

1013

PAN AMERICAN TOOL CORPORATION

COBALT AIRCRAFT DRILLS
THREADED SHANK ADAPTER DRILLS
DOUBLE MARGIN DRILLS

PAN AMERICAN TOOL CORPORATION

5990 NW 31st Avenue Ft. Lauderdale, Florida 33309-2208

PHONE (954)735-8665 • TOLL FREE 1-800-423-2764 • FAX (954)735-8668

www.panamericantool.com



2013



TERMS AND CONDITIONS

TERMS: Net 10th and 25th.

DELIVERY: F.O.B. our plant, Fort Lauderdale, Florida

CREDIT: On application by rated companies. Visa, MasterCard, American Express, Discover, and IMPAC Cards accepted.

MINIMUM ORDER: Minimum order \$50.00. All prices quoted in U.S. dollars. Overseas shipments available. C.O.D. shipments plus \$9.00.

WARRANTY: Pan American Tool Corporation tools are warranted against all defects in material or workmanship when used for the purpose for which the tool was designed.

CLAIMS: All claims must be made no later than 10 days after receipt of merchandise.

RETURNS: Returns will be accepted prior to the payment date if prior authorization is obtained from Pan American Tool Corporation, the product is in new condition and is in the original package with sales receipt or invoice. Credit will be issued based on customer's purchase price for the returned product, less any applicable restocking charges, freight, or other expenses of return to Pan American Tool Corporation or disposal. Orders that were factory special orders or otherwise fabricated and altered to accommodate customer are not returnable.

Prices subject to change without notice.

WARNING: Always wear proper eye protection when working with any cutting tools.

CAGE CODE: ØPFP1

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COBALT AIRCRAFT DRILLS

Cobalt High Speed Steel Jobber Length Drills used for drilling in tough high tensile strength materials like stainless steel, titanium and inconel. Heavy duty flute construction and 135° split points.

WIRE GAUGE NUMBER SIZES 1 - 40

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
1	01-001	.2280	2-5/8	3-7/8	12	\$1.69
2	01-002	.2210	2-5/8	3-7/8	12	1.69
3	01-003	.2130	2-1/2	3-3/4	12	1.64
4	01-004	.2090	2-1/2	3-3/4	12	1.64
5	01-005	.2055	2-1/2	3-3/4	12	1.59
6	01-006	.2040	2-1/2	3-3/4	12	1.59
7	01-007	.2010	2-7/16	3-5/8	12	1.49
8	01-008	.1990	2-7/16	3-5/8	12	1.49
9	01-009	.1960	2-7/16	3-5/8	12	1.49
10	01-010	.1935	2-7/16	3-5/8	12	1.40
11	01-011	.1910	2-5/16	3-1/2	12	1.40
12	01-012	.1890	2-5/16	3-1/2	12	1.40
13	01-013	.1850	2-5/16	3-1/2	12	1.33
14	01-014	.1820	2-3/16	3-3/8	12	1.33
15	01-015	.1800	2-3/16	3-3/8	12	1.33
16	01-016	.1770	2-3/16	3-3/8	12	1.28
17	01-017	.1730	2-3/16	3-3/8	12	1.28
18	01-018	.1695	2-1/8	3-1/4	12	1.20
19	01-019	.1660	2-1/8	3-1/4	12	1.18
20	01-020	.1610	2-1/8	3-1/4	12	1.10
21	01-021	.1590	2-1/8	3-1/4	12	1.10
22	01-022	.1570	2	3-1/8	12	1.15
23	01-023	.1540	2	3-1/8	12	1.15
24	01-024	.1520	2	3-1/8	12	1.15
25	01-025	.1495	1-7/8	3	12	1.05
26	01-026	.1470	1-7/8	3	12	1.05
27	01-027	.1440	1-7/8	3	12	1.04
28	01-028	.1405	1-3/4	2-7/8	12	1.00
29	01-029	.1360	1-3/4	2-7/8	12	.96
30	01-030	.1285	1-5/8	2-3/4	12	.89
31	01-031	.1200	1-5/8	2-3/4	12	.89
32	01-032	.1160	1-5/8	2-3/4	12	.90
33	01-033	.1130	1-1/2	2-5/8	12	.90
34	01-034	.1110	1-1/2	2-5/8	12	.90
35	01-035	.1100	1-1/2	2-5/8	12	.90
36	01-036	.1065	1-7/16	2-1/2	12	.90
37	01-037	.1040	1-7/16	2-1/2	12	.90
38	01-038	.1015	1-7/16	2-1/2	12	.81
39	01-039	.0995	1-3/8	2-3/8	12	.81
40	01-040	.0980	1-3/8	2-3/8	12	.80

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WIRE GAUGE NUMBER SIZES 41 - 80

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
41	01-041	.0960	1-3/8	2-3/8	12	\$.83
42	01-042	.0935	1-1/4	2-1/4	12	.83
43	01-043	.0890	1-1/4	2-1/4	12	.83
44	01-044	.0860	1-1/8	2-1/8	12	.83
45	01-045	.0820	1-1/8	2-1/8	12	.83
46	01-046	.0810	1-1/8	2-1/8	12	.83
47	01-047	.0785	1	2	12	.83
48	01-048	.0760	1	2	12	.83
49	01-049	.0730	1	2	12	.83
50	01-050	.0700	1	2	12	.83
51	01-051	.0670	1	2	12	.83
52	01-052	.0635	7/8	1-7/8	12	.83
53*	01-053	.0595	7/8	1-7/8	12	.85
54*	01-054	.0550	7/8	1-7/8	12	.85
55*	01-055	.0520	7/8	1-7/8	12	.85
56*	01-056	.0465	3/4	1-3/4	12	.85
57*	01-057	.0430	3/4	1-3/4	12	.85
58*	01-058	.0420	11/16	1-5/8	12	.85
59*	01-059	.0410	11/16	1-5/8	12	.85
60*	01-060	.0400	11/16	1-5/8	12	.85
61*	01-061	.0390	11/16	1-5/8	12	1.04
62*	01-062	.0380	5/8	1-1/2	12	1.04
63*	01-063	.0370	5/8	1-1/2	12	1.04
64*	01-064	.0360	5/8	1-1/2	12	1.04
65*	01-065	.0350	5/8	1-1/2	12	1.04
66*	01-066	.0330	1/2	1-3/8	12	1.12
67*	01-067	.0320	1/2	1-3/8	12	1.12
68*	01-068	.0310	1/2	1-3/8	12	1.12
69*	01-069	.0292	1/2	1-3/8	12	1.12
70*	01-070	.0280	3/8	1-1/4	12	1.12
71*	01-071	.0260	3/8	1-1/4	12	1.12
72*	01-072	.0250	5/16	1-1/8	12	1.12
73*	01-073	.0240	5/16	1-1/8	12	1.12
74*	01-074	.0225	1/4	1	12	1.12
75*	01-075	.0210	1/4	1	12	1.25
76*	01-076	.0200	3/16	7/8	12	1.25
77*	01-077	.0180	3/16	7/8	12	1.25
78*	01-078	.0160	3/16	7/8	12	1.25
79*	01-079	.0145	1/8	3/4	12	1.40
80*	01-080	.0135	1/8	3/4	12	1.40

*NON SPLIT POINT



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FRACTIONAL SIZES

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
1/64*	02-060	.0156	3/16	3/4	12	\$1.46
1/32*	02-058	.0312	1/2	1-3/8	12	1.06
3/64*	02-059	.0469	3/4	1-3/4	12	1.06
1/16	02-061	.0625	7/8	1-7/8	12	.76
5/64	02-062	.0781	1	2	12	.75
3/32	02-063	.0938	1-1/4	2-1/4	12	.75
7/64	02-064	.1094	1-1/2	2-5/8	12	.87
1/8	02-065	.1250	1-5/8	2-3/4	12	.91
9/64	02-066	.1406	1-3/4	2-7/8	12	.98
5/32	02-067	.1562	2	3-1/8	12	1.13
11/64	02-068	.1719	2-1/8	3-1/4	12	1.23
3/16	02-069	.1875	2-5/16	3-1/2	12	1.25
13/64	02-070	.2031	2-7/16	3-5/8	12	1.50
7/32	02-071	.2188	2-1/2	3-3/4	12	1.60
15/64	02-072	.2344	2-5/8	3-7/8	12	1.75
1/4	02-073	.2500	2-3/4	4	12	1.85
17/64	02-074	.2656	2-7/8	4-1/8	12	2.31
9/32	02-075	.2812	2-15/16	4-1/4	12	2.43
19/64	02-076	.2969	3-1/16	4-3/8	12	2.70
5/16	02-077	.3125	3-3/16	4-1/2	12	2.75
21/64	02-078	.3281	3-5/16	4-5/8	6	3.07
11/32	02-079	.3438	3-7/16	4-3/4	6	3.26
23/64	02-080	.3594	3-1/2	4-7/8	6	3.59
3/8	02-081	.3750	3-5/8	5	6	3.92
25/64	02-082	.3906	3-3/4	5-1/8	6	4.35
13/32	02-083	.4062	3-7/8	5-1/4	6	4.73
27/64	02-084	.4219	3-15/16	5-3/8	6	5.21
7/16	02-085	.4375	4-1/16	5-1/2	6	5.33
29/64	02-086	.4531	4-3/16	5-5/8	6	6.35
15/32	02-087	.4688	4-5/16	5-3/4	6	6.56
31/64	02-088	.4844	4-3/8	5-7/8	6	6.69
1/2	02-089	.5000	4-1/2	6	6	6.56

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LETTER SIZES

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
A	03-090	.2340	2-5/8	3-7/8	12	\$2.02
B	03-091	.2380	2-3/4	4	12	2.21
C	03-092	.2420	2-3/4	4	12	2.21
D	03-093	.2460	2-3/4	4	12	2.21
E	03-094	.2500	2-3/4	4	12	1.85
F	03-095	.2570	2-7/8	4-1/8	12	2.31
G	03-096	.2610	2-7/8	4-1/8	12	2.31
H	03-097	.2660	2-7/8	4-1/8	12	2.43
I	03-098	.2720	2-7/8	4-1/8	12	2.55
J	03-099	.2770	2-7/8	4-1/8	12	2.65
K	03-100	.2810	2-15/16	4-1/4	12	2.65
L	03-101	.2900	2-15/16	4-1/4	12	2.87
M	03-102	.2950	3-1/16	4-3/8	12	3.10
N	03-103	.3020	3-1/16	4-3/8	12	3.25
O	03-104	.3160	3-3/16	4-1/2	12	3.25
P	03-105	.3230	3-5/16	4-5/8	6	3.50
Q	03-106	.3320	3-7/16	4-3/4	6	3.60
R	03-107	.3390	3-7/16	4-3/4	6	3.76
S	03-108	.3480	3-1/2	4-7/8	6	4.30
T	03-109	.3580	3-1/2	4-7/8	6	4.30
U	03-110	.3680	3-5/8	5	6	4.53
V	03-111	.3770	3-5/8	5	6	5.05
W	03-112	.3860	3-3/4	5-1/8	6	5.40
X	03-113	.3970	3-3/4	5-1/8	6	5.40
Y	03-114	.4040	3-7/8	5-1/4	6	5.80
Z	03-115	.4130	3-7/8	5-1/4	6	6.05



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COBALT AIRCRAFT EXTENSION DRILLS

Cobalt High Speed Steel Drills used for drilling in tough high tensile strength materials like stainless steel, titanium and inconel. Heavy duty flute construction and 135° split points. Extra length for hard to reach holes.

6" OVERALL LENGTH: WIRE SIZES 1 - 52

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
1	05-200	.2280	2-5/8	12	\$2.95
2	05-201	.2210	2-5/8	12	2.95
3	05-202	.2130	2-1/2	12	2.73
4	05-203	.2090	2-1/2	12	2.73
5	05-204	.2055	2-1/2	12	2.65
6	05-205	.2040	2-1/2	12	2.60
7	05-206	.2010	2-7/16	12	2.55
8	05-207	.1990	2-7/16	12	2.40
9	05-208	.1960	2-7/16	12	2.69
10	05-209	.1935	2-7/16	12	2.19
11	05-210	.1910	2-5/16	12	2.19
12	05-211	.1890	2-5/16	12	2.61
13	05-212	.1850	2-5/16	12	2.35
14	05-213	.1820	2-3/16	12	2.61
15	05-214	.1800	2-3/16	12	2.61
16	05-215	.1770	2-3/16	12	2.33
17	05-216	.1730	2-3/16	12	2.61
18	05-217	.1695	2-1/8	12	2.61
19	05-218	.1660	2-1/8	12	2.35
20	05-219	.1610	2-1/8	12	2.08
21	05-220	.1590	2-1/8	12	2.08
22	05-221	.1570	2	12	2.49
23	05-222	.1540	2	12	2.49
24	05-223	.1520	2	12	2.49
25	05-224	.1495	1-7/8	12	2.49
26	05-225	.1470	1-7/8	12	2.49
27	05-226	.1440	1-7/8	12	2.35
28	05-227	.1405	1-3/4	12	2.49
29	05-228	.1360	1-3/4	12	2.09
30	05-229	.1285	1-5/8	12	1.79
31	05-230	.1200	1-5/8	12	2.49
32	05-231	.1160	1-5/8	12	2.49
33	05-232	.1130	1-1/2	12	2.49
34	05-233	.1110	1-1/2	12	2.49
35	05-234	.1100	1-1/2	12	2.49
36	05-235	.1065	1-7/16	12	2.49
37	05-236	.1040	1-7/16	12	2.49
40	05-239	.0980	1-3/8	12	1.75
41	05-240	.0960	1-3/8	12	2.49
42	05-241	.0935	1-1/4	12	3.31
43	05-242	.0890	1-1/4	12	3.31
44	05-243	.0860	1-1/8	12	3.31
45	05-244	.0820	1-1/8	12	3.31
46	05-245	.0810	1-1/8	12	3.31
47	05-246	.0785	1	12	3.31
48	05-247	.0760	1	12	3.20
49	05-248	.0730	1	12	3.20
50	05-249	.0700	1	12	2.19
51	05-250	.0670	1	12	3.20
52	05-251	.0635	7/8	12	3.20

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6" OVERALL LENGTH: FRACTIONAL SIZES

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
1/16	04-100	.0625	7/8	12	\$ 2.25
5/64	04-101	.0781	1	12	2.31
3/32	04-102	.0938	1-1/4	12	1.95
7/64	04-103	.1094	1-1/2	12	1.95
1/8	04-104	.1250	1-5/8	12	1.85
9/64	04-105	.1406	1-3/4	12	2.25
5/32	04-106	.1562	2	12	2.10
11/64	04-107	.1719	2-1/8	12	2.39
3/16	04-108	.1875	2-5/16	12	2.29
13/64	04-109	.2031	2-7/16	12	2.61
7/32	04-110	.2188	2-1/2	12	2.78
15/64	04-111	.2344	2-5/8	12	3.05
1/4	04-112	.2500	2-3/4	12	2.99
17/64	04-125	.2656	2-7/8	12	5.15
9/32	04-114	.2812	2-15/16	12	6.16
19/64	04-116	.2969	3-1/16	6	6.55
5/16	04-115	.3125	3-3/16	6	5.07
21/64	04-121	.3281	3-5/16	6	6.70
11/32	04-120	.3438	3-7/16	6	8.41
23/64	04-124	.3594	3-1/2	6	8.87
3/8	04-113	.3750	3-5/8	6	8.45
25/64	04-118	.3906	3-3/4	6	9.30
13/32	04-119	.4062	3-7/8	6	9.04
27/64	04-126	.4219	3-15/16	6	9.90
7/16	04-117	.4375	4-1/16	6	10.10

6" OVERALL LENGTH: LETTER SIZES

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
B	06-418	.2380	2-3/4	6	\$6.38
C	06-408	.2420	2-3/4	6	6.38
D	06-403	.2460	2-3/4	6	3.05
F	06-402	.2570	2-7/8	6	3.65
G	06-401	.2610	2-7/8	6	3.75
I	06-413	.2720	2 7/8	6	6.47
J	06-404	.2770	2-7/8	6	6.47
K	06-405	.2810	2-15/16	6	6.80
M	06-409	.2950	3-1/16	6	6.95
N	06-410	.3020	3-1/16	6	6.95
U	06-407	.3680	3-5/8	6	7.98
W	06-416	.3860	3-3/4	6	12.90

COBALT AIRCRAFT EXTENSION DRILLS

Cobalt High Speed Steel Drills used for drilling in tough high tensile strength materials like stainless steel, titanium and inconel. Heavy duty flute construction and 135° split points. Extra length for hard to reach holes.

12" OVERALL LENGTH: WIRE SIZES 1 - 52



DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
1	07-401	.2280	2-5/8	6	\$6.33
2	07-402	.2210	2-5/8	6	6.33
3	07-403	.2130	2-1/2	6	4.40
4	07-404	.2090	2-1/2	6	6.18
5	07-405	.2055	2-1/2	6	4.45
6	07-406	.2040	2-1/2	6	4.40
7	07-407	.2010	2-7/16	6	4.40
8	07-408	.1990	2-7/16	6	4.17
9	07-409	.1960	2-7/16	6	6.09
10	07-410	.1935	2-7/16	12	4.00
11	07-411	.1910	2-5/16	12	4.00
12	07-412	.1890	2-5/16	12	4.00
13	07-413	.1850	2-5/16	12	4.00
14	07-414	.1820	2-5/16	12	4.98
15	07-415	.1800	2-3/16	12	4.00
16	07-416	.1770	2-3/16	12	3.80
17	07-417	.1730	2-3/16	12	5.28
18	07-418	.1695	2-1/8	12	5.28
19	07-419	.1660	2-1/8	12	3.80
20	07-420	.1610	2-1/8	12	3.70
21	07-421	.1590	2-1/8	12	3.70
22	07-422	.1570	2	12	4.00
23	07-423	.1540	2	12	4.80
24	07-424	.1520	2	12	4.80
25	07-425	.1495	1-7/8	12	4.80
26	07-426	.1470	1-7/8	12	4.80
27	07-427	.1440	1-7/8	12	3.70
28	07-428	.1405	1-3/4	12	4.75
29	07-429	.1360	1-3/4	12	4.00
30	07-430	.1285	1-5/8	12	3.43
31	07-431	.1200	1-5/8	12	4.80
32	07-432	.1160	1-5/8	12	4.80
33	07-433	.1130	1-1/2	12	4.80
34	07-434	.1110	1-1/2	12	4.80
35	07-435	.1100	1-1/2	12	4.80
36	07-436	.1065	1-7/16	12	4.80
37	07-437	.1040	1-7/16	12	4.80
38	07-438	.1015	1-7/16	12	4.80
39	07-439	.0995	1-3/8	12	4.80
40	07-440	.0980	1-3/8	12	3.55
41	07-441	.0960	1-3/8	12	4.53
42	07-442	.0935	1-1/4	12	4.53
43	07-443	.0890	1-1/4	12	4.53
44	07-444	.0860	1 1/8	12	4.53
45	07-445	.0820	1 1/8	12	4.53
46	07-446	.0810	1 1/8	12	4.53
47	07-447	.0785	1	12	4.53
48	07-448	.0760	1	12	4.53
49	07-449	.0730	1	12	4.53
50	07-450	.0700	1	12	4.53
51	07-451	.0670	1	12	4.53
52	07-452	.0635	7/8	12	4.53

COBALT AIRCRAFT EXTENSION DRILLS

Cobalt High Speed Steel Drills used for drilling in tough high tensile strength materials like stainless steel, titanium and inconel. Heavy duty flute construction and 135° split points. Extra length for hard to reach holes.

12" OVERALL LENGTH: FRACTIONAL SIZES



DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
1/16	06-300	.0625	7/8	12	\$ 4.53
5/64	06-301	.0781	1	12	4.53
3/32	06-302	.0938	1-1/4	12	3.50
7/64	06-303	.1094	1-1/2	12	4.13
1/8	06-304	.1250	1-5/8	12	3.50
9/64	06-305	.1406	1-3/4	12	4.53
5/32	06-306	.1562	2	12	3.70
11/64	06-307	.1719	2-1/8	12	4.50
3/16	06-308	.1875	2-5/16	12	4.00
13/64	06-309	.2031	2-7/16	12	4.90
7/32	06-310	.2188	2-1/2	12	4.70
15/64	06-311	.2344	2-5/8	6	5.81
1/4	06-312	.2500	2-3/4	6	4.65
17/64	06-325	.2656	2-7/8	6	8.10
9/32	06-316	.2812	2-15/16	6	8.00
19/64	06-317	.2969	3-1/16	6	8.40
5/16	06-313	.3125	3-1/16	6	6.95
21/64	06-326	.3281	3-5/16	6	8.93
11/32	06-321	.3438	3-7/16	6	8.98
23/64	06-322	.3594	3-1/2	6	10.03
3/8	06-314	.3750	3-5/8	6	10.50
25/64	06-327	.3906	3-3/4	3	11.10
13/32	06-320	.4062	3-7/8	3	11.65
27/64	06-324	.4219	3-15/16	3	12.33
7/16	06-318	.4375	4-1/16	3	12.48
29/64	06-328	.4531	4-3/16	3	14.55
15/32	06-315	.4688	4-5/16	3	14.85
31/64	06-329	.4844	4-3/8	3	15.03
1/2	06-319	.5000	4-1/2	3	16.52

12" OVERALL LENGTH: LETTER SIZES

LETTER SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
C	06-500	.2420	2-3/4	6	\$5.50
D	06-501	.2460	2-3/4	6	4.90

COBALT AIRCRAFT TYPE D DRILLS

Cobalt High Speed Steel Type D Jobber Length Drills designed for handling the higher thrust loads required when drilling high tensile and heat resistant alloy steels. Jobber length with short flutes, a heavy web and 135° P-9 split points gives the tool more rigidity, eliminating vibration and flexing. This results in a more accurate hole and longer tool life. It is an idea tool for portable drilling applications

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
40	01-040D	.0980	13/16	2-3/8	12	\$.93
30	01-030D	.1285	15/16	2-3/4	12	1.19
21	01-021D	.1590	1-1/16	3-1/4	12	1.25
13	01-013D	.1850	1-1/8	3-1/2	12	1.43
10	01-010D	.1935	1-3/16	3-5/8	12	1.58
1/4	02-073D	.2500	1-3/8	4	12	2.00

COBALT AIRCRAFT STOVE BURNER DRILLS

Cobalt High Speed Steel Jobber Length Drill 135° Split Point designed for tough applications in titanium, stainless, heat treated materials and aluminum alloys. They are made with no body clearance (margins) to permit greater edge strength, abrasion resistance, and to improve roundness of the hole

DRILL SIZE	PART NUMBER	DRILL DIAMETER	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
5	13-SB05	.2055	2-1/2	3-3/4	12	\$2.85
6	13-SB06	.2040	2-1/2	3-3/4	12	2.90
8	13-SB08	.1990	2-7/16	3-5/8	12	2.75
10	13-SB10	.1935	2-7/16	3-5/8	12	2.35
11	13-SB11	.1910	2-5/16	3-1/2	12	2.35
12	13-SB12	.1890	2-5/16	3-1/2	12	2.35
13	13-SB13	.1850	2-5/16	3-1/2	12	2.13
15	13-SB15	.1800	2-5/16	3-3/8	12	2.30
16	13-SB16	.1770	2-3/16	3-3/8	12	2.50
20	13-SB20	.1610	2-1/8	3-1/4	12	2.50
21	13-SB21	.1590	2-1/8	3-1/4	12	2.25
27	13-SB27	.1440	1-7/8	3	12	2.35
30	13-SB30	.1285	1-5/8	2-3/4	12	1.69
40	13-SB40	.0980	1-3/8	2-3/8	12	1.55
1/8	13-SB65	.1250	1-5/8	2-3/4	12	2.13
5/32	13-SB67	.1562	2	3-1/8	12	2.20
3/16	13-SB69	.1875	2-5/16	3-1/2	12	2.35
D	13-SB93	.2460	2-3/4	4	12	3.08
1/4	13-SB73	.2500	2-3/4	4	12	3.25
5/16	13-SB77	.3125	3-3/16	4-1/2	12	3.97

OTHER SIZES AVAILABLE, PRICE ON APPLICATION

6" COBALT AIRCRAFT STOVE BURNER DRILLS

Cobalt High Speed Steel Jobber Length Drill designed for tough applications in titanium stainless, heat treated materials and aluminum alloys. They are made with no body clearance (margins) to permit greater edge strength, abrasion resistance, and to improve roundness of the hole



NUMBER SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
5	14-SB05	.2055	2-1/2	12	\$4.92
6	14-SB06	.2040	2-1/2	12	5.73
8	14-SB08	.1990	2-7/16	12	5.80
10	14-SB10	.1935	2-7/16	12	4.52
11	14-SB11	.1910	2-5/16	12	4.52
12	14-SB12	.1890	2-5/16	12	4.52
13	14-SB13	.1850	2-5/16	12	4.39
15	14-SB15	.1800	2-5/16	12	5.35
16	14-SB16	.1770	2-3/16	12	4.41
20	14-SB20	.1610	2-1/8	12	4.15
21	14-SB21	.1590	2-1/8	12	4.10
27	14-SB27	.1440	1-7/8	12	3.95
30	14-SB30	.1285	1-5/8	12	3.80
40	14-SB40	.0980	1-3/8	12	3.75
1/8	14-SB65	.1250	1-5/8	12	4.10
5/32	14-SB67	.1562	2	12	4.25
3/16	14-SB69	.1875	2-5/16	12	4.33
D	14-SB93	.2460	2-3/4	12	5.15
1/4	14-SB73	.2500	2-3/4	6	5.15
5/16	14-SB77	.3125	3-3/16	6	7.60

OTHER SIZES AVAILABLE, CAN BE SUPPLIED WITH PILOTS, PRICE ON APPLICATION



DOUBLE MARGIN DRILLS

Jobber Length Cobalt 135° Split Point

Designed for close tolerance drilling in titanium, stainless, heat treated material and aluminum alloys. When the drill point penetrates enough for the second margin to contact the wall of the hole, the point is stabilized and true cylindrical geometry is established. Smooth accurate holes are produced and reaming can often be eliminated.

NUMBER SIZES



SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
5	13-DM05	.2055	2-1/2	3-3/4	12	\$3.03
6	13-DM06	.2040	2-1/2	3-3/4	12	3.03
8	13-DM08	.1990	2-7/16	3-5/8	12	3.03
10	13-DM10	.1935	2-7/16	3-5/8	12	2.45
11	13-DM11	.1910	2-5/16	3-1/2	12	2.45
12	13-DM12	.1890	2-5/16	3-1/2	12	2.92
---	13-DM70A	.1870	2-5/16	3-1/2	12	3.25
13	13-DM13	.1850	2-5/16	3-1/2	12	2.45
15	13-DM15	.1800	2-3/16	3-3/8	12	2.42
16	13-DM16	.1770	2-3/16	3-3/8	12	1.95
19	13-DM19	.1660	2-1/8	3-1/4	12	2.31
20	13-DM20	.1610	2-1/8	3-1/4	12	1.75
21	13-DM21	.1590	2-1/8	3-1/4	12	1.75
27	13-DM27	.1440	1-7/8	3	12	1.95
30	13-DM30	.1285	1-5/8	2-3/4	12	1.65
40	13-DM40	.0980	1-3/8	2-3/8	12	1.75

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

FRACTIONAL AND LETTER SIZES

SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
3/32	13-DM63	.0938	1-1/4	2-1/4	12	\$2.07
7/64	13-DM64	.1094	1-1/2	2-5/8	12	2.07
1/8	13-DM65	.1250	1-5/8	2-3/4	12	2.20
9/64	13-DM66	.1406	1-3/4	2-7/8	12	2.31
5/32	13-DM67	.1562	2	3-1/8	12	2.31
11/64	13-DM68	.1719	2 -1/8	3-1/4	12	2.42
3/16	13-DM69	.1875	2-5/16	3-1/2	12	3.08
13/64	13-DM70	.2031	2-7/16	3-5/8	12	3.10
7/32	13-DM71	.2188	2-1/2	3-3/4	12	3.14
15/64	13-DM72	.2344	2-5/8	3-7/8	12	3.35
1/4	13-DM73	.2500	2-3/4	4	12	3.05
17/64	13-DM74	.2656	2-7/8	4-1/8	12	3.97
9/32	13-DM75	.2812	2-15/16	4-1/4	12	4.40
5/16	13-DM77	.3125	3-3/16	4-1/2	12	5.17
3/8	13-DM81	.3750	3-5/8	5	6	6.14
A	13-DM90	.2340	2-5/8	3-7/8	12	3.40
D	13-DM93	.2460	2-3/4	4	12	3.85
F	13-DM95	.2570	2-7/8	4-1/8	12	4.02
G	13-DM96	.2610	2-7/8	4-1/8	12	4.07

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

PILOTED DOUBLE MARGIN DRILLS

Jobber Length Cobalt 135° Split Point

Designed for close tolerance drilling in titanium, stainless, heat treated material and aluminum alloys. When the drill point penetrates enough for the second margin to contact the wall of the hole, the point is stabilized and true cylindrical geometry is established. Smooth accurate holes are produced and reaming can often be eliminated.



SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	PILOT DIAMETER	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PILOT LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
30x40	13-100	.1285	.0980	1-5/8	2-3/4	1/4	6	\$ 3.65
27x40	13-106	.1440	.0980	1-7/8	3	1/4	6	4.31
21x40	13-114	.1590	.0980	2-1/8	3-1/4	1/4	6	3.95
21x30	13-107	.1590	.1285	2-1/8	3-1/4	1/4	6	3.95
20x40	13-117	.1610	.0980	2-1/8	3-1/4	1/4	6	3.95
20x30	13-115	.1610	.1285	2-1/8	3-1/4	1/4	6	3.95
16x40	13-118	.1770	.0980	2-3/16	3-3/8	1/4	6	4.41
16x30	13-119	.1770	.1285	2-3/16	3-3/8	1/4	6	3.95
13x40	13-121	.1850	.0980	2-5/16	3-1/2	1/4	6	4.41
13x30	13-128	.1850	.1285	2-5/16	3-1/2	1/4	6	3.95
13x21	13-135	.1850	.1590	2-5/16	3-1/2	1/4	6	4.41
12x40	13-142	.1890	.0980	2-5/16	3-1/2	1/4	6	4.83
12x30	13-149	.1890	.1285	2-5/16	3-1/2	1/4	6	4.83
12x21	13-156	.1890	.1590	2-5/16	3-1/2	1/4	6	4.83
11x30	13-170	.1910	.1285	2-5/16	3-1/2	1/4	6	4.83
11x21	13-163	.1910	.1590	2-5/16	3-1/2	1/4	6	4.83
10x40	13-184	.1935	.0980	2-7/16	3-5/8	1/4	6	4.83
10x30	13-177	.1935	.1285	2-7/16	3-5/8	1/4	6	4.45
10x21	13-191	.1935	.1590	2-7/16	3-5/8	1/4	6	4.45
Dx13	13-205	.2460	.1850	2-3/4	4	5/16	6	5.25
Dx3/16	13-198	.2460	.1875	2-3/4	4	5/16	6	5.25
1/4x30	13-230	.2500	.1285	2-3/4	4	5/16	6	5.36
1/4x21	13-327	.2500	.1590	2-3/4	4	5/16	6	5.36
1/4x11	13-223	.2500	.1910	2-3/4	4	5/16	6	4.95
1/4x10	13-216	.2500	.1935	2-3/4	4	5/16	6	4.95
5/16x1/4	13-244	.3125	.2500	3-3/16	4-1/2	5/16	6	6.30
3/8x1/4	13-250	.3750	.2500	3-5/8	5	3/8	6	10.66
3/8x5/16	13-255	.3750	.3125	3-5/8	5	3/8	6	10.66

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

DOUBLE MARGIN 6" OVERALL LENGTH EXTENSION DRILLS

Cobalt 135° Split Point

Designed for close tolerance drilling in titanium, stainless, heat treated material and aluminum alloys. When the drill point penetrates enough for the second margin to contact the wall of the hole, the point is stabilized and true cylindrical geometry is established. Smooth accurate holes are produced and reaming can often be eliminated.



NUMBER SIZES

SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
5	14-DM05	.2055	2-1/2	6	6	\$4.99
6	14-DM06	.2040	2-1/2	6	6	4.99
8	14-DM08	.1990	2-7/16	6	6	4.99
10	14-DM10	.1935	2-7/16	6	6	4.88
11	14-DM11	.1910	2-5/16	6	6	4.88
12	14-DM12	.1890	2-5/16	6	6	4.88
13	14-DM13	.1850	2-3/16	6	6	4.88
15	14-DM15	.1800	2-3/16	6	6	4.41
16	14-DM16	.1770	2-3/16	6	6	4.31
19	14-DM19	.1660	2-1/8	6	6	4.31
20	14-DM20	.1610	2-1/8	6	6	4.10
21	14-DM21	.1590	2-1/8	6	6	4.10
27	14-DM27	.1440	1-7/8	6	6	4.20
30	14-DM30	.1285	1-5/8	6	6	3.94
40	14-DM40	.0980	1-3/8	6	6	3.99

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION
PILOTED EXTENSIONS AVAILABLE, PRICE ON APPLICATION

FRACTIONAL AND LETTER SIZES

SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
3/32	14-DM63	.0938	1-1/4	6	6	\$4.60
7/64	14-DM64	.1094	1-1/2	6	6	4.07
1/8	14-DM65	.1250	1-5/8	6	6	4.20
9/64	14-DM66	.1406	1-3/4	6	6	4.31
5/32	14-DM67	.1562	2	6	6	4.31
11/64	14-DM68	.1719	2-1/8	6	6	4.41
3/16	14-DM69	.1875	2-5/16	6	6	5.04
7/32	14-DM71	.2188	2-1/2	6	6	5.09
1/4	14-DM73	.2500	2-3/4	6	6	5.57
5/16	14-DM77	.3125	3-3/16	6	6	8.09
3/8	14-DM81	.3750	3-5/8	6	6	9.00
D	14-DM93	.2460	2-3/4	6	6	9.00
F	14-DM95	.2570	2-7/8	6	6	9.35
G	14-DM96	.2610	2-7/8	6	6	9.35

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION
PILOTED EXTENSIONS AVAILABLE, PRICE ON APPLICATION

PILOTED DOUBLE MARGIN DRILLS - HI LOK® SIZES

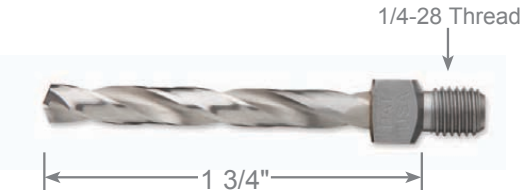
PART NUMBER	DECIMAL EQUIVALENT INCHES	PILOT DIAMETER	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PILOT LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
13-400	.2000	.1870	2-7/16	3-5/8	1/4	6	\$6.50
13-410	.2158	.2000	2-5/8	3-3/4	1/4	6	6.50
13-420	.2314	.2158	2-3/4	4	1/4	6	6.50
13-430	.2470	.2314	2-3/4	4	5/16	6	6.50
13-440	.2621	.2470	2-7/8	4-1/8	5/16	6	6.50
13-450	.2782	.2621	2-15/16	4-1/4	5/16	6	6.50

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

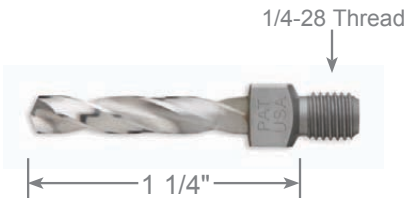
COBALT THREADED SHANK DOUBLE MARGIN DRILLS

Designed for close tolerance drilling in titanium, stainless, heat treated material and aluminum alloys. When the drill point penetrates enough for the second margin to contact the wall of the hole, the point is stabilized and true cylindrical geometry is established. Smooth accurate holes are produced and reaming can often be eliminated.

SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	OVERALL LENGTH INCHES	UNIT PRICE
40	15-DM40	.0980	1-3/4	\$4.75
30	15-DM30	.1285	1-3/4	4.85
27	15-DM27	.1440	1-3/4	6.17
21	15-DM21	.1590	1-3/4	5.15
20	15-DM20	.1610	1-3/4	5.25
16	15-DM16	.1770	1-3/4	6.58
13	15-DM13	.1850	1-3/4	5.45
12	15-DM12	.1890	1-3/4	6.45
11	15-DM11	.1910	1-3/4	5.75
10	15-DM10	.1935	1-3/4	6.52
8	15-DM08	.1990	1-3/4	6.60
6	15-DM06	.2040	1-3/4	6.70
1/8	15-DM65	.1250	1-3/4	5.75
5/32	15-DM67	.1562	1-3/4	5.85
3/16	15-DM69	.1875	1-3/4	6.40
1/4	15-DM73	.2500	1-3/4	7.27
D	15-DM93	.2460	1-3/4	7.50



SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	OVERALL LENGTH INCHES	UNIT PRICE
40	16-DM40	.0980	1-1/4	\$4.75
30	16-DM30	.1285	1-1/4	4.85
27	16-DM27	.1440	1-1/4	6.17
21	16-DM21	.1590	1-1/4	6.26
20	16-DM20	.1610	1-1/4	6.43
16	16-DM16	.1770	1-1/4	6.58
13	16-DM13	.1850	1-1/4	6.58
12	16-DM12	.1890	1-1/4	6.45
11	16-DM11	.1910	1-1/4	6.45
10	16-DM10	.1935	1-1/4	6.52
1/4	16-DM73	.2500	1-1/4	7.27
D	16-DM93	.2460	1-1/4	7.50



NOTE: OTHER SIZES AND PILOTED AVAILABLE, PRICE ON APPLICATION



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COBALT AIRCRAFT DRILLS

Cobalt High Speed Steel Jobber Length Drills used for drilling in tough high tensile strength materials like stainless steel, titanium and inconel. Heavy duty flute construction and 135° split points.

METRIC SIZES 1.00 - 5.50 MM

DRILL SIZE MM	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
1.00	08-100	.0394	11/16	1-5/8	10	\$1.30
1.10	08-110	.0433	3/4	1-3/4	10	1.42
1.20	08-120	.0472	7/8	1-7/8	10	1.37
1.30	08-130	.0512	7/8	1-7/8	10	1.37
1.40	08-140	.0551	7/8	1-7/8	10	1.37
1.50	08-150	.0591	7/8	1-7/8	10	1.25
1.60	08-160	.0630	7/8	1-7/8	10	1.37
1.70	08-170	.0669	1	2	10	1.37
1.80	08-180	.0709	1	2	10	1.37
1.90	08-190	.0748	1	2	10	1.37
2.00	08-200	.0787	1	2-1/8	10	1.23
2.10	08-210	.0827	1-1/8	2-1/8	10	1.37
2.20	08-220	.0866	1-1/4	2-1/4	10	1.37
2.30	08-230	.0906	1-1/4	2-1/4	10	1.37
2.40	08-240	.0945	1-3/8	2-3/8	10	1.42
2.50	08-250	.0984	1-3/8	2-3/8	10	1.25
2.60	08-260	.1024	1-7/16	2-1/2	10	1.42
2.70	08-270	.1063	1-7/16	2-1/2	10	1.42
2.80	08-280	.1102	1-1/2	2-5/8	10	1.71
2.90	08-290	.1142	1-5/8	2-3/4	10	1.71
3.00	08-300	.1181	1-5/8	2-3/4	10	1.46
3.10	08-310	.1220	1-5/8	2-3/4	10	1.71
3.20	08-320	.1260	1-5/8	2-3/4	10	1.57
3.30	08-330	.1299	1-3/4	2-7/8	10	1.56
3.40	08-340	.1339	1-3/4	2-7/8	10	1.67
3.50	08-350	.1378	1-3/4	2-7/8	10	1.53
3.60	08-360	.1417	1-7/8	3	10	1.95
3.70	08-370	.1457	1-7/8	3	10	1.95
3.80	08-380	.1496	1-7/8	3	10	1.95
3.90	08-390	.1535	2	3-1/8	10	1.95
4.00	08-400	.1575	2-1/8	3-1/4	10	1.82
4.10	08-410	.1614	2-1/8	3-1/4	10	1.98
4.20	08-420	.1654	2-1/8	3-1/4	10	1.98
4.30	08-430	.1693	2-1/8	3-1/4	10	1.98
4.40	08-440	.1732	2-3/16	3-3/8	10	1.98
4.50	08-450	.1772	2-3/16	3-3/8	10	1.98
4.60	08-460	.1811	2-3/16	3-3/8	10	1.95
4.70	08-470	.1850	2-5/16	3-1/2	10	1.95
4.80	08-480	.1890	2-5/16	3-1/2	10	2.00
4.90	08-490	.1929	2-7/16	3-5/8	10	2.00
5.00	08-500	.1969	2-7/16	3-5/8	10	2.00
5.10	08-510	.2008	2-7/16	3-5/8	10	2.35
5.20	08-520	.2047	2-1/2	3-3/4	10	2.35
5.30	08-530	.2087	2-1/2	3-3/4	10	2.35
5.40	08-540	.2126	2-1/2	3-3/4	10	2.35
5.50	08-550	.2165	2-1/2	3-3/4	10	2.35

COBALT AIRCRAFT DRILLS

Cobalt High Speed Steel Jobber Length Drills used for drilling in tough high tensile strength materials like stainless steel, titanium and inconel. Heavy duty flute construction and 135° split points.

METRIC SIZES 5.60 - 10.00 MM

DRILL SIZE MM	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
5.60	08-560	.2205	2-5/8	3-7/8	10	\$2.90
5.70	08-570	.2244	2-5/8	3-7/8	10	2.90
5.80	08-580	.2283	2-5/8	3-7/8	10	2.90
5.90	08-590	.2323	2-5/8	3-7/8	10	2.90
6.00	08-600	.2362	2-3/4	4	10	2.90
6.10	08-610	.2402	2-3/4	4	10	3.05
6.20	08-620	.2441	2-3/4	4	10	3.05
6.30	08-630	.2480	2-3/4	4	10	3.05
6.40	08-640	.2520	2-7/8	4-1/8	10	3.05
6.50	08-650	.2559	2-7/8	4-1/8	10	3.05
6.60	08-660	.2598	2-7/8	4-1/8	10	3.40
6.70	08-670	.2638	2-7/8	4-1/8	10	3.40
6.80	08-680	.2677	2-7/8	4-1/8	10	3.40
6.90	08-690	.2717	2-7/8	4-1/8	10	3.40
7.00	08-700	.2756	2-7/8	4-1/8	10	3.40
7.10	08-710	.2795	2-15/16	4-1/4	10	4.15
7.20	08-720	.2835	2-15/16	4-1/4	10	4.15
7.30	08-730	.2874	2-15/16	4-1/4	10	4.15
7.40	08-740	.2913	3-1/16	4-3/8	10	4.15
7.50	08-750	.2953	3-1/16	4-3/8	10	4.15
7.60	08-760	.2992	3-1/16	4-3/8	10	4.60
7.70	08-770	.3031	3-1/16	4-1/2	10	4.60
7.80	08-780	.3071	3-1/16	4-1/2	10	4.60
7.90	08-790	.3110	3-1/16	4-1/2	10	4.60
8.00	08-700	.3150	3-1/16	4-1/2	10	4.60
8.10	08-810	.3189	3-5/16	4-5/8	10	4.90
8.20	08-820	.3228	3-5/16	4-5/8	10	4.90
8.30	08-830	.3268	3-5/16	4-5/8	10	4.90
8.40	08-840	.3307	3-7/16	4-3/4	10	4.90
8.50	08-850	.3346	3-7/16	4-3/4	10	4.90
8.60	08-860	.3386	3-7/16	4-3/4	10	5.75
8.70	08-870	.3425	3-7/16	4-3/4	10	5.75
8.80	08-880	.3465	3-1/2	4-7/8	10	5.75
8.90	08-890	.3504	3-1/2	4-7/8	10	5.75
9.00	08-900	.3543	3-1/2	4-7/8	10	5.75
9.10	08-910	.3583	3-1/2	4-7/8	5	6.35
9.20	08-920	.3622	3-5/8	5	5	6.35
9.30	08-930	.3661	3-5/8	5	5	6.35
9.40	08-940	.3701	3-5/8	5	5	6.35
9.50	08-950	.3740	3-5/8	5	5	6.35
9.60	08-960	.3780	3-1/4	5-1/8	5	6.75
9.70	08-970	.3819	3-3/4	5-1/8	5	6.75
9.80	08-980	.3858	3-3/4	5-1/8	5	6.75
9.90	08-990	.3898	3-3/4	5-1/8	5	6.75
10.0	08-1000	.3937	3-3/4	5-1/8	5	6.75



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COBALT SCREW MACHINE DRILLS

High Speed Steel 135°

Screw machine drills designed to use in screw machines or where short drills are required. Ground from solid bright finish for increased accuracy, wear resistance, lubricity, reducing chip welding and galling to improve chip flow in mild steels, soft materials (aluminum, copper, bronze, brass) and nonferrous materials.

NUMBER SIZES 1 - 45

NUMBER SIZE	PART NUMBER	OVERALL LENGTH INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
1	35-101	2-7/16	1-5/16	12	\$2.44
2	35-102	2-7/16	1-5/16	12	2.44
3	35-103	2-3/8	1-1/4	12	2.16
4	35-104	2-3/8	1-1/4	12	2.16
5	35-105	2-3/8	1-1/4	12	2.16
6	35-106	2-3/8	1-1/4	12	2.16
7	35-107	2-1/4	1-3/16	12	2.05
8	35-108	2-1/4	1-3/16	12	1.96
9	35-109	2-1/4	1-3/16	12	1.96
10	35-110	2-1/4	1-3/16	12	1.75
11	35-111	2-1/4	1-3/16	12	1.75
12	35-112	2-1/4	1-3/16	12	1.75
13	35-113	2-3/16	1-1/8	12	1.75
14	35-114	2-3/16	1-1/8	12	1.75
15	35-115	2-3/16	1-1/8	12	1.75
16	35-116	2-3/16	1-1/8	12	1.75
17	35-117	2-3/16	1-1/8	12	1.68
18	35-118	2-1/8	1-1/16	12	1.68
19	35-119	2-1/8	1-1/16	12	1.64
20	35-120	2-1/8	1-1/16	12	1.60
21	35-121	2-1/8	1-1/16	12	1.60
22	35-122	2-1/8	1-1/16	12	1.62
23	35-123	2-1/16	1"	12	1.62
24	35-124	2-1/16	1"	12	1.62
25	35-125	2-1/16	1"	12	1.62
26	35-126	2-1/16	1"	12	1.62
27	35-127	2-1/16	1"	12	1.44
28	35-128	1-15/16	15/16	12	1.44
29	35-129	1-15/16	15/16	12	1.36
30	35-130	1-15/16	15/16	12	1.33
31	35-131	1-7/8	7/8	12	1.33
32	35-132	1-7/8	7/8	12	1.33
33	35-133	1-7/8	7/8	12	1.33
34	35-134	1-7/8	7/8	12	1.33
35	35-135	1-7/8	7/8	12	1.33
36	35-136	1-13/16	13/16	12	1.33
37	35-137	1-13/16	13/16	12	1.33
38	35-138	1-13/16	13/16	12	1.31
39	35-139	1-13/16	13/16	12	1.31
40	35-140	1-13/16	13/16	12	1.17
41	35-141	1-13/16	13/16	12	1.20
42	35-142	1-3/4	3/4	12	1.23
43	35-143	1-3/4	3/4	12	1.23
44	35-144	1-3/4	3/4	12	1.23
45	35-145	1-3/4	3/4	12	1.23



COBALT SCREW MACHINE DRILLS

NUMBER SIZES 46 - 60

NUMBER SIZE	PART NUMBER	OVERALL LENGTH INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
46	35-146	1-3/4	3/4	12	\$1.23
47	35-147	1-3/4	3/4	12	1.23
48	35-148	1-11/16	11/16	12	1.23
49	35-149	1-11/16	11/16	12	1.12
50	35-150	1-11/16	11/16	12	1.12
51	35-151	1-11/16	11/16	12	1.12
52	35-152	1-11/16	11/16	12	1.12
53	35-153	1-5/8	5/8	12	1.12
54	35-154	1-5/8	5/8	12	1.12
55	35-155	1-5/8	5/8	12	1.12
56	35-156	1-3/8	1/2	12	1.12
57	35-157	1-3/8	1/2	12	1.12
58	35-158	1-3/8	1/2	12	1.12
59	35-159	1-3/8	1/2	12	1.12
60	35-160	1-3/8	1/2	12	1.12



FRACTIONAL SIZES

SIZE	PART NUMBER	OVERALL LENGTH INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
1/16	35-061	1-5/8	5/8	12	\$1.00
5/64	35-062	1-11/16	11/16	12	1.00
3/32	35-063	1-3/4	3/4	12	1.00
7/64	35-064	1-13/16	13/16	12	1.09
1/8	35-065	1-7/8	7/8	12	1.25
9/64	35-066	1-15/16	15/16	12	1.33
5/32	35-067	2-1/16	1"	12	1.40
11/64	35-068	2-1/8	1-1/16	12	1.58
3/16	35-069	2-3/16	1-1/8	12	1.83
13/64	35-070	2-1/4	1-3/16	12	2.10
7/32	35-071	2-3/8	1-1/4	12	2.31
15/64	35-072	2-7/16	1-5/16	12	2.46
—	35-073	2-1/2	1-3/8	12	2.70
17/64	35-074	2 5/8	1-7/16	12	2.92
9/32	35-075	2-11/16	1-1/2	12	3.10
19/64	35-076	2-3/4	1-9/16	12	3.81
5/16	35-077	2-13/16	1-5/8	12	4.00
21/64	35-078	2-15/16	1-11/16	6	4.56
11/32	35-079	3	1-11/16	6	5.01
23/64	35-080	3-1/16	1-3/4	6	5.71
3/8	35-081	3-1/8	1-13/16	6	5.71
25/64	35-082	3-1/4	1-7/8	6	6.53
13/32	35-083	3-15/16	1-15/16	6	6.80
27/64	35-084	3-3/8	2"	6	7.67
7/16	35-085	3-7/16	2-1/16	6	7.82
29/64	35-086	3-9/16	2-1/8	6	9.39
15/32	35-087	3-5/8	2-1/8	6	9.52
31/64	35-088	3-11/16	2-3/16	6	9.82
1/2	35-089	3-3/4	2 1/4	6	9.91

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High Speed Steel 135°

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LETTER SIZES

NUMBER SIZE	PART NUMBER	OVERALL LENGTH INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
A	35-201	2-7/16	1 -5/16	12	\$2.68
B	35-202	2-1/2	1-3/8	12	3.01
C	35-203	2-1/2	1-3/8	12	3.01
D	35-204	2-1/2	1-3/8	12	3.07
E	35-205	2-1/2	1-3/8	12	2.49
F	35-206	2-5/8	1-7/16	12	3.07
G	35-207	2-5/8	1-7/16	12	3.10
H	35-208	2-11/16	1-1/2	12	3.23
I	35-209	2-11/16	1-1/2	6	3.27
J	35-210	2-11/16	1-1/2	6	3.40
K	35-211	2-11/16	1-1/2	6	3.47
L	35-212	2-3/4	1-9/16	6	3.84
M	35-213	2-3/4	1-9/16	6	4.19
N	35-214	2-13/16	1-5/8	6	4.29
O	35-215	2-15/16	1-11/16	6	4.73
P	35-216	2-15/16	1-11/16	6	4.86
Q	35-217	3	1-11/16	6	4.90
R	35-218	3	1-11/16	6	4.95
S	35-219	3-1/16	1-3/4	6	6.29
T	35-220	3-1/16	1-3/4	6	6.34
U	35-221	3-1/8	1-13/16	6	6.36
V	35-222	3-1/4	1-7/8	6	6.79
W	35-223	3-1/4	1-7/8	6	6.80
X	35-224	3-5/16	1-15/16	6	6.86
Y	35-225	3-5/16	1-15/16	6	7.27
Z	35-226	3-3/8	2	6	7.71

COBALT AIRCRAFT DRILLS

Cobalt High Speed Steel drills with 1/2” reduced shank especially useful in portable drilling equipment and CNC machines. They have 118° points and are precision ground for a high degree of concentricity between the shank and body diameter. ANSI Specification.



SILVER AND DEMING - 1/2” SHANK

DIAMETER INCHES	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
17/32	07-200	.5310	3-1/8	6	1	\$14.60
9/16	07-201	.5625	3-1/8	6	1	15.98
19/32	07-202	.5938	3-1/8	6	1	17.40
5/8	07-203	.6250	3-1/8	6	1	18.85
21/32	07-204	.6562	3-1/8	6	1	20.30
11/16	07-205	.6875	3-1/8	6	1	21.98
23/32	07-206	.7188	3-1/8	6	1	23.60
3/4	07-207	.7500	3-1/8	6	1	25.32
25/32	07-208	.7812	3-1/8	6	1	27.13
13/16	07-209	.8125	3-1/8	6	1	28.98
27/32	07-210	.8438	3-1/8	6	1	30.85
7/8	07-211	.8750	3-1/8	6	1	32.85
29/32	07-212	.9062	3-1/8	6	1	34.50
15/16	07-213	.9375	3-1/8	6	1	36.93
31/32	07-214	.9688	3-1/8	6	1	38.52
1	07-215	1.0000	3-1/8	6	1	41.52



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SOLID CARBIDE DRILLS

- Precision Ground Micrograin 10% Cobalt 118° Drill Point
- Recommended for use on Cast Iron, Aluminum, Plastic, Composites, Nonferrous alloys, and Highly Abrasive Materials



NUMBER SIZES 1 - 30

DRILL SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
1	09-001	.2280	1-3/4	3	1	\$16.80
2	09-002	.2210	1-3/4	3	1	16.80
3	09-003	.2130	1-3/4	3	1	16.25
4	09-004	.2090	1-3/4	3	1	16.80
5	09-005	.2055	1-3/4	3	1	16.25
6	09-006	.2040	1-3/4	3	1	16.80
7	09-007	.2010	1-3/4	3	1	16.00
8	09-008	.1990	1-3/4	3	1	16.00
9	09-009	.1960	1-3/4	3	1	16.00
10	09-010	.1935	1-5/8	2-3/4	1	13.63
11	09-011	.1910	1-5/8	2-3/4	1	13.63
12	09-012	.1890	1-5/8	2-3/4	1	13.63
13	09-013	.1850	1-5/8	2-3/4	1	13.48
14	09-014	.1820	1-5/8	2-3/4	1	13.99
15	09-015	.1800	1-5/8	2-3/4	1	13.99
16	09-016	.1770	1-5/8	2-3/4	1	13.04
17	09-017	.1730	1-5/8	2-3/4	1	13.59
18	09-018	.1695	1-5/8	2-3/4	1	13.59
19	09-019	.1660	1-5/8	2-3/4	1	12.68
20	09-020	.1610	1-3/8	2-1/2	1	11.21
21	09-021	.1590	1-3/8	2-1/2	1	11.21
22	09-022	.1570	1-3/8	2-1/2	1	11.76
23	09-023	.1540	1-3/8	2-1/2	1	11.76
24	09-024	.1520	1-3/8	2-1/2	1	11.76
25	09-025	.1495	1-3/8	2-1/2	1	11.76
26	09-026	.1470	1-3/8	2-1/2	1	11.76
27	09-027	.1440	1-3/8	2-1/2	1	10.63
28	09-028	.1405	1-3/8	2-1/2	1	11.76
29	09-029	.1360	1-3/8	2-1/2	1	11.76
30	09-030	.1285	1-1/4	2-1/4	1	8.19

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

SOLID CARBIDE DRILLS

- Precision Ground Micrograin 10% Cobalt 118° Drill Point
- Recommended for use on Cast Iron, Aluminum, Plastic, Composites, Nonferrous alloys, and Highly Abrasive Materials



NUMBER SIZES 31 - 60

DRILL SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
31	09-031	.1200	1-1/4	2-1/4	1	\$9.18
32	09-032	.1160	1-1/4	2-1/4	1	9.58
33	09-033	.1130	1-1/4	2-1/4	1	9.58
34	09-034	.1110	1-1/4	2-1/4	1	9.58
35	09-035	.1100	1-1/4	2-1/4	1	9.18
36	09-036	.1065	1-1/4	2-1/4	1	9.58
37	09-037	.1040	1-1/4	2-1/4	1	9.18
38	09-038	.1015	1-1/4	2-1/4	1	9.18
39	09-039	.0995	1-1/4	2-1/4	1	9.18
40	09-040	.0980	1	2	1	7.31
41	09-041	.0960	1	2	1	7.85
42	09-042	.0935	1	2	1	6.80
43	09-043	.0890	1	2	1	7.85
44	09-044	.0860	1	2	1	7.85
45	09-045	.0820	7/8	1-3/4	1	8.42
46	09-046	.0810	7/8	1-3/4	1	8.42
47	09-047	.0785	7/8	1-3/4	1	6.43
48	09-048	.0760	7/8	1-3/4	1	8.42
49	09-049	.0730	7/8	1-3/4	1	8.42
50	09-050	.0700	7/8	1-3/4	1	8.42
51	09-051	.0670	3/4	1-1/2	1	8.09
52	09-052	.0635	3/4	1-1/2	1	6.03
53	09-053	.0595	3/4	1-1/2	1	8.55
54	09-054	.0550	3/4	1-1/2	1	8.09
55	09-055	.0520	3/4	1-1/2	1	8.09
56	09-056	.0426	3/4	1-1/2	1	8.09
57	09-057	.0430	3/4	1-1/2	1	10.67
58	09-058	.0420	3/4	1-1/2	1	10.67
59	09-059	.0410	3/4	1-1/2	1	10.67
60	09-060	.0400	3/4	1-1/2	1	10.67

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

SOLID CARBIDE DRILLS

- Precision Ground Micrograin 10% Cobalt 118° Drill Point
- Recommended for use on Cast Iron, Aluminum, Plastic, Composites, Nonferrous alloys, and Highly Abrasive Materials



LETTER SIZES

DRILL SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
A	09-131	.2340	2	3-1/4	1	\$18.84
B	09-132	.2380	2	3-1/4	1	19.98
C	09-133	.2420	2	3-1/4	1	19.98
D	09-134	.2460	2	3-1/4	1	19.98
E	09-135	.2500	2	3-1/4	1	19.98
F	09-136	.2570	2	3-1/4	1	19.98
G	09-137	.2610	2-1/4	3-1/2	1	23.40
H	09-138	.2660	2-1/4	3-1/2	1	24.16
I	09-139	.2720	2-1/4	3-1/2	1	24.16
J	09-140	.2770	2-1/4	3-1/2	1	24.16
K	09-141	.2810	2-1/4	3-1/2	1	24.16
L	09-142	.2900	2-1/4	3-1/2	1	24.16
M	09-143	.2950	2-3/8	3-3/4	1	29.18
N	09-144	.3020	2-3/8	3-3/4	1	29.56
O	09-145	.3160	2-3/8	3-3/4	1	29.56
P	09-146	.3230	2-3/8	3-3/4	1	29.56
Q	09-147	.3220	2-1/2	4	1	33.98
R	09-148	.3390	2-1/2	4	1	33.98
S	09-149	.3480	2-1/2	4	1	33.98
T	09-150	.3450	2-3/4	4-1/4	1	40.00
U	09-151	.3680	2-3/4	4-1/4	1	42.66
V	09-152	.3770	2-3/4	4-1/4	1	42.66
W	09-153	.3860	2-7/8	4-1/2	1	54.26
X	09-154	.3970	2-7/8	4-1/2	1	55.40
Y	09-155	.4040	2-7/8	4-1/2	1	55.40
Z	09-156	.4130	2-7/8	4-1/2	1	57.68

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

SOLID CARBIDE DRILLS

- Precision Ground Micrograin 10% Cobalt 118° Drill Point
- Recommended for use on Cast Iron, Aluminum, Plastic, Composites, Nonferrous alloys, and Highly Abrasive Materials



FRACTIONAL SIZES

DRILL SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
1/64	09-058A	.0156	3/16	3/4	1	\$13.96
1/32	09-059A	.0312	1/2	1-1/2	1	8.56
3/64	09-060A	.0469	3/4	1-1/2	1	7.26
1/16	09-061	.0625	3/4	1-1/2	1	6.46
5/64	09-062	.0781	7/8	1-3/4	1	6.60
3/32	09-063	.0938	1	2	1	6.90
7/64	09-064	.1094	1-1/4	2-1/4	1	7.22
1/8	09-065	.1250	1-1/4	2-1/4	1	7.64
9/64	09-066	.1406	1-3/8	2-1/2	1	10.06
5/32	09-067	.1562	1-3/8	2-1/2	1	10.56
11/64	09-068	.1719	1-5/8	2-3/4	1	12.94
3/16	09-069	.1875	1-5/8	2-3/4	1	12.68
13/64	09-070	.2031	1-3/4	3	1	16.00
7/32	09-071	.2188	1-3/4	3	1	15.48
15/64	09-072	.2344	2	3-1/4	1	18.84
1/4	09-073	.2500	2	3-1/4	1	19.38
17/64	09-074	.2656	2-1/8	3-1/2	1	23.40
9/32	09-075	.2812	2-1/8	3-1/2	1	24.16
19/64	09-076	.2969	2-3/8	3-3/4	1	29.18
5/16	09-077	.3125	2-3/8	3-3/4	1	29.18
21/64	09-078	.3281	2-1/2	4	1	32.84
11/32	09-079	.3438	2-1/2	4	1	33.22
23/64	09-080	.3594	2-3/4	4-1/4	1	39.24
3/8	09-081	.3750	2-3/4	4-1/4	1	41.90
25/64	09-082	.3906	2-7/8	4-1/2	1	50.56
13/32	09-083	.4062	2-7/8	4-1/2	1	51.70
27/64	09-084	.4219	2-7/8	4-1/2	1	63.12
7/16	09-085	.4375	2-7/8	4-1/2	1	55.40
29/64	09-086	.4531	3	4-3/4	1	71.36
15/32	09-087	.4688	3	4-3/4	1	72.50
31/64	09-088	.4844	3	4-3/4	1	72.78
1/2	09-089	.5000	3	4-3/4	1	73.64

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

COBALT DRILL SETS

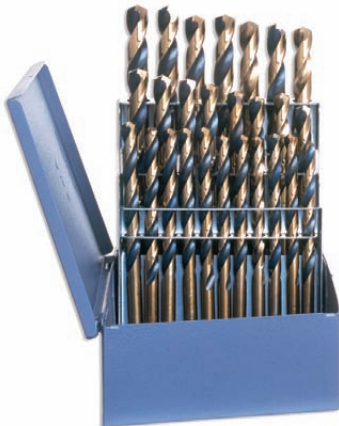
Cobalt High Speed Steel Jobber Length Drills used for drilling in tough high tensile strength materials like stainless steel, titanium and inconel. Heavy duty flute construction and 135° split points.



60 Piece
Numbered Set
#1- #60
Part #16-401
\$95.00 Each



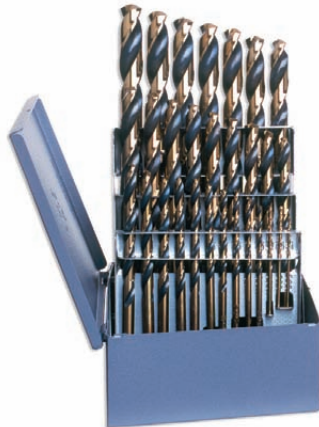
13 Piece
Fractional Set
1/16"- 1/4" by 64ths
Part #16-410
\$22.00 Each



26 Piece
Letter Set
A thru Z
Part #16-403
\$98.00 Each



21 Piece
Fractional Set
1/16"- 3/8" by 64ths
Part #16-505
\$45.00 Each



29 Piece
Fractional Set
1/16"- 1/2" by 64ths
Part #16-402
\$98.00 Each



8 Piece
Silver & Deming Set
9/16"- 1" by 16ths
Part #16-404
\$209.00 Each

COBALT DRILL SETS

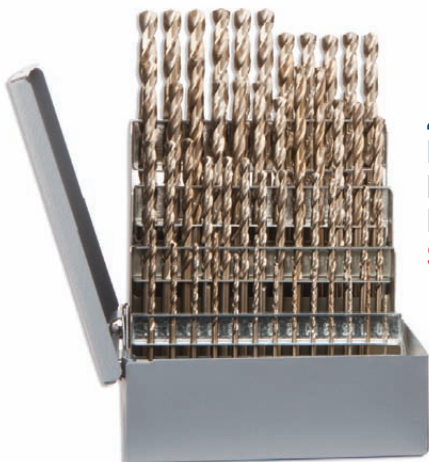
Cobalt High Speed Steel Jobber Length Drills used for drilling in tough high tensile strength materials like stainless steel, titanium and inconel. Heavy duty flute construction and 135° split points.



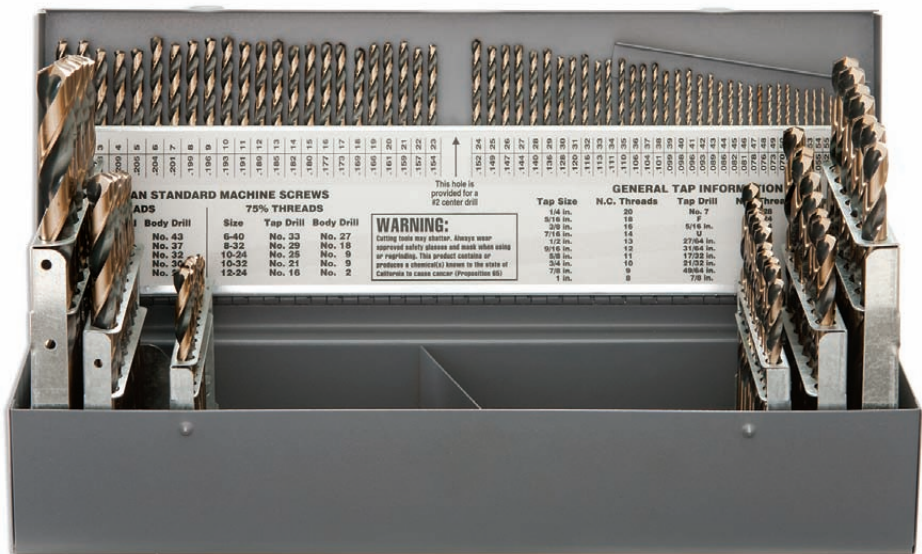
25 Piece
Metric Drill Set
M1.00 - M13.00 by .5mm
Part #16-420
\$132.00 Each



50 Piece
Metric Drill Set
M1.00 - M5.90 by .10mm
Part #16-409
\$81.00 Each



41 Piece
Metric Drill Set
M6.00 - M10.00 by .10mm
Part #16-411
\$192.00 Each



115 Piece Set
Includes 1/16"- 1/2" by 64ths
#1- #60 and A thru Z
Part #16-412
\$305.00 Each



AIRCRAFT TAPER ROUTER

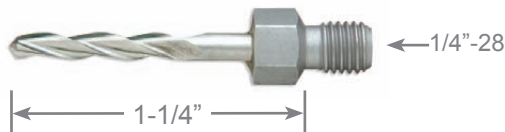
High Speed R.H. Helix, R.H. Cut Taper 1/4 Per Foot. Two-flute Taper routers are used for cutting, trimming and routing around cowlings, door sills and plexi-glass, trimming on wing terminals in bulkheads and ribs on fuselage. The advantages over taper pin reamers and drills are the ability to cut without drilling first, easier guiding along the pattern and easier cutting without buildup.



SIZE	PART NUMBER	SHANK DIAMETER INCHES	NOMINAL DIAMETER AT SMALL END INCHES	LARGE END INCHES	FLUTE END INCHES	OVERALL LENGTH INCHES	UNIT PRICE
1	15-301	.0980	.0810	.0980	13/16	2	\$2.00
2	15-302	.1280	.1100	.1280	7/8	2-1/4	2.19
3	15-303	.1875	.1650	.1875	1-1/16	2-1/2	3.72
4	15-304	.2500	.2240	.2500	1-1/4	3-3/4	4.12

THREADED SHANK TAPER ROUTER BITS

SIZE	PART NUMBER	NOMINAL DIAMETER AT SMALL END INCHES	LENGTH INCHES	UNIT PRICE
1	15-305	.0810	1-1/4	\$5.85
2	15-306	.1100	1-1/4	5.95
3	15-307	.1650	1-1/4	6.10



STEP DRILLS

Titanium Nitride Coated. Titanium Nitride coated bits last up to 6 times longer than non-coated high speed steel bits, they penetrate 75% faster and require 25% less effort to use.



SIZE	PART NUMBER	NO. OF HOLE SIZES	HOLE SIZES	SHANK SIZE	STEP DEPTH	UNIT PRICE
1	38-301Tin	13	1/8 to 1/2	1/4	1/8	\$13.80
2	38-302Tin	6	3/16 to 1/2	1/4	3/8	14.95
3	38-303Tin	9	1/4 to 3/4	3/8	1/8	17.25
4	38-304Tin	12	3/16 to 7/8	3/8	1/8	19.55
1, 2, 3, 4	38-310Tin	Complete Set - One of all 4 sizes in a case.				65.55

AEROSPACE TAPS

High Speed Steel - UNJC UNJF. Military specification MIL-S-8879 The “J” Screw thread is used for aerospace designs and for highly stressed applications requiring high fatigue strength.



PART NUMBER	DESCRIPTION	NUMBER OF FLUTES	PIECES PER PACKAGE	UNIT PRICE
23-400	4/40 TAPER	3	12	\$2.95
23-401	4/40 PLUG	3	12	2.95
23-402	4/40 BOTTOM	3	12	2.95
23-408	6/32 TAPER	3	12	3.00
23-409	6/32 PLUG	3	12	3.00
23-410	6/32 BOTTOM	3	12	3.00
23-411	8/32 TAPER	4	12	3.10
23-412	8/32 PLUG	4	12	3.10
23-413	8/32 BOTTOM	4	12	3.10
23-414	10/24 TAPER	4	12	3.15
23-415	10/24 PLUG	4	12	3.15
23-416	10/24 BOTTOM	4	12	3.15
23-417	10/32 TAPER	4	12	3.15
23-418	10/32 PLUG	4	12	3.15
23-419	10/32 BOTTOM	4	12	3.15
23-420	12/24 TAPER	4	12	3.35
23-421	12/24 PLUG	4	12	3.35
23-422	12/24 BOTTOM	4	12	3.35
23-423	1/4-20 TAPER	4	12	3.56
23-424	1/4-20 PLUG	4	12	3.56
23-425	1/4-20 BOTTOM	4	12	3.56
23-426	1/4-28 TAPER	4	12	3.40
23-427	1/4-28 PLUG	4	12	3.40
23-428	1/4-28 BOTTOM	4	12	3.40
23-429	5/16-18 TAPER	4	12	4.10
23-430	5/16-18 PLUG	4	12	4.10
23-431	5/16-18 BOTTOM	4	12	4.10
23-432	5/16-24 TAPER	4	12	4.10
23-433	5/16-24 PLUG	4	12	4.10
23-434	5/16-24 BOTTOM	4	12	4.10
23-435	3/8-16 TAPER	4	12	4.80
23-441	3/8-16 PLUG	4	12	4.80
23-442	3/8-16 BOTTOM	4	12	4.80
23-438	3/8-24 TAPER	4	12	4.80
23-439	3/8-24 PLUG	4	12	4.80
23-440	3/8-24 BOTTOM	4	12	4.80
23-443	7/16 -14 TAPER	4	12	8.30
23-444	7/16 -14 PLUG	4	12	8.30
23-445	7/16 -14 BOTTOM	4	12	8.30
23-446	7/16 -20 TAPER	4	12	8.30
23-447	7/16 -20 PLUG	4	12	8.30
23-448	7/16 -20 BOTTOM	4	12	8.30

JOOCY-LOOB

Multi-Purpose self-cooling machining, dry film, and anti-seize agent. A radically different non-staining "greaseless grease", reduce the co-efficient of friction between the cutting edge of tools and most metals that are drilled or tapped.



- Reduced friction
- Safe for all material surfaces
- Cooling agent enables machining without heat

Part #20-396
\$20.00 Each

DRILL STOPS

- Designed to Reduce Drill Breakage by controlling the depth of the drilled hole.
- Coiled spring cushions the drill motor impact on breakthrough
- Smooth face reduces surface marring.
- Drill stops are heat treated to prevent galling in use



DRILL SIZE	PART NUMBER	LENGTH	HOLE SIZE	COLOR	PIECES PER PACKAGE	UNIT PRICE
50	30-637	1-5/16	.0730	BLACK	25	\$1.25
40	30-635	1-5/16	.0990	ZINC	25	.90
30	30-636	1-5/16	.1300	COPPER	25	.90
27	30-633	1-5/16	.1460	ZINC	25	1.25
21	30-639	1-1/2	.1610	BLACK	25	.90
20	30-632	1-1/2	.1630	ZINC	25	.90
16	30-634	1-1/2	.1790	BLACK	25	1.25
12	30-638	1-1/2	.1910	BRASS	25	1.25
10	30-641	1-1/2	.1950	BRASS	25	.90
1/4	30-642	2-1/8	.2530	COPPER	25	1.05
5/16	30-640	2-1/8	.3150	COPPER	25	1.50

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

THREADED SHANK ADAPTER DRILLS

Cobalt High Speed Steel Threaded Shank drills made to NAS 965 Type D specifications. Surface treated for drilling hard, tough high tensile strength material. They will have significantly greater tool life than Type B high speed steel threaded drills resulting in a lower cost per hole. 135° split points prevent “walking”



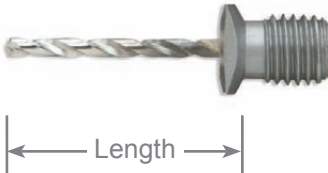
COBALT
1/4-28 Thread

Very Stubby Series						Extra Long Series		
SIZE	DECIMAL EQUIVALENT INCHES	MILLIMETER EQUIVALENT	LENGTH VERY STUBBY	PART NUMBER	UNIT PRICE	LENGTH EXTRA LONG	PART NUMBER	UNIT PRICE
50	.0700	1.78	3/8	10-450	\$4.05	----	----	----
40	.0980	2.49	3/8	10-440	2.40	2-1/2	10-140	\$2.80
30	.1285	3.26	3/8	10-430	2.55	2-3/4	10-130	3.10
27	.1440	3.66	3/8	10-427	2.95	3	10-127	3.90
26	.1470	3.73	3/8	10-426	3.50	----	----	----
21	.1590	4.04	3/8	10-421	2.80	3	10-121	3.15
20	.1610	4.09	3/8	10-420	2.80	3	10-120	3.54
16	.1770	4.50	3/8	10-416	3.50	3	10-116	3.75
13	.1850	4.70	3/8	10-413	3.05	3	10-113	3.95
12	.1890	4.80	3/8	10-412	3.95	3	10-112	4.80
11	.1910	4.85	3/8	10-411	3.95	3	10-111	4.80
10	.1935	4.92	3/8	10-410	3.20	3	10-110	3.90
8	.1990	5.06	3/8	10-408	3.55	3	10-108	4.80
5	.2055	5.22	3/8	10-405	4.50	3	10-105	4.80
1/4	.2500	6.35	3/8	11-413	3.85	3	10-150	4.20

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

MINIATURE THREADED SHANK ADAPTER DRILLS

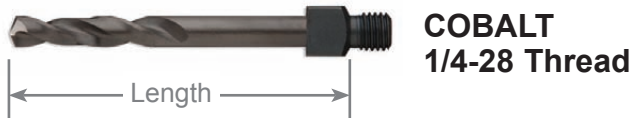
SIZE	PART NUMBER	MILLIMETER EQUIVALENT	LENGTH INCHES	DECIMAL EQUIVALENT INCHES	UNIT PRICE
51	10-051	1.702	1	.0670	\$8.00
52	10-052	1.613	1	.0635	8.00
53	10-053	1.511	1	.0595	8.00
54	10-054	1.397	1	.0550	8.00
55	10-055	1.321	1	.0520	8.00
56	10-056	1.181	1	.0465	8.00
57	10-057	1.092	1	.0430	8.00
58	10-058	1.067	1	.0420	8.00
59	10-059	1.041	1	.0410	8.00
60	10-060	1.016	1	.0400	8.00



NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

THREADED SHANK ADAPTER DRILLS

Cobalt High Speed Steel Threaded drills made to NAS 965 Type D specifications. Surface treated for drilling hard, tough high tensile strength material. They will have significantly greater tool life than Type B high speed steel threaded drills resulting in a lower cost per hole. 135° split points prevent “walking”.



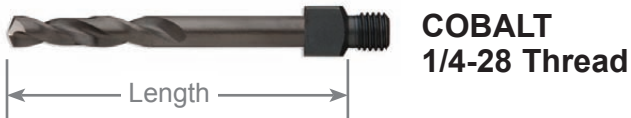
WIRE SIZES 1 - 25

Short Series						Long Series			Stubby Series		
SIZE	DECIMAL EQUIVALENT INCHES	MILLIMETER EQUIVALENT	SHORT SERIES LENGTH	PART NUMBER	SHORT UNIT PRICE	LONG SERIES LENGTH	PART NUMBER	LONG UNIT PRICE	STUBBY SERIES LENGTH	PART NUMBER	STUBBY UNIT PRICE
1	.2280	5.79	1-1/4	10-001	\$4.52	2-1/8	10-201	\$4.65	5/8	10-301	\$4.31
2	.2210	5.61	1-1/4	10-002	3.51	2-1/8	10-202	3.61	5/8	10-302	3.89
3	.2130	5.41	1-1/4	10-003	3.07	2-1/8	10-203	3.39	5/8	10-303	3.95
4	.2090	5.31	1-1/4	10-004	4.28	2-1/8	10-204	4.35	5/8	10-304	3.52
5	.2055	5.22	1-1/4	10-005	3.20	2-1/8	10-205	3.33	5/8	10-305	3.52
6	.2040	5.18	1-1/4	10-006	3.20	2-1/8	10-206	3.38	5/8	10-306	3.50
7	.2010	5.11	1-1/4	10-007	3.00	2-1/8	10-207	3.05	5/8	10-307	3.25
8	.1990	5.06	1-1/4	10-008	2.64	2-1/8	10-208	2.95	5/8	10-308	3.14
9	.1960	4.98	1-1/4	10-009	3.03	2-1/8	10-209	4.20	9/16	10-309	3.45
10	.1935	4.92	1-1/4	10-010	2.67	2-1/8	10-210	2.76	9/16	10-310	3.07
11	.1910	4.85	1-1/4	10-011	2.78	2-1/8	10-211	3.17	9/16	10-311	3.20
12	.1890	4.80	1-1/4	10-012	2.87	2-1/8	10-212	3.02	9/16	10-312	3.27
13	.1850	4.70	1-1/4	10-013	2.84	2-1/8	10-213	2.90	9/16	10-313	2.94
14	.1820	4.62	1-1/4	10-014	3.75	2-1/8	10-214	4.20	9/16	10-314	4.05
15	.1800	4.57	1-1/4	10-015	3.75	2-1/8	10-215	3.50	9/16	10-315	3.59
16	.1770	4.50	1-1/4	10-016	2.59	2-1/8	10-216	2.87	9/16	10-316	3.00
17	.1730	4.39	1-1/4	10-017	3.05	2-1/8	10-217	3.66	9/16	10-317	3.95
18	.1695	4.30	1-1/4	10-018	3.01	2-1/8	10-218	3.80	9/16	10-318	3.95
19	.1660	4.22	1-1/4	10-019	2.52	2-1/8	10-219	2.73	9/16	10-319	2.74
20	.1610	4.09	1-1/4	10-020	2.26	2-1/8	10-220	2.67	9/16	10-320	2.60
21	.1590	4.04	1-1/4	10-021	2.26	2-1/8	10-221	2.69	9/16	10-321	2.75
22	.1570	3.99	1-1/4	10-022	2.64	2-1/8	10-222	3.25	9/16	10-322	4.05
23	.1540	3.91	1-1/4	10-023	2.64	2-1/8	10-223	3.70	9/16	10-323	4.05
24	.1520	3.86	1-1/4	10-024	3.00	2-1/8	10-224	3.70	9/16	10-324	4.05
25	.1495	3.80	1-1/4	10-025	3.00	2-1/8	10-225	3.70	9/16	10-325	4.05

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

THREADED SHANK ADAPTER DRILLS

Cobalt High Speed Steel Threaded drills made to NAS 965 Type D specifications. Surface treated for drilling hard, tough high tensile strength material. They will have significantly greater tool life than Type B high speed steel threaded drills resulting in a lower cost per hole. 135° split points prevent “walking”.



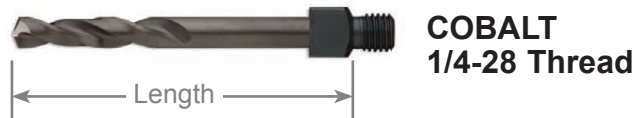
WIRE SIZES 26 - 60

Short Series						Long Series			Stubby Series		
SIZE	DECIMAL EQUIVALENT INCHES	MILLIMETER EQUIVALENT	SHORT SERIES LENGTH	PART NUMBER	SHORT UNIT PRICE	LONG SERIES LENGTH	PART NUMBER	LONG UNIT PRICE	STUBBY SERIES LENGTH	PART NUMBER	STUBBY UNIT PRICE
26	.1470	3.73	1-1/4	10-026	\$3.35	2-1/8	10-226	\$3.50	9/16	10-326	\$4.05
27	.1440	3.66	1-1/4	10-027	2.20	2-1/8	10-227	2.40	9/16	10-327	2.44
28	.1405	3.57	1-1/4	10-028	3.75	2-1/8	10-228	3.80	9/16	10-328	4.05
29	.1360	3.45	1-1/4	10-029	3.48	2-1/8	10-229	3.35	9/16	10-329	4.00
30	.1285	3.27	1-1/4	10-030	2.00	2-1/8	10-230	2.16	9/16	10-330	2.40
31	.1200	3.05	1-1/4	10-031	2.58	2-1/8	10-231	3.20	9/16	10-331	4.10
32	.1160	2.95	1-1/4	10-032	3.65	2-1/8	10-232	3.80	9/16	10-332	4.10
33	.1130	2.87	1-1/4	10-033	3.95	2-1/8	10-233	3.80	9/16	10-333	4.10
34	.1110	2.82	1-1/4	10-034	3.95	2-1/8	10-234	4.95	9/16	10-334	---
35	.1100	2.79	1-1/4	10-035	3.95	2-1/8	10-235	4.95	1/2	10-335	4.10
36	.1065	2.71	1-1/4	10-036	3.95	2-1/8	10-236	4.95	1/2	10-336	4.10
37	.1040	2.64	1-1/4	10-037	3.95	2-1/8	10-237	4.95	1/2	10-337	---
38	.1015	2.58	1-1/4	10-038	3.95	2-1/8	10-238	4.95	1/2	10-338	---
39	.0995	2.53	1-1/4	10-039	3.95	2-1/8	10-239	4.95	1/2	10-339	4.10
40	.0980	2.49	1	10-040	1.89	2-1/8	10-240	2.13	1/2	10-340	2.33
41	.0960	2.44	1	10-041	2.95	2-1/8	10-241	3.75	1/2	10-341	4.05
42	.0935	2.37	1	10-042	3.75	2-1/8	10-242	4.95	1/2	10-342	4.05
43	.0890	2.26	1	10-043	3.95	2-1/8	10-243	4.95	1/2	10-343	4.05
44	.0860	2.18	1	10-044	3.95	2-1/8	10-244	4.95	1/2	10-344	---
45	.0820	2.08	1	10-045	3.95	2-1/8	10-245	4.95	1/2	10-345	---
46	.0810	2.06	1	10-046	5.45	2-1/8	10-246	5.65	1/2	10-346	---
47	.0785	1.99	1	10-047	5.45	2-1/8	10-247	5.65	1/2	10-347	---
48	.0760	1.93	1	10-048	5.45	2-1/8	10-248	5.65	1/2	10-348	---
49	.0730	1.85	1	10-049	5.45	2-1/8	10-249	5.65	1/2	10-349	---
50	.0700	1.78	1	10-050	2.60	2-1/8	10-250	2.85	1/2	10-350	3.25
60	.0400	1.016	1	10-060	8.00	2-1/8	10-260	8.00	1/2	10-360	8.00

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

THREADED SHANK ADAPTER DRILLS

Cobalt High Speed Steel Threaded drills made to NAS 965 Type D specifications. Surface treated for drilling hard, tough high tensile strength material. They will have significantly greater tool life than Type B high speed steel threaded drills resulting in a lower cost per hole. 135° split points prevent “walking”.



FRACTIONAL SIZES

Short Series						Long Series			Stubby Series		
SIZE	DECIMAL EQUIVALENT INCHES	MILLIMETER EQUIVALENT	SHORT SERIES LENGTH	PART NUMBER	SHORT UNIT PRICE	LONG SERIES LENGTH	PART NUMBER	LONG UNIT PRICE	STUBBY SERIES LENGTH	PART NUMBER	STUBBY UNIT PRICE
3/32	.0938	2.38	1	11-103	\$2.65	2-1/8	11-203	\$2.90	1/2	11-303	\$3.00
7/64	.1094	2.77	1	11-104	4.05	2-1/8	11-204	4.15	1/2	11-304	4.25
1/8	.1250	3.17	1	11-105	2.30	2-1/8	11-205	2.45	1/2	11-305	2.40
9/64	.1406	3.57	1-1/4	11-106	4.15	2-1/8	11-206	4.25	9/16	11-306	4.35
5/32	.1562	3.97	1-1/4	11-107	2.36	2-1/8	11-207	2.55	9/16	11-307	2.50
11/64	.1719	4.36	1-1/4	11-108	4.25	2-1/8	11-208	---	9/16	11-308	---
3/16	.1875	4.76	1-1/4	11-109	2.51	2-1/8	11-209	2.65	9/16	11-309	2.47
7/32	.2188	5.56	1-1/4	11-111	3.26	2-1/8	11-211	3.35	5/8	11-311	3.30
15/64	.2344	5.95	1-1/4	11-112	3.45	2-1/8	11-212	4.50	5/8	11-312	---
1/4	.2500	6.35	1-1/4	11-113	3.26	2-1/8	11-213	3.30	5/8	11-313	3.47
9/32	.2812	7.14	1-1/4	11-115	4.45	2-1/8	11-215	4.85	5/8	11-315	5.95
19/64	.2969	7.54	1-1/4	11-116	4.75	2-1/8	11-216	4.90	5/8	11-316	---
5/16	.3125	7.94	1-1/4	11-117	4.60	2-1/8	11-217	4.96	5/8	11-317	4.85
3/8	.3750	9.52	1-1/4	11-121	6.49	2-1/8	11-221	6.65	3/4	11-321	6.65

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

LETTER SIZES

Short Series						Long Series			Stubby Series		
SIZE	DECIMAL EQUIVALENT INCHES	MILLIMETER EQUIVALENT	SHORT SERIES LENGTH	PART NUMBER	SHORT UNIT PRICE	LONG SERIES LENGTH	PART NUMBER	LONG UNIT PRICE	STUBBY SERIES LENGTH	PART NUMBER	STUBBY UNIT PRICE
A	.2340	5.94	1-1/4	12-101	\$4.10	2-1/8	12-201	\$4.45	5/8	12-301	---
B	.2380	6.04	1-1/4	12-102	4.10	2-1/8	12-202	4.43	5/8	12-302	---
C	.2420	6.15	1-1/4	12-103	4.10	2-1/8	12-203	4.20	5/8	12-303	4.10
D	.2460	6.25	1-1/4	12-104	3.80	2-1/8	12-204	3.87	5/8	12-304	3.90
F	.2570	6.53	1-1/4	12-106	3.47	2-1/8	12-206	4.00	5/8	12-306	3.95
G	.2610	6.63	1-1/4	12-107	3.63	2-1/8	12-207	3.95	5/8	12-307	4.05
H	.2660	6.75	1-1/4	12-108	4.50	2-1/8	12-208	5.30	5/8	12-308	5.95
J	.2770	7.03	1-1/4	12-110	5.35	2-1/8	12-210	5.50	5/8	12-310	---
K	.2810	7.14	1-1/4	12-111	4.45	2-1/8	12-211	4.85	5/8	12-311	5.95
L	.2900	7.37	1-1/4	12-112	---	2-1/8	12-212	5.30	5/8	12-312	---
M	.2950	7.49	1-1/4	12-113	4.85	2-1/8	12-213	---	5/8	12-313	---
N	.3020	7.67	1-1/4	12-114	4.76	2-1/8	12-214	5.40	5/8	12-314	5.95
O	.3160	8.03	1-1/4	12-115	4.76	2-1/8	12-215	---	5/8	12-315	---
U	.3680	9.34	1-1/4	12-121	5.95	2-1/8	12-221	---	3/4	12-321	6.95

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

THREADED SHANK ADAPTER DRILLS

Cobalt High Speed Steel Threaded Shank drills made to NAS 965 Type D specifications. Surface treated for drilling hard, tough high tensile strength material. They will have significantly greater tool life than Type B high speed steel threaded drills resulting in a lower cost per hole. 135° split points prevent “walking”

Cobalt
1/4-28 Thread
100 Piece Price
Order in Quantity and Save 25%



			UNIT PRICE EACH			
SIZE	DECIMAL EQUIVALENT INCHES	MILLIMETER EQUIVALENT	SHORT SERIES	LONG SERIES	STUBBY SERIES	VERY STUBBY SERIES
#40	.0980	2.49	\$1.42	\$1.60	\$1.75	\$1.80
#30	.1285	3.26	1.50	1.62	1.80	1.91
#27	.1440	3.66	1.65	1.80	1.83	---
#21	.1590	4.04	1.71	2.02	2.07	2.10
#20	.1610	4.09	1.70	2.00	1.95	---
#19	.1660	4.22	1.89	2.05	2.06	---
#16	.1770	4.50	1.95	2.15	2.25	---
#13	.1850	4.70	2.13	2.17	2.20	---
#12	.1890	4.80	2.15	2.36	2.45	---
#11	.1910	4.85	2.09	2.38	2.40	---
#10	.1935	4.92	2.00	2.07	2.30	2.44
#8	.1990	5.06	1.98	2.21	2.34	---
D	.2460	6.25	2.85	2.80	2.93	---
1/4	.2500	6.35	2.45	2.48	2.60	---

OTHER SIZES AVAILABLE, PRICE ON APPLICATION
ALL SIZES 100 PIECES PER PACKAGE

CARBIDE BRAD POINT DRILLS

Specifically designed for drilling graphite and aramid fiber (KEVLAR®) reinforced composite materials. The specially modified tip of the drill bit keeps the composite fibers in tension while cutting them in shear which results in no delaminating eliminating "fuzz" or "fray" when the drill bit exits the material creating a more precise hole.



SIZE	PART NUMBER	DESCRIPTION	OVERALL LENGTH	FLUTE LENGTH INCHES	UNIT PRICE
#10	47-196	BRAD POINT CARBIDE	3"	1.25	\$26.25
#21	47-197	BRAD POINT CARBIDE	3"	1.25	23.75
#30	47-198	BRAD POINT CARBIDE	3"	1.25	20.90
#40	47-199	BRAD POINT CARBIDE	3"	1.25	20.45
3/32"	47-200	BRAD POINT CARBIDE	3"	1.25	20.45
1/8"	47-201	BRAD POINT CARBIDE	3"	1.25	20.90
5/32"	47-202	BRAD POINT CARBIDE	3"	1.25	23.75
3/16"	47-203	BRAD POINT CARBIDE	3"	1.25	26.15
1/4"	47-204	BRAD POINT CARBIDE	3"	1.25	30.40

CARBIDE DAGGER DRILLS

Carbide Dagger Drills are used to produce holes in composite materials and/or graphite-aluminum stack ups in thicknesses of 1/4" or less. The dagger rill have proved to be the best drill for drilling on backed carbon fiber because of its ability to reduce delamination and at the same time produce a precise hole.



SIZE	PART NUMBER	DESCRIPTION	OVERALL LENGTH	UNIT PRICE
#6	49-353	DAGGER DRILL CARBIDE	6"	\$38.00
#8	49-354	DAGGER DRILL CARBIDE	6"	33.00
#10	43-099	DAGGER DRILL CARBIDE	6"	32.80
#12	43-356	DAGGER DRILL CARBIDE	6"	33.00
#20	49-357	DAGGER DRILL CARBIDE	6"	29.00
#21	49-358	DAGGER DRILL CARBIDE	6"	29.95
#30	43-694	DAGGER DRILL CARBIDE	6"	29.00
#40	44-992	DAGGER DRILL CARBIDE	6"	27.55
3/32"	43-755	DAGGER DRILL CARBIDE	6"	27.55
1/8"	43-702	DAGGER DRILL CARBIDE	6"	28.05
5/32"	48-158	DAGGER DRILL CARBIDE	6"	29.95
3/16"	43-613	DAGGER DRILL CARBIDE	6"	33.25
1/4"	49-359A	DAGGER DRILL CARBIDE	6"	38.00

CARBIDE DRILL/REAMER "DREAMER"

Generally used for opening pre-drilled holes in composite materials. Manufactured in solid carbide. Carbide combination drill reamers allow you to drill and ream in one operation, eliminating multiple tools and steps. Also known as a "one-shot" drill-reamer, this tool can be used for hand drilling through a bushing or with power or positive feed drill motors. These drills are excellent for drilling graphite composites. Also available in threaded shank.



SIZE	PART NUMBER	DESCRIPTION	OVERALL LENGTH	UNIT PRICE
#10	50-850	DRILL/REAMER "DREAMER"	6"	\$32.80
#21	50-689	DRILL/REAMER "DREAMER"	6"	28.50
#30	49-713	DRILL/REAMER "DREAMER"	6"	27.55
#40	50-698	DRILL/REAMER "DREAMER"	6"	26.15
3/32"	43-756	DRILL/REAMER "DREAMER"	6"	26.15
1/8"	40-927	DRILL/REAMER "DREAMER"	6"	26.60
5/32"	40-928	DRILL/REAMER "DREAMER"	6"	28.50
3/16"	43-757	DRILL/REAMER "DREAMER"	6"	31.35
1/4"	50-186	DRILL/REAMER "DREAMER"	6"	37.55

Decimal Equivalents

DRILL SIZE	MM	DECIMAL INCHES	DRILL SIZE	MM	DECIMAL INCHES	DRILL SIZE	MM	DECIMAL INCHES	DRILL SIZE	MM	DECIMAL INCHES
*	0.10	0.0039	45	2.08	0.0820	5	5.22	0.2055	7/16	11.11	0.4375
*	0.20	0.0079	44	2.18	0.0860	4	5.31	0.2090	29/64	11.51	0.4531
*	0.25	0.0098	43	2.26	0.0890	3	5.41	0.2130	15/32	11.91	0.4688
*	0.30	0.0118	42	2.37	0.0935	7/32	5.56	0.2188	*	12.00	0.4724
80	0.34	0.0135	3/32	2.38	0.0938	2	5.61	0.2210	31/64	12.30	0.4844
79	0.37	0.0145	41	2.44	0.0960	1	5.79	0.2280	1/2	12.70	0.5000
1/64	0.40	0.0156	40	2.50	0.0980	A	5.94	0.2340	*	13.00	0.5118
78	0.41	0.0160	39	2.53	0.0995	15/64	5.95	0.2344	33/64	13.10	0.5156
77	0.46	0.0180	38	2.58	0.1015	*	6.00	0.2362	17/32	13.49	0.5312
*	0.50	0.0197	37	2.64	0.1040	B	6.05	0.2380	35/64	13.89	0.5469
76	0.51	0.0200	36	2.71	0.1065	C	6.15	0.2420	*	14.00	0.5512
75	0.53	0.0210	7/64	2.78	0.1094	D	6.25	0.2460	9/16	14.29	0.5625
74	0.57	0.0225	35	2.79	0.1100	1/4	6.35	0.2500	37/64	14.68	0.5781
*	0.60	0.0236	34	2.82	0.1110	E	6.35	0.2500	*	15.00	0.5906
73	0.61	0.0240	33	2.87	0.1130	F	6.53	0.2570	19/32	15.08	0.5938
72	0.64	0.0250	32	2.95	0.1160	G	6.63	0.2610	39/64	15.48	0.6094
71	0.66	0.0260	*	3.00	0.1181	17/64	6.75	0.2656	5/8	15.88	0.6250
*	0.70	0.0276	31	3.05	0.1200	H	6.76	0.2660	*	16.00	0.6299
70	0.71	0.0280	1/8	3.18	0.1250	I	6.91	0.2720	41/64	16.27	0.6406
69	0.74	0.0292	30	3.26	0.1285	*	7.00	0.2756	21/32	16.67	0.6562
*	0.75	0.0295	29	3.45	0.1360	J	7.04	0.2770	*	17.00	0.6693
68	0.79	0.0310	28	3.57	0.1405	K	7.14	0.2810	43/64	17.07	0.6719
1/32	0.79	0.0312	9/64	3.57	0.1406	9/32	7.14	0.2812	11/16	17.46	0.6875
*	0.80	0.0315	27	3.66	0.1440	L	7.37	0.2900	45/64	17.86	0.7031
67	0.81	0.0320	26	3.73	0.1470	M	7.49	0.2950	*	18.00	0.7087
66	0.84	0.0330	25	3.80	0.1495	19/64	7.54	0.2969	23/32	18.26	0.7188
65	0.89	0.0350	24	3.86	0.1520	N	7.67	0.3020	47/64	18.65	0.7344
*	0.90	0.0354	23	3.91	0.1540	5/16	7.94	0.3125	*	19.00	0.7480
64	0.91	0.0360	5/32	3.97	0.1562	*	8.00	0.3150	3/4	19.05	0.7500
63	0.94	0.0370	22	3.99	0.1570	O	8.03	0.3160	49/64	19.45	0.7656
62	0.97	0.0380	*	4.00	0.1575	P	8.20	0.3230	25/32	19.84	0.7812
61	0.99	0.0390	21	4.04	0.1590	21/64	8.33	0.3281	*	20.00	0.7874
*	1.00	0.0394	20	4.09	0.1610	Q	8.43	0.3320	51/64	20.24	0.7969
60	1.02	0.0400	19	4.22	0.1660	R	8.61	0.3390	13/16	20.64	0.8125
59	1.04	0.0410	18	4.31	0.1695	11/32	8.73	0.3438	*	21.00	0.8268
58	1.07	0.0420	11/64	4.37	0.1719	S	8.84	0.3480	53/64	21.03	0.8281
57	1.09	0.0430	17	4.39	0.1730	*	9.00	0.3543	27/32	21.43	0.8438
56	1.18	0.0465	16	4.50	0.1770	T	9.09	0.3580	55/64	21.84	0.8594
3/64	1.19	0.0469	15	4.57	0.1800	23/64	9.13	0.3594	*	22.00	0.8661
55	1.32	0.0520	14	4.62	0.1820	U	9.35	0.3680	7/8	22.23	0.8750
54	1.40	0.0550	13	4.70	0.1850	3/8	9.53	0.3750	57/64	22.62	0.8906
53	1.51	0.0595	3/16	4.76	0.1875	V	9.56	0.3770	*	23.00	0.9055
1/16	1.59	0.0625	12	4.80	0.1890	W	9.80	0.3860	29/32	23.02	0.9062
52	1.61	0.0635	11	4.85	0.1910	25/64	9.92	0.3906	59/64	23.42	0.9219
51	1.70	0.0670	10	4.91	0.1935	*	10.00	0.3937	15/16	23.81	0.9375
50	1.78	0.0700	9	4.98	0.1960	X	10.08	0.3970	*	24.00	0.9449
49	1.85	0.0730	*	5.00	0.1969	Y	10.26	0.4040	61/64	24.21	0.9531
48	1.93	0.0760	8	5.05	0.1990	13/32	10.32	0.4062	31/32	24.61	0.9688
5/64	1.98	0.0781	7	5.11	0.2010	Z	10.49	0.4130	*	25.00	0.9843
47	1.99	0.0785	13/64	5.16	0.2031	27/64	10.72	0.4219	63/64	25.00	0.9844
*	2.00	0.0787	6	5.18	0.2040	*	11.00	0.4331	1"	25.40	1.0000
46	2.06	0.0810							1.0000		

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