Driver, and 1 Thread Gauge.
TDS66039C	HIGH CARBON	39	
Size and threads per inch (Machine Screw & Fractional sizes)			
NC	4-40, 6-32, 8-32, 10-24, 12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13		
NF	10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20		
NPT	1/8-27		

40 PC. POPULAR MECHANIC'S TAP & DIE SETS - SAE OR METRIC

WITH HEXAGON DIES IN A DOUBLE TRAY PLASTIC CASE



TDS66041H (SAE)

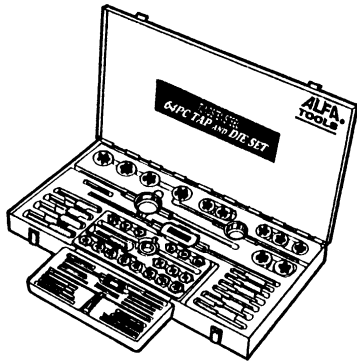
STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66041H (SAE)	HIGH CARBON	40	17 Plug Taps, 17 - 1" Hexagon Dies, 1 Hexagon Die stock 1", 2 T Handle Tap Wrenches: 0 to 1/4" & 1/4" to 1/2", 1 Adjustable Tap Wrench 0 - 1", 1 Screw Driver, and 1 Thread Gauge.
TDS66041M (METRIC)	HIGH CARBON	40	
SAE Set size and threads per inch (Machine Screw & Fractional sizes)			
NC	4-40, 6-32, 8-32, 10-24, 12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13		
NF	10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20		
NPT	1/8-27		
Metric set size and threads per inch (Metric sizes)			
3mm-0.5	4mm-0.75	6mm-0.75	8mm-1.00 10mm-1.25 12mm-1.75
3mm-0.6	5mm-0.8	6mm-1.00	8mm-1.25 10mm-1.50 1/8" BSP
4mm-0.7	5mm-0.9	7mm-1.00	9mm-1.25 12mm-1.50



TAP & DIE SETS

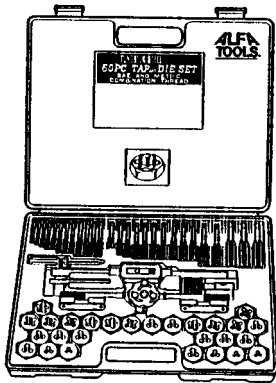
Available in Fractional or Combination Sets

64 PC. SUPER TAP AND DIE SET IN METAL CASE



TDS66064H

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66064H	HIGH SPEED	64	28 Plug Taps with: 17 Adjustable 1" O.D. Round Dies, 7 Adjustable 1-1/2" O.D. Round Dies, 4 Adjustable 2" O.D. Round Dies, 3 Die Stocks: 1" O.D., 1-1/2" O.D. and 2" O.D., 1 T-Handle Tap Wrench #0-1/4, 2 Adjustable Tap Wrenches: 1/16-1/2" and 1/4-1 1/8", 1 Screw Driver and 1 Screw Pitch Gauge
TDS66064C	HIGH CARBON	64	
Size and threads per inch (Machine Screw & Fractional sizes)			
NC	4-40, 6-32, 8-32, 10-24, 12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10, 7/8-9, 1-8		
NF	10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16, 7/8-14, 1-14(NS)		
NPT	1/8-27, 1/4-18		



TDS66060

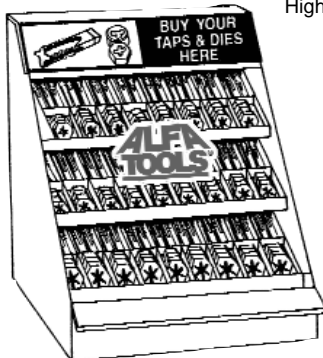
60 PC. COMBINATION SAE & METRIC SET WITH HEXAGON DIES IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66060	HIGH CARBON	60	17 Plug Taps & Hexagon Dies SAE 10 Plug Taps & Hexagon Dies METRIC Hexagon Die stock 1", T Handle Tap Wrench, Adjustable Tap Wrench 0-1", Screw Driver, Thread Gauge Inch & Metric.
Size and threads per inch (Machine Screw, Fractional & Metric sizes)			
SAE NC	4-40, 6-32, 8-32, 10-24, 12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13		
NF	10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20		
NPT	1/8-27		
Metric	3mm-0.5, 4mm-0.7, 5mm-0.8, 6mm-1.0, 7mm-1.0, 8mm-1.25, 9mm-1.25, 10mm-1.5, 10mm-1.0, 12mm-1.75		



207 PC. TAP & DIE DISPENSER

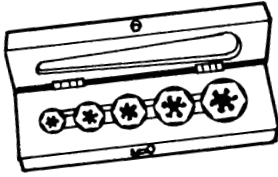
Available in Machine Screw and Fractional sizes, Plug Chamfer in NC, NF, NPT threads. HSS display comes with Round Adjustable Dies. High Carbon display comes with either Hexagonal or Round Adjustable Dies.



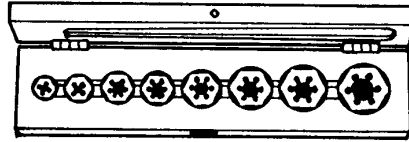
- Organized "point of sale" display shows complete assortment of taps & dies.
- Contains all popular size taps & dies in small quantities enabling service with minimal investment.
- Sizes clearly identified for easy selection. Lockable with own set of keys.
- Compact all metal display case.

NO. OF PCS.	DESCRIPTION		STOCK #
	Each Display Contains		
	6 each of Taps		
	4-40 NC	7/16-14NC	
	6-32 NC	7/16-20 NF	
	8-32 NC	1/2-13 NC	
	10-24 NC	1/2-20 NF	
	10-32 NF	9/16-12 NC	
	12-24 NC	9/16-18 NF	
	1/4-20 NC	5/8-11 NC	
	1/4-28 NF	5/8-18 NF	
	5/16-18 NC	3/4-10 NC	
	5/16-24 NF	3/4-16 NF	
	3/8-16 NC	1/8-27 NPT	
	3/8-24 NF		
	3 each of Dies		
	4-40 NC	7/16-14 NC	
	6-32 NC	7/16-20 NF	
	8-32 NC	1/2-13 NC	
	10-24 NC	1/2-20 NF	
	10-32 NF	9/16-12 NC	
	12-24 NC	9/16-18 NF	
	1/4-20 NC	5/8-11 NC	
	1/4-28 NF	5/8-18 NF	
	5/16-18 NC	3/4-10 NC	
	5/16-24 NF	3/4-16 NF	
	3/8-16 NC	1/8-27 NPT	
	3/8-24 NF		
207	HSS Taps with Round Adjustable Dies		ALFA USA GDCH1
207	HSS Taps with Round Adjustable Dies		ECO PRO GDCH2
207	High Carbon Taps with Round Adjustable Dies		ECO PRO GDCCRD
207	High Carbon Taps with Hexagonal Dies		ECO PRO GDCCHX
1	Display case without Taps & Dies		DIHGDCTD

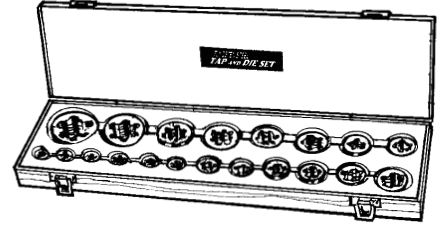
HEX DIE SETS IN WOOD CASES



TDS5C



TDS8C



TDS20

Expanded Offering!

RIGHT HAND DIE SET – 1 die each size

NO. OF PIECES	DESCRIPTION	STOCK #
5 pc.	NC – 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13	TDS5C
5 pc.	NF – 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20	TDS5F
8 pc.	NC – 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10	TDS8C
8 pc.	NF – 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16	TDS8F
10 pc.	NC – 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10, 7/8-9, 1-8	TDS10C
10 pc.	NF – 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16, 7/8-14, 1-12	TDS10F
20 pc.	NC/NF – 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 9/16-12, 9/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 7/8-9, 7/8-14, 1-8, 1-12	TDS20

LEFT HAND DIE SET – 1 die each size

NO. OF PIECES	DESCRIPTION	STOCK #
5 pc.	NC – 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13	TDS5LC
5 pc.	NF – 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20	TDS5LF
8 pc.	NC – 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10	TDS8LC
8 pc.	NF – 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16	TDS8LF
10 pc.	NC – 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10, 7/8-9, 1-8	TDS10LC
10 pc.	NF – 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16, 7/8-14, 1-12	TDS10LF
20 pc.	NC/NF – 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 9/16-12, 9/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 7/8-9, 7/8-14, 1-8, 1-12	TDLS20

B

Hex Die Sets / Tap & Drill Sets

TAP & DRILL SETS

- These drill & tap combinations produce a thread that is strong, yet easy to tap.
- 135° split point drills are self-starting and ensure fast, precise drilling.
- High carbon steel plug taps are ideal for general purpose threading.

NEW

CARBON STEEL TAPS PAIRED WITH HSS DRILLS

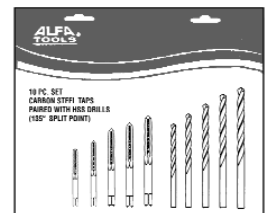
(135° SPLIT POINT)
ON A HANGUP CARD



TAP SIZE x TPI	DRILL SIZE	STOCK #
#4 - 40 NC	#43	TD66008C
#6 - 32 NC	7/64"	TD66012C
#8 - 32 NC	#29	TD66014C
#10 - 24 NC	#25	TD66016C
#10 - 32 NF	#21	TD66018C
#12 - 24 NC	#16	TD66032C
1/4" - 20 NC	13/64"	TD66033C
1/4" - 28 NF	#3	TD66034C
5/16" - 18 NC	Letter G	TD66036C
3/8" - 16 NC	Letter O	TD66040C
1/2" - 13 NC	27/64"	TD66061C
1/4" - 18 NPT	7/16"	TD66091C

• 1 pair per card

10 PC. SET CARBON STEEL TAPS PAIRED WITH HSS DRILLS (135° SPLIT POINT) IN VINYL POUCH



TD66080

DESCRIPTION		STOCK #	
10 Pc. Tap & Drill Set – NC/NF Plug Taps with Jobber Drills		TD66080	
Set contains 1 each of the following:			
THREAD SIZE	STOCK #	DRILL SIZE	STOCK #
6-32 NC	CSHTP70512	36	S160136B
8-32 NC	CSHTP70514	29	S160129B
10-24 NC	CSHTP70516	25	S160125B
10-32 NF	CSHTP70517	21	S160121B
1/4"-20 NC	CSHTP70532	7	S160107B

NC = National Course NF = National Fine

B-33

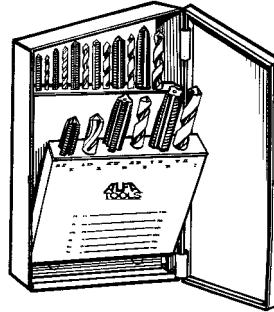
TAP & DRILL SETS

INCH • METRIC • HIGH SPEED & CARBON STEEL

B

Tap & Drill Sets

18 PC. TAP & DRILL INDEX SETS
 INCH OR METRIC
 IN METAL CASE
 NC OR NF THREADS



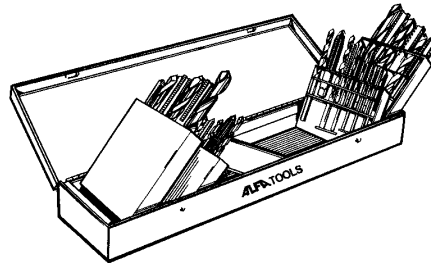
HSS TAPS WITH HSS DRILLS

DESCRIPTION	STOCK #	
	ALFA USA	ECO PRO
NC Plug Taps with Jobber Drills Contains 1 each 6-32 tap #36 drill 8-32 #29 10-24 #25 10-32 #21 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64"	TDSH118C	TDSH218C
NF Plug Taps with Jobber Drills Contains 1 each 6-40 tap #33 drill 8-36 #29 10-24 #25 10-32 #21 1/4"-28 #3 5/16"-24 #1 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64	TDSH118F	TDSH218F
Metric Plug Taps with Jobber Drills Contains 1 each M2.5 x .45 #46 drill M3.0 x .50 #39 M3.5 x .60 #32 M4.0 x .70 #30 M5.0 x .80 #19 M6.0 x 1.0 #8 M8.0 x 1.25 H M10.0 x 1.50 Q M12.0 x 1.75 13/32	TDSH118M	TDSH218M

HIGH CARBON TAPS WITH HSS DRILLS

DESCRIPTION	STOCK #
	ECO PRO
NC Taps with Jobber Drills Contains 1 each 6-32 tap #36 drill 8-32 #29 10-24 #25 10-32 #21 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64"	TDSC218C
NF Taps with Jobber Drills Contains 1 each 6-40 tap #33 drill 8-36 #29 10-24 #25 10-32 #21 1/4"-28 #3 5/16"-24 #1 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64	TDSC218F

36 PC. TAP & DRILL COMBINATION
 INDEX SETS IN METAL CASE
 NC & NF THREADS



HSS TAPS & HSS DRILLS

DESCRIPTION	STOCK #	
	ALFA USA	ECO PRO
NC/NF Plug Taps with Jobber Drills Contains 1 each NC 6-32 tap #36 drill 8-32 #29 10-24 #25 12-24 #16 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64 and NF 6-40 tap #33 drill 8-36 #29 10-32 #21 12-28 #15 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64	TDSH136	TDSH236

HIGH CARBON TAPS & HSS DRILLS

DESCRIPTION	STOCK #
	ECO PRO
NC/NF Plug Taps with Jobber Drills Contains 1 each NC 6-32 tap #36 drill 8-32 #29 10-24 #25 12-24 #16 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64" and NF 6-40 tap #33 drill 8-36 #29 10-32 #21 12-28 #15 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64	TDSC236



TAP SETS

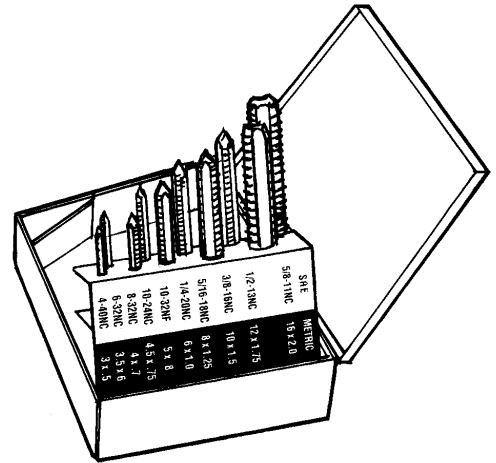
INCH • METRIC • HIGH SPEED & CARBON STEEL

Most popular taps are organized in a durable metal case which fit conveniently in any toolbox.
The Tap Set isolates each tap, prevents chipping and permits easy selection.

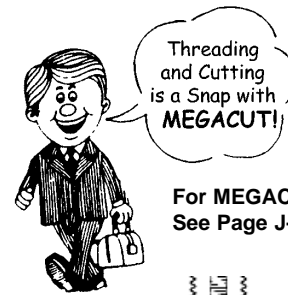
10 PC. & 19 PC. HAND TAP SETS IN METAL CASE NC & NF THREADS

NEW

NO. OF PIECES	DESCRIPTION	STOCK #	
		ALFA USA	ECO PRO
HIGH SPEED STEEL TAP SETS			
10 pc.	Plug Taps, 1 size each: 4-40NC, 6-32NC, 8-32NC, 10-24NC, 10-32NF, 1/4-20NC, 5/16-18NC, 3/8-16NC, 1/2-13NC, 5/8-11NC	TDS66010	TDS266010
10 pc.	Metric Plug Taps, 1 size each: 3 x .5, 3.5 x .6, 4 x .7, 4.5 x .75, 5 x .8, 6 x 1.0, 8 x 1.25, 10 x 1.5, 12 x 1.75, 16 x 2.0	TDS66011	TDS266011
10 pc.	Plug Taps, 1 size each: 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20	TDS66013	TDS266013
19 pc.	Plug Taps, 1 size each: 0-80, 1-64, 1-72, 2-56, 2-64, 3-48, 3-56 4-40, 4-48, 5-40, 5-44, 6-32, 6-40, 8-32 8-36, 10-24, 10-32, 12-24, 12-28	TDS66019	TDS266019
CARBON STEEL SETS			
10 pc.	Plug Taps, 1 size each: 4-40, 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 1/2-13, 5/8-11	—	TDS266014
10 pc.	Plug Taps, 1 size each: 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20	—	TDS266015



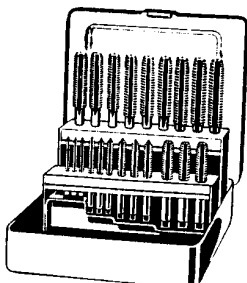
TDS66010



For MEGACUT details,
See Page J-3.



21 PC. HSS HAND TAP SETS IN METAL CASE NC & NF THREADS



TDS66021HC

Each set is comprised of 7 most used HSS taps in Taper, Plug, and Bottoming chamfer.

DESCRIPTION	STOCK #	
	ALFA USA	ECO PRO
Contains 3 each NC Hand Taps in Taper, Plug & Bottoming 6-32 1/4"-20 3/8"-16 1/2"-13 10-24 5/16"-18 7/16"-14	TDS66021HC	TDS266021HC
Contains 3 each NF Hand Taps in Taper, Plug & Bottoming 6-40 1/4"-28 3/8"-24 1/2"-20 10-32 5/16"-24 7/16"-20	TDS66021HF	TDS266021HF



• ALFA USA taps are manufactured in the United States.
• ECO PRO taps are made outside the United States to ALFA TOOL'S specifications.



TAP & DIE DISPLAYS

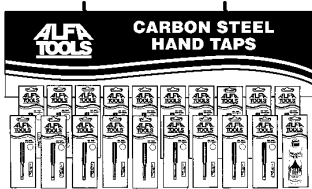
60 PC. STEP-OUT WALL DISPLAY

NEW

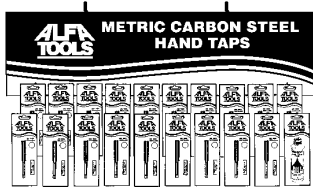
- Wall Merchandiser displays ALFA TOOLS® taps and dies in a minimum of wall space.
- The two tier wire rack permits easy viewing of the entire selection.
- Six tap and die assortments to choose from.

B

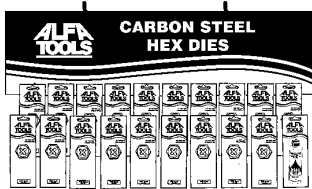
Tap & Die Displays



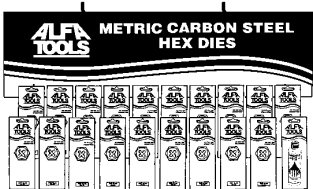
SODPT60



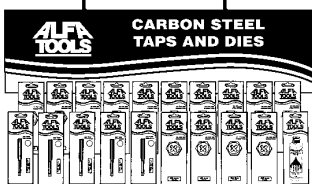
SODPT60M



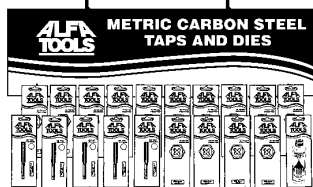
SODHD60



SODHD60M

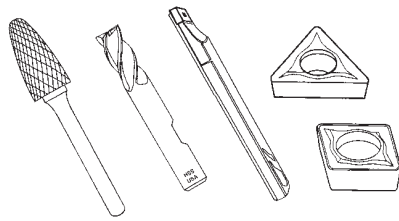


SODTD60



SODTD60M

DESCRIPTION	STOCK #
Carbon Steel Plug Taps - 3 each of Machine Screw, Fractional and NPT Sizes: 4-40 10-32 5/16-24 1/2-13 5-40 12-24 3/8-16 1/2-20 6-32 1/4-20 3/8-24 1/8-27 NPT 8-32 1/4-28 7/16-14 1/4-18 NPT 10-24 5/16-18 7/16-20 1 oz. MegaCut Threading Fluid - 3 each	SODPT60
Carbon Steel Plug Taps - 3 each of Metric Sizes: 3 - .60 6 - 1.00 9 - 1.00 11 - 1.50 4 - .50 7 - 1.00 9 - 1.25 12 - 1.25 4 - .70 8 - 1.00 10 - 1.00 12 - 1.50 5 - .80 8 - 1.25 10 - 1.25 12 - 1.75 5 - .90 9 - .75 10 - 1.50 1 oz. MegaCut Threading Fluid - 3 each	SODPT60M
Carbon Steel Hexagonal Dies - 3 each of Machine Screw, Fractional and NPT Sizes: 4-40 10-32 5/16-24 1/2-13 5-40 12-24 3/8-16 1/2-20 6-32 1/4-20 3/8-24 1/8-27 NPT 8-32 1/4-28 7/16-14 1/4-18 NPT 10-24 5/16-18 7/16-20 1 oz. MegaCut Threading Fluid - 3 each	SODHD60
Carbon Steel Hexagonal Dies - 3 each of Metric Sizes: 3 - .60 6 - 1.00 9 - 1.00 11 - 1.50 4 - .50 7 - 1.00 9 - 1.25 12 - 1.25 4 - .70 8 - 1.00 10 - 1.00 12 - 1.50 5 - .80 8 - 1.25 10 - 1.25 12 - 1.75 5 - .90 9 - .75 10 - 1.50 1 oz. MegaCut Threading Fluid - 3 each	SODHD60M
Carbon Steel Plug Taps and Hex Dies 3 Taps and 3 Dies each of Machine Screw and Fractional Sizes: 6-32 10-32 5/16-18 8-32 12-24 3/8-16 10-24 1/4-20 1/2-13 1 oz. MegaCut Threading Fluid - 6 each	SODTD60
Carbon Steel Plug Taps and Hex Dies 3 Taps and 3 Dies each of Metric Sizes: 5 - .80 8 - 1.00 10 - 1.50 6 - 1.00 10 - 1.00 12 - 1.25 7 - 1.00 10 - 1.25 12 - 1.50 1 oz. MegaCut Threading Fluid - 6 each	SODTD60M



C

Burrs End Mills Carbide Tooling

Burrs

Carbide Burrs	C3-8
Carbide Burrs – Alumacut	C6
Carbide Burrs – Miniature Series	C7
Fiberglass Routers	C7
Carbide Burr Sets & Dispenser	C8
Drill Routers	C8
HSS Burrs – Rotary Files	C9

End Mills

HSS End Mills – Single End

Two Flute, Center Cut	C10
Multi-Flute, Non-Center Cut	C10
Multi-Flute, Center Cut	C11
Two Flute, Long, Center Cut	C11
Multi-Flute, Long, Non-Center Cut	C11

HSS End Mills, Ball Nose – Single End

Two Flute, Center Cut	C12
Multi-Flute, Center Cut	C12

HSS End Mills For Aluminum – Single End

Two Flute – Regular Length, Long Length, Extra Long Length	C12
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HSS End Mills – Double End

Two Flute, Center Cut	C13
Multi-Flute, Non-Center Cut	C13

HSS End Mills, Ball Nose – Double End

Two Flute, Center Cut	C13
-----------------------	-----

HSS End Mills, Miniature – Double End

Two Flute, Center Cut	C14
Four Flute	C14

Cobalt M-42 End Mills – Single End

Two Flute, Center Cut	C15
Multi-Flute, Center Cut	C15
Multi-Flute, Long, Center Cut	C15

Cobalt M-42 End Mills – Double End

Two Flute, Center Cut	C16
Multi-Flute, Center Cut	C16

Cobalt M-42 Roughing End Mills

Multi-Flute, Regular	C17
Multi-Flute, Medium & Long	C17
Multi-Flute for Bridgeport	C17
Multi-Flute, Ball-Nose	C17
Multi-Flute, Shell Type	C17

Drill Point End Mills – Center Cut

Cobalt, Two Flute, 90° Point	C18
Cobalt, Two Flute, 60° Point	C18
Carbide, Two Flute, 90° Point	C18

Solid Carbide End Mills – Single End

Two Flute, Center Cut	C19
Two Flute, Stub, Center Cut	C19
Four Flute, Center Cut	C19
Four Flute, Stub, Center Cut	C19
Two Flute, Long, Center Cut	C20
Four Flute, Long, Center Cut	C20

Solid Carbide End Mills – Ball Nose

Two Flute, Center Cut	C20
Four Flute, Center Cut	C20

Solid Carbide End Mills – Metric

Two Flute, Single End	C21
Four Flute, Single End	C21

Solid Carbide End Mills – High Helix

Three Flute, Single End, 45° Helix, Center Cut	C21
Three Flute, Single End, 60° Helix, Center Cut	C21

Solid Carbide End Mills – Double End

Two Flute, Center Cut	C22
Two Flute, Stub, Center Cut	C22
Four Flute, Center Cut	C22
Four Flute, Stub, Center Cut	C22

HSS Cutters

Woodruff Keyseat	C22
Corner Rounding	C23
Dovetail	C23
T-Slot	C23

Indexable Carbide Turning Tools

Carbide Tipped Tool Bits	C24
Indexable Insert Boring Bars	C25
Carbide Tipped Boring Bar Sets	C25
Carbide Indexable Inserts	C26-34
Torx® Drivers for Carbide Inserts	C35
Screws for Carbide Inserts	C35
Deburring Tools	C36

Collets

5C Precision Collets	C37
R8 Precision Collets	C38
ER Spring Collets	C39
Collet Racks	C38
ER Collet Holders & Kits	C40
ER Collet Chucks & Holders	C40-41
R8 End Mill Holders	C42
5C Precision Indexing Fixtures	C42

Carbide & High Speed Steel Burrs

Burr Sets

- A full line of burrs for a wide range of applications
- A wide selection of fluting styles
- Extra-long shanks available
- Miniature burrs
- State-of-the-art CNC precision made
- Made in U.S.A.

**TiN
Coating
Available**



1/4" SHANK • RIGHT HAND CUT

Up to 1/4" Cutting Dia. are Solid Carbide 2" Overall Length.

Larger Burrs have Solid Carbide Heads Brazed on to Heat Treated Steel Shanks

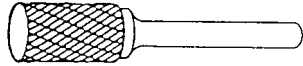
Carbide burrs are one of the popular versatile tools used across the spectrum of virtually every industry. They are used for polishing, blending and deburring of all metals, rubber and other hard to machine materials.

Manufactured from micro grain carbide on CNC automatic machines, these burrs deliver dependable repeatability everytime.

Single and double cut burrs are available from stock — other cuts are offered on special order —
Chipbreaker, Diamond, Coarse and Fine cuts.

Burr illustrations are shown double cut.

SA



Expanded Offering!

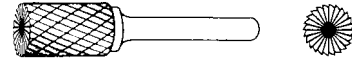
Inch Dimensions

CYLINDRICAL

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #	
		SINGLE CUT	DOUBLE CUT
SA-11	1/8 x 1/2	B71201	B71201D
SA-12	1/8 x 5/8	B71301	B71301D
SA-14	3/16 x 5/8	B71212	B71212D
SA-1	1/4 x 5/8	B71202	B71202D
SA-2	5/16 x 3/4	B71204	B71204D
SA-3	3/8 x 3/4	B71205	B71205D
SA-4	7/16 x 1	B71207	B71207D
SA-5	1/2 x 1	B71208	B71208D
SA-6	5/8 x 1	B71209	B71209D
SA-16	3/4 x 3/4	B71303	B71303D
SA-7	3/4 x 1	B71210	B71210D
SA-9	1 x 1	B71211	B71211D

• 1 per pack

SB



Expanded Offering!

Inch Dimensions

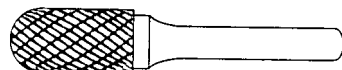
CYLINDRICAL END CUT

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #	
		SINGLE CUT	DOUBLE CUT
SB-11	1/8 x 1/2	B71291	B71291D
SB-12	1/8 x 5/8	B71391	B71391D
SB-14	3/16 x 5/8	B71392	B71392D
SB-1	1/4 x 5/8	B71292	B71292D
SB-2	5/16 x 3/4	B71293	B71293D
SB-3	3/8 x 3/4	B71294	B71294D
SB-4	7/16 x 1	B71295	B71295D
SB-5	1/2 x 1	B71296	B71296D
SB-6	5/8 x 1	B71297	B71297D
SB-16	3/4 x 3/4	B71398	B71398D
SB-7	3/4 x 1	B71298	B71298D
SB-9	1 x 1	B71299	B71299D

• 1 per pack

Carbide Burrs

SC



Expanded Offering!

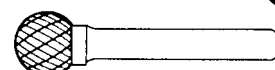
Inch Dimensions

CYLINDRICAL RADIUS END

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #	
		SINGLE CUT	DOUBLE CUT
SC-11	1/8 x 1/2	B71221	B71221D
SC-12	1/8 x 5/8	B71333	B71333D
SC-14	3/16 x 5/8	B71220	B71220D
SC-1	1/4 x 5/8	B71222	B71222D
SC-2	5/16 x 3/4	B71224	B71224D
SC-3	3/8 x 3/4	B71225	B71225D
SC-4	7/16 x 1	B71227	B71227D
SC-5	1/2 x 1	B71228	B71228D
SC-6	5/8 x 1	B71229	B71229D
SC-7	3/4 x 1	B71230	B71230D
SC-9	1 x 1	B71231	B71231D

• 1 per pack

SD



Expanded Offering!

Inch Dimensions

BALL

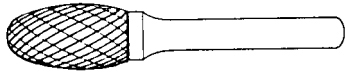
SHAPE	HEAD DIAMETER	STOCK #	
		SINGLE CUT	DOUBLE CUT
SD-11	1/8	B71241	B71241D
SD-14	3/16	B71350	B71350D
SD-1	1/4	B71242	B71242D
SD-2	5/16	B71243	B71243D
SD-3	3/8	B71244	B71244D
SD-4	7/16	B71245	B71245D
SD-5	1/2	B71246	B71246D
SD-6	5/8	B71247	B71247D
SD-7	3/4	B71248	B71248D
SD-9	1	B71249	B71249D

• 1 per pack



Chipbreaker, Diamond, Coarse and Fine Cut Burrs are available upon request.

SE



Expanded Offering!

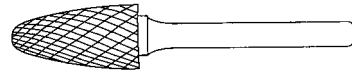
Inch Dimensions

OVAL

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #	
		SINGLE CUT	DOUBLE CUT
SE-11	3/16 x 5/16	B71319	B71319D
SE-1	1/4 x 3/8	B71214	B71214D
SE-3	3/8 x 5/8	B71215	B71215D
SE-5	1/2 x 7/8	B71216	B71216D
SE-6	5/8 x 1	B71217	B71217D
SE-7	3/4 x 1	B71218	B71218D

• 1 per pack

SF



Expanded Offering!

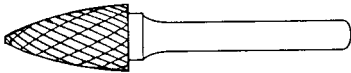
Inch Dimensions

TREE - RADIUS END

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #	
		SINGLE CUT	DOUBLE CUT
SF-1	1/4 x 5/8	B71252	B71252D
SF-3	3/8 x 3/4	B71253	B71253D
SF-4	7/16 x 1	B71354	B71354D
SF-13	1/2 x 3/4	B71258	B71258D
SF-5	1/2 x 1	B71255	B71255D
SF-6	5/8 x 1	B71256	B71256D
SF-7	3/4 x 1	B71257	B71257D
SF-14	3/4 x 1-1/4	B71351	B71351D
SF-15	3/4 x 1-1/2	B71259	B71259D

• 1 per pack

SG



Expanded Offering!

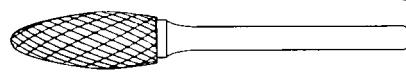
Inch Dimensions

TREE - POINTED END

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #	
		SINGLE CUT	DOUBLE CUT
SG-1	1/4 x 5/8	B71261	B71261D
SG-2	5/16 x 3/4	B71262	B71262D
SG-3	3/8 x 3/4	B71263	B71263D
SG-13	1/2 x 3/4	B71364	B71364D
SG-5	1/2 x 1	B71265	B71265D
SG-6	5/8 x 1	B71266	B71266D
SG-7	3/4 x 1	B71267	B71267D
SG-15	3/4 x 1-1/2	B71268	B71268D

• 1 per pack

SH



Expanded Offering!

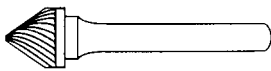
Inch Dimensions

FLAME

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

• 1 per pack

SJ



NEW

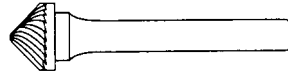
Inch Dimensions

60° CONE

SHAPE	HEAD DIAMETER	STOCK #	
		SINGLE CUT	DOUBLE CUT
SJ-1	1/4 x 3/16	B71260A	B71260AD
SJ-3	3/8 x 5/16	B71312	B71312D
SJ-5	1/2 x 7/16	B71313	B71313D
SJ-6	5/8 x 9/16	B71314	B71314D
SJ-7	3/4 x 11/16	B71315	B71315D
SJ-9	1 x 15/16	B71316	B71316D

• 1 per pack

SK



NEW

Inch Dimensions

90° CONE

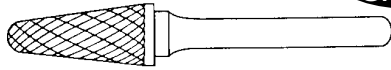
SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #	
		SINGLE CUT	DOUBLE CUT
SK-1	1/4 x 1/8	B71321	B71321D
SK-3	3/8 x 3/16	B71322	B71322D
SK-5	1/2 x 1/4	B71323	B71323D
SK-6	5/8 x 5/16	B71324	B71324D
SK-7	3/4 x 3/8	B71325	B71325D
SK-9	1 x 1/2	B71326	B71326D

• 1 per pack

C

Carbide Burrs

SL



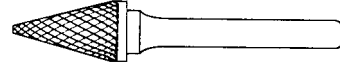
Expanded Offering!

Inch Dimensions 14° TAPER/CONE - RADIUS END

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #	
		SINGLE CUT	DOUBLE CUT
SL-1	1/4 x 5/8	B71281	B71281D
SL-2	5/16 x 7/8	B71282	B71282D
SL-3	3/8 x 1-1/16	B71283	B71283D
SL-4	1/2 x 1-1/8	B71284	B71284D
SL-5	5/8 x 1-3/16	B71287A	B71287AD
SL-6	5/8 x 1-5/16	B71285	B71285D
SL-7	3/4 x 1-1/2	B71286	B71286D

• 1 per pack

SM

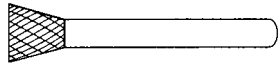


Inch Dimensions TAPER/CONE - POINTED END

SHAPE	HEAD SIZE DIA. x LENGTH	ANGLE	STOCK #	
			SINGLE CUT	DOUBLE CUT
SM-1	1/4 x 1/2	22°	B71233	B71233D
SM-2	1/4 x 3/4	14°	B71234	B71234D
SM-3	1/4 x 1	10°	B71235	B71235D
SM-4	3/8 x 5/8	28°	B71236	B71236D
SM-5	1/2 x 7/8	28°	B71237	B71237D
SM-6	5/8 x 1	31°	B71238	B71238D

• 1 per pack

SN



Inch Dimensions INVERTED CONE

NEW

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

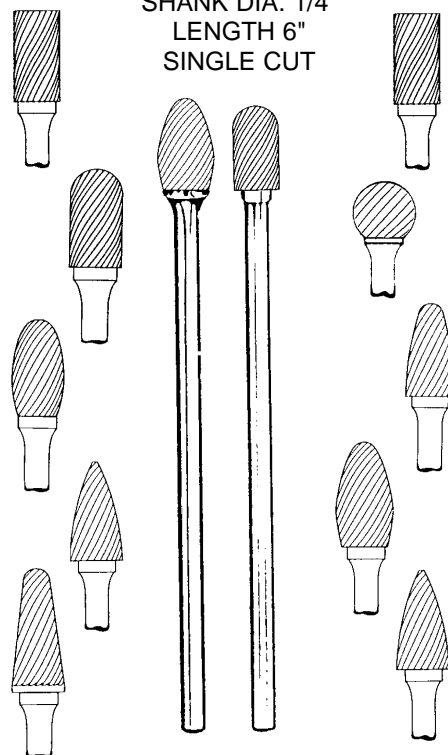
• 1 per pack

Chipbreaker, Diamond, Coarse and Fine Cut Burrs are available upon request.

LONG SHANK BURRS

SHANK DIA. 1/4"
LENGTH 6"
SINGLE CUT

SHAPE	STOCK #
A - CYLINDRICAL	
SA-1L	B71202L
SA-3L	B71205L
SA-5L	B71208L
C - CYLINDRICAL RADIUS END	
SC-1L	B71222L
SC-3L	B71225L
SC-5L	B71228L
E - OVAL	
SE-1L	B71214L
SE-3L	B71215L
SE-5L	B71216L
G - TREE POINTED END	
SG-1L	B71261L
SG-3L	B71263L
SG-5L	B71265L
L - TAPER/CONE RADIUS END	
SL-1L	B71281L
SL-3L	B71283L
SL-4L	B71284L



SHAPE	STOCK #
B - CYLINDRICAL END CUT	
SB-1L	B71292L
SB-3L	B71294L
SB-5L	B71296L
D - BALL	
SD-1L	B71242L
SD-3L	B71244L
SD-5L	B71246L
F - TREE RADIUS END	
SF-1L	B71252L
SF-3L	B71253L
SF-5L	B71255L
H - FLAME	
SH-2L	B71272L
SH-5L	B71273L
M - TAPER/CONE POINTED END	
SM-1L	B71233L
SM-3L	B71235L
SM-5L	B71237L

• 1 per pack

Longer shanks up to 10" are available.



CARBIDE BURRS – ALUMACUT

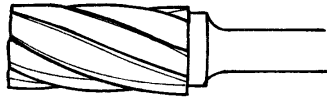
FOR NON-FERROUS METALS

1/4" Shank • Right Hand Cut

Expanded Offering!

- For deburring softer non-ferrous metals & non-metallic materials.
- Coarse cut for use on soft, stringy materials such as Aluminum, Magnesium, Plastics, Hard Rubber, Hard Woods, etc.
- The wide clearance & end mill type geometry of the flutes promotes fast stock removal with minimum loading.

SA/NF

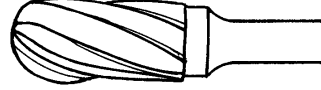


Inch Dimensions **CYLINDRICAL**

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SA-1NF	1/4 x 5/8	B71202A
SA-3NF	3/8 x 3/4	B71205A
SA-5NF	1/2 x 1	B71208A
SA-6NF	5/8 x 1	B71209A
SA-7NF	3/4 x 1	B71210A

• 1 per pack

SC/NF

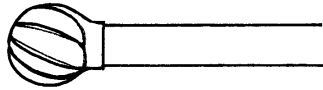


Inch Dim. **CYLINDRICAL RADIUS END**

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SC-3NF	3/8 x 3/4	B71225A
SC-5NF	1/2 x 1	B71228A
SC-6NF	5/8 x 1	B71229A
SC-7NF	3/4 x 1	B71230A

• 1 per pack

SD/NF

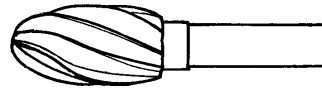


Inch Dimensions **BALL**

SHAPE	HEAD DIAMETER	STOCK #
SD-3NF	3/8	B71244A
SD-5NF	1/2	B71246A
SD-6NF	5/8	B71247A
SD-7NF	3/4	B71248A

• 1 per pack

SE/NF

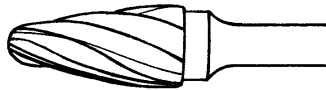


Inch Dimensions **OVAL**

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SE-3NF	3/8 x 5/8	B71215A
SE-5NF	1/2 x 7/8	B71216A
SE-6NF	5/8 x 1	B71217A
SE-7NF	3/4 x 1	B71218A

• 1 per pack

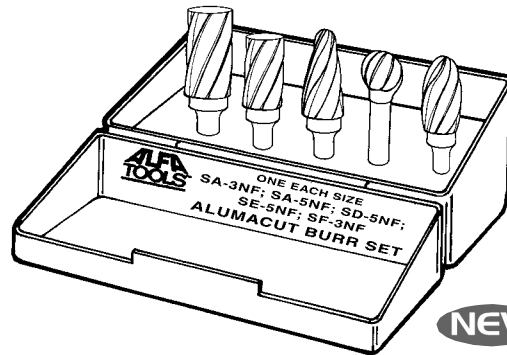
SF/NF



Inch Dimensions **TREE-RADIUS END**

SHAPE	HEAD SIZE DIA. x LENGTH	STOCK #
SF-3NF	3/8 x 3/4	B71253A
SF-5NF	1/2 x 1	B71255A
SF-6NF	5/8 x 1	B71256A
SF-7NF	3/4 x 1	B71257A

• 1 per pack

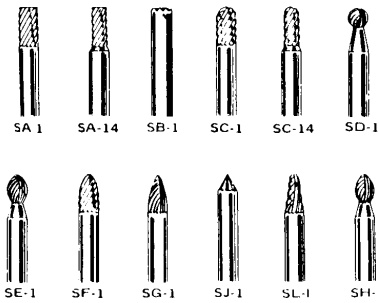


5 PC. ALUMACUT BURR SET

DESCRIPTION	STOCK #
Contains 1 each: SA-1NF SA-5NF SD-5NF SE-5NF SF-3NF	B71290A

Micro-Grain

CARBIDE BURRS • MINIATURE SERIES

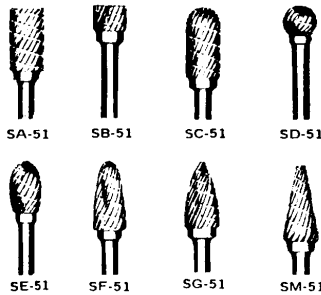


Inch Dimensions

1/4" HEAD 1/4" SHANK

SHAPE	HEAD SIZE	STOCK #	SHAPE	HEAD SIZE	STOCK #
SA-1	1/4 x 5/8	B71202	SE-1	1/4 x 3/8	B71214
SA-14	3/16 x 5/8	B71212	SF-1	1/4 x 5/8	B71252
SB-1	1/4 x 5/8	B71292	SG-1	1/4 x 3/4	B71261
SC-1	1/4 x 5/8	B71222	SJ-1	1/4 x 60°	B71260A
SC-14	3/16 x 5/8	B71220	SL-1	1/4 x 5/8	B71281
SD-1	1/4 x 1/4	B71242	SH-1	1/4 x 3/8	B71271

• 1 per pack

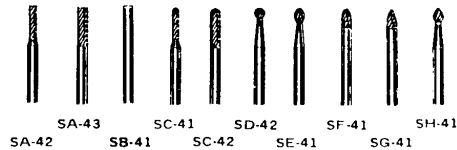


Inch Dimensions

1/4" HEAD 1/8" SHANK

SHAPE	HEAD SIZE	STOCK #	SHAPE	HEAD SIZE	STOCK #
SA-51	1/4 x 1/2	B71203	SE-51	1/4 x 3/8	B71269
SB-51	1/4 x 3/16	B71219	SF-51	1/4 x 1/2	B71250
SC-51	1/4 x 1/2	B71223	SG-51	1/4 x 1/2	B71260
SD-51	1/4 x 1/4	B71240	SM-51	1/4 x 1/2	B71239

• 1 per pack



Inch Dimensions

1/8" HEAD 1/8" SHANK

SHAPE	HEAD SIZE	STOCK #	SHAPE	HEAD SIZE	STOCK #
SA-42	3/32 x 1/2	B71206	SD-42	1/8 x 1/8	B71240A
SA-43	1/8 x 5/8	B71213	SE-41	1/8 x 3/16	B71270
SB-41	1/8 x 1/8	B71232	SF-41	1/8 x 1/4	B71251
SC-41	3/32 x 1/2	B71226	SG-41	1/8 x 1/4	B71264
SC-42	1/8 x 5/8	B71254	SH-41	1/8 x 3/16	B71271A

• 1 per pack

Micro-Grain

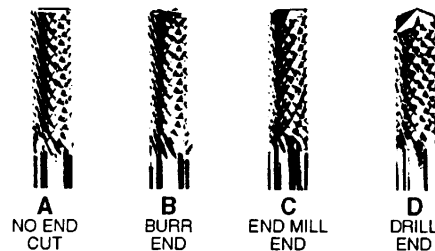
FIBERGLASS ROUTERS

SOLID CARBIDE • DIAMOND CUT

Inch Dimensions

STYLE	TOOL DIA.	LENGTH OF CUT	SHANK DIA.	OAL	STOCK #
FGR-1	1/16	3/16	1/8	1-1/2	B71701
FGR-1.1	3/32	3/8	1/8	1-1/2	B71703
FGR-2	1/8	1/2	1/8	1-1/2	B71705
FGR-3	3/16	5/8	3/16	2	B71707
FGR-4	3/16	5/8	1/4	2	B71709
FGR-5	1/4	3/4	1/4	2	B71711
FGR-6	1/4	3/4	1/4	2-1/2	B71713
FGR-6.1	1/4	1	1/4	3	B71715
FGR-7	5/16	1	5/16	2-1/2	B71717
FGR-8	3/8	1	3/8	2-1/2	B71719
FGR-9	1/2	1	1/2	3	B71721

• 1 per pack



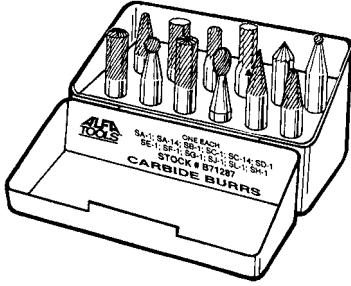
Specify style when ordering. i.e. FGR-1 = B71701 (A)



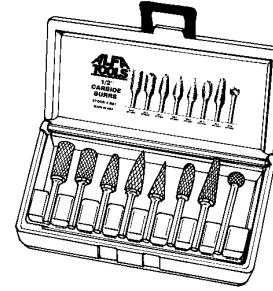
Micro-Grain

CARBIDE BURR SETS

IN FITTED CASE



Expanded Offering!



MRO SETS

C

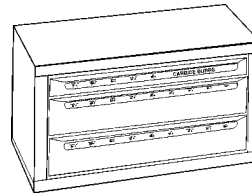
Carbide Burrs / Drill Routers

SET DESCRIPTION	STOCK #
16 Pc. Set 1/4" Shank Burrs Contains 1 each: SA-1, SA-3, SA-5, SC-1, SC-3, SC-5, SD-3, SD-5, SE-3, SF-1, SF-3, SF-5, SG-1, SG-3, SL-3, SL-4 Single Cut Double Cut	B71290 B71290D
12 Pc. Set 1/4" Shank Burrs Contains 1 each: SA-1, SA-14, SB-1, SC-1, SC-14, SD-1, SE-1, SF-1, SG-1, SH-1, SJ-1, SL-1 Single Cut Double Cut	B71287 B71287D
5 Pc. Set 1/4" Shank for Non Ferrous Contains 1 each: SA-1NF, SA-5NF, SD-5NF, SE-5NF, SF-3NF	B71290A AlumaCut
8 Pc. Set 1/4" Head 1/8" Shank Contains 1 each: SA-51, SB-51, SC-51, SD-51, SE-51, SF-51, SG-51, SM-51	B71288
10 Pc. Set 1/8" Head 1/8" Shank Contains 1 each: SA-42, SA-43, SB-41, SC-41, SC-42, SD-42, SE-41, SF-41, SG-41, SH-41	B71289A

SET DESCRIPTION	STOCK #
8 Pc. Set 1/4" Shank 1" Head Contains 1 each: SA-5, SC-5, SD-5, SE-5, SF-5, SG-5, SL-5, SM-5 All Double Cut	B81
8 Pc. Set 1/4" Shank 1/2" Head Contains 1 each: SA-1, SC-1, SD-1, SE-1, SF-1, SG-1, SL-1, SM-1 All Double Cut	B82

CARBIDE BURR DISPENSER

(Burrs not included)



- All steel welded construction
- Compact display measures 14-5/8" W x 7-3/8" D x 7-3/4" H

NEW

DESCRIPTION	STOCK #
For sizes: SA-1, SC-1, SD-1, SE-1, SF-1, SG-1, SL-1, SA-3, SC-3, SD-3, SE-3, SF-3, SG-3, SL-3, SM-3, SL-4, SM-4, SA-5, SC-5, SD-5, SE-5, SF-5, SG-5, SM-5	DIH13200

DRILL ROUTERS

HIGH SPEED STEEL

135° SPLIT POINT

The all purpose Drill Routers are for use on wood, plywood plastic and metal.

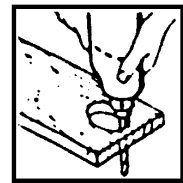
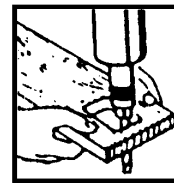


2" cutting, sawing and reaming section

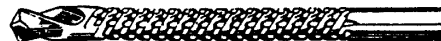


1/4" HEX POWER SHANK

WITH 1/4" POWER HEX SHANK



2" cutting, sawing and reaming section



REGULAR SHANK

SIZE	FINISH	STOCK #	
		ENVELOPED	CARDED
1/4"	REGULAR	DSH50113	DSH50113C
1/4"	TIN COATED	DSH50113TN	DSH50113TNC

- Bulk 12 per envelope
- Card 1 per card

SIZE	FINISH	STOCK #	
		ENVELOPED	CARDED
1/4"	REGULAR	DS50113	DS50113C
1/4"	TIN COATED	DS50113TN	DS50113TNC

- Bulk 12 per envelope
- Card 1 per card

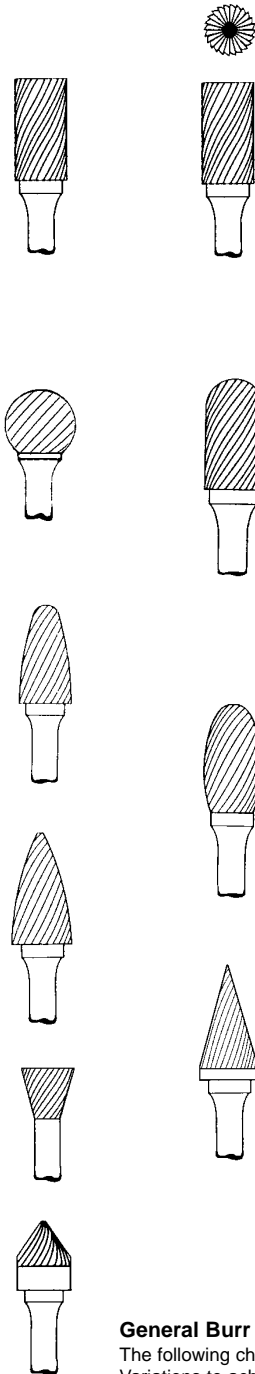
See page A-72 for Monolock™ Quick Change Chuck Information



HSS BURRS • ROTARY FILES

1/4" SHANK • HIGH SPEED STEEL • RIGHT HAND CUT

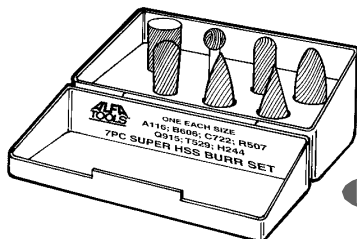
SHAPE	HEAD SIZE DIA. x LENGTH IN.	STOCK #
A - CYLINDRICAL		
A-100	1/8 x 1/2	BH74201
A-106	1/4 x 1	BH74202
A-107	1/4 x 1-1/2	BH74203
A-109	3/8 x 1	BH74204
A-110	3/8 x 1-1/2	BH74205
A-111	1/2 x 1	BH74206
A-112	1/2 x 1-1/2	BH74207
A-114	5/8 x 1	BH74208
A-116	3/4 x 3/4	BH74209
A-118	1 x 1	BH74210
B - BALL SHAPE		
B-600	1/8 x 1/8	BH74215
B-602	1/4 x 1/4	BH74216
B-603	5/16 x 5/16	BH74217
B-604	3/8 x 3/8	BH74218
B-606	1/2 x 1/2	BH74219
B-609	3/4 x 3/4	BH74220
R - TREE-RADIUS NOSE		
R-503	1/4 x 3/4	BH74221
R-507	1/2 x 1-1/8	BH74222
R-509	3/4 x 1-1/4	BH74223
R-511	1-1/8 x 1-3/4	BH74224
T - TREE POINTED		
T-521	1/4 x 3/4	BH74226
T-523	3/8 x 3/4	BH74227
T-525	1/2 x 3/4	BH74228
T-527	1/2 x 1-1/8	BH74229
T-529	5/8 x 1	BH74230
I - INVERTED CONE		
I-471	1/2 x 1/2	BH74235
I-472	3/4 x 3/4	BH74236
D - DEBURRING		
D-404	1/2 x 60° ANGLE	BH74238
D-406	5/8 x 60° ANGLE	BH74239



SHAPE	HEAD SIZE DIA. x LENGTH IN.	STOCK #
AE - CYLINDRICAL END CUT		
AE-100	1/8 x 1/2	BH74240
AE-106	1/4 x 1	BH74241
AE-107	1/4 x 1-1/2	BH74242
AE-109	3/8 x 1	BH74243
AE-110	3/8 x 1-1/2	BH74244
AE-111	1/2 x 1	BH74245
AE-112	1/2 x 1-1/2	BH74246
AE-114	5/8 x 1	BH74247
AE-116	3/4 x 3/4	BH74248
AE-118	1 x 1	BH74249
C - CYLINDRICAL ROUND		
C-700	1/8 x 1/2	BH74251
C-710	1/4 x 1	BH74252
C-714	3/8 x 1	BH74254
C-716	3/8 x 1-1/2	BH74255
C-718	1/2 x 1	BH74256
C-722	5/8 x 1	BH74257
Q - OLIVE SHAPED		
Q-901	3/16 x 5/16	BH74261
Q-903	1/4 x 1/2	BH74262
Q-905	3/8 x 5/8	BH74263
Q-909	1/2 x 7/8	BH74264
Q-911	5/8 x 1	BH74265
Q-913	3/4 x 1	BH74266
Q-915	1 x 1-3/8	BH74267
H - CONE SHAPE		
H-223	1/4 x 1/2	BH74270
H-226	1/4 x 3/4	BH74271
H-229	1/4 x 1	BH74272
H-232	1/4 x 1-1/4	BH74273
H-235	5/16 x 1	BH74274
H-238	3/8 x 5/8	BH74275
H-241	1/2 x 7/8	BH74276
H-244	5/8 x 1	BH74277
H-245	1 x 1-3/8	BH74278

• 1 per pack

• 1 per pack



NEW

7 Pc. SUPER HSS BURR SET

DESCRIPTION	STOCK #
Contains 1 each: A116 B606 C722 Q915 T529 H244 R507	BH7



General Burr Speed Recommendations

The following chart is a general and approximate recommendation. Variations to achieve desired results may be necessary.

Burr Diameter	RPM
1/8" or 3mm solid carbide	45,000 - 50,000
3/16" solid carbide	35,000 - 40,000
3/16" carbide head brazed to 1/8" or 3mm steel shank	30,000 - 35,000
1/4" or 6mm solid carbide	30,000 - 35,000
1/4" carbide head brazed to 1/8" or 3mm steel shank	25,000 - 30,000
5/16" carbide head brazed to 1/4" or 6mm steel shank	25,000 - 30,000
3/8" carbide head brazed to 1/4" or 6mm steel shank	25,000 - 30,000
7/16" carbide head brazed to 1/4" or 6mm steel shank	20,000 - 25,000
1/2" carbide head brazed to 1/4" or 6mm steel shank	20,000 - 25,000
5/8" carbide head brazed to 1/4" or 6mm steel shank	15,000 - 20,000
3/4" carbide head brazed to 1/4" or 6mm steel shank	15,000 - 20,000
1" carbide head brazed to 1/4" or 6mm steel shank	12,000 - 18,000

HSS END MILLS

WELDON SHANK • 30° RIGHT HAND HELIX • RIGHT HAND CUT

TWO FLUTE, SINGLE END CENTER CUTTING

Used for general purpose milling operations including profiling, slotting, keyways, pockets and plunge cutting.



Inch Dimensions

REGULAR LENGTH

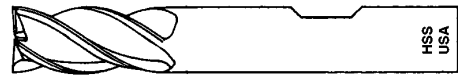
MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				ALFA USA	ECO PRO
1/8	3/8	3/8	2-5/16	SE151301	SE251301
3/16	3/8	7/16	2-5/16	SE151302	SE251302
1/4	3/8	1/2	2-5/16	SE151303	SE251303
5/16	3/8	9/16	2-5/16	SE151304	SE251304
3/8	3/8	9/16	2-5/16	SE151305	SE251305
7/16	3/8	13/16	2-1/2	SE151306	SE251306
1/2	3/8	13/16	2-1/2	SE151307	SE251307
1/2	1/2	1	3	SE151308	SE251308
9/16	1/2	1-1/8	3-1/8	SE151309	SE251309
5/8	1/2	1-1/8	3-1/8	SE151310	SE251310
5/8	5/8	1-5/16	3-7/16	SE151311	SE251311
11/16	1/2	1-5/16	3-5/16	SE151312	SE251312
11/16	5/8	1-5/16	3-7/16	SE151313	SE251313
3/4	1/2	1-5/16	3-5/16	SE151314	SE251314
3/4	5/8	1-5/16	3-7/16	SE151315	SE251315
3/4	3/4	1-5/16	3-9/16	SE151316	SE251316
13/16	3/4	1-1/2	3-3/4	SE151317	SE251317
7/8	5/8	1-1/2	3-5/8	SE151318	SE251318
7/8	3/4	1-1/2	3-3/4	SE151319	SE251319
7/8	7/8	1-1/2	3-3/4	SE151320	SE251320
15/16	3/4	1-1/2	3-3/4	SE151321	SE251321
1	1/2	1-1/2	3-5/8	SE151322	SE251322
1	5/8	1-1/2	3-5/8	SE151323	SE251323
1	3/4	1-1/2	3-3/4	SE151324	SE251324
1	1	1-5/8	4-1/8	SE151325	SE251325
1-1/8	3/4	1-1/2	3-7/8	SE151326	SE251326
1-1/8	1	1-5/8	4-1/8	SE151327	SE251327
1-1/4	3/4	1-1/2	3-7/8	SE151328	SE251328
1-1/4	1	1-5/8	4-1/8	SE151329	SE251329
1-1/4	1-1/4	1-5/8	4-1/8	SE151330	SE251330
1-3/8	3/4	1-1/2	3-7/8	SE151331	SE251331
1-3/8	1	1-5/8	4-1/8	SE151332	SE251332
1-1/2	3/4	1-1/2	3-7/8	SE151334	SE251334
1-1/2	1	1-5/8	4-1/8	SE151335	SE251335
1-1/2	1-1/4	1-5/8	4-1/8	SE151336	SE251336
1-5/8	1-1/4	1-5/8	4-1/8	SE151338	SE251338
1-3/4	3/4	1-1/2	3-7/8	SE151339	SE251339
1-3/4	1-1/4	1-5/8	4-1/8	SE151340	SE251340
1-7/8	1-1/4	1-5/8	4-1/8	SE151341	SE251341
2	3/4	1-1/2	3-7/8	SE151342	SE251342
2	1-1/4	1-5/8	4-1/8	SE151344	SE251344

• 1 per tube

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

MULTI-FLUTE, SINGLE END NON-CENTER CUTTING

Used for general purpose milling including profile milling and producing open ended slots or pockets where a plunge feed-in is not required.



Inch Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OAL	STOCK #	
					ALFA USA	ECO PRO
1/8	3/8	3/8	4	2-5/16	SE150651	SE250651
3/16	3/8	1/2	4	2-3/8	SE150652	SE250652
1/4	3/8	5/8	4	2-7/16	SE150653	SE250653
5/16	3/8	3/4	4	2-1/2	SE150654	SE250654
3/8	3/8	3/4	4	2-1/2	SE150655	SE250655
7/16	3/8	1	4	2-11/16	SE150656	SE250656
1/2	3/8	1	4	2-11/16	SE150657	SE250657
1/2	1/2	1-1/4	4	3-1/4	SE150658	SE250658
9/16	1/2	1-3/8	4	3-3/8	SE150659	SE250659
5/8	1/2	1-3/8	4	3-3/8	SE150660	SE250660
5/8	5/8	1-5/8	4	3-3/4	SE150661	SE250661
11/16	1/2	1-5/8	4	3-5/8	SE150662	SE250662
11/16	5/8	1-5/8	4	3-3/4	SE150663	SE250663
3/4	1/2	1-5/8	4	3-5/8	SE150664	SE250664
3/4	5/8	1-5/8	4	3-3/4	SE150665	SE250665
3/4	3/4	1-5/8	4	3-7/8	SE150666	SE250666
13/16	3/4	1-7/8	4	4-1/8	SE150667	SE250667
7/8	5/8	1-7/8	6	4	SE150668	SE250668
7/8	3/4	1-7/8	4	4-1/8	SE150669	SE250669
7/8	7/8	1-7/8	4	4-1/8	SE150670	SE250670
15/16	3/4	1-7/8	4	4-1/8	SE150671	SE250671
1	1/2	1-7/8	4	4	SE150672	SE250672
1	5/8	1-7/8	6	4	SE150673	SE250673
1	3/4	1-7/8	4	4-1/8	SE150674	SE250674
1	1	2	4	4-1/2	SE150675	SE250675
1-1/8	3/4	1-1/2	6	3-7/8	SE150676	SE250676
1-1/8	1	2	6	4-1/2	SE150677	SE250677
1-1/4	3/4	1-1/2	6	3-7/8	SE150678	SE250678
1-1/4	1	2	6	4-1/2	SE150679	SE250679
1-1/4	1-1/4	2	4	4-1/2	SE150680	SE250680
1-1/4	1-1/4	2	6	4-1/2	SE150681	SE250681
1-3/8	3/4	1-1/2	6	3-7/8	SE150682	SE250682
1-3/8	1	2	6	4-1/2	SE150683	SE250683
1-1/2	3/4	1-1/2	6	3-7/8	SE150684	SE250684
1-1/2	1	2	6	4-1/2	SE150685	SE250685
1-1/2	1-1/4	2	4	4-1/2	SE150686	SE250686
1-1/2	1-1/4	2	6	4-1/2	SE150687	SE250687
1-5/8	1-1/4	2	6	4-1/2	SE150689	SE250689
1-3/4	3/4	1-1/2	6	3-7/8	SE150690	SE250690
1-3/4	1-1/4	2	4	4-1/2	SE150691	SE250691
1-3/4	1-1/4	2	6	4-1/2	SE150692	SE250692
1-7/8	1-1/4	2	6	4-1/2	SE150693	SE250693
2	3/4	1-1/2	8	3-7/8	SE150694	SE250694
2	1-1/4	2	4	4-1/2	SE150695	SE250695
2	1-1/4	2	6	4-1/2	SE150696	SE250696

• 1 per tube



HSS END MILLS

WELDON SHANK • 30° RIGHT HAND HELIX • RIGHT HAND CUT

MULTI-FLUTE, SINGLE END CENTER CUTTING

Used for general purpose milling operations including profiling, slotting, keyways, pockets and plunge cutting.

NEW



Inch Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. OF FLUTES	OVERALL LENGTH	STOCK #
					ALFA USA
1/8	3/8	3/8	4	2-5/16	SECC151031
3/16	3/8	1/2	4	2-3/8	SECC151032
1/4	3/8	5/8	4	2-7/16	SECC151033
5/16	3/8	3/4	4	2-1/2	SECC151034
3/8	3/8	3/4	4	2-1/2	SECC151035
1/2	1/2	1-1/4	4	3-1/4	SECC151036
5/8	5/8	1-5/8	4	3-3/4	SECC151037
3/4	3/4	1-5/8	4	3-7/8	SECC151038
7/8	7/8	1-7/8	4	4-1/8	SECC151039
1	1	2	4	4-1/2	SECC151040
1	1	3	4	5-1/2	SECC151041
1-1/8	1	2	4	4-1/2	SECC151042

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. OF FLUTES	OVERALL LENGTH	STOCK #
					ALFA USA
1-1/4	1-1/4	2	4	4-1/2	SECC151043
1-1/4	1-1/4	2	6	4-1/2	SECC151044
1-1/4	1-1/4	3	4	5-1/2	SECC151045
1-1/4	1-1/4	3	6	5-1/2	SECC151046
1-1/2	1-1/4	2	4	4-1/2	SECC151047
1-1/2	1-1/4	2	6	4-1/2	SECC151048
1-1/2	1-1/4	3	4	5-1/2	SECC151049
1-1/2	1-1/4	3	6	5-1/2	SECC151050
1-3/4	1-1/4	2	6	4-1/2	SECC151051
2	1-1/4	2	6	4-1/2	SECC151052
2	1-1/4	3	6	5-1/2	SECC151053

• 1 per tube

TWO FLUTE, SINGLE END CENTER CUTTING

Used for general purpose milling operations including profiling, slotting, keyways and pockets. They will also plunge cut. These tools provide an alternative length of cut for deep milling and profiling applications.

NEW



Inch Dimensions

LONG LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				ALFA USA	ECO PRO
3/8	3/8	1-1/2	3-1/4	SEL151351	SEL251351
1/2	1/2	2	4	SEL151352	SEL251352
5/8	5/8	2	4-1/8	SEL151353	SEL251353
3/4	3/4	2-1/4	4-1/2	SEL151354	SEL251354
7/8	7/8	2-1/2	4-3/4	SEL151355	SEL251355
1	1	3	5-1/2	SEL151356	SEL251356
1-1/8	1	3	5-1/2	SEL151357	SEL251357
1-1/4	1	3	5-1/2	SEL151358	SEL251358
1-1/4	1-1/4	3	5-1/2	SEL151359	SEL251359
1-3/8	1	3	5-1/2	SEL151360	SEL251360
1-1/2	1-1/4	3	5-1/2	SEL151361	SEL251361
1-5/8	1-1/4	3	5-1/2	SEL151362	SEL251362
1-3/4	1-1/4	3	5-1/2	SEL151363	SEL251363
1-7/8	1-1/4	3	5-1/2	SEL151364	SEL251364
2	1-1/4	3	5-1/2	SEL151365	SEL251365

• 1 per tube

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

MULTI-FLUTE, SINGLE END NON-CENTER CUTTING

Used for general purpose milling including profile milling and producing open ended slots or pockets where a plunge feed-in is not required. These tools provide an alternative length of cut for deep milling and profiling applications.

NEW



Inch Dimensions

LONG LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OAL	STOCK #	
					ALFA USA	ECO PRO
1/4	3/8	1-1/4	4	3-1/16	SEL150701	SEL250701
5/16	3/8	1-3/8	4	3-1/8	SEL150702	SEL250702
3/8	3/8	1-1/2	4	3-1/4	SEL150703	SEL250703
7/16	1/2	1-3/4	4	3-3/4	SEL150704	SEL250704
1/2	1/2	2	4	4	SEL150705	SEL250705
5/8	5/8	2-1/2	4	4-5/8	SEL150706	SEL250706
3/4	3/4	3	4	5-1/4	SEL150707	SEL250707
7/8	7/8	3-1/2	4	5-3/4	SEL150708	SEL250708
1	1	4	4	6-1/2	SEL150709	SEL250709
1-1/8	1	4	6	6-1/2	SEL150710	SEL250710
1-1/4	1	4	6	6-1/2	SEL150711	SEL250711
1-1/4	1-1/4	4	4	6-1/2	SEL150712	SEL250712
1-1/4	1-1/4	4	6	6-1/2	SEL150713	SEL250713
1-3/8	1	4	6	6-1/2	SEL150714	SEL250714
1-1/2	1	4	6	6-1/2	SEL150715	SEL250715
1-1/2	1-1/4	4	6	6-1/2	SEL150716	SEL250716
1-3/4	1-1/4	4	6	6-1/2	SEL150717	SEL250717
2	1-1/4	4	6	6-1/2	SEL150718	SEL250718

• 1 per tube



• ALFA USA ends mills are manufactured in the United States.
• ECO PRO ends mills are made outside the United States to ALFA TOOLS' specifications.



HSS END MILLS – BALL NOSE

WELDON SHANK • 30° RIGHT HAND HELIX • RIGHT HAND CUT

TWO FLUTE, SINGLE END CENTER CUTTING

Used for all general purpose radius and slot milling, die sinking and profile milling. Designed to also plunge cut.



Inch Dimensions

REGULAR LENGTH

NEW

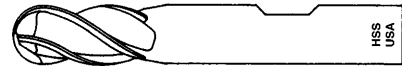
MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				ALFA USA	ECO PRO
1/8	3/8	3/8	2-5/16	SEB151371	SEB251371
3/16	3/8	1/2	2-3/8	SEB151372	SEB251372
1/4	3/8	5/8	2-7/16	SEB151373	SEB251373
5/16	3/8	3/4	2-1/2	SEB151374	SEB251374
3/8	3/8	3/4	2-1/2	SEB151375	SEB251375
7/16	1/2	1	3	SEB151376	SEB251376
1/2	1/2	1	3	SEB151377	SEB251377
9/16	1/2	1	3-1/16	SEB151378	SEB251378
5/8	1/2	1-3/8	3-3/8	SEB151379	SEB251379
5/8	5/8	1-3/8	3-1/2	SEB151380	SEB251380
3/4	1/2	1-5/8	3-5/8	SEB151381	SEB251381
3/4	3/4	1-5/8	3-7/8	SEB151382	SEB251382
7/8	7/8	2	4-1/4	SEB151383	SEB251383
1	1	2-1/4	4-3/4	SEB151384	SEB251384
1-1/8	1	2-1/4	4-3/4	SEB151385	SEB251385
1-1/4	1-1/4	2-1/2	5	SEB151386	SEB251386
1-1/2	1-1/4	2-1/2	5	SEB151387	SEB251387

• 1 per tube

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

MULTI-FLUTE, SINGLE END CENTER CUTTING

Used for all general purpose milling including profiling, slotting, keyways and pockets. Designed to also plunge cut.



Inch Dimensions

REGULAR LENGTH

NEW

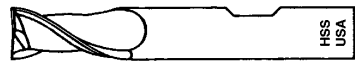
MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OAL	STOCK #	
					ALFA USA	ECO PRO
3/8	3/8	1	4	2-3/4	SEB150731	SEB250731
1/2	1/2	1-1/2	4	3-1/2	SEB150732	SEB250732
5/8	5/8	1-3/4	4	3-7/8	SEB150733	SEB250733
3/4	3/4	1-1/2	4	3-3/4	SEB150734	SEB250734
1	1	2	4	4-1/2	SEB150735	SEB250735
1-1/4	1-1/4	2	6	4-1/2	SEB150736	SEB250736
1-1/2	1-1/4	2	6	4-1/2	SEB150737	SEB250737

• 1 per tube

HSS END MILLS – FOR ALUMINUM

WELDON SHANK • 38° RIGHT HAND HELIX • RIGHT HAND CUT

TWO FLUTE, SINGLE END



NEW

These end mills are designed to machine soft materials such as aluminum, magnesium and zinc alloys. The deep flutes prevent chip packing and the high helix angle provides positive shearing action and rapid chip evacuation.

Inch Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/4	3/8	5/8	2-7/16	SEA51303
5/16	3/8	3/4	2-1/2	SEA51304
3/8	3/8	3/4	2-1/2	SEA51305
7/16	1/2	1	2-11/16	SEA51306
1/2	1/2	1-1/4	3-1/4	SEA51308
5/8	5/8	1-5/8	3-3/4	SEA51311
3/4	3/4	1-5/8	3-7/8	SEA51316
7/8	7/8	1-7/8	4-1/8	SEA51320
1	1	2	4-1/2	SEA51325
1-1/4	1-1/4	2	4-1/2	SEA51330
1-1/2	1-1/4	2	4-1/2	SEA51336
2	1-1/4	2	4-1/2	SEA51344

LONG LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/4	3/8	1-1/4	3-1/16	SEAL51303
5/16	3/8	1-3/8	3-1/8	SEAL51304
3/8	3/8	1-1/2	3-1/4	SEAL51305
7/16	1/2	1-3/4	3-3/4	SEAL51306
1/2	1/2	2	4	SEAL51308
5/8	5/8	2-1/2	4-5/8	SEAL51311
3/4	3/4	3	5-1/4	SEAL51316
7/8	7/8	3-1/2	5-3/4	SEAL51320
1	1	4	6-1/2	SEAL51325
1-1/4	1-1/4	4	6-1/2	SEAL51330
1-1/2	1-1/4	4	6-1/2	SEAL51336
2	1-1/4	4	6-1/2	SEAL51344

EXTRA LONG LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/4	3/8	1-3/4	3-9/16	SEAXL51303
5/16	3/8	2	3-3/4	SEAXL51304
3/8	3/8	2-1/2	4-1/4	SEAXL51305
7/16	1/2	2-3/4	4-3/4	SEAXL51306
1/2	1/2	3	5	SEAXL51308
5/8	5/8	4	6-1/8	SEAXL51311
3/4	3/4	4	6-1/4	SEAXL51316
7/8	7/8	5	7-1/4	SEAXL51320
1	1	6	8-1/2	SEAXL51325
1-1/4	1-1/4	6	8-1/2	SEAXL51330
1-1/2	1-1/4	6	8-1/2	SEAXL51336

• 1 per tube

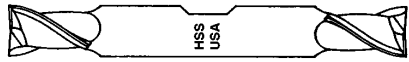


HSS END MILLS – DOUBLE END

WELDON SHANK • 30° RIGHT HAND HELIX • RIGHT HAND CUT

TWO FLUTE, DOUBLE END CENTER CUTTING

Used for general purpose milling operations including profiling, slotting, keyways and pockets. They will also plunge cut.



Inch
Dimensions

REGULAR LENGTH

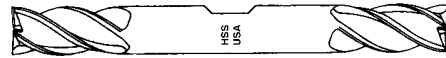
MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				ALFA USA	ECO PRO
1/8	3/8	3/8	3-1/16	DE150731	DE350731
5/32	3/8	7/16	3-1/8	DE150732	DE350732
3/16	3/8	7/16	3-1/8	DE150733	DE350733
7/32	3/8	1/2	3-1/8	DE150734	DE350734
1/4	3/8	1/2	3-1/8	DE150735	DE350735
9/32	3/8	9/16	3-1/8	DE150736	DE350736
5/16	3/8	9/16	3-1/8	DE150737	DE350737
11/32	3/8	9/16	3-1/8	DE150738	DE350738
3/8	3/8	9/16	3-1/8	DE150739	DE350739
13/32	1/2	13/16	3-3/4	DE150740	DE350740
7/16	1/2	13/16	3-3/4	DE150741	DE350741
15/32	1/2	13/16	3-3/4	DE150742	DE350742
1/2	1/2	13/16	3-3/4	DE150743	DE350743
9/16	5/8	1-1/8	4-1/2	DE150744	DE350744
5/8	5/8	1-1/8	4-1/2	DE150745	DE350745
11/16	3/4	1-5/16	5	DE150746	DE350746
3/4	3/4	1-5/16	5	DE150747	DE350747
13/16	7/8	1-9/16	5-1/2	DE150748	DE350748
7/8	7/8	1-9/16	5-1/2	DE150749	DE350749
15/16	1	1-5/8	5-7/8	DE150750	DE350750
1	1	1-5/8	5-7/8	DE150751	DE350751

• 1 per tube

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

MULTI-FLUTE, DOUBLE END NON-CENTER CUTTING

Used for general purpose milling including profile milling and producing open ended slots or pockets where a plunge feed-in is not required.



Inch
Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				ALFA USA	ECO PRO
1/8	3/8	3/8	3-1/16	DE151401	DE351401
5/32	3/8	7/16	3-1/8	DE151402	DE351402
3/16	3/8	1/2	3-1/4	DE151403	DE351403
7/32	3/8	9/16	3-1/4	DE151404	DE351404
1/4	3/8	5/8	3-3/8	DE151405	DE351405
9/32	3/8	11/16	3-3/8	DE151406	DE351406
5/16	3/8	3/4	3-1/2	DE151407	DE351407
11/32	3/8	3/4	3-1/2	DE151408	DE351408
3/8	3/8	3/4	3-1/2	DE151409	DE351409
13/32	1/2	1	4-1/8	DE151410	DE351410
7/16	1/2	1	4-1/8	DE151411	DE351411
15/32	1/2	1	4-1/8	DE151412	DE351412
1/2	1/2	1	4-1/8	DE151413	DE351413
9/16	5/8	1-3/8	5	DE151414	DE351414
5/8	5/8	1-3/8	5	DE151415	DE351415
11/16	3/4	1-5/8	5-5/8	DE151416	DE351416
3/4	3/4	1-5/8	5-5/8	DE151417	DE351417
13/16	7/8	1-7/8	6-1/8	DE151418	DE351418
7/8	7/8	1-7/8	6-1/8	DE151419	DE351419
15/16	1	1-7/8	6-3/8	DE151420	DE351420
1	1	1-7/8	6-3/8	DE151421	DE351421

• 1 per tube

C

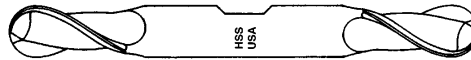
End Mills

HSS END MILLS – BALL NOSE – DOUBLE END

WELDON SHANK • 30° RIGHT HAND HELIX • RIGHT HAND CUT

TWO FLUTE, DOUBLE END CENTER CUTTING

Used for contour or pocket milling where the ball end is required to produce a radius in the work piece. They can be used for general purpose milling including slots, keyways, pockets and plunge cutting.



Inch
Dimensions

REGULAR LENGTH

NEW

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				ALFA USA	ECO PRO
1/8	3/8	3/8	3-1/16	DEB150761	DEB250761
3/16	3/8	7/16	3-1/8	DEB150762	DEB250762
1/4	3/8	1/2	3-1/8	DEB150763	DEB250763
5/16	3/8	9/16	3-1/8	DEB150764	DEB250764
3/8	3/8	9/16	3-1/8	DEB150765	DEB250765
7/16	1/2	13/16	3-3/4	DEB150766	DEB250766
1/2	1/2	13/16	3-3/4	DEB150767	DEB250767
5/8	5/8	1-1/8	4-1/2	DEB150768	DEB250768
3/4	3/4	1-5/16	5	DEB150769	—
7/8	7/8	1-9/16	5-1/2	DEB150770	DEB250770
1	1	1-5/8	5-7/8	DEB150771	DEB250771

• 1 per tube

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



• ALFA USA ends mills are manufactured in the United States.
• ECO PRO ends mills are made outside the United States to ALFA TOOLS' specifications.



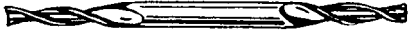
HSS END MILLS – MINIATURE – DOUBLE END

CONTROLLED TOLERANCES • RIGHT HAND CUT

TWO FLUTE,
CENTER CUTTING

FOUR FLUTE,
REGULAR END

Designed for the milling of small diameter slots, pockets and engravings. The short flute resists breakage.



Inch
Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #
1/32	3/16	3/32	2-1/4	DE50753
1/16		7/32	2-1/4	DE50754
5/64		1/4	2-1/4	DE50755
3/32	3/16	5/16	2-1/4	DE50756
7/64		11/32	2-1/4	DE50757
1/8		3/8	2-1/4	DE50758
9/64		13/32	2-1/4	DE50759
5/32	3/16	7/16	2-1/4	DE50760
11/64		15/32	2-1/4	DE50761
3/16		1/2	2-1/4	DE50762

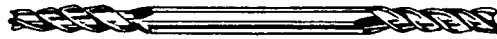
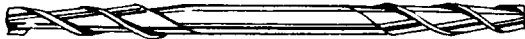
• 1 per pack

Inch
Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #
1/16	3/16	5/16	2-1/4	DE51423
5/64		5/16	2-1/4	DE51424
3/32		5/16	2-1/4	DE51425
7/64	3/16	5/16	2-1/4	DE51426
1/8		3/8	2-1/4	DE51427
9/64		3/8	2-1/4	DE51428
5/32	3/16	7/16	2-1/4	DE51429
11/64		7/16	2-1/4	DE51430
3/16		1/2	2-1/4	DE51431

• 1 per pack



LONG LENGTH

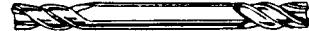
1/16	3/16	7/32	2-1/2	DE50754L
5/64		1/4	2-1/2	DE50755L
3/32		9/32	2-5/8	DE50756L
7/64	3/16	9/32	2-5/8	DE50757L
1/8		3/4	3-1/8	DE50758L
9/64		3/4	3-1/8	DE50759L
5/32	3/16	7/8	3-1/4	DE50760L
11/64		7/8	3-1/4	DE50761L
3/16		1	3-3/8	DE50762L

• 1 per pack

LONG LENGTH

5/64	3/16	1/4	2-5/8	DE51424L
3/32		9/32	2-5/8	DE51425L
7/64		9/32	2-5/8	DE51426L
1/8	3/16	3/4	3-1/8	DE51427L
9/64		3/4	3-1/8	DE51428L
5/32		7/8	3-1/4	DE51429L
11/64	3/16	7/8	3-1/4	DE51430L
3/16		1	3-3/8	DE51431L

• 1 per pack



STUB LENGTH

1/32	3/16	3/64	2	DE50753S
1/16		3/32	2	DE50754S
5/64	3/16	1/8	2	DE50755S
3/32		9/64	2	DE50756S
7/64		5/32	2	DE50757S
1/8	3/16	3/16	2	DE50758S
9/64		7/32	2	DE50759S
5/32		15/64	2	DE50760S
11/64	3/16	1/4	2	DE50761S
3/16		9/32	2	DE50762S

• 1 per pack

STUB LENGTH

1/16	3/16	3/32	2	DE51423S
5/64		1/8	2	DE51424S
3/32		9/64	2	DE51425S
7/64	3/16	5/32	2	DE51426S
1/8		3/16	2	DE51427S
9/64		7/32	2	DE51428S
5/32	3/16	15/64	2	DE51429S
11/64		1/4	2	DE51430S
3/16		9/32	2	DE51431S

• 1 per pack

C

End Mills

COBALT M-42 END MILLS

WELDON SHANK • 30° RIGHT HAND HELIX • RIGHT HAND CUT

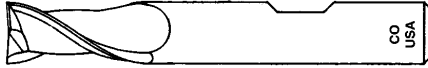
TWO FLUTE, SINGLE END
CENTER CUTTING

MULTI-FLUTE, SINGLE END
CENTER CUTTING

**Expanded
Offering!**

Designed for tougher cutting assignments on hi-strength, hi-temp steels and exotic materials or extended production runs in conventional and N/C milling operations. Used for general purpose milling including profiling, slotting, keyways, pockets and plunge cutting.

**Expanded
Offering!**



Inch
Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				ALFA USA	ECO PRO
1/8	3/8	3/8	2-5/16	CO51301	CO251301
3/16	3/8	7/16	2-5/16	CO51302	CO251302
1/4	3/8	1/2	2-5/16	CO51303	CO251303
5/16	3/8	9/16	2-5/16	CO51304	CO251304
3/8	3/8	9/16	2-5/16	CO51305	CO251305
7/16	3/8	13/16	2-1/2	CO51306	CO251306
1/2	3/8	13/16	2-1/2	CO51307	CO251307
1/2	1/2	1	3	CO51308	CO251308
9/16	1/2	1-1/8	3-1/8	CO51309	CO251309
5/8	1/2	1-1/8	3-1/8	CO51310	CO251310
5/8	5/8	1-5/16	3-7/16	CO51311	CO251311
11/16	1/2	1-5/16	3-5/16	CO51312	CO251312
11/16	5/8	1-5/16	3-7/16	CO51313	CO251313
3/4	1/2	1-5/16	3-5/16	CO51314	CO251314
3/4	5/8	1-5/16	3-7/16	CO51315	CO251315
3/4	3/4	1-5/16	3-9/16	CO51316	CO251316
13/16	5/8	1-1/2	3-5/8	CO51317	CO251317
7/8	5/8	1-1/2	3-5/8	CO51318	CO251318
7/8	3/4	1-1/2	3-3/4	CO51319	CO251319
7/8	7/8	1-1/2	3-3/4	CO51320	CO251320
1	5/8	1-1/2	3-5/8	CO51323	CO251323
1	3/4	1-1/2	3-3/4	CO51324	CO251324
1	1	1-5/8	4-1/8	CO51325	CO251325
1-1/8	3/4	1-5/8	3-7/8	CO51326	CO251326
1-1/8	1	1-5/8	4-1/8	CO51327	CO251327
1-1/4	3/4	1-5/8	3-7/8	CO51328	CO251328
1-1/4	1	1-5/8	4-1/8	CO51329	CO251329
1-1/4	1-1/4	1-5/8	4-1/8	CO51330	CO251330
1-3/8	1	1-5/8	4-1/8	CO51332	CO251332
1-1/2	3/4	1-5/8	3-7/8	CO51334	CO251334
1-1/2	1	1-5/8	4-1/8	-	CO251335
1-1/2	1-1/4	1-5/8	4-1/8	CO51336	CO251336
1-5/8	3/4	1-5/8	3-7/8	-	CO251337
1-5/8	1-1/4	1-5/8	4-1/8	-	CO251338
1-3/4	3/4	1-5/8	3-7/8	-	CO251339
1-3/4	1-1/4	1-5/8	4-1/8	CO51340	CO251340
1-7/8	1-1/4	1-5/8	4-1/8	-	CO251341
2	3/4	1-5/8	3-7/8	CO51342	CO251342
2	1-1/4	1-5/8	4-1/8	CO51343	CO251343

• 1 per tube

Inch
Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OAL	STOCK #	
					ALFA USA	ECO PRO
1/8	3/8	3/8	4	2-5/16	CO50651	CO250651
3/16	3/8	1/2	4	2-3/8	CO50652	CO250652
1/4	3/8	5/8	4	2-7/16	CO50653	CO250653
5/16	3/8	3/4	4	2-1/2	CO50654	CO250654
3/8	3/8	3/4	4	2-1/2	CO50655	CO250655
1/2	3/8	1	4	2-11/16	CO50657	CO250657
1/2	1/2	1-1/4	4	3-1/4	CO50658	CO250658
5/8	1/2	1-3/8	4	3-3/8	CO50660	CO250660
5/8	5/8	1-5/8	4	3-3/4	CO50661	CO250661
3/4	5/8	1-5/8	4	3-3/4	CO50665	CO250665
3/4	3/4	1-5/8	4	3-7/8	CO50666	CO250666
7/8	7/8	1-7/8	4	4-1/8	CO50667	CO250667
1	3/4	1-7/8	4	4-1/8	CO50674	CO250674
1	1	2	4	4-1/2	CO50675	CO250675
1-1/4	1-1/4	2	4	4-1/2	CO50680	CO250680
1-1/4	1-1/4	2	6	4-1/2	CO50681	CO250681
1-1/2	1-1/4	2	4	4-1/2	CO50686	CO250686
1-1/2	1-1/4	2	6	4-1/2	CO50687	CO250687
2	1-1/4	2	6	4-1/2	CO50688	CO250688
LONG LENGTH						
3/8	3/8	1-1/2	4	3-1/4	CO50655L	CO250655L
1/2	1/2	2	4	4	CO50658L	CO250658L
5/8	5/8	2-1/2	4	4-5/8	CO50661L	CO250661L
3/4	3/4	3	4	5-1/4	CO50666L	CO250666L
1	1	4	4	6-1/2	CO50675L	CO250675L
1-1/4	1-1/4	4	4	6-1/2	CO50680L	-
1-1/4	1-1/4	4	6	6-1/2	CO50681L	CO250681L

• 1 per tube

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



• ALFA USA ends mills are manufactured in the United States.
• ECO PRO ends mills are made outside the United States to ALFA TOOLS' specifications.



COBALT M-42 END MILLS – DOUBLE END

WELDON SHANK • 30° RIGHT HAND HELIX • RIGHT HAND CUT

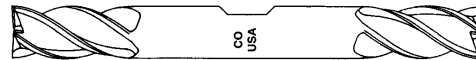
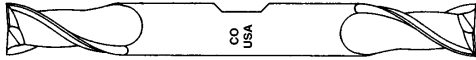
TWO FLUTE, DOUBLE END
CENTER CUTTING

MULTI-FLUTE, DOUBLE END
CENTER CUTTING

Expanded Offering!

Designed for tougher cutting assignments on hi-strength, hi-temp steels and exotic materials or extended production runs in conventional and N/C milling operations. Used for general purpose milling including profiling, slotting, keyways, pockets and plunge cutting.

Expanded Offering!



Inch
Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	STOCK #	
				ALFA USA	ECO PRO
1/8	3/8	3/8	3-1/16	CO50731	CO250731
5/32	3/8	7/16	3-1/8	CO50732	CO250732
3/16	3/8	7/16	3-1/8	CO50733	CO250733
7/32	3/8	1/2	3-1/8	CO50734	CO250734
1/4	3/8	1/2	3-1/8	CO50735	CO250735
9/32	3/8	9/16	3-1/8	CO50736	CO250736
5/16	3/8	9/16	3-1/8	CO50737	CO250737
11/32	3/8	9/16	3-1/8	CO50738	CO250738
3/8	3/8	9/16	3-1/8	CO50739	CO250739
13/32	1/2	13/16	3-3/4	CO50740	CO250740
7/16	1/2	13/16	3-3/4	CO50741	CO250741
15/32	1/2	13/16	3-3/4	CO50742	CO250742
1/2	1/2	13/16	3-3/4	CO50743	CO250743
9/16	5/8	1-1/8	4-1/2	CO50744	CO250744
5/8	5/8	1-1/8	4-1/2	CO50745	CO250745
3/4	3/4	1-5/16	5	CO50747	CO250747
7/8	7/8	1-9/16	5-1/2	CO50749	CO250749
1	1	1-5/8	5-7/8	CO50751	CO250751

• 1 per tube

Inch
Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	NO. FLTS	OAL	STOCK #	
					ALFA USA	ECO PRO
1/8	3/8	3/8	4	3-1/16	CO51401	CO251401
5/32	3/8	7/16	4	3-1/8	CO51402	CO251402
3/16	3/8	1/2	4	3-1/4	CO51403	CO251403
7/32	3/8	9/16	4	3-1/4	CO51404	CO251404
1/4	3/8	5/8	4	3-3/8	CO51405	CO251405
9/32	3/8	11/16	4	3-3/8	CO51406	CO251406
5/16	3/8	3/4	4	3-1/2	CO51407	CO251407
11/32	3/8	3/4	4	3-1/2	CO51408	CO251408
3/8	3/8	3/4	4	3-1/2	CO51409	CO251409
13/32	1/2	1	4	4-1/8	CO51410	CO251410
7/16	1/2	1	4	4-1/8	CO51411	CO251411
15/32	1/2	1	4	4-1/8	CO51412	CO251412
1/2	1/2	1	4	4-1/8	CO51413	CO251413
9/16	5/8	1-3/8	4	5	CO51414	CO251414
5/8	5/8	1-3/8	4	5	CO51415	CO251415
3/4	3/4	1-5/8	4	5-5/8	CO51417	CO251417
7/8	7/8	1-7/8	4	6-1/8	CO51419	CO251419
1	1	1-7/8	4	6-3/8	CO51421	CO251421

• 1 per tube

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

SURFACE TREATMENT AND COATINGS

Description	Characteristics	Application
TiN	Consists of a very hard coating on the surface of the tool which has outstanding wear resistance, reduces friction and prevents galling.	Can be used on most Ferrous, Non-Ferrous and Non-Metallic Materials. While unlikely, it may cause galling in Titanium Alloys.
TiCN	Consists of an extremely hard coating on the surface of the tool which has outstanding wear resistance, reduces friction and prevents galling.	Can be used on most Ferrous, Non-Ferrous and Abrasive Materials. Very effective at higher speeds. While unlikely, it may cause galling in Titanium Alloys.
TiAlN	Consists of an extremely hard coating on the surface of the tool which has outstanding wear resistance, reduces friction and prevents galling. Forms an Aluminum Oxide layer at high speeds and elevated temperatures.	Can be used on Titanium, Titanium Alloys, Nickel-Base Alloys, Stainless Steel and Cast Iron. Very effective at higher speeds and in some tapping applications. Not recommended for Wrought Aluminum, Copper & Brass.



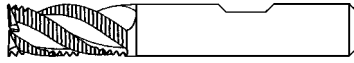
COBALT M-42 ROUGHING END MILLS

30° RIGHT HAND HELIX • RIGHT HAND CUT • SINUSOIDAL TOOTH FORM

These roughing end mills have a sinusoidal chipbreaker form which produces small chips, allowing them to run at faster feed rates than conventional tools, resulting in high material removal rates. Designed to machine difficult and abrasive materials, ranging from medium to the highest hardness levels machinable by High Speed steel. The 8% Cobalt content assures high edge hardness at elevated temperature levels. The large core diameter provides rigidity and reduces deflection. They can be used for general purpose rough milling including profiling and open ended slots.

NEW

MULTI-FLUTE, COARSE PITCH



Inch Dimensions

REGULAR LENGTH

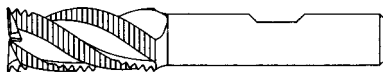
CUTTER DIA.	SHANK DIA.	LENGTH OF CUT	OAL	NO. OF FLUTES	STOCK #
1/4	3/8	5/8	2-7/16	4	REM50801
5/16	3/8	3/4	2-1/2	4	REM50802
3/8	3/8	3/4	2-1/2	4	REM50803
1/2	1/2	1-1/4	3-1/4	4	REM50804
5/8	5/8	1-5/8	3-3/4	4	REM50806
3/4	3/4	1-5/8	3-7/8	4	REM50811
7/8	3/4	1-7/8	4-1/8	5	REM50813
7/8	7/8	1-7/8	4-1/8	5	REM50815
1	3/4	1-1/2	3-1/2	5	REM50816
1	3/4	2	4-1/2	6	REM50817
1	1	2	4-1/2	5	REM50818
1-1/8	1	2	4-1/2	6	REM50819
1-1/4	1-1/4	2	4-1/2	6	REM50822
1-1/2	1-1/4	2	4-1/2	6	REM50823
2	1-1/4	2	4-1/2	8	REM50825
2	2	4	7-3/4	8	REM50828

MEDIUM & LONG LENGTH

1/2	1/2	2	4	4	REM50831
5/8	5/8	2-1/2	4-5/8	4	REM50832
3/4	3/4	3	5-1/4	4	REM50833
7/8	3/4	3-1/2	5-3/4	5	REM50834
7/8	7/8	3-1/2	5-3/4	5	REM50840
1	1	4	6-1/2	5	REM50841
1-1/4	1-1/4	4	6-1/2	6	REM50842
1-1/2	1-1/4	4	6-1/2	6	REM50843
2	1-1/4	4	6-1/2	8	REM50845
2	2	7	10-3/4	8	REM50845A
2	2	8	11-3/4	8	REM50846
2	2	10	13-3/4	8	REM50847
2	2	12	15-3/4	8	REM50848

• 1 per pack

MULTI-FLUTE, FOR BRIDGEPORT, COARSE PITCH

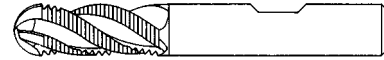


Inch Dimensions

CUTTER DIA.	SHANK DIA.	LENGTH OF CUT	OAL	NO. OF FLUTES	STOCK #
1	3/4	1-7/8	4-1/8	5	REM51134
1	3/4	4	6-1/4	5	REM51135
1-1/4	3/4	2	4-1/4	6	REM51138
1-1/4	3/4	4	6-1/4	6	REM51139
1-1/2	3/4	2-1/4	4-1/2	6	REM51141
1-1/2	3/4	4	6-1/4	6	REM51142

• 1 per pack

MULTI-FLUTE, BALL NOSE, COARSE PITCH

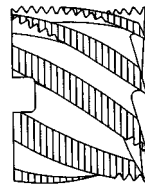


Inch Dim.

REGULAR, MEDIUM & LONG LENGTH

CUTTER DIA.	SHANK DIA.	LENGTH OF CUT	OAL	NO. OF FLUTES	STOCK #
1/2	1/2	1-1/4	3-1/4	4	REM50881
1/2	1/2	2	4	4	REM50882
5/8	5/8	1-5/8	3-3/4	4	REM50883
5/8	5/8	2-1/2	4-5/8	4	REM50884
3/4	3/4	1-5/8	3-7/8	4	REM50885
3/4	3/4	3	5-1/4	4	REM50886
1	1	2	4-1/2	5	REM50888
1	1	4	6-1/2	5	REM50889
1-1/4	1-1/4	2	4-1/2	6	REM50890
1-1/4	1-1/4	4	6-1/2	6	REM50891
1-1/2	1-1/4	2	4-1/2	6	REM50892
1-1/2	1-1/4	4	6-1/2	6	REM50893

• 1 per pack



MULTI-FLUTE, SHELL TYPE, 20° RIGHT HAND HELIX, RIGHT HAND CUT

Inch Dimensions

CUTTER DIA.	LENGTH OF CUT	HOLE OF CUT	NO. OF FLUTES	STOCK#
2	2	3/4	8	REM50853
2-1/4	2	1	8	REM50857
2-1/2	2	1	8	REM50861
2-3/4	2	1	8	REM50865
3	2	1-1/4	10	REM50869
3-1/2	2	1-1/4	10	REM50871
4	2-1/4	1-1/2	12	REM50872
4-1/2	2-1/4	1-1/2	14	REM50873
5	2-1/4	1-1/2	14	REM50874
5-1/2	2-1/4	2	16	REM50875
6	2-1/4	2	16	REM50876

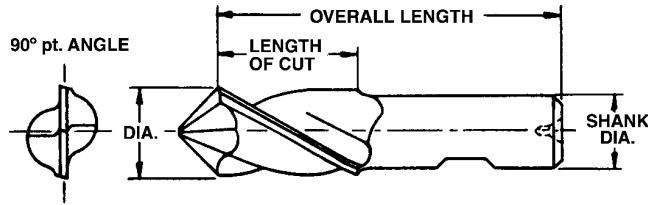
• 1 per pack

C

Roughing End Mills

DRILL POINT END MILLS

RIGHT HAND HELIX • RIGHT HAND CUT



Drill Point End Mills are a new concept in Drilling & Milling Technology. One tool does multiple operations, not presently done by standard square end - end mills. Among the many milling machine operations done are: **drilling, spotting, counter-sinking, chamfering and side milling.** Drill Point End Mills are available in M-42 Cobalt HSS with **60°** and **90°** point angles and Micro-grain Carbide with **90°** point angle.

C

End Mills

COBALT END MILLS WITH 90° POINT, TWO FLUTE CENTER CUTTING

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/4"	3/8"	5/8"	2-7/16"	CO15434
5/16"	3/8"	23/32"	2-15/32"	CO15436
3/8"	3/8"	3/4"	2-1/2"	CO15438
7/16"	3/8"	1-1/32"	2-23/32"	CO15440
1/2"	1/2"	1-1/4"	3-1/4"	CO15442
9/16"	1/2"	1-13/32"	3-13/32"	CO15444
5/8"	5/8"	1-5/8"	3-3/4"	CO15446
11/16"	5/8"	1-21/32"	3-25/32"	CO15448
3/4"	3/4"	1-11/16"	3-15/16"	CO15450
13/16"	3/4"	1-29/32"	4-5/32"	CO15452
7/8"	3/4"	1-15/16"	4-3/16"	CO15454
15/16"	3/4"	1-31/32"	4-7/32"	CO15456
1"	3/4"	2"	4-1/4"	CO15458

• 1 per tube

SOLID CARBIDE END MILLS WITH 90° POINT, TWO FLUTE CENTER CUTTING

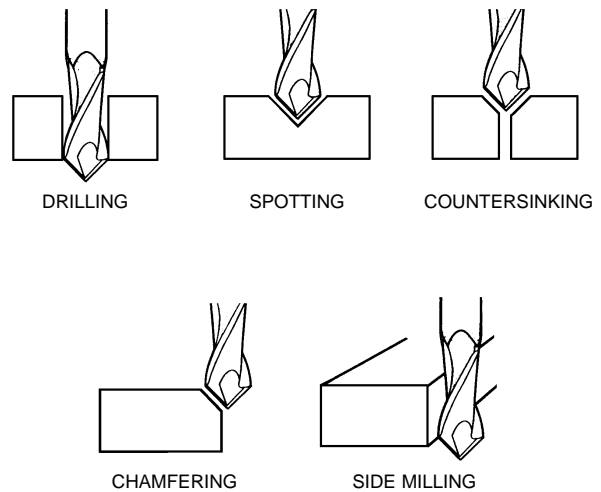
MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/8"	1/8"	1/2"	1-1/2"	TC16083
3/16"	3/16"	5/8"	2"	TC16084
1/4"	1/4"	3/4"	2-1/2"	TC16085
5/16"	5/16"	13/16"	2-1/2"	TC16086
3/8"	3/8"	1"	2-1/2"	TC16087
7/16"	7/16"	1"	2-3/4"	TC16088
1/2"	1/2"	1"	3"	TC16089
5/8"	5/8"	1-1/4"	3-1/2"	TC16090
3/4"	3/4"	1-1/2"	4"	TC16091

• 1 per tube

COBALT END MILLS WITH 60° POINT, TWO FLUTE CENTER CUTTING

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/4"	3/8"	5/8"	2-7/16"	CO16037
5/16"	3/8"	23/32"	2-15/32"	CO16038
3/8"	3/8"	3/4"	2-1/2"	CO16039
1/2"	1/2"	1-1/4"	3-1/4"	CO16041
5/8"	5/8"	1-5/8"	3-3/4"	CO16042
3/4"	3/4"	1-11/16"	3-15/16"	CO16044
7/8"	3/4"	1-15/16"	4-3/16"	CO16045
1"	3/4"	2"	4-1/4"	CO16047

• 1 per tube

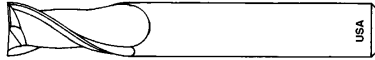


SOLID CARBIDE END MILLS

30° RIGHT HAND HELIX • RIGHT HAND CUT

The new line of Micro-grain solid carbide end mills provide outstanding performance and allow optimum cutting speeds and feeds, high rigidity and minimum tool deflection. Designed for aggressive milling of most materials.

TWO FLUTE, SINGLE END CENTER CUTTING



NEW

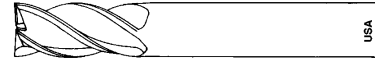
Inch Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/16	1/8	1/4	1-1/2	SC61301
5/64	1/8	1/4	1-1/2	SC61302
3/32	1/8	3/8	1-1/2	SC61303
7/64	1/8	3/8	1-1/2	SC61304
1/8	1/8	1/2	1-1/2	SC61305
9/64	3/16	9/16	2	SC61306
5/32	3/16	9/16	2	SC61307
11/64	3/16	9/16	2	SC61308
3/16	3/16	5/8	2	SC61309
13/64	1/4	5/8	2-1/2	SC61310
7/32	1/4	5/8	2-1/2	SC61311
15/64	1/4	3/4	2-1/2	SC61312
1/4	1/4	3/4	2-1/2	SC61313
17/64	5/16	7/8	2-1/2	SC61314
9/32	5/16	7/8	2-1/2	SC61315
19/64	5/16	7/8	2-1/2	SC61316
5/16	5/16	7/8	2-1/2	SC61317
21/64	3/8	1	2-1/2	SC61318
11/32	3/8	1	2-1/2	SC61319
23/64	3/8	1	2-1/2	SC61320
3/8	3/8	1	2-1/2	SC61321
25/64	7/16	1	2-3/4	SC61322
13/32	7/16	1	2-3/4	SC61323
27/64	7/16	1	2-3/4	SC61324
7/16	7/16	1	2-3/4	SC61325
29/64	1/2	1	3	SC61326
15/32	1/2	1	3	SC61327
31/64	1/2	1	3	SC61328
1/2	1/2	1	3	SC61329
9/16	9/16	1-1/4	3-1/2	SC61330
5/8	5/8	1-1/4	3-1/2	SC61331
11/16	3/4	1-1/2	4	SC61332
3/4	3/4	1-1/2	4	SC61333
7/8	7/8	1-1/2	4	SC61334
1	1	1-1/2	4	SC61335
STUB LENGTH				
1/8	1/8	1/4	1-1/2	SCS61343
5/32	3/16	5/16	1-1/2	SCS61344
3/16	3/16	3/8	1-1/2	SCS61345
7/32	1/4	7/16	2	SCS61346
1/4	1/4	1/2	2	SCS61347
5/16	5/16	1/2	2	SCS61348
3/8	3/8	5/8	2	SCS61349
7/16	7/16	5/8	2-3/4	SCS61350
1/2	1/2	5/8	2-1/2	SCS61351
5/8	5/8	3/4	3	SCS61352
3/4	3/4	1	3	SCS61353

• 1 per tube

FOUR FLUTE, SINGLE END CENTER CUTTING



NEW

Inch Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/16	1/8	1/4	1-1/2	SC60601
5/64	1/8	1/4	1-1/2	SC60602
3/32	1/8	3/8	1-1/2	SC60603
7/64	1/8	3/8	1-1/2	SC60604
1/8	1/8	1/2	1-1/2	SC60605
9/64	3/16	9/16	2	SC60606
5/32	3/16	9/16	2	SC60607
11/64	3/16	9/16	2	SC60608
3/16	3/16	5/8	2	SC60609
13/64	1/4	5/8	2-1/2	SC60610
7/32	1/4	5/8	2-1/2	SC60611
15/64	1/4	3/4	2-1/2	SC60612
1/4	1/4	3/4	2-1/2	SC60613
17/64	5/16	7/8	2-1/2	SC60614
9/32	5/16	7/8	2-1/2	SC60615
19/64	5/16	7/8	2-1/2	SC60616
5/16	5/16	7/8	2-1/2	SC60617
21/64	3/8	1	2-1/2	SC60618
11/32	3/8	1	2-1/2	SC60619
23/64	3/8	1	2-1/2	SC60620
3/8	3/8	1	2-1/2	SC60621
25/64	7/16	1	2-3/4	SC60622
13/32	7/16	1	2-3/4	SC60623
27/64	7/16	1	2-3/4	SC60624
7/16	7/16	1	2-3/4	SC60625
29/64	1/2	1	3	SC60626
15/32	1/2	1	3	SC60627
31/64	1/2	1	3	SC60628
1/2	1/2	1	3	SC60629
9/16	9/16	1-1/4	3-1/2	SC60630
5/8	5/8	1-1/4	3-1/2	SC60631
11/16	3/4	1-1/2	4	SC60632
3/4	3/4	1-1/2	4	SC60633
7/8	7/8	1-1/2	4	SC60634
1	1	1-1/2	4	SC60635
STUB LENGTH				
1/16	1/8	1/8	1-1/2	SCS60641
3/32	1/8	3/16	1-1/2	SCS60642
1/8	1/8	1/4	1-1/2	SCS60643
5/32	3/16	5/16	1-1/2	SCS60644
3/16	3/16	3/8	1-1/2	SCS60645
7/32	1/4	7/16	2	SCS60646
1/4	1/4	1/2	2	SCS60647
5/16	5/16	1/2	2	SCS60648
3/8	3/8	5/8	2	SCS60649
7/16	7/16	5/8	2-3/4	SCS60650
1/2	1/2	5/8	2-1/2	SCS60651
5/8	5/8	3/4	3	SCS60652
3/4	3/4	1	3	SCS60653

• 1 per tube

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



C

End Mills

Micro-Grain

SOLID CARBIDE END MILLS – LONG

30° RIGHT HAND HELIX • RIGHT HAND CUT

TWO FLUTE, SINGLE END
CENTER CUTTING



Inch Dimensions

LONG LENGTH

NEW

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/8	1/8	3/4	2	SCL61351
3/16	3/16	1	4	SCL61352
3/16	3/16	1-1/8	3	SCL61353
1/4	1/4	1	4	SCL61354
1/4	1/4	1-1/2	4	SCL61355
5/16	5/16	1	4	SCL61356
5/16	5/16	1-5/8	4	SCL61357
3/8	3/8	1-1/8	3	SCL61358
3/8	3/8	2	4	SCL61359
7/16	7/16	1	4	SCL61360
7/16	7/16	2	4	SCL61361
1/2	1/2	1	4	SCL61362
1/2	1/2	2	4	SCL61363
1/2	1/2	3	6	SCL61364
5/8	5/8	2-1/4	5	SCL61365
5/8	5/8	3	6	SCL61366
3/4	3/4	2-1/4	5	SCL61367
3/4	3/4	3	6	SCL61368
1	1	2	6	SCL61369
1	1	3	6	SCL61370

• 1 per pack

FOUR FLUTE, SINGLE END
CENTER CUTTING



Inch Dimensions

LONG LENGTH

NEW

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/8	1/8	3/4	2	SCL60651
3/16	3/16	1	4	SCL60652
3/16	3/16	1-1/8	3	SCL60653
1/4	1/4	1	4	SCL60654
1/4	1/4	1-1/2	4	SCL60655
5/16	5/16	1	4	SCL60656
5/16	5/16	1-5/8	4	SCL60657
3/8	3/8	1-1/8	3	SCL60658
3/8	3/8	2	4	SCL60659
7/16	7/16	1	4	SCL60660
7/16	7/16	2	4	SCL60661
1/2	1/2	1	4	SCL60662
1/2	1/2	2	4	SCL60663
1/2	1/2	3	6	SCL60664
5/8	5/8	2-1/4	5	SCL60665
5/8	5/8	3	6	SCL60666
3/4	3/4	2-1/4	5	SCL60667
3/4	3/4	3	6	SCL60668
1	1	2	6	SCL60669
1	1	3	6	SCL60670

• 1 per pack

End Mills

Micro-Grain

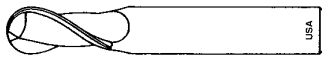
SOLID CARBIDE END MILLS – BALL NOSE

30° RIGHT HAND HELIX • RIGHT HAND CUT

TWO FLUTE, SINGLE END
CENTER CUTTING

FOUR FLUTE, SINGLE END
CENTER CUTTING

Ball nose geometry for inside corner radius and CNC contouring.



Inch Dimensions

REGULAR LENGTH

NEW

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/8	1/8	1/2	1-1/2	SCB61371
5/32	3/16	9/16	2	SCB61372
3/16	3/16	5/8	2	SCB61373
7/32	1/4	5/8	2-1/2	SCB61374
1/4	1/4	3/4	2-1/2	SCB61375
9/32	5/16	7/8	2-1/2	SCB61376
5/16	5/16	7/8	2-1/2	SCB61377
3/8	3/8	1	2-1/2	SCB61378
7/16	7/16	1	2-3/4	SCB61379
1/2	1/2	1	3	SCB61380
9/16	9/16	1-1/4	3-1/2	SCB61381
5/8	5/8	1-1/4	3-1/2	SCB61382
3/4	3/4	1-1/2	4	SCB61383
7/8	7/8	1-1/2	4	SCB61384
1	1	1-1/2	4	SCB61385

• 1 per pack



Inch Dimensions

REGULAR LENGTH

NEW

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/8	1/8	1/2	1-1/2	SCB60671
3/16	3/16	5/8	2	SCB60672
1/4	1/4	3/4	2-1/2	SCB60673
5/16	5/16	7/8	2-1/2	SCB60674
3/8	3/8	1	2-1/2	SCB60675
7/16	7/16	1	2-3/4	SCB60676
1/2	1/2	1	3	SCB60677
5/8	5/8	1-1/4	3-1/2	SCB60678
3/4	3/4	1-1/2	4	SCB60679
1	1	1-1/2	4	SCB60680

• 1 per pack

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



Micro-Grain

SOLID CARBIDE END MILLS – METRIC

30° RIGHT HAND HELIX • RIGHT HAND CUT

TWO FLUTE, SINGLE END
METRIC WITH METRIC SHANKS

TOLERANCE +.000/- .002



Metric Dimensions

REGULAR LENGTH

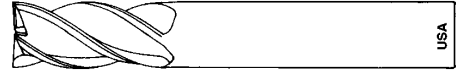
NEW

MILL DIA. MM	SHANK DIA. MM	FLUTE LENGTH MM	OAL MM	ALFA USA STOCK #
2.00	3.00	6	38	SCM91302
2.50	3.00	8	38	SCM91304
3.00	3.00	10	38	SCM91306
3.50	4.00	12	50	SCM91308
4.00	4.00	12	50	SCM91310
4.50	5.00	14	50	SCM91312
5.00	5.00	15	50	SCM91314
6.00	6.00	18	63	SCM91316
7.00	8.00	20	63	SCM91318
8.00	8.00	20	63	SCM91320
9.00	10.00	22	70	SCM91322
10.00	10.00	22	70	SCM91324
12.00	12.00	25	75	SCM91326

• 1 per tube

FOUR FLUTE, SINGLE END
METRIC WITH METRIC SHANKS

TOLERANCE +.000/- .002



Metric Dimensions

REGULAR LENGTH

NEW

MILL DIA. MM	SHANK DIA. MM	FLUTE LENGTH MM	OAL MM	ALFA USA STOCK #
2.00	3.00	6	38	SCM91602
2.50	3.00	8	38	SCM91604
3.00	3.00	10	38	SCM91606
3.50	4.00	12	50	SCM91608
4.00	4.00	12	50	SCM91610
4.50	5.00	14	50	SCM91612
5.00	5.00	15	50	SCM91614
6.00	6.00	18	63	SCM91616
7.00	8.00	20	63	SCM91618
8.00	8.00	20	63	SCM91620
9.00	10.00	22	70	SCM91622
10.00	10.00	22	70	SCM91624
12.00	12.00	25	75	SCM91626

• 1 per tube

C
End Mills

Micro-Grain

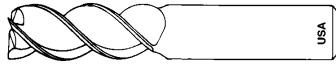
SOLID CARBIDE END MILLS – HIGH HELIX

RIGHT HAND SPIRAL • RIGHT HAND CUT

THREE FLUTE, SINGLE END
45° HIGH HELIX, CENTER CUTTING

THREE FLUTE, SINGLE END
60° HIGH HELIX, CENTER CUTTING

Increased cutting edge engagement reduces vibration and improves surface finish.
Engineered for plunging, slotting and peripheral milling applications.



Inch Dimensions

REGULAR LENGTH

NEW

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/4	1/4	3/4	2-1/2	SCH91328
5/16	5/16	7/8	2-1/2	SCH91330
3/8	3/8	1	2-1/2	SCH91332
7/16	7/16	1	2-3/4	SCH91334
1/2	1/2	1-1/4	3	SCH91336
9/16	9/16	1-1/4	3-1/2	SCH91338
5/8	5/8	1-1/4	3-1/2	SCH91340
3/4	3/4	1-1/2	4	SCH91342

• 1 per tube



Inch Dimensions

REGULAR LENGTH

NEW

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/4	1/4	3/4	2-1/2	SCH91628
5/16	5/16	13/16	2-1/2	SCH91630
3/8	3/8	7/8	2-1/2	SCH91632
1/2	1/2	1	3	SCH91636
5/8	5/8	1-1/4	3-1/2	SCH91640
3/4	3/4	1-1/2	4	SCH91642

• 1 per tube

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

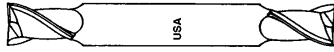


Micro-Grain

SOLID CARBIDE END MILLS – DOUBLE END

30° RIGHT HAND HELIX • RIGHT HAND CUT

TWO FLUTE, DOUBLE END
CENTER CUTTING



Inch
Dimensions

REGULAR LENGTH

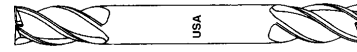
MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/8	1/8	3/8	2	DEC66805
5/32	3/16	7/16	2-1/2	DEC66807
3/16	3/16	1/2	2-1/2	DEC66809
7/32	1/4	9/16	2-1/2	DEC66811
1/4	1/4	5/8	3	DEC66813
5/16	5/16	3/4	3-1/2	DEC66815
3/8	3/8	3/4	3-1/2	DEC66817
7/16	7/16	7/8	4	DEC66819
1/2	1/2	1	4	DEC66821

STUB LENGTH

1/8	1/8	1/4	1-1/2	DEC66839
5/32	3/16	5/16	2	DEC66841
3/16	3/16	3/8	2	DEC66843
7/32	1/4	1/2	2-1/2	DEC66845
1/4	1/4	1/2	2-1/2	DEC66847
5/16	5/16	1/2	2-1/2	DEC66849
3/8	3/8	1/2	2-1/2	DEC66851
7/16	7/16	9/16	2-3/4	DEC66853
1/2	1/2	5/8	3	DEC66855

• 1 per tube

FOUR FLUTE, DOUBLE END
CENTER CUTTING



Inch
Dimensions

REGULAR LENGTH

MILL DIA.	SHANK DIA.	FLUTE LENGTH	OAL	ALFA USA STOCK #
1/8	1/8	3/8	2	DEC66865
5/32	3/16	7/16	2-1/2	DEC66867
3/16	3/16	1/2	2-1/2	DEC66869
7/32	1/4	9/16	2-1/2	DEC66871
1/4	1/4	5/8	3	DEC66873
5/16	5/16	3/4	3-1/2	DEC66875
3/8	3/8	3/4	3-1/2	DEC66877
7/16	7/16	7/8	4	DEC66879
1/2	1/2	1	4	DEC66881

STUB LENGTH

1/8	1/8	1/4	1-1/2	DEC66891
5/32	3/16	5/16	2	DEC66892
3/16	3/16	3/8	2	DEC66893
7/32	1/4	1/2	2-1/2	DEC66894
1/4	1/4	1/2	2-1/2	DEC66895
5/16	5/16	1/2	2-1/2	DEC66896
3/8	3/8	1/2	2-1/2	DEC66897
7/16	7/16	9/16	2-3/4	DEC66898
1/2	1/2	5/8	3	DEC66899

• 1 per tube



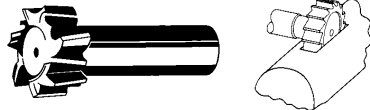
End Mills / HSS Cutters

C

HSS CUTTERS

STRAIGHT TEETH WITH 1/2" DIA. SHANK

WOODRUFF
KEYSEAT CUTTERS



Inch
Dimensions

For cutting the smaller woodruff keysets.

OLD STANDARD	AMERICAN STANDARD	NOMINAL DIA.	FACE WIDTH	OAL	STOCK#
1	204	1/2	1/16	2-1/16	WKC51761
2	304	1/2	3/32	2-3/32	WKC51762
3	305	5/8	3/32	2-3/32	WKC51763
4	404	1/2	1/8	2-1/8	WKC51764
5	405	5/8	1/8	2-1/8	WKC51765
7	406	3/4	1/8	2-1/8	WKC51766
6	505	5/8	5/32	2-5/32	WKC51767
61	605	5/8	3/16	2-3/16	WKC51768
8	506	3/4	5/32	2-5/32	WKC51769
91	806	3/4	1/4	2-1/4	WKC51770
10	507	7/8	5/32	2-5/32	WKC51771
9	606	3/4	3/16	2-3/16	WKC51772
11	607	7/8	3/16	2-3/16	WKC51773
12	707	7/8	7/32	2-7/32	WKC51774
13	608	1	3/16	2-3/16	WKC51775
14	708	1	7/32	2-7/32	WKC51776
152	1208	1	3/8	2-3/8	WKC51777
16	609	1-1/8	3/16	2-3/16	WKC51778

OLD STANDARD	AMERICAN STANDARD	NOMINAL DIA.	FACE WIDTH	OAL	STOCK#
A	807	7/8	1/4	2-1/4	WKC51779
15	808	1	1/4	2-1/4	WKC51780
17	709	1-1/8	7/32	2-7/32	WKC51781
18	809	1-1/8	1/4	2-1/4	WKC51782
19	610	1-1/4	3/16	2-3/16	WKC51783
20	710	1-1/4	7/32	2-7/32	WKC51784
21	810	1-1/4	1/4	2-1/4	WKC51785
22	811	1-3/8	1/4	2-1/4	WKC51786
24	812	1-1/2	1/4	2-1/4	WKC51787
B	1008	1	5/16	2-5/16	WKC51788
C	1009	1-1/8	5/16	2-5/16	WKC51789
D	1010	1-1/4	5/16	2-5/16	WKC51790
23	1011	1-3/8	5/16	2-5/16	WKC51791
25	1012	1-1/2	5/16	2-5/16	WKC51792
E	1210	1-1/4	3/8	2-3/8	WKC51793
F	1211	1-3/8	3/8	2-3/8	WKC51794
G	1212	1-1/2	3/8	2-3/8	WKC51795

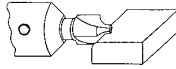
• 1 per pack



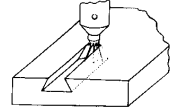
HSS CUTTERS – Cont.

WELDON SHANK • RIGHT HAND CUT

CORNER
ROUNDING
CUTTERS



DOVETAIL
CUTTERS



For milling convex quarter circles on the edge of all types of materials.

RADIUS	SHANK DIA.	HEAD DIA.	OAL	STOCK #
1/16"	3/8"	7/16"	2-1/2"	CREM51702
3/32"	3/8"	1/2"	2-1/2"	CREM51703
1/8"	1/2"	5/8"	3"	CREM51704
5/32"	1/2"	3/4"	3"	CREM51705
3/16"	1/2"	7/8"	3"	CREM51706
1/4"	1/2"	1"	3"	CREM51708
5/16"	1/2"	1-1/8"	3-1/4"	CREM51711
3/8"	1/2"	1-1/4"	3-1/2"	CREM51714
7/16"	3/4"	1-3/8"	3-3/4"	CREM51716
1/2"	3/4"	1-1/2"	3-7/8"	CREM51717

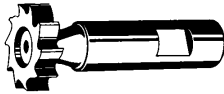
• 1 per pack

Dovetail milling in all types of materials.

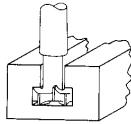
ANGLE	CUTTER		SHANK DIA.	OAL	STOCK #
	DIA.	WIDTH			
60°	1/2"	1/4"	3/8"	2-1/8"	DTC51731
45°	1/2"	5/32"	3/8"	2-1/8"	DTC51732
60°	3/4"	5/16"	3/8"	2-1/8"	DTC51733
45°	3/4"	1/4"	3/8"	2-1/8"	DTC51734
60°	1-3/8"	9/16"	5/8"	2-7/8"	DTC51735
45°	1-3/8"	7/16"	5/8"	2-7/8"	DTC51736
60°	1-7/8"	13/16"	7/8"	3-1/4"	DTC51737
45°	1-7/8"	5/8"	7/8"	3-1/4"	DTC51738
60°	2-1/4"	1-1/16"	1"	3-3/4"	DTC51739
45°	2-1/4"	5/8"	1"	3-3/4"	DTC51740

• 1 per pack

T-SLOT CUTTERS



For milling the
bottom of
T-slots

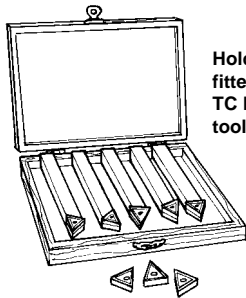


BOLT SIZE	CUTTER		SHANK DIA.	NECK DIA.	OAL	NO. OF FLUTES	STOCK #
	DIA.	THICKNESS					
1/4"	9/16"	15/64"	1/2"	17/64"	2-19/32"	8	TSC51751
5/16"	21/32"	17/64"	1/2"	21/64"	2-11/16"	8	TSC51752
3/8"	25/32"	21/64"	3/4"	13/32"	3-1/4"	8	TSC51753
1/2"	31/32"	25/64"	3/4"	17/32"	3-7/16"	8	TSC51754
5/8"	1-1/4"	31/64"	1"	21/32"	3-15/16"	10	TSC51755
3/4"	1-15/32"	5/8"	1"	25/32"	4-7/16"	10	TSC51756
1"	1-27/32"	53/64"	1-1/4"	1-1/32"	4-13/16"	10	TSC51757
1-1/4"	2-7/32"	1-3/32"	1-1/4"	1-9/32"	5-3/8"	12	TSC51758
1-1/2"	2-21/32"	1-11/32"	1-1/4"	1-17/32"	5-29/32"	12	TSC51759

• 1 per pack

INDEXABLE CARBIDE TURNING TOOLS

5 PC. COMPLETE TOOLING KIT



Holders come fitted with C5 TC Inserts in a tooling case.

Features

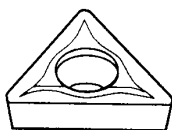
- Versatility of cutting in any direction.
- No grinding.
- Built-in chipbreaker groove.
- No tool resetting.
- Positive cutting rake action.
- Includes 5 tools: (TAR, TAL, TBR, TBL and TE), extra screws, extra wrenches, packed in a wooden case.
- Uses TCMT inserts.

Individual sets available in 5 different holder styles.

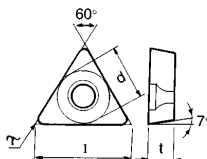
HOLDER SIZE	HOLDER STYLES 1 EACH	STOCK #
3/8"	AR, AL, BR, BL, E	ITK038
1/2"	AR, AL, BR, BL, E	ITK012
5/8"	AR, AL, BR, BL, E	ITK058
3/4"	AR, AL, BR, BL, E	ITK034
1"	AR, AL, BR, L, E	ITK001

TCMT **NEW**

60° Triangle, Positive Rake, Utility Unground



With C25 Medium Cut Chipbreaker



With C05 Finishing Chipbreaker



CARBIDE INDEXABLE INSERTS

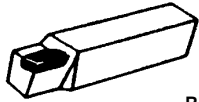
STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	L	D	T	R			
TCMT 21.51	.433 (11.0)	1/4 (6.35)	3/32 (2.38)	1/64 (0.4)	C6 C5	TiN -	TCM215K TCM2155
TCMT 32.51	.650 (16.5)	3/8 (9.52)	5/32 (3.97)	1/64 (0.4)	C6	TiN	TCM321K
TCMT 32.52	.650 (16.5)	3/8 (9.52)	5/32 (3.97)	1/32 (0.8)	C5 C5 C2	TiN - -	TCM325L TCM3255 TCM3252

TCMT 32.52	.650 (16.5)	3/8 (9.52)	5/32 (3.97)	1/32 (0.8)	C6 C5 C2	TiN - -	TCT325K TCT3255 TCT3252
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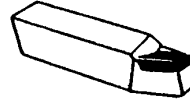
• 10 per pack

CARBIDE TIPPED TOOL BITS

GRADE C2 FOR CAST IRON & NON FERROUS METALS • GRADE C5 FOR STEEL



STYLE "AR & AL"
Straight Turning Tool



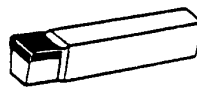
STYLE "BR & BL"
Lead angle Turning Tool

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

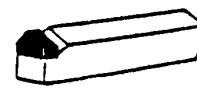
• 1/4" to 3/8", 10 per pack
7/16" to 3/4", 5 per pack



STYLE "D"
80° POINTED NOSE TOOL



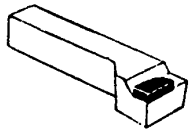
STYLE "C"
SQUARE NOSE TOOL



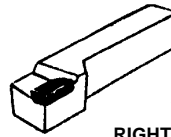
STYLE "E"
60° THREADING TOOL

SIZE SQ x LENGTH	ANSI #	STOCK #		ANSI #	STOCK #		ANSI #	STOCK #	
		C2	C5		C2	C5		C2	C5
1/4" x 2"	D4	TBD4C2	TBD4C5	C4	TBC4C2	TBC4C5	E4	TBE4C2	TBE4C5
5/16" x 2-1/4"	D5	TBD5C2	TBD5C5	C5	TBC5C2	TBC5C5	E5	TBE5C2	TBE5C5
3/8" x 2-1/2"	D6	TBD6C2	TBD6C5	C6	TBC6C2	TBC6C5	E6	TBE6C2	TBE6C5
7/16" x 3"	D7	TBD7C2	TBD7C5	C7	TBC7C2	TBC7C5	E7	TBE7C2	TBE7C5
1/2" x 3-1/2"	D8	TBD8C2	TBD8C5	C8	TBC8C2	TBC8C5	E8	TBE8C2	TBE8C5
5/8" x 4"	D10	TBD10C2	TBD10C5	C10	TBC10C2	TBC10C5	E10	TBE10C2	TBE10C5
3/4" x 4-1/2"	D12	TBD12C2	TBD12C5	C12	TBC12C2	TBC12C5	E12	TBE12C2	TBE12C5

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



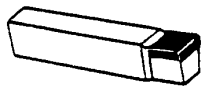
STYLE "FR & FL"
END CUTTING OFFSET TOOL



STYLE "GR & GL"
SIDE CUTTING OFFSET TOOL

SIZE SQ x LENGTH	ANSI #	RIGHT HAND		LEFT HAND		ANSI #	RIGHT HAND		LEFT HAND			
		STOCK #		STOCK #			STOCK #		STOCK #			
		C2	C5	C2	C5		C2	C5	C2	C5		
1/2" x 3-1/2"	FR8	TBFR8C2	TBFR8C5	FL8	TBFL8C2	TBFL8C5	GR8	TBGR8C2	TBGR8C5	GL8	TBGL8C2	TBGL8C5
5/8" x 4"	FR10	TBFR10C2	TBFR10C5	FL10	TBFL10C2	TBFL10C5	GR10	TBGR10C2	TBGR10C5	GL10	TBGL10C2	TBGL10C5
3/4" x 4-1/2"	-	-	-	-	-	-	GR12	TBGR12C2	TBGR12C5	GL12	-	TBGL12C5

• 1/2" to 3/4", 4/5 per pack



STYLE "CTR & CTL"
CUT-OFF TOOL

NEW

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

• 5 per pack

**CARBIDE GRADE REFERENCE CHART
FOR SINGLE POINT TOOLS**

ALFA	C2	C5
ADAMAS	A, AM	434
CARBOLOY	833,860	370
CARMET	CA-4, CA-443	CA-740
FIRTH STERLING	HA, H-23	T-04, NTA
KENNAMETAL	K-68, K-6	K-21, KM
NEWCOMER	N-20, N-22	N-50, NS-65
SUPER TOOL	MS-2	MS-5
TALIDE	C-91	S-88
UNIMET	U-20	U-53
VALENITE	VC-2, VC-28	VC-55, VC-125
V.R. WESSON	2A5, G	WS
WALMET	WA-2, WA-63, WA-69	WA-5, WA-66
WENDT-SONIS	CQ-2	CY-12, CY-16
WILLEY'S	E-6	10-A, 8-A

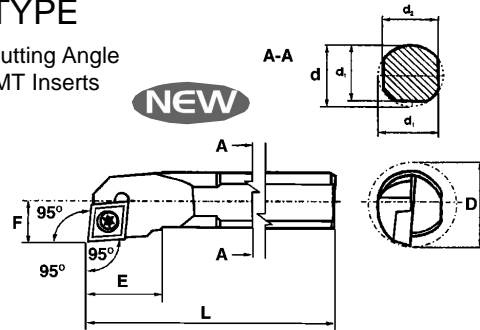
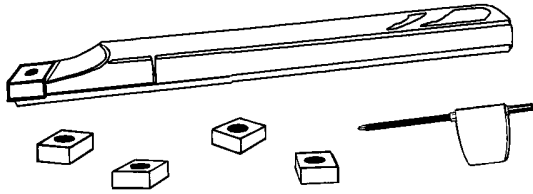
NOTE: This chart gives no exact comparison between analysis or structure and is intended as a guide only.



INDEXABLE INSERT BORING BARS

SCREW-ON TYPE

Negative 5° End and Side Cutting Angle
Positive 80° Diamond CCMT Inserts



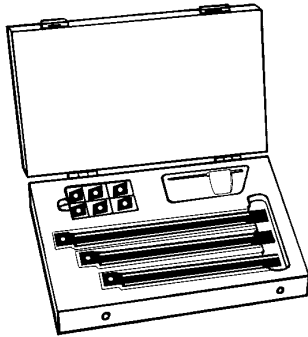
Individual Boring Bars supplied without inserts.

BORING BAR STYLE	SHANK SIZE	MIN. BORE	LENGTH L	CENTER LINE F	INSERTS STYLE	STOCK #		LOCKING SCREW STOCK #	TORX KEY STOCK #
						RH	LH		
SCLCR/L 4-2	.315"	.354	4"	.1875	CCMT	BB870042R	BB870042L	SC2504	T 7
SCLCR/L 6-2	3/8"	.468	6"	.2500	-21.51	BB870062R	BB870062L	SC2506	W37019
SCLCR/L 8-3	1/2"	.600	7"	.3120		BB870083R	BB870083L	SC4008	T18 W36530
SCLCR/L 10-3	5/8"	.866	8"	.4060	CCMT	BB870103R	BB870103L		
SCLCR/L 12-3	3/4"	.920	10"	.5000	-32.52	BB870123R	BB870123L		
SCLCR/L 16-3	1"	1.120	12"	.6094		BB870163R	BB870163L		

• 1 per pack For Inserts, see page C-26.

• 25 per pack • 10 per pack

INDEXABLE BORING BAR SETS IN FITTED WOODEN BOX



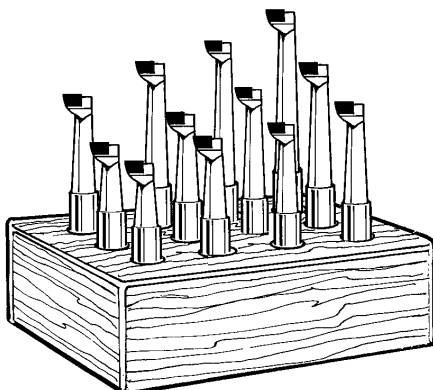
STOCK # BB870500

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

CARBIDE TIPPED BORING BAR SETS

CARBIDE TIPS • ALLOY STEEL SHANKS

Used for finish facing as well as flat bottom boring. By special grinding of carbide cutting edge, threading, grooving and other automatic operations can be performed. The large head behind the cutting edge promotes rigidity and long life by reducing vibrations.



STOCK # CBB51546

C6 Grade for Steel
C2 Grade for Cast Iron

SETS IN FITTED CASE



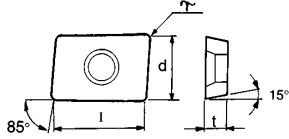
SET QTY.	SHANK DIA.	STOCK #	
		C2	C6
9 PC.	3/8" Shank Set	CBB51510	CBB51610
9 PC.	1/2" Shank Set	CBB51520	CBB51620
12 PC.	5/8" Shank Set	CBB51533	CBB51633
12 PC.	3/4" Shank Set	CBB51546	CBB51646



CARBIDE INDEXABLE INSERTS

ADKT NEW

85° Parallelogram,
Positive Rake



With one face
Pressed Chipbreaker

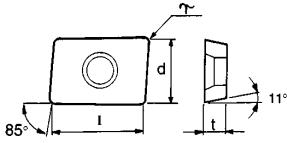
ISO-1505

STYLE	INCH DIMENSIONS				GRADE	COATING	STOCK #
	L	D	T	R			
ADKT	.620	.380	.211	.038	C5	TiN	ADS150L

• 10 per pack

APKT NEW

85° Parallelogram,
Positive Rake



With one face
Pressed Chipbreaker

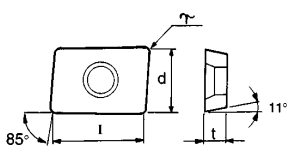
ISO-1604

APKT 3M	0.415	0.265	1/8	–	C5	TiN	APS302L
APKT 47	0.415	0.265	1/8	–	C5	TiN	APR302L
APKT MA	0.634	3/8	3/16	1/32	C3	–	APM5033
APKT MF	0.634	3/8	3/16	1/32	C5	TiN	APF503L
APKT MM	0.634	3/8	3/16	1/32	C5	TiN	APT503L
APKT KH	0.634	3/8	3/16	1/32	C6	TiN	APK503K
	0.634	3/8	3/16	1/32	C5	TiN	APK503L

• 10 per pack

APXT NEW

85° Parallelogram,
Positive Rake



With one face
Pressed Chipbreaker

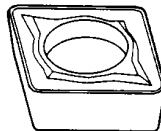
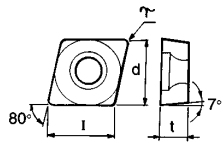
ISO-1604

APXT MM	0.634	3/8	3/8	1/32	C5	TiN	APX503L
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• 10 per pack

CCMT NEW

80° Diamond,
Positive Rake



With C05 Finishing
Chipbreaker

With C25 Medium
Chipbreaker

CCMT 21.51	.256	1/4	3/32	1/64	C6	TiN	CCT215K
	(6.5)	(0.35)	(2.38)	(0.4)	C5	–	CCT2155
					C2	–	CCT2152
CCMT 32.52	.382	3/8	5/32	1/32	C6	TiN	CCT325K
	(9.7)	(9.52)	(3.97)	(0.8)	C5	–	CCT3255
					C2	–	CCT3252
CCMT 432	.508	1/2	3/16	1/32	C6	TiN	CCT432K
	(12.9)	(12.7)	(4.76)	(0.8)	C5	–	CCT4325
					C2	–	CCT4322

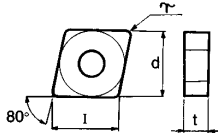
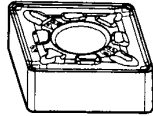
CCMT 21.51	.256	1/4	3/32	1/64	C5	TiN	CCM215L
	(6.5)	(6.35)	(2.38)	(0.4)	C5	–	CCM2155
					C2	–	CCM2152
CCMT 25.22	.319	5/16	1/8	1/32	C5	TiN	CCM252L
	(3.1)	(7.94)	(3.18)	(0.8)			
CCMT 32.51	.382	3/8	5/32	1/64	C5	TiN	CCM321L
	(9.7)	(9.52)	(3.97)	(0.4)			
CCMT 32.52	.382	3/8	5/32	1/32	C6	TiN	CCM325K
					C5	TiN	CCM325L
					C5	–	CCM3255
					C2	–	CCM3252
CCMT 432	.508	1/2	3/16	1/32	C5	TiN	CCM432L
					C5	–	CCM4325
					C2	–	CCM4322

• 10 per pack

CARBIDE INDEXABLE INSERTS

CNMG NEW

80° Diamond,
Negative Double Sided



With B25 Chipbreaker

STYLE	INCH DIMENSIONS				GRADE	COATING	STOCK #
	L	D	T	R			
CNMG 432	0.508	1/2	3/16	1/32	C5	TiN	CNA432L
	(12.9)	(12.7)	(4.76)	(0.8)	C6	–	CNA4326
					C5	–	CNA4325
					C2	–	CNA4322
CNMG 433	0.508	1/2	3/16	3/64	C5	TiN	CNA433L
	(12.9)	(12.7)	(4.76)	(1.2)	C5	–	CNA4335
					C2	–	CNA4332
CNMG 643	0.76	3/4	1/4	3/64	C5	TiN	CNA643L
	(19.3)	(19.05)	(6.35)	(1.2)	C6	–	CNA6436
					C5	–	CNA6435
					C2	–	CNA6432

With Coated Medium Chipbreaker

CNMG 431	0.508 (12.9)	1/2 (12.7)	3/16 (4.76)	1/64 (0.4)	C5	TiN	CNM431L
CNMG 432	0.508 (12.9)	1/2 (12.7)	3/16 (4.76)	1/32 (0.4)	C5	TiN	CNM432L

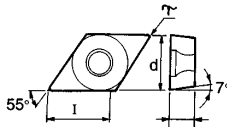
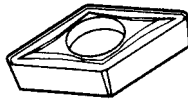
With Roughing Chipbreaker

CNMG 433	0.508 (12.9)	1/2 (12.7)	3/16 (4.76)	3/64 (1.2)	C6 C5	TiN TiN	CNR433K CNR433L
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• 10 per pack

DCMT NEW

55° Diamond,
Positive Rake



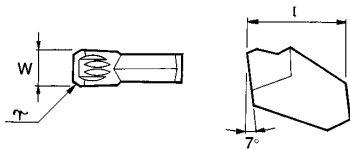
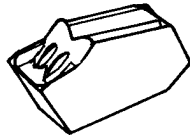
With C25 Medium Chipbreaker

DCMT 21.51	.31 (7.8)	1/4 (0.35)	3/32 (0.4)	1/64 (0.4)	C5 C5 C2	TiN – –	DCM215L DCM2155 DCM2152	
	DCMT 32.51	.46 (11.6)	3/8 (9.52)	5/32 (3.97)	1/64 (0.4)	C5	TiN	DCM321L
	DCMT 32.52	.46 (11.6)	3/8 (9.52)	5/32 (3.97)	1/32 (0.8)	C5	TiN	DCM325L

• 10 per pack

GTN NEW

Cut-Off Carbide
Inserts



With Sided B25 Chipbreaker

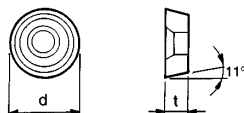
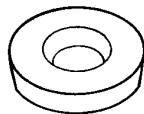
STYLE	INCH DIMENSIONS			CARBIDE GRADE	COATING	STOCK #
	W	R	L			
GTN2	.087 (2.21)	.006 (0.15)	9.3	NC330	TiN	GTN20NL
GTN3	.122 (3.10)	.008 (0.20)	11.3	NC330	TiN	GTN30NL
GTN4	.161 (4.10)	.009 (0.23)	11.3	NC330	TiN	GTN40NL
GTN5	.201 (5.11)	.011 (0.28)	11.4	NC330	TiN	GTN50NL
GTN6	.250 (6.35)	.014 (0.36)	11.4	NC330	TiN	GTN60NL

GTN2	.087 (2.21)	.006 (0.15)	9.3	C6/P20	–	GTN20N6
GTN3	.122 (3.10)	.008 (0.20)	11.3	C6/P20	–	GTN30N6
GTN4	.161 (4.10)	.009 (0.23)	11.3	C6/P20	–	GTN40N6
GTN5	.201 (5.11)	.011 (0.28)	11.4	C6/P20	–	GTN50N6
GTN6	.250 (6.35)	.014 (0.36)	11.4	C6/P20	–	GTN60N6
GTN6	.250 (6.35)	.014 (0.36)	11.4	C2/K20	–	GTN60N2

• 10 per pack

RPMM NEW

Round Milling
Inserts



STYLE	INCH DIMENSIONS		CARBIDE GRADE	COATING	STOCK #
	D	T			
RPMM 1204MO	1/2 (12.7)	3/16 (4.76)	C6 C5	TiN –	RPM43AL RPM43A5

• 10 per pack

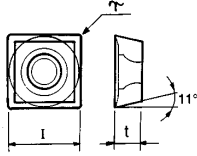
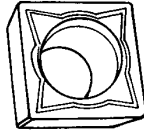
C

Carbide Inserts

CARBIDE INDEXABLE INSERTS

SCMT NEW

90° Square,
Positive Rake,
Utility Unground



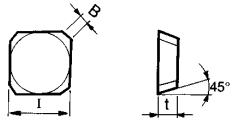
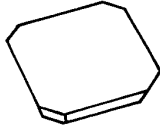
With C25 Medium
Cut Chipbreaker

STYLE	INCH DIMENSIONS			CARBIDE GRADE	COATING	STOCK #
	L = D	T	R			
SCMT 21.51	1/4	3/32	1/64	C5	TiN	SCM215L
	(6.35)	(2.38)	(0.4)	C5	—	SCM2155
				C2	—	SCM2152
SCMT 32.51	3/8	5/32	1/64	C6	TiN	SCM321K
SCMT 32.52	3/8	5/32	1/16	C5	TiN	SCM325L
SCMT 432	1/2	3/16	1/16	C6	TiN	SCM432K

• 10 per pack

SEAN NEW

Square Positive
Inserts for
Maximizers

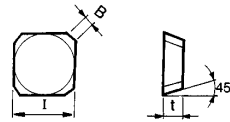
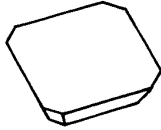


STYLE	INCH DIMENSIONS			CARBIDE GRADE	COATING	STOCK #
	L = D	T	B-Chamfer			
SEAN 42AFTN	1/2	1/8	3/32 x 45°	C6	—	SEA42A6
	(12.70)	(3.18)		C2	—	SEA42A2
	1/2	1/8	3/32 x 45°	C2	—	SEA42A2

• 10 per pack

SECN NEW

Square Chamfered
Corners for
Maximizers

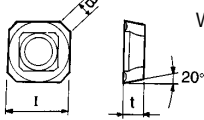
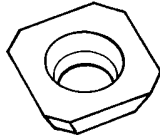


SECN 42AFTN	1/2	1/8	3/32 x 45°	C5	TiN	SEC42AL
	(12.70)	(3.18)		C5	—	SEC42A5
				C2	—	SEC42A2
SECN 53AFTN	5/8	3/16	3/32 x 45°	C5	TiN	SEC53AL

• 10 per pack

SEHT NEW

Carbide Milling
Inserts



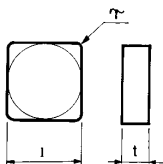
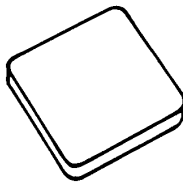
With Chipbreaker X45

STYLE	INCH DIMENSIONS			CARBIDE GRADE	COATING	STOCK #
	L = D	T	A			
SEHT 1204	1/2	3/16	.083	C5	TiN	SEH43TL
	(12.7)	(4.76)	(2.1)	C5	—	SEH43T5
				C2	—	SEH43T2

• 10 per pack

SNGN NEW

Square Negative,
Precision Ground



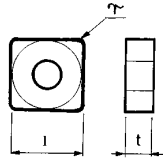
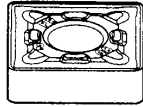
STYLE	INCH DIMENSIONS			CARBIDE GRADE	COATING	STOCK #
	L = D	T	R			
SNG 322	3/8 (9.52)	1/8 (3.18)	1/32 (0.8)	C6	TiN	SNG322K
				C6	—	SNG3226
				C5	—	SNG3225
				C2	—	SNG3222
SNG 423	1/2 (12.7)	1/8 (3.18)	3/64 (1.2)	C6	—	SNG4236
				C5	—	SNG4235
				C2	—	SNG4232
SNG 432	1/2 (12.7)	3/16 (4.76)	1/32 (0.8)	C5	—	SNG4325
				C2	—	SNG4322
SNG 433	1/2 (12.7)	3/16 (4.76)	3/64 (1.2)	C6	—	SNG4336
				C5	—	SNG4335
				C2	—	SNG4332
SNG 434	1/2 (12.7)	3/16 (4.76)	1/16 (1.6)	C6	—	SNG4346
				C2	—	SNG4342
SNG 633	3/4 (19.05)	3/16 (4.76)	3/64 (1.2)	C5	—	SNG6335
				C2	—	SNG6332
SNG 634	3/4 (19.05)	3/16 (4.76)	1/16 (1.6)	C5	—	SNG6345
				C2	—	SNG6342

• 10 per pack

CARBIDE INDEXABLE INSERTS

SNMG NEW

Square Negative,
Double Sided

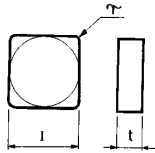
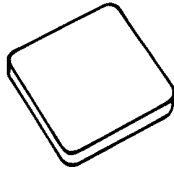


With B25
Chipbreaker
Control Inserts

STYLE	INCH DIMENSIONS			CARBIDE GRADE	COATING	STOCK #
	L = D	T	R			
SNMG 322	3/8 (9.52)	1/8 (3.18)	1/32 (0.8)	C6	—	SNM3226
SNMG 431	1/2 (12.7)	3/16 (4.76)	1/64 (0.4)	C6 C2	— —	SNM4316 SNM4312
SNMG 432	1/2 (12.7)	3/16 (4.76)	1/32 (0.8)	C5 C6 C2	TiN — —	SNM432L SNM4326 SNM4322
SNMG 433	1/2 (12.7)	3/16 (4.76)	3/64 (1.2)	C5 C5 C2	TiN — —	SNM433L SNM4335 SNM4332
SNMG 643	3/4 (19.05)	1/4 (6.35)	3/64 (1.2)	C5 C6 C5 C2	TiN — — —	SNM643L SNM6436 SNM6435 SNM6432
SNMG 644	3/4 (19.05)	1/4 (6.35)	1/16 (1.6)	C5 C5 C2	TiN — —	SNM644L SNM6445 SNM6442

SNU NEW

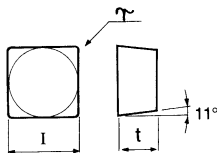
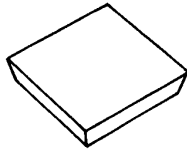
Square Negative,
Utility Ground



STYLE	INCH DIMENSIONS			CARBIDE GRADE	STOCK #
	L = D	T	R		
SNU 322	3/8 (9.52)	1/8 (3.18)	1/32 (0.8)	C5 C2	SNU3225 SNU3222
SNU 422	1/2 (12.7)	1/8 (3.18)	1/32 (0.8)	C6 C5 C2	SNU4226 SNU4225 SNU4222
SNU 423	1/2 (12.7)	1/8 (3.18)	3/64 (1.2)	C6 C2	SNU4236 SNU4232
SNU 432	1/2 (12.7)	3/16 (4.76)	1/32 (0.8)	C5 C2	SNU4325 SNU4322
SNU 433	1/2 (12.7)	3/16 (4.76)	3/64 (1.2)	C6 C5 C2	SNU4336 SNU4335 SNU4332
SNU 434	1/2 (12.7)	3/16 (4.76)	1/16 (1.6)	C6 C2	SNU4346 SNU4342
SNU 532	5/8 (15.9)	3/16 (4.76)	1/32 (0.8)	C6 C2	SNU5326 SNU5322
SNU 533	5/8 (15.9)	3/16 (4.76)	3/64 (1.2)	C6 C2	SNU5336 SNU5332
SNU 534	5/8 (15.9)	3/16 (4.76)	1/16 (1.6)	C6 C2	SNU5346 SNU5342

SPG NEW

Square Positive,
Utility Ground



STYLE	INCH DIMENSIONS			CARBIDE GRADE	COATING	STOCK #
	L = D	T	R			
SPG 321	3/8 (9.52)	1/8 (3.18)	1/64 (0.4)	C6 C2	— —	SPG3216 SPG3212
SPG 322	3/8 (9.52)	1/8 (3.18)	1/32 (0.8)	C6 C5 C2	— — —	SPG3226 SPG3225 SPG3222
SPG 421	1/2 (12.7)	1/8 (3.18)	1/64 (0.4)	C6 C5 C6 C5 C2	TiN TiN — — —	SPG421K SPG421L SPG4216 SPG4215 SPG4212
SPG 422	1/2 (12.7)	1/8 (3.18)	1/32 (0.8)	C5 C6 C5 C2	TiN — — —	SPG422L SPG4226 SPG4225 SPG4222
SPG 423	1/2 (12.7)	1/8 (3.18)	3/64 (0.8)	C5 C6 C5 C2	TiN — — —	SPG423L SPG4236 SPG4235 SPG4232
SPG 424	1/2 (12.7)	1/8 (3.18)	1/16 (1.6)	C6 C5 C2	TiN — —	SPG424K SPG4245 SPG4242
SPG 633	3/4 (19.05)	3/16 (3.18)	3/64 (1.2)	C6 C5 C2	— — —	SPG6336 SPG6335 SPG6332
SPG 634	3/4 (19.05)	3/16 (3.18)	1/16 (1.6)	C6 C5 C2	— — —	SPG6346 SPG6345 SPG6342

• 10 per pack

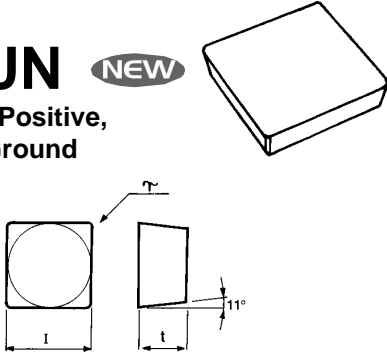
Carbide Inserts

C

CARBIDE INDEXABLE INSERTS

SPUN NEW

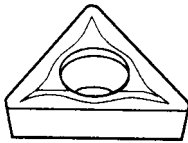
Square Positive,
Utility Ground



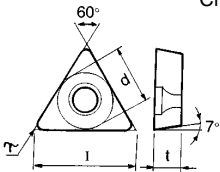
STYLE	INCH DIMENSIONS			CARBIDE GRADE	COATING	STOCK #
	L = D	T	R			
SPU 321	3/8	1/8	1/64	C6	-	SPU3216
	(9.52)	(3.18)	(0.4)	C2	-	SPU3212
SPU 322	3/8	1/8	1/32	C6	-	SPU3226
	(9.52)	(3.18)	(0.8)	C2	-	SPU3222
SPU 421	1/2	1/8	1/64	C5	-	SPU4215
	(12.7)	(3.18)	(0.4)	C2	-	SPU4212
SPU 422	1/2 (12.7)	1/8 (3.18)	1/32 (0.8)	C6	TiN	SPU422K
				C5	TiN	SPU422L
				C6	-	SPU4226
				C5	-	SPU4225
				C2	-	SPU4222
SPU 423	1/2 (12.7)	1/8 (3.18)	3/64 (1.2)	C5	TiN	SPU423L
				C6	-	SPU4236
				C5	-	SPU4235
				C2	-	SPU4232
SPU 533	5/8 (15.87)	3/16 (4.76)	3/64 (1.2)	C6	-	SPU5336
				C5	-	SPU5335
				C2	-	SPU5332
SPU 632	3/4 (19.05)	3/16 (4.76)	1/32 (0.8)	C6	-	SPU6326
				C2	-	SPU6322
SPU 633	3/4 (19.05)	3/16 (4.76)	3/64 (1.2)	C6	TiN	SPU633K
				C6	-	SPU6336
				C5	-	SPU6335
				C2	-	SPU6332
SPU 634	3/4 (19.05)	3/16 (4.76)	1/16 (1.6)	C5	TiN	SPU634L
				C5	-	SPU6345
				C2	-	SPU6342

TCMT NEW

60° Triangle, Positive
Rake,
Utility Unground



With C25 Medium Cut
Chipbreaker

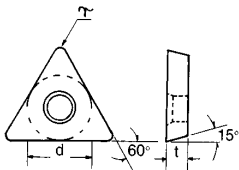


With C05
Finishing
Chipbreaker

STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	L	D	T	R			
TCMT 21.51	.433	1/4	3/32	1/64	C6	TiN	TCM215K
	(11.0)	(6.35)	(2.38)	(0.4)	C5	-	TCM2155
TCMT 32.51	.650	3/8	5/32	1/64	C6	TiN	TCM321K
	(16.5)	(9.52)	(3.97)	(0.4)			
TCMT 32.52	.650 (16.5)	3/8 (9.52)	5/32 (3.97)	1/32	C5	TiN	TCM325L
					C5	-	TCM3255
					C2	-	TCM3252
TCMT 32.52	.650 (16.5)	3/8 (9.52)	5/32 (3.97)	1/32	C6	TiN	TCT325K
					C5	-	TCT3255
					C2	-	TCT3252

TDGW NEW

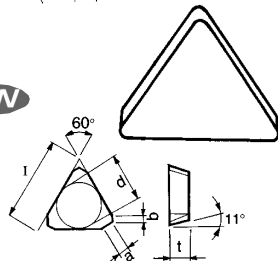
60° Triangle,
Positive Rake,
Ground all over



STYLE	INCH DIMENSIONS			CARBIDE GRADE	COATING	STOCK #
	D	T	R			
TDGW 21.51E	1/4 (6.35)	3/32 (2.38)	1/64 (1.6)	C6	TiN	TDW215K
				C5	-	TDW2155
				C2	-	TDW2152
TDGW 321E	3/8 (9.52)	1/8 (3.18)	1/64 (0.4)	C6	TiN	TDW321K
				C5	-	TDW3215
				C2	-	TDW3212
TDGW 432E	1/2 (12.70)	3/16 (4.76)	1/32 (0.8)	C6	TiN	TDW432K
				C5	-	TDW4325
				C2	-	TDW4322

TPC NEW

Triangular
Positive



STYLE	INCH DIMENSIONS					CARBIDE GRADE	COATING	STOCK #
	L	D	T	A	B			
TPC 32YR	(16.5)	3/8 (9.525)	1/8 (3.18)	3/64 (1.2)	(1.0~1.2)	C6	TiN	TPK32RK
						C6	-	TPK32R6
						C2	-	TPK32R2
TPC 43YR	(22.0)	1/2 (12.7)	3/16 (4.76)	(1.27~1.4)	(0.7~1.27)	C6	TiN	TPK43RK
						C6	-	TPK43R6
						C5	-	TPK43R5
						C2	-	TPK43R2

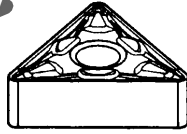
• 10 per pack

CARBIDE INDEXABLE INSERTS

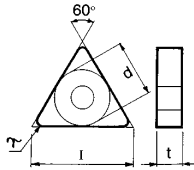
TNMG

Triangular,
Negative,
Double Sided

NEW



B25 Chipbreaker
Control



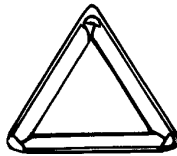
STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	D	T	R	L			
TNMG 321	3/8 (9.52)	1/8 (3.18)	1/64 (0.4)	0.650 (16.50)	C5	TiN	TNM321L
					C5	-	TNM3215
					C2	-	TNM3212
TNMG 322	3/8 (9.52)	1/8 (3.18)	1/32 (0.8)	0.650 (16.50)	C5	TiN	TNM322L
					C6	-	TNM3226
					C5	-	TNM3225
					C2	-	TNM3222
TNMG 323	3/8 (9.52)	1/8 (3.18)	3/64 (1.2)	0.650 (16.50)	C5	TiN	TNM323L
					C6	-	TNM3236
					C5	-	TNM3235
					C2	-	TNM3232
TNMG 331	3/8 (9.52)	3/16 (4.76)	1/64 (0.4)	0.650 (16.50)	C5	TiN	TNM331L
TNMG 332	3/8 (9.52)	3/16 (4.76)	1/32 (0.8)	0.650 (16.50)	C6	-	TNM3326
					C5	-	TNM3325
					C2	-	TNM3322
TNMG 333	3/8 (9.52)	3/16 (4.76)	3/64 (1.2)	0.650 (16.50)	C5	-	TNM3335
					C2	-	TNM3332
TNMG 432	1/2 (12.7)	3/16 (4.76)	1/32 (0.8)	0.866 (22.00)	C5	TiN	TNM432L
					C6	-	TNM4326
					C5	-	TNM4325
					C2	-	TNM4322
TNMG 433	1/2 (12.7)	3/16 (4.76)	3/64 (1.2)	0.866 (22.00)	C5	TiN	TNM433L
					C6	-	TNM4336
					C5	-	TNM4335
					C2	-	TNM4332
TNMG 434	1/2 (12.7)	3/16 (4.76)	1/16 (1.6)	0.866 (22.00)	C5	TiN	TNM434L
					C6	-	TNM4346
					C5	-	TNM4345
					C2	-	TNM4342

• 10 per pack

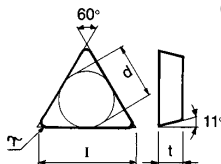
TPMR

Triangular,
Positive,
M Regular

NEW



Single
Chipbreaker



STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	D	T	R	L			
TPMR 221	1/4 (6.35)	1/8 (3.18)	1/64 (0.4)	0.43 (11.0)	C6	-	TPM2216
					C2	-	TPM2212
TPMR 222	1/4 (6.35)	1/8 (3.18)	1/32 (0.8)	0.43 (11.0)	C6	-	TPM2226
					C2	-	TPM2222
TPMR 321	3/8 (9.52)	1/8 (3.18)	1/64 (0.4)	0.65 (16.5)	C5	TiN	TPM321L
					C7	-	TPM3217
					C6	-	TPM3216
					C2	-	TPM3212
TPMR 322	3/8 (9.52)	1/8 (3.18)	1/32 (0.8)	0.65 (16.5)	C5	TiN	TPM322L
					C7	-	TPM3227
					C6	-	TPM3226
					C2	-	TPM3222
TPMR 323	3/8 (9.52)	1/8 (3.18)	3/64 (1.2)	0.65 (16.5)	C6	-	TPM3236
					C2	-	TPM3232

• 10 per pack

C

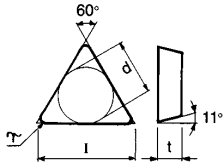
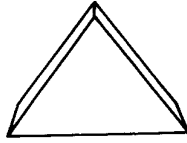
Carbide Inserts

CARBIDE INDEXABLE INSERTS

TPUN

NEW

Triangular, Positive,
Utility Ground



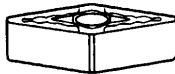
STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	D	T	R	L			
TPU 212	1/4 (6.35)	3/32 (2.30)	1/32 (0.8)	0.433 (11.0)	C5	—	TPU2125
					C2	—	TPU2122
TPU 221	1/4 (6.35)	1/8 (3.18)	1/64 (0.4)	0.433 (11.0)	C6	—	TPU2216
					C5	—	TPU2215
					C2	—	TPU2212
TPU 222	1/4 (6.35)	1/8 (3.18)	1/32 (0.8)	0.433 (11.0)	C6	—	TPU2226
					C5	—	TPU2225
					C2	—	TPU2222
TPU 321	3/8 (9.52)	1/8 (3.18)	1/64 (0.4)	0.650 (16.5)	C6	TiN	TPU321K
					C5	TiN	TPU321L
					C6	—	TPU3216
					C5	—	TPU3215
					C2	—	TPU3212
TPU 322	3/8 (9.52)	1/8 (3.18)	1/32 (0.8)	0.650 (16.5)	C6	TiN	TPU322K
					C5	TiN	TPU322L
					C6	—	TPU3226
					C5	—	TPU3225
					C2	—	TPU3222
TPU 323	3/8 (9.52)	1/8 (3.18)	3/64 (1.2)	.650 (16.5)	C5	—	TPU3235
					C2	—	TPU3232
TPU 432	1/2 (12.7)	3/16 (4.76)	1/32 (0.8)	0.866 (22.00)	C6	TiN	TPU432K
					C5	TiN	TPU432L
					C6	—	TPU4326
					C5	—	TPU4325
					C2	—	TPU4322
TPU 433	1/2 (12.7)	3/16 (4.76)	3/64 (1.2)	0.866 (22.00)	C6	—	TPU4336
					C5	—	TPU4335
					C2	—	TPU4332
TPU 434	1/2 (12.7)	3/16 (4.76)	1/16 (1.6)	0.866 (22.00)	C5	—	TPU4345
					C2	—	TPU4342
TPU 645	3/4 (19.05)	1/4 (6.35)	5/64 (2.0)	1.30 (33.00)	C5	—	TPU6455

• 10 per pack

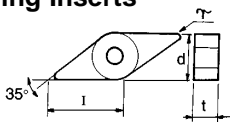
VNMG

NEW

35° Diamond,
Negative Rake,
Turning Inserts



With GM Medium
Cut Chipbreaker



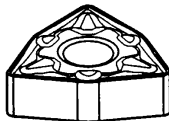
STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	L	D	T	R			
VNMG 332	0.65 (16.6)	3/8 (9.52)	3/16 (4.76)	1/32 (0.8)	C6	TiN	VNG332K

• 10 per pack

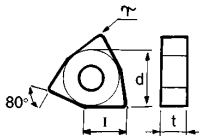
WNMG

NEW

80° Trigon,
Negative Rake,
Utility Unground



With GM
Chipbreaker



STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	L	D	T	R			
WNMG 332	0.256 (6.5)	3/8 (9.525)	1/32 (0.8)	3/16 (4.76)	C5	TiN	WNM332L
WNMG 432	0.342 (8.7)	1/2 (12.7)	1/32 (0.8)	3/16 (4.76)	C6	TiN	WNM432K
					C5	TiN	WNM432L

WNMG 432	0.342 (8.7)	1/2 (12.7)	3/16 (4.76)	1/32 (0.8)	C5	TiN	WNR432L
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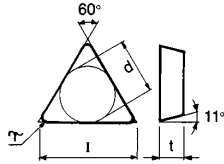
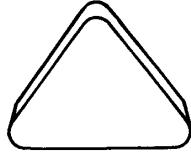
• 10 per pack

CARBIDE INDEXABLE INSERTS

TPG

NEW

Triangular,
Positive Insert,
Precision Ground



STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	D	T	R	L			
TPG 211	1/4	3/32	1/64	0.433	C5	-	TPG2115
	(6.35)	(2.38)	(0.4)	(11.00)	C2	-	TPG2112
TPG 212	1/4	3/32	1/32	0.433	C5	-	TPG2125
	(6.35)	(2.38)	(0.8)	(11.00)	C2	-	TPG2122
TPG 221	1/4 (6.35)	1/8 (3.18)	1/64 (0.4)	0.433 (11.00)	C6	TiN	TPG221K
					C6	-	TPG2216
					C5	-	TPG2215
					C2	-	TPG2212
TPG 222	1/4 (6.35)	1/8 (3.18)	1/32 (0.8)	0.433 (11.00)	C6	TiN	TPG222K
					C6	-	TPG2226
					C5	-	TPG2225
					C2	-	TPG2222
TPG 321	3/8 (9.52)	1/8 (3.18)	1/64 (0.4)	.650 (16.5)	C6	TiN	TPG321K
					C5	TiN	TPG321L
					C6	-	TPG3216
					C5	-	TPG3215
TPG 322	3/8 (9.52)	1/8 (3.18)	1/32 (0.8)	.650 (16.5)	C6	TiN	TPG322K
					C5	TiN	TPG322L
					C6	-	TPG3226
					C5	-	TPG3225
TPG 323	3/8 (9.52)	1/8 (3.18)	3/64 (1.2)	.650 (16.5)	C5	TiN	TPG323L
					C5	-	TPG3235
					C2	-	TPG3232
					C6	TiN	TPG324K
TPG 324	3/8 (9.52)	1/8 (3.18)	1/16 (1.6)	.650 (16.5)	C5	TiN	TPG324L
					C6	-	TPG3246
					C5	-	TPG3245
					C2	-	TPG3242
TPG 431	1/2 (12.7)	3/16 (4.76)	1/64 (0.4)	.866 (22.0)	C5	TiN	TPG431L
					C6	-	TPG4316
					C5	-	TPG4315
					C2	-	TPG4312
TPG 432	1/2 (12.7)	3/16 (4.76)	1/32 (0.8)	.866 (22.0)	C5	TiN	TPG432L
					C6	-	TPG4326
					C5	-	TPG4325
					C2	-	TPG4322
TPG 433	1/2 (12.7)	3/16 (4.76)	3/64 (1.2)	0.866 (22.00)	C6	-	TPG4336
					C5	-	TPG4335
					C2	-	TPG4332

• 10 per pack

C

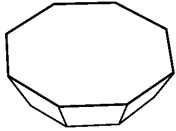
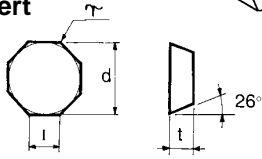
Carbide Inserts

CARBIDE INDEXABLE INSERTS

OFCN

NEW

Octagonal Double
Milling Insert

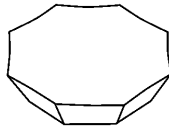
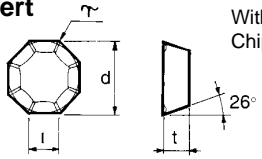


STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	L	D	T	R			
OFCN	0.291 (7.4)	0.708 (18)	3/16 (4.76)	0.02 (0.5)	C6	TiN	OFCN070L

OFKR

NEW

Octagonal Double
Milling Insert



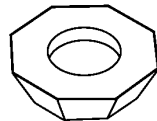
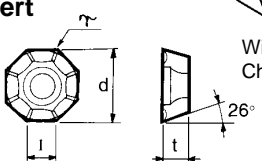
With MM
Chipbreaker

STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	L	D	T	R			
OFKR	0.291 (7.4)	0.708 (18)	3/16 (4.76)	0.02 (0.5)	C6	TiN	OFR070L

OFKT

NEW

Octagonal Double
Milling Insert



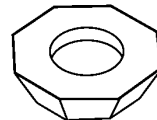
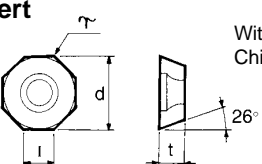
With MM
Chipbreaker

STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	L	D	T	R			
OFKT	0.204 (5.2)	1/2 (12.7)	5/32 (3.97)	0.02 (0.5)	C6	TiN	OFT05TL

OFCW

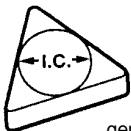
NEW

Octagonal Double
Milling Insert



With MM
Chipbreaker

STYLE	INCH DIMENSIONS				CARBIDE GRADE	COATING	STOCK #
	L	D	T	R			
OFCW	0.204 (5.2)	1/2 (12.7)	5/32 (3.97)	0.02 (0.5)	C6	TiN	OFW05TL



High-Performance Carbide Inserts

These premium inserts feature state-of-the-art technology to handle everything from general to the most demanding machining jobs.

A carbide insert is a multi-edged cutting tool. When one cutting edge becomes worn, simply index or turn the insert to a new cutting edge. You can index or turn the insert without removing the tool holder from your machine.

Insert size is determined by the diameter of the inscribed circle (I.C.), except for rectangular and parallelogram inserts where length and width dimensions are used. Inserts are available with negative-rake & positive-rake angles.

Negative-Rake Inserts – The insert face is angled so that there is clearance under the cutting edge. We recommend using negative-rake inserts whenever possible. The negative-rake angle provides better support at the cutting edge for greater heat and cutting-load tolerance. Negative-rake inserts are less prone to chipping and breaking. They can also be inverted to twice as many cutting edges than one-sided positive-rake inserts. Excellent for general machining of most materials as well as for making roughing and interrupted cuts.

Positive-Rake Inserts – The insert face is angled so that cutting edges are sharper. Positive-rake inserts offer free cutting characteristics that are an advantage for machining parts that are long and slender, thin walled, and that are suited to blending or chatter. Use them on softer materials such as aluminum, copper and brass. They're also recommended for use on low-horsepower machines.

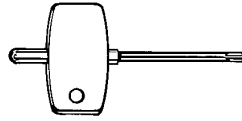


TORX® DRIVERS FOR CARBIDE INSERTS



Especially for use with indexable carbide tooling and also for working in confined spaces.

- Blade is made of high alloy chrome vanadium molybdenum steel, hardened & black finished.
- Wing/Flag handle, high quality plastic, impact resistant, cadmium-free.

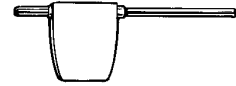


WING STYLE

TORX® SIZE	OVERALL LENGTH	SHAFT LENGTH	STOCK #
T6	3.3"	2.0"	W36510
T7	3.3"	2.0"	W36512
T8	3.3"	2.0"	W36515
T9	3.3"	2.0"	W36520
T10	3.3"	2.0"	W36525
T15	3.3"	2.0"	W36530
T20	3.3"	2.0"	W36535

• 10 per pack

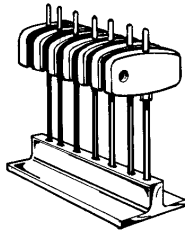
NEW



FLAG STYLE

TORX® SIZE	OVERALL LENGTH	SHAFT LENGTH	STOCK #
T6	2.64"	1.38"	W37016
T7	2.64"	1.38"	W37019
T8	2.84"	1.58"	W37022
T9	2.89"	1.58"	W37026
T10	2.89"	1.58"	W37029
T15	3.15"	1.77"	W37032
T20	3.15"	1.77"	W37036

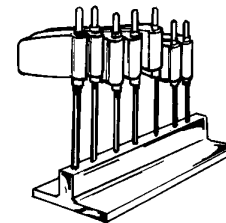
• 10 per pack



7 PC. WING DRIVER SET with STAND

TYPE	SIZES	STOCK #
7 PC.	Contains 1 ea. T6, T7, T8, T9, T10, T15, T20	W36590

• 1 per pack



7 PC. FLAG DRIVER SET with STAND

TYPE	SIZES	STOCK #
7 PC.	Contains 1 ea. T6, T7, T8, T9, T10, T15, T20	W37090

• 1 per pack

C

Drivers & Screws for Inserts

SCREWS FOR CARBIDE INSERTS

HEAT TREATED & HARDENED FOR REPETITIVE USE

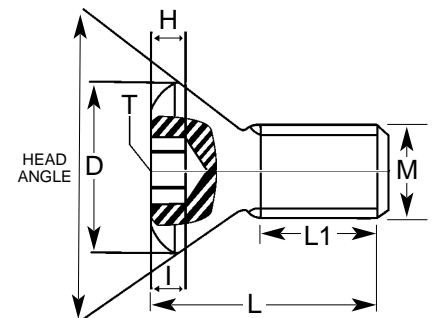
Metric sizes (mm)

TORX® DRIVE

THREAD M	D	L	L1	I	H	HEAD ANGLE	TORX® KEY SIZE T	STOCK #
M2.5 - 0.45	3.45	4.5	2.5	0.8	0.9 - 1.0	60°	T7	SC2504
M2.5 - 0.45	4.5	6	—	0.4	1.3	62°	T8	SC2505
M2.5 - 0.45	3.45	6.5	3.5	0.8	0.9 - 1.0	60°	T7	SC2506
M3 - 0.5	4.2	7.4	6.5	1.0	1.0 - 1.2	60°	T9	SC3007
M4 - 0.7	5.6	7.9	3.8	1.6	2	60°	T15	SC4007
M4 - 0.7	5.5	8.4	4.5	1.5	1.5 - 1.7	60°	T15	SC4008
M4 - 0.7	8.1	9	—	0.5	1.6	82°	T20	SC4009
M4 - 0.7	5.5	11.4	7.0	1.5	1.5 - 1.7	60°	T15	SC4011
M5 - 0.8	6.4	11.0	6.0	—	1.5 - 1.8	43°	T20	SC5011
M5 - 0.8	7.2	12.0	8.0	1.5	1.8 - 2.0	60°	T15	SC5012

• 25 per pack

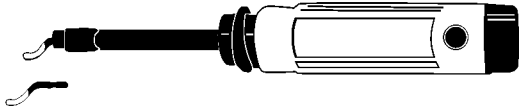
NEW



DEBURRING TOOLS

ZIP / BURR™ SYSTEM NEW

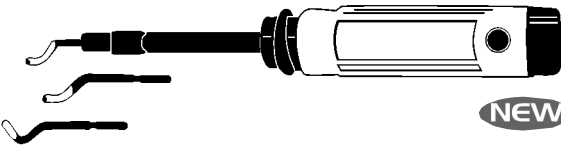
Zip / Burr™ "B" Set for "B" Series Blades



- Takes all "B" series blades.
- Includes one B-10 blade and one B-20 blade.
- Handle has storage compartment for spare blades.
- Holder telescopes from 1/2" to 5".
- Blade can be inserted at 90° for deburring cross holes.
- Handle has lifetime guarantee.

Complete Zip / Burr "B" Set	Pkg. of 1	DT22600
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Zip / Burr™ Heavy Duty "E" Set for "E" Series Blades



- Same features as "B" set but takes all heavy duty "E" series blades and blade can't be inserted at 90°.
- Includes one E-100 blade, one E-200 blade and one E-300 blade.

Complete Zip / Burr "E" Set	Pkg. of 1	DT22620
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MULTI / BURR DEBURRING TOOLS

Multi / Burr-5 NEW



- Blades can be stored in lightweight plastic handle.
- Blades easily changed by depressing locking button.
- Comes with **five** blades— one each of E-100, E-200, E-350, E-101 and E-102.
- Handle has lifetime guarantee.

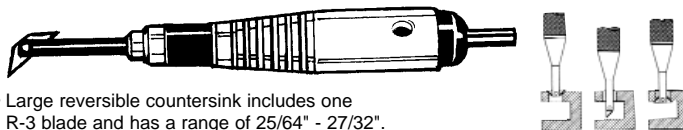
Plastic handle complete w/ 5 blades	Pkg. of 1	DT22022
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Multi / Burr-3

- Same features and guarantee as Multi / Burr-5 except that it comes with **three** blades – one each of E-100, E-200 and E-350.

Plastic handle complete w/ 3 blades	Pkg. of 1	DT22015
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REVERSIBLE COUNTERSINK NEW



- Large reversible countersink includes one R-3 blade and has a range of 25/64" - 27/32".

Complete Standard Reversible Countersink	Pkg. of 1	DT22465
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SLIM-GRIP DEBURRING TOOLS

Slim-Grip Disposable Burr NEW








- Low-priced yet can handle almost every deburring job.
- For removing burrs from steel and aluminum.
- Consists of heavy-Duty E 100 blade, handle, and handy pocket clip.

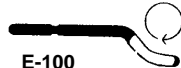
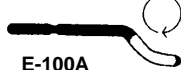
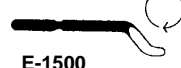

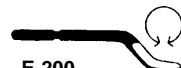

Slim-Grip Disposable Burr	Pkg. of 10	DT22050
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BLADES FOR DEBURRING TOOL

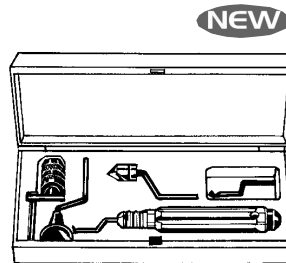
STANDARD DUTY "B" SERIES

	BLADES PER PKG.	STOCK #
 B-10	10	DT22110
	100	DT22220
 B-10A	10	DT22109
	100	DT22119
 B-20	10	DT22120
	100	DT22223
 B-30	10	DT22130
	100	DT22225
 B-60	10	DT22135
	100	DT22245

HEAVY DUTY "E" SERIES

 E-100	10	DT22025
	100	DT22203
 E-100A	10	DT22034
	100	DT22234
 E-1500	10	DT22046
	100	DT22242
 E-101L	10	DT22038
	100	DT22212
 E-200	10	DT22030
	100	DT22205
 E-300	10	DT22040
	100	DT22209

ROTO-DRIVE PROFESSIONAL SET NEW

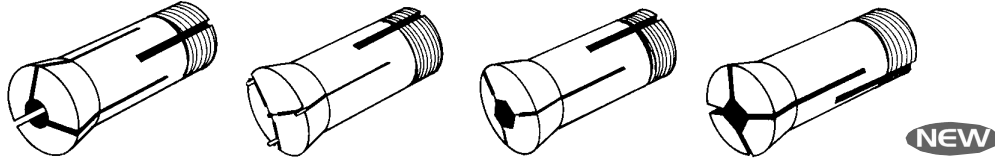


- Plastic Roto-Drive Handle
- 1/8" Countersink
- 3/8" Countersink
- E-100 Blade
- E-200 Blade
- External Countersink Blade
- Drill Chuck
- O-Ring Blade
- Thread Cleaner Blade
- Plastic Storage Case

Roto-Drive Professional Set	Pkg. of 1	DT22578
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5C PRECISION COLLETS

ROUND • EMERGENCY • HEXAGON • SQUARE



Hardened and ground to an accuracy of .0006 / .0008 T.I.R.

Body Dia. 1-1/4" External Thread: 1.240 x 20 R.H. Internal Thread: 1.047 x 24 R.H.

ROUND COLLETS

INCH SIZES

SIZE	STOCK #
3/64"	FC001
1/16"	FC002
5/64"	FC003
3/32"	FC004
7/64"	FC005
1/8"	FC006
9/64"	FC007
5/32"	FC008
11/64"	FC009
3/16"	FC010
13/64"	FC011
7/32"	FC012
15/64"	FC013
1/4"	FC014
17/64"	FC015
9/32"	FC016
19/64"	FC017
5/16"	FC018
21/64"	FC019
11/32"	FC020
23/64"	FC021
3/8"	FC022
25/64"	FC023
13/32"	FC024

SIZE	STOCK #
27/64"	FC025
7/16"	FC026
29/64"	FC027
15/32"	FC028
31/64"	FC029
1/2"	FC030
33/64"	FC031
17/32"	FC032
35/64"	FC033
9/16"	FC034
37/64"	FC035
19/32"	FC036
39/64"	FC037
5/8"	FC038
41/64"	FC039
21/32"	FC040
43/64"	FC041
11/16"	FC042
45/64"	FC043
23/32"	FC044
47/64"	FC045
3/4"	FC046
49/64"	FC047
25/32"	FC048

SIZE	STOCK #
51/64"	FC049
13/16"	FC050
53/64"	FC051
27/32"	FC052
55/64"	FC053
7/8"	FC054
57/64"	FC055
29/32"	FC056
59/64"	FC057
15/16"	FC058
61/64"	FC059
31/32"	FC060
63/64"	FC061
1"	FC062
1-1/64"	FC063
1-1/32"	FC064
1-3/64"	FC065
1-1/16"	FC066
1-5/64"	FC067
1-3/32"	FC068
1-7/64"	FC069
1-1/8"	FC070
-	-
-	-

METRIC SIZES

SIZE	STOCK #
3 mm	FCM71
4 mm	FCM72
5 mm	FCM73
6 mm	FCM74
7 mm	FCM75
8 mm	FCM76
9 mm	FCM77
10 mm	FCM78
11 mm	FCM79
12 mm	FCM80
13 mm	FCM81
14 mm	FCM82
15 mm	FCM83
16 mm	FCM84
17 mm	FCM85
18 mm	FCM86
19 mm	FCM87
20 mm	FCM88
21 mm	FCM89
22 mm	FCM90
23 mm	FCM91
24 mm	FCM92
25 mm	FCM93
26 mm	FCM94

• 1 per pack

5C ROUND COLLET SETS

NO. OF PCS.	SIZES	STOCK #
18 Pc.	1/16" to 1-1/8" by 16ths	FC096
35 Pc.	1/16" to 1-1/8" by 32nds	FC097
69 Pc.	1/16" to 1-1/8" by 64ths	FC098
24 Pc.	3 mm to 26 mm by 1mm	FCM099

5C EMERGENCY COLLETS

SIZE	STOCK #
1/16"	FCE131
<p>For rush jobs. In just minutes, these collets can be bored or stepped out to any desired size (up to 1-1/8" in diameter). They provide dependable, strong gripping power and accuracy. Collet face and 1/16" pilot hole are soft for easy machining. Main body diameter is 1-1/4".</p>	

• 1 per pack

5C HEX COLLETS

SIZE	STOCK #
1/8"	FCH101
3/16"	FCH102
1/4"	FCH103
5/16"	FCH104
3/8"	FCH105
7/16"	FCH106
1/2"	FCH107
9/16"	FCH108
5/8"	FCH109
11/16"	FCH110
3/4"	FCH111
13/16"	FCH112
7/8"	FCH113

• 1 per pack

5C SQUARE COLLETS

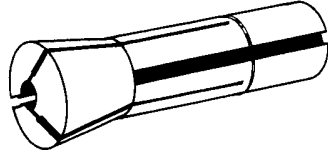
SIZE	STOCK #
1/8"	FCS120
3/16"	FCS121
1/4"	FCS122
5/16"	FCS123
3/8"	FCS124
7/16"	FCS125
1/2"	FCS126
9/16"	FCS127
5/8"	FCS128
11/16"	FCS129
3/4"	FCS130

• 1 per pack



5C Precision Round Collets

R8 PRECISION ROUND COLLETS



NEW

Hardened & Ground

Concentricity guaranteed to 0.0005 T.I.R.

INCH SIZES

SIZE	STOCK #	SIZE	STOCK #
1/16"	RC001	1/2"	RC015
3/32"	RC002	17/32"	RC016
1/8"	RC003	9/16"	RC017
5/32"	RC004	19/32"	RC018
3/16"	RC005	5/8"	RC019
7/32"	RC006	21/32"	RC020
1/4"	RC007	11/16"	RC021
9/32"	RC008	23/32"	RC022
5/16"	RC009	3/4"	RC023
11/32"	RC010	25/32"	RC024
3/8"	RC011	13/16"	RC025
13/32"	RC012	27/32"	RC026
7/16"	RC013	7/8"	RC027
15/32"	RC014	1"	RC028

• 1 per pack

METRIC SIZES

SIZE	STOCK #	SIZE	STOCK #
2 mm	RCM051	12 mm	RCM061
3 mm	RCM052	13 mm	RCM062
4 mm	RCM053	14 mm	RCM063
5 mm	RCM054	15 mm	RCM064
6 mm	RCM055	16 mm	RCM065
7 mm	RCM056	17 mm	RCM066
8 mm	RCM057	18 mm	RCM067
9 mm	RCM058	19 mm	RCM068
10 mm	RCM059	20 mm	RCM069
11 mm	RCM060		

• 1 per pack

R8 COLLET SETS

INCH SIZES

NO. OF PCS.	SIZES	STOCK #
13 Pc.	1/8" to 7/8" by 16ths	RC030
27 Pc.	1/16" to 7/8" by 32nds	RC031

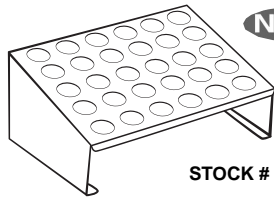
R8 COLLET SETS

METRIC SIZES

NO. OF PCS.	SIZES	STOCK #
19 Pc.	2 mm to 20 mm by 1 mm	RCM071



FOR 5C COLLETS



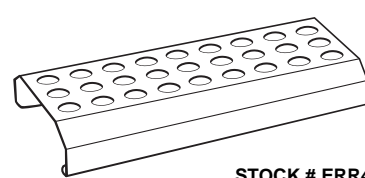
NEW

STOCK # FCR30

Holds up to 30 collets. Strongly made of 18 gauge steel. Dimensions: 9" W x 12" D. 5-1/2" high at one end and 2-1/2" at other end. Weight: 3 lbs. Baked enamel finish for easy cleaning and protection. Can be hung on wall or set on shelf or work bench.

COLLET RACKS

FOR ER COLLETS

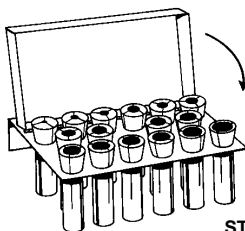


NEW

STOCK # ERR40

Holds up to 27 Collets. Dimensions: 17" W x 9-1/32" D x 2" H. Hole Size: 1-1/2"

FOR R8 COLLETS



NEW

STOCK # RCR12

Easily mounts on machine with 2 screws. Holds 12 collets. Flip down cover to protect tools from dirt. Dimensions: 5-1/4" W x 9" D.

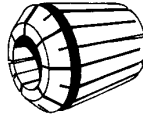
ER SIZE	RACK			STOCK #
	NO. OF COLLETS	HOLE SIZE	DIM.	
ER-11	49	27/64"	7-7/32" W x 9-7/32" D x 1-3/8" H	ERR11
ER-16	49	39/64"		ERR16
ER-20	36	49/64"		ERR20
ER-25	48	61/64"	17" W x 9-1/32" D x 2" H	ERR25
ER-32	40	1-13/64"		ERR32
ER-40	27	1-1/2"		ERR40

C

R8 Precision Round Collets

ER SPRING COLLETS

- Concentricity .0004", except ER-40 (.0005")
- Design affords highest gripping power.
- True double angle for better accuracy.



NEW

- 16 jaws for powerful gripping & parallel clamping.
- ER Mini-Collet Chucks allow for machining in tight locations with reduced outside nose diameter.

INCH SIZES

NOMINAL SIZE	ER-11	ER-16	ER-20	ER-25	ER-32	ER-40
	STOCK #	STOCK #	STOCK #	STOCK #	STOCK #	STOCK #
1/32"	ERC1101*	ERC1601	-	-	-	-
1/16"	ERC1102*	ERC1602	ERC2002	ERC2502	-	-
3/32"	ERC1103*	ERC1603	ERC2003	ERC2503	ERC3203	-
1/8"	ERC1104*	ERC1604*	ERC2004*	ERC2504*	ERC3204*	ERC4004*
3/16"	ERC1106*	ERC1606*	ERC2006*	ERC2506*	ERC3206*	ERC4006*
7/32"	ERC1107*	ERC1607*	ERC2007*	ERC2507*	ERC3207	ERC4007
1/4"	ERC1108*	ERC1608*	ERC2008*	ERC2508*	ERC3208*	ERC4008*
5/16"	-	ERC1609*	ERC2009*	ERC2509*	ERC3209*	ERC4009*
11/32"	-	ERC1610*	ERC2010*	ERC2510*	ERC3210	ERC4010
3/8"	-	ERC1611*	ERC2011*	ERC2511*	ERC3211*	ERC4011*
13/32"	-	-	ERC2012*	ERC2512*	ERC3212*	ERC4012*
7/16"	-	-	ERC2013*	ERC2513*	ERC3213*	ERC4013*
1/2"	-	-	ERC2014*	ERC2514*	ERC3214	ERC4014
17/32"	-	-	-	ERC2515*	ERC3215	ERC4015
9/16"	-	-	-	ERC2516*	ERC3216*	ERC4016*
5/8"	-	-	-	-	ERC3217*	ERC4017*
21/32"	-	-	-	-	ERC3218	ERC4018
11/16"	-	-	-	-	ERC3219*	ERC4019*
3/4"	-	-	-	-	ERC3220*	ERC4020*
25/32"	-	-	-	-	-	ERC4021
13/16"	-	-	-	-	-	ERC4022*
27/32"	-	-	-	-	-	ERC4023
7/8"	-	-	-	-	-	ERC4024*
15/16"	-	-	-	-	-	ERC4025*
31/32"	-	-	-	-	-	ERC4026
1"	-	-	-	-	-	ERC4027*

• 1 per pack

METRIC SIZES

*Sizes are included in sets.

NOMINAL SIZE	COLLET RANGE		ER-11	ER-16	ER-20	ER-25	ER-32	ER-40
	MM	INCH	STOCK #	STOCK #	STOCK #	STOCK #	STOCK #	STOCK #
1	1 - 0.5	.019 - .039	ERCM1101*	ERCM1601*	-	-	-	-
2	2 - 1	.039 - .078	ERCM1102*	ERCM1602*	ERCM2002	-	-	-
3	3 - 2	.078 - .118	ERCM1103*	ERCM1603*	ERCM2003*	ERCM2503	ERCM3203*	-
4	4 - 3	.118 - .157	ERCM1104*	ERCM1604*	ERCM2004*	ERCM2504*	ERCM3204*	ERCM4004*
5	5 - 4	.157 - .196	ERCM1105*	ERCM1605*	ERCM2005*	ERCM2505*	ERCM3205*	ERCM4005*
6	6 - 5	.196 - .236	ERCM1106*	ERCM1606*	ERCM2006*	ERCM2506*	ERCM3206*	ERCM4006*
7	7 - 6	.236 - .275	ERCM1107*	ERCM1607*	ERCM2007*	ERCM2507*	ERCM3207*	ERCM4007*
8	8 - 7	.275 - .314	-	ERCM1608*	ERCM2008*	ERCM2508*	ERCM3208*	ERCM4008*
9	9 - 8	.314 - .354	-	ERCM1609*	ERCM2009*	ERCM2509*	ERCM3209*	ERCM4009*
10	10 - 9	.354 - .393	-	ERCM1610*	ERCM2010*	ERCM2510*	ERCM3210*	ERCM4010*
11	11 - 10	.393 - .433	-	-	-	ERCM2511*	ERCM3211*	ERCM4011*
12	12 - 11	.433 - .472	-	-	ERCM2012*	ERCM2512*	ERCM3212*	ERCM4012*
13	13 - 12	.472 - .511	-	-	ERCM2013*	ERCM2513*	ERCM3213*	ERCM4013*
14	14 - 13	.511 - .551	-	-	-	ERCM2514*	ERCM3214*	ERCM4014*
15	15 - 14	.551 - .590	-	-	-	ERCM2515*	ERCM3215*	ERCM4015*
16	16 - 15	.590 - .629	-	-	-	ERCM2516*	ERCM3216*	ERCM4016*
17	17 - 16	.629 - .669	-	-	-	-	ERCM3217*	ERCM4017*
18	18 - 17	.669 - .708	-	-	-	-	ERCM3218*	ERCM4018*
19	19 - 18	.708 - .748	-	-	-	-	ERCM3219*	ERCM4019*
20	20 - 19	.748 - .787	-	-	-	-	ERCM3220*	ERCM4020*
21	21 - 20	.787 - .826	-	-	-	-	-	ERCM4021*
22	22 - 21	.826 - .866	-	-	-	-	-	ERCM4022*
23	23 - 22	.866 - .905	-	-	-	-	-	ERCM4023*
24	24 - 23	.905 - .944	-	-	-	-	-	ERCM4024*
25	25 - 24	.944 - .984	-	-	-	-	-	ERCM4025*
26	26 - 25	.984 - 1.023	-	-	-	-	-	ERCM4026*

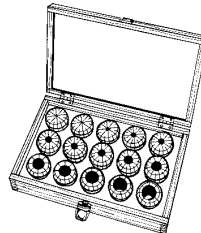
• 1 per pack

*Sizes are included in sets.

ER COLLET SETS

INCH SIZES

ER No.	NOS. IN SET	STOCK #
ER-11	7 Pc.	ERC1115*
ER-16	7 Pc.	ERC1615*
ER-20	10 Pc.	ERC2015*
ER-25	12 Pc.	ERC2525*
ER-32	11 Pc.	ERC3225*
ER-40	15 Pc.	ERC4035*



METRIC SIZES

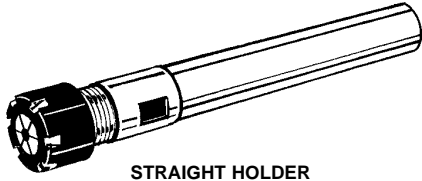
ER No.	NOS. IN SET	STOCK #
ER-11	7 Pc.	ERCM1115
ER-16	10 Pc.	ERCM1615
ER-20	11 Pc.	ERCM2015
ER-25	13 Pc.	ERCM2525
ER-32	18 Pc.	ERCM3225
ER-40	23 Pc.	ERCM4035



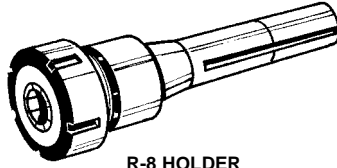
*Sizes in Set

C
ER Spring Collets

ER COLLET HOLDERS & KITS

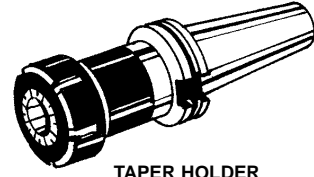


STRAIGHT HOLDER



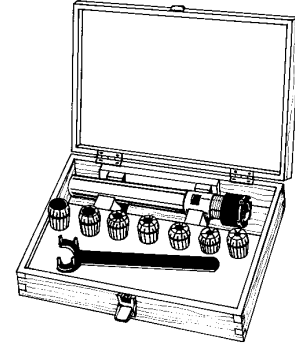
R-8 HOLDER

NEW

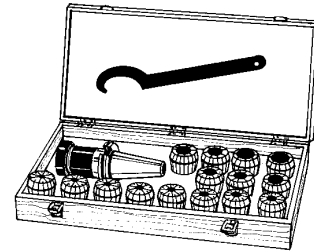


TAPER HOLDER

COLLET SIZE	SHANK SIZE	STOCK #			
		NUT	WRENCH	HOLDER	KIT
ER-11	Straight 1/2 x 6	ERN11	ERW11	ERH1105	ERK1115
	Straight 5/8 x 6			ERH1106	ERK1116
ER-16	Straight 5/8 x 6	ERN16	ERW16	ERH1606	ERK1616
	Straight 3/4 x 6-1/2			ERH1607	ERK1617
ER-20	Straight 3/4 x 5-1/2	ERN20	ERW20	ERH2007	ERK2017
	Straight 1 x 5-1/2			ERH2009	ERK2019
ER-25	Straight 3/4 x 6-1/2	ERN25	ERW25	ERH2503	ERK2513
	Straight 1 x 6-1/2			ERH2505	ERK2515
ER-32	R8 x 6-1/4	ERN32	ERW32	ERH3008	ERK3108
	NMTB 30 x 5-1/16			ERH3030	ERK3130
	NMTB 40 x 6-1/16			ERH3040	ERK3140
	MT-3 x 6-1/16			ERH3003	ERK3103
	Straight 1 x 3-3/4			ERH3001	ERK3101
ER-40	R8 x 6-1/2	ERN40	ERW40	ERH4008	ERK4108
	NMTB 40 x 6-1/16			ERH4040	ERK4140
	NMTB 50 x 7-3/4			ERH4050	ERK4150
	Straight 1 x 4-1/2			ERH4001	ERK4101
	Straight 1-1/4 x 4-3/4			ERH4002	ERK4102



ERK1616



ERK4140

• 1 per pack

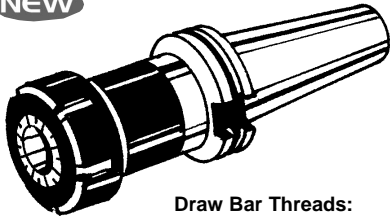
C

ER Collet Holders & Kits

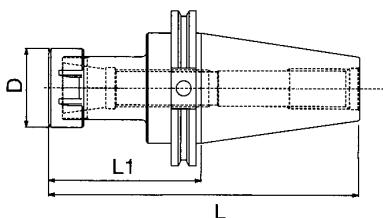
CATERPILLAR V-FLANGE ER COLLET CHUCKS

COMPLETELY INTERCHANGEABLE WITH ER COLLETS

NEW



Draw Bar Threads:
CAT-40 5/8" - 11
CAT-50 1" - 8



- Produced accordingly to AT3 specifications.
- Collet seat taper T.I.R.<.0002".
- Made of alloy forged steel for long, durable service life.
- Hardened to RC 56-60 and ground to ensure maximum accuracy.
- Through spindle coolant capability.
- Retention Knobs are sold separately.

Taper No.	ER Collet No.	Collet Clamping Range	d	L1	L	STOCK #		
						NUT	WRENCH	CHUCK
40	ER16	1/8 - 7/16	1.26	2.5	5.20	CT4016N	CT4016W	CT40415
				3	5.70			CT40417
	ER25	1/8 - 5/8	1.65	2.5	5.20	CT4025N	CT4025W	CT40424
				4	6.70			CT40426
	ER32	1/8 - 3/4	1.97	3	5.70	CT4032N	CT4032W	CT40431
				4	6.70			CT40433
	ER40	1/8 - 1	2.50	4	6.70	CT4040N	CT4040W	CT40440
					8.00			CT50450
50	ER40	1/8 - 1	2.50	4	8.00	CT5040N	CT5040W	CT50450

• Pack: Individually tubed



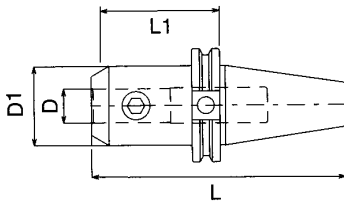
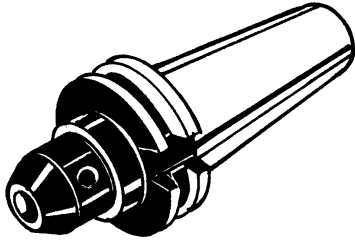
CATERPILLAR V-FLANGE HOLDERS

CAT-40 END MILL HOLDERS

Draw Bar Threads: 5/8" - 11

- Produced accordingly to AT3 specifications.
- Made of alloy forged steel for long, durable service life.
- Hardened to RC 56-60 and ground to ensure maximum accuracy.
- End Mill Socket T.I.R.<.0002".
- Through spindle coolant capability.
- Retention Knobs are available separately.

NEW



Taper No.	D	L1	L	D1	SET SCREW		HOLDER STOCK #
					THREAD	STOCK #	
40	3/16	2-1/2	5-3/16	3/4	1/4-28 x 5/16	CT40108	CT40411
	1/4	2-1/2	5-3/16	13/16	1/4-28 x 1/4	CT40110	CT404113
	1/4	4	6-11/16	13/16	1/4-28 x 1/4	CT40110	CT404114
	5/16	2-1/2	5-3/16	7/8	5/16-24 x 1/4	CT40120	CT404115
	5/16	4	6-11/16	7/8	5/16-24 x 1/4	CT40120	CT404117
	3/8	2-1/2	5-3/16	1-3/8	3/8-24 x 25/64	CT40210	CT40412
	3/8	5	7-11/16	1-3/8	3/8-24 x 25/64	CT40210	CT404122
	7/16	2-1/2	5-3/16	1-1/4	3/8-24 x 5/16	CT40215	CT404123
	1/2	2-5/8	5-5/16	1-3/4	7/16-20 x 5/8	CT40301	CT40413
	1/2	5	7-11/16	1-3/4	7/16-20 x 5/8	CT40301	CT40417A
	5/8	3-3/4	6-7/16	1-3/4	9/16-18 x 15/32	CT40412A	CT40431A
	5/8	5-1/2	8-3/16	1-3/4	9/16-18 x 15/32	CT40412A	CT40437
	3/4	3-3/4	6-7/16	1-3/4	5/8-18 x 1/2	CT40513	CT40441
	3/4	5-1/2	8-3/16	1-3/4	5/8-18 x 1/2	CT40513	CT40447
	7/8	4	6-11/16	2-3/64	5/8-18 x 19/32	CT40517	CT40451
	1	4	6-11/16	2-31/64	3/4-16 x 45/64	CT40618	CT40461
	1-1/4	4-1/8	6-15/16	2-3/4	3/4-16 x 45/64	CT40618	CT40471
	1-1/4	6	8-11/16	2-3/4	3/4-16 x 45/64	CT40618	CT40475
	1-1/2	4-5/8	7-5/16	3-9/64	3/4-16 x 25/32	CT40621	CT40481
	1-1/2	6	8-11/16	3-9/64	3/4-16 x 25/32	CT40621	CT40485

• Pack: Individually tubed

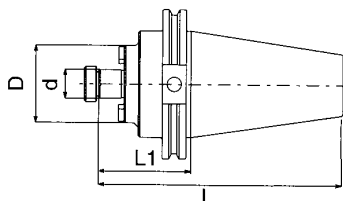
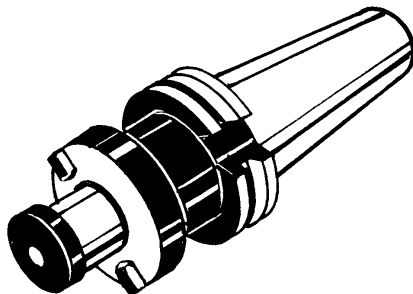
CAT-40 Holders

CAT-40 SHELL END & FACE MILL HOLDERS

Draw Bar Threads: 5/8" - 11

- Produced accordingly to AT3 specifications.
- Made of alloy forged steel for long, durable service life.
- Hardened to RC 56-60 and ground to ensure maximum accuracy.
- End Mill Socket T.I.R.<.0002".
- Through spindle coolant capability.
- Retention Knobs are available separately.

NEW



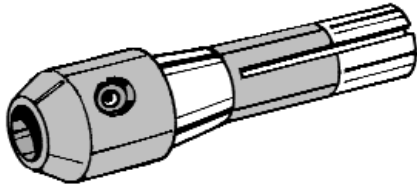
Taper No.	d No.	L1	L	L2	D2	SET SCREW		HOLDER STOCK #
						THREAD	STOCK #	
40	1/2	1-3/8	4-5/8	9/16	1-3/8	1/4-28	CT40005	CT40403
	3/4	1-3/8	4-3/4	11/16	1-49/64	3/8-24	CT40010	CT40405
	1	2-1/16	5-7/16	11/16	2-11/64	1/2-20	CT40015	CT40407
	1-1/4	2-1/8	5-1/2	11/16	2-33/64	5/8-18	CT40020	CT40409
	1-1/2	2-13/16	6-1/32	15/16	3-5/64	3/4-16	CT40025	CT40411A

• Pack: Individually tubed

CAT-50 Holders not shown above, are also available.



R8 END MILL HOLDERS



- Made of alloy forged steel for long, durable service.
- Hardened to RC 56-60 and ground to ensure maximum accuracy.
- End Mill Socket T.I.R. <.0004".
- Sets available in fitted wooden case.

END MILL HOLDERS WITH R8 SHANK

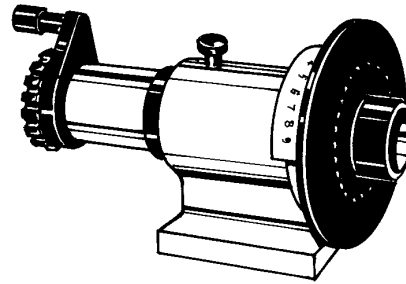
NEW

SHANK	HOLE DIA.	SET SCREW		HOLDER
		THREAD	STOCK #	STOCK #
R8	3/16	1/4-28 x 5/16	RH95108	RH6005
	1/4	1/4-28 x 1/4	RH95110	RH6007
	3/8	3/8-24 x 25/64	RH95210	RH6010
	1/2	7/16-24 x 15/32	RH95312	RH6015
	5/8	9/16-18 x 15/32	RH95412	RH6020
	3/4	5/8-18 x 33/64	RH95513	RH6025
	7/8	5/8-18 x 33/64	RH95513	RH6030
	1	3/4-16 x 19/32	RH95615	RH6035
	1-1/4	3/4-16 x 5/8	RH95616	RH6040
	1-1/2	3/4-16 x 45/64	RH95618	RH6045
SETS IN WOOD CASE				
R8	5 Pc. Set 3/16" to 3/4"			RH6105
	8 Pc. Set 3/16" to 1-1/4"			RH6108

5C PRECISION INDEXING FIXTURES

T.I.R. 0.0004"

- Ideal for Surface Grinders, Milling Machines, Drill Presses as well as the inspection table..
- Spindle hardened and ground to .0004" T.I.R.
- Base ground parallel to spindle socket 0.0004".
- Hardened and ground indexing plate with 36 ground holes for direct indexing in 10° increments and graduations in 5° increments.
- 10 vernier holes for 1° indexing.
- Center height 2-3/4".
- Base sides ground parallel to spindle axis.
- Accuracy of dividing 10'.



NEW

Indexing Fixture	Weight Lbs.	STOCK #
	15.0	FCF010

