

INDUSTRIAL TOOL PRODUCTS

COBALT AIRCRAFT DRILLS
THREADED SHANK ADAPTER DRILLS

INDUSTRIAL TOOL PRODUCTS
Atıfbey Mah. 61 Sk. No:26 Gaziemir-İzmir-Türkiye
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2014





INDUSTRIAL TOOL PRODUCTS

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100 Piece Price
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TABLE OF CONTENTS

Cobalt Aircraft Drills - Wire Gauge Number Sizes 1-40.....	4
Cobalt Aircraft Drills - Wire Gauge Number Sizes 41-80.....	5
Cobalt Aircraft Drills - Fractional Sizes	6
Cobalt Aircraft Drills - Letter Sizes	7
6" Cobalt Aircraft Extension Drills - Wire Sizes 1-52	8
6" Cobalt Aircraft Extension Drills - Fractional Sizes	9
6" Cobalt Aircraft Extension Drills - Letter Sizes	9
12" Cobalt Aircraft Extension Drills - Wire Sizes 1-52	10
12" Cobalt Aircraft Extension Drills - Fractional Sizes	11
12" Cobalt Aircraft Extension Drills - Letter Size 	11
Cobalt Aircraft Type D Drills	12
Cobalt Aircraft Stove Burner Drills.....	12
6" Cobalt Aircraft Stove Burner Drills 	13
Double Margin Drills	14
Piloted Double Margin Drills.....	15
Piloted Double Margin Drills - Hi Lok® Sizes.....	15
6" Double Margin Overall Length Extension Drills	16
Solid Carbide Drills.....	17
Cobalt Aircraft Drills - Silver and Deming.....	18
Cobalt Drill Sets.....	19
Aircraft Taper Router	20
Threaded Shank Taper Router Bits.....	20
Step Drills	20
Aerospace Taps.....	21
Threaded Shank Adapter Drills - Very Stubby and Extra Long.....	22
Miniature Threaded Shank Adapter Drills	22
Threaded Shank Adapter Drills - Wire Sizes 1-25	23
Threaded Shank Adapter Drills - Wire Sizes 26 -50	24
Threaded Shank Adapter Drills - Fractional Sizes	25
Threaded Shank Adapter Drills - Letter Sizes.....	25
Threaded Shank Adapter Drills - Bulk Price Schedule	26
Joocy-Loob.....	27
Drill Stops	27



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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

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	\$ 6.76
2	01-002	.2210	2-5/8	3-7/8	12	3.38
3	01-003	.2130	2-1/2	3-3/4	12	3.23
4	01-004	.2090	2-1/2	3-3/4	12	3.23
5	01-005	.2055	2-1/2	3-3/4	12	3.13
6	01-006	.2040	2-1/2	3-3/4	12	3.13
7	01-007	.2010	2-7/16	3-5/8	12	2.98
8	01-008	.1990	2-7/16	3-5/8	12	2.98
9	01-009	.1960	2-7/16	3-5/8	12	2.98
10	01-010	.1935	2-7/16	3-5/8	12	2.76
11	01-011	.1910	2-5/16	3-1/2	12	2.76
12	01-012	.1890	2-5/16	3-1/2	12	2.76
13	01-013	.1850	2-5/16	3-1/2	12	2.62
14	01-014	.1820	2-3/16	3-3/8	12	2.62
15	01-015	.1800	2-3/16	3-3/8	12	2.62
16	01-016	.1770	2-3/16	3-3/8	12	2.48
17	01-017	.1730	2-3/16	3-3/8	12	2.48
18	01-018	.1695	2-1/8	3-1/4	12	2.38
19	01-019	.1660	2-1/8	3-1/4	12	2.34
20	01-020	.1610	2-1/8	3-1/4	12	2.18
21	01-021	.1590	2-1/8	3-1/4	12	2.18
22	01-022	.1570	2	3-1/8	12	2.27
23	01-023	.1540	2	3-1/8	12	2.27
24	01-024	.1520	2	3-1/8	12	2.27
25	01-025	.1495	1-7/8	3	12	2.10
26	01-026	.1470	1-7/8	3	12	2.10
27	01-027	.1440	1-7/8	3	12	2.08
28	01-028	.1405	1-3/4	2-7/8	12	1.99
29	01-029	.1360	1-3/4	2-7/8	12	1.92
30	01-030	.1285	1-5/8	2-3/4	12	1.78
31	01-031	.1200	1-5/8	2-3/4	12	1.78
32	01-032	.1160	1-5/8	2-3/4	12	1.76
33	01-033	.1130	1-1/2	2-5/8	12	1.76
34	01-034	.1110	1-1/2	2-5/8	12	1.76
35	01-035	.1100	1-1/2	2-5/8	12	1.76
36	01-036	.1065	1-7/16	2-1/2	12	1.76
37	01-037	.1040	1-7/16	2-1/2	12	1.76
38	01-038	.1015	1-7/16	2-1/2	12	1.58
39	01-039	.0995	1-3/8	2-3/8	12	1.58
40	01-040	.0980	1-3/8	2-3/8	12	1.60

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WIRE GAUGE NUMBER SIZES

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	\$ 1.66
42	01-042	.0935	1-1/4	2-1/4	12	1.66
43	01-043	.0890	1-1/4	2-1/4	12	1.66
44	01-044	.0860	1-1/8	2-1/8	12	1.66
45	01-045	.0820	1-1/8	2-1/8	12	1.66
46	01-046	.0810	1-1/8	2-1/8	12	1.66
47	01-047	.0785	1	2	12	1.66
48	01-048	.0760	1	2	12	1.66
49	01-049	.0730	1	2	12	1.66
50	01-050	.0700	1	2	12	1.66
51	01-051	.0670	1	2	12	1.66
52	01-052	.0635	7/8	1-7/8	12	1.66
53	01-053	.0595	7/8	1-7/8	12	1.68
54	01-054	.0550	7/8	1-7/8	12	1.68
55	01-055	.0520	7/8	1-7/8	12	1.68
56	01-056	.0465	3/4	1-3/4	12	1.68
57	01-057	.0430	3/4	1-3/4	12	1.68
58	01-058	.0420	11/16	1-5/8	12	1.68
59	01-059	.0410	11/16	1-5/8	12	1.68
60	01-060	.0400	11/16	1-5/8	12	1.68
61*	01-061	.0390	11/16	1-5/8	12	2.08
62*	01-062	.0380	5/8	1-1/2	12	2.08
63*	01-063	.0370	5/8	1-1/2	12	2.08
64*	01-064	.0360	5/8	1-1/2	12	2.08
65*	01-065	.0350	5/8	1-1/2	12	2.08
66*	01-066	.0330	1/2	1-3/8	12	2.21
67*	01-067	.0320	1/2	1-3/8	12	2.21
68*	01-068	.0310	1/2	1-3/8	12	2.21
69*	01-069	.0292	1/2	1-3/8	12	2.21
70*	01-070	.0280	3/8	1-1/4	12	2.21
71*	01-071	.0260	3/8	1-1/4	12	2.21
72*	01-072	.0250	5/16	1-1/8	12	2.21
73*	01-073	.0240	5/16	1-1/8	12	2.21
74*	01-074	.0225	1/4	1	12	2.21
75*	01-075	.0210	1/4	1	12	2.48
76*	01-076	.0200	3/16	7/8	12	2.48
77*	01-077	.0180	3/16	7/8	12	2.48
78*	01-078	.0160	3/16	7/8	12	2.48
79*	01-079	.0145	1/8	3/4	12	2.76
80*	01-080	.0135	1/8	3/4	12	2.76

*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	\$ 2.88
1/32*	02-058	.0312	1/2	1-3/8	12	2.12
3/64*	02-059	.0469	3/4	1-3/4	12	2.12
1/16	02-061	.0625	7/8	1-7/8	12	1.48
5/64	02-062	.0781	1	2	12	1.49
3/32	02-063	.0938	1-1/4	2-1/4	12	1.49
7/64	02-064	.1094	1-1/2	2-5/8	12	1.74
1/8	02-065	.1250	1-5/8	2-3/4	12	1.79
9/64	02-066	.1406	1-3/4	2-7/8	12	1.96
5/32	02-067	.1562	2	3-1/8	12	2.23
11/64	02-068	.1719	2-1/8	3-1/4	12	2.42
3/16	02-069	.1875	2-5/16	3-1/2	12	2.48
13/64	02-070	.2031	2-7/16	3-5/8	12	2.96
7/32	02-071	.2188	2-1/2	3-3/4	12	3.18
15/64	02-072	.2344	2-5/8	3-7/8	12	3.47
1/4	02-073	.2500	2-3/4	4	12	3.64
17/64	02-074	.2656	2-7/8	4-1/8	12	4.62
9/32	02-075	.2812	2-15/16	4-1/4	12	4.86
19/64	02-076	.2969	3-1/16	4-3/8	12	5.38
5/16	02-077	.3125	3-3/16	4-1/2	12	5.48
21/64	02-078	.3281	3-5/16	4-5/8	6	6.14
11/32	02-079	.3438	3-7/16	4-3/4	6	6.52
23/64	02-080	.3594	3-1/2	4-7/8	6	7.14
3/8	02-081	.3750	3-5/8	5	6	7.82
25/64	02-082	.3906	3-3/4	5-1/8	6	8.66
13/32	02-083	.4062	3-7/8	5-1/4	6	9.42
27/64	02-084	.4219	3-15/16	5-3/8	6	10.41
7/16	02-085	.4375	4-1/16	5-1/2	6	10.64
29/64	02-086	.4531	4-3/16	5-5/8	6	12.68
15/32	02-087	.4688	4-5/16	5-3/4	6	13.11
31/64	02-088	.4844	4-3/8	5-7/8	6	13.36
1/2	02-089	.5000	4-1/2	6	6	13.09

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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	\$ 3.98
B	03-091	.2380	2-3/4	4	12	4.42
C	03-092	.2420	2-3/4	4	12	4.42
D	03-093	.2460	2-3/4	4	12	4.42
E	03-094	.2500	2-3/4	4	12	3.66
F	03-095	.2570	2-7/8	4-1/8	12	4.58
G	03-096	.2610	2-7/8	4-1/8	12	4.58
H	03-097	.2660	2-7/8	4-1/8	12	4.86
I	03-098	.2720	2-7/8	4-1/8	12	5.08
J	03-099	.2770	2-7/8	4-1/8	12	5.27
K	03-100	.2810	2-15/16	4-1/4	12	5.27
L	03-101	.2900	2-15/16	4-1/4	12	5.69
M	03-102	.2950	3-1/16	4-3/8	12	6.16
N	03-103	.3020	3-1/16	4-3/8	12	6.47
O	03-104	.3160	3-3/16	4-1/2	12	6.47
P	03-105	.3230	3-5/16	4-5/8	6	6.96
Q	03-106	.3320	3-7/16	4-3/4	6	7.16
R	03-107	.3390	3-7/16	4-3/4	6	7.48
S	03-108	.3480	3-1/2	4-7/8	6	8.56
T	03-109	.3580	3-1/2	4-7/8	6	8.56
U	03-110	.3680	3-5/8	5	6	9.03
V	03-111	.3770	3-5/8	5	6	10.07
W	03-112	.3860	3-3/4	5-1/8	6	10.74
X	03-113	.3970	3-3/4	5-1/8	6	10.74
Y	03-114	.4040	3-7/8	5-1/4	6	11.60
Z	03-115	.4130	3-7/8	5-1/4	6	11.97



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WIRE SIZES - 6" OVERALL LENGTH

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE (\$)
1	05-200	.2280	2-5/8	12	\$ 5.87
2	05-201	.2210	2-5/8	12	5.87
3	05-202	.2130	2-1/2	12	5.42
4	05-203	.2090	2-1/2	12	5.42
5	05-204	.2055	2-1/2	12	5.42
6	05-205	.2040	2-1/2	12	5.42
7	05-206	.2010	2-7/16	12	5.42
8	05-207	.1990	2-7/16	12	5.34
9	05-208	.1960	2-7/16	12	5.34
10	05-209	.1935	2-7/16	12	4.36
11	05-210	.1910	2-5/16	12	4.36
12	05-211	.1890	2-5/16	12	5.18
13	05-212	.1850	2-5/16	12	4.76
14	05-213	.1820	2-3/16	12	5.18
15	05-214	.1800	2-3/16	12	5.18
16	05-215	.1770	2-3/16	12	4.62
17	05-216	.1730	2-3/16	12	5.18
18	05-217	.1695	2-1/8	12	5.18
19	05-218	.1660	2-1/8	12	4.66
20	05-219	.1610	2-1/8	12	4.12
21	05-220	.1590	2-1/8	12	4.12
22	05-221	.1570	2	12	4.98
23	05-222	.1540	2	12	4.98
24	05-223	.1520	2	12	4.98
25	05-224	.1495	1-7/8	12	4.98
26	05-225	.1470	1-7/8	12	4.98
27	05-226	.1440	1-7/8	12	4.68
28	05-227	.1405	1-3/4	12	4.98
29	05-228	.1360	1-3/4	12	4.98
30	05-229	.1285	1-5/8	12	3.54
31	05-230	.1200	1-5/8	12	4.98
32	05-231	.1160	1-5/8	12	4.98
33	05-232	.1130	1-1/2	12	4.98
34	05-233	.1110	1-1/2	12	4.98
35	05-234	.1100	1-1/2	12	4.98
36	05-235	.1065	1-7/16	12	4.98
37	05-236	.1040	1-7/16	12	4.98
40	05-239	.0980	1-3/8	12	3.48
41	05-240	.0960	1-3/8	12	4.98
42	05-241	.0935	1-1/4	12	6.57
43	05-242	.0890	1-1/4	12	6.57
44	05-243	.0860	1-1/8	12	6.57
45	05-244	.0820	1-1/8	12	6.57
46	05-245	.0810	1-1/8	12	6.57
47	05-246	.0785	1	12	6.57
48	05-247	.0760	1	12	6.38
49	05-248	.0730	1	12	6.38
50	05-249	.0700	1	12	4.64
51	05-250	.0670	1	12	6.38
52	05-251	.0635	7/8	12	6.38

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FRACTIONAL SIZES - 6" OVERALL LENGTH

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE (\$)
1/16	04-100	.0625	7/8	12	\$ 4.46
5/64	04-101	.0781	1	12	4.58
3/32	04-102	.0938	1-1/4	12	3.97
7/64	04-103	.1094	1-1/2	12	3.86
1/8	04-104	.1250	1-5/8	12	3.68
9/64	04-105	.1406	1-3/4	12	4.46
5/32	04-106	.1562	2	12	4.13
11/64	04-107	.1719	2-1/8	12	4.78
3/16	04-108	.1875	2-5/16	12	4.56
13/64	04-109	.2031	2-7/16	12	5.17
7/32	04-110	.2188	2-1/2	12	5.54
15/64	04-111	.2344	2-5/8	12	6.07
1/4	04-112	.2500	2-3/4	12	5.97
17/64	04-125	.2656	2-7/8	12	10.28
9/32	04-114	.2812	2-15/16	12	12.28
19/64	04-116	.2969	3-1/16	6	14.66
5/16	04-115	.3125	3-3/16	6	11.74
21/64	04-121	.3281	3-5/16	6	15.21
11/32	04-120	.3438	3-7/16	6	16.79
23/64	04-124	.3594	3-1/2	6	17.72
3/8	04-113	.3750	3-5/8	6	16.87
25/64	04-118	.3906	3-3/4	6	18.57
13/32	04-119	.4062	3-7/8	6	18.04
27/64	04-126	.4219	3-15/16	6	19.75
7/16	04-117	.4375	4-1/16	6	20.17

LETTER SIZES - 6" OVERALL LENGTH

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE (\$)
B	06-418	.2380	2-3/4	6	\$ 12.74
C	06-408	.2420	2-3/4	6	12.74
D	06-403	.2460	2-3/4	6	7.98
F	06-402	.2570	2-7/8	6	11.51
G	06-401	.2610	2-7/8	6	11.98
H	06-412	.2660	2-7/8	6	12.09
I	06-413	.2720	2 7/8	6	12.91
J	06-404	.2770	2-7/8	6	12.91
K	06-405	.2810	2-15/16	6	13.57
M	06-409	.2950	3-1/16	6	13.87
N	06-410	.3020	3-1/16	6	13.87
U	06-407	.3680	3-5/8	6	15.94



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WIRE SIZES - 12" OVERALL LENGTH

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE (\$)
1	07-401	.2280	2-5/8	6	\$ 12.64
2	07-402	.2210	2-5/8	6	12.64
3	07-403	.2130	2-1/2	6	11.18
4	07-404	.2090	2-1/2	6	12.34
5	07-405	.2055	2-1/2	6	11.18
6	07-406	.2040	2-1/2	6	12.44
7	07-407	.2010	2-7/16	6	11.18
8	07-408	.1990	2-7/16	6	10.86
9	07-409	.1960	2-7/16	6	12.14
10	07-410	.1935	2-7/16	12	9.83
11	07-411	.1910	2-5/16	12	9.94
12	07-412	.1890	2-5/16	12	9.94
13	07-413	.1850	2-5/16	12	9.94
14	07-414	.1820	2-5/16	12	9.94
15	07-415	.1800	2-3/16	12	10.52
16	07-416	.1770	2-3/16	12	9.46
17	07-417	.1730	2-3/16	12	10.54
18	07-418	.1695	2-1/8	12	10.54
19	07-419	.1660	2-1/8	12	10.54
20	07-420	.1610	2-1/8	12	8.82
21	07-421	.1590	2-1/8	12	8.82
22	07-422	.1570	2	12	9.58
23	07-423	.1540	2	12	9.58
24	07-424	.1520	2	12	9.58
25	07-425	.1495	1-7/8	12	9.58
26	07-426	.1470	1-7/8	12	9.58
27	07-427	.1440	1-7/8	12	9.47
28	07-428	.1405	1-3/4	12	9.47
29	07-429	.1360	1-3/4	12	9.47
30	07-430	.1285	1-5/8	12	8.26
31	07-431	.1200	1-5/8	12	9.56
32	07-432	.1160	1-5/8	12	9.56
33	07-433	.1130	1-1/2	12	9.56
34	07-434	.1110	1-1/2	12	9.56
35	07-435	.1100	1-1/2	12	9.56
36	07-436	.1065	1-7/16	12	9.56
37	07-437	.1040	1-7/16	12	9.56
38	07-438	.1015	1-7/16	12	9.56
39	07-439	.0995	1-3/8	12	9.56
40	07-440	.0980	1-3/8	12	8.18
41	07-441	.0960	1-3/8	12	9.03
42	07-442	.0935	1-1/4	12	9.03
43	07-443	.0890	1-1/4	12	9.03
44	07-444	.0860	1 1/8	12	9.03
45	07-445	.0820	1 1/8	12	9.03
46	07-446	.0810	1 1/8	12	9.03
47	07-447	.0785	1	12	9.03
48	07-448	.0760	1	12	9.03
49	07-449	.0730	1	12	9.03
50	07-450	.0700	1	12	9.03
51	07-451	.0670	1	12	9.03
52	07-452	.0635	7/8	12	9.03

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.

FRACTIONAL SIZES - 12" OVERALL LENGTH

DIAMETER NUMBER	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE (\$)
1/16	06-300	.0625	7/8	12	\$ 9.03
5/64	06-301	.0781	1	12	9.03
3/32	06-302	.0938	1-1/4	12	6.98
7/64	06-303	.1094	1-1/2	12	8.24
1/8	06-304	.1250	1-5/8	12	8.08
9/64	06-305	.1406	1-3/4	12	9.04
5/32	06-306	.1562	2	12	8.66
11/64	06-307	.1719	2-1/8	12	8.96
3/16	06-308	.1875	2-5/16	12	8.96
13/64	06-309	.2031	2-7/16	12	9.77
7/32	06-310	.2188	2-1/2	12	10.79
15/64	06-311	.2344	2-5/8	6	11.57
1/4	06-312	.2500	2-3/4	6	11.02
17/64	06-325	.2656	2-7/8	6	16.17
9/32	06-316	.2812	2-15/16	6	15.97
19/64	06-317	.2969	3-1/16	6	16.79
5/16	06-313	.3125	3-1/16	6	16.04
21/64	06-326	.3281	3-5/16	6	17.83
11/32	06-321	.3438	3-7/16	6	17.94
23/64	06-322	.3594	3-1/2	6	20.03
3/8	06-314	.3750	3-5/8	6	20.93
25/64	06-327	.3906	3-3/4	3	22.17
13/32	06-320	.4062	3-7/8	3	23.26
27/64	06-324	.4219	3-15/16	3	24.63
7/16	06-318	.4375	4-1/16	3	24.94
29/64	06-328	.4531	4-3/16	3	29.09
15/32	06-315	.4688	4-5/16	3	29.67
31/64	06-329	.4844	4-3/8	3	29.98
1/2	06-319	.5000	4-1/2	3	32.97

LETTER SIZE - 12" OVERALL LENGTH

LETTER SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE (\$)
D	06-501	.2460	2-3/4	12	\$ 14.68



INDUSTRIAL TOOL PRODUCTS

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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	\$ 1.84
30	01-030D	.1285	15/16	2-3/4	12	2.36
21	01-021D	.1590	1-1/16	3-1/4	12	2.46
13	01-013D	.1850	1-1/8	3-1/2	12	2.87
10	01-010D	.1935	1-3/16	3-5/8	12	3.14
1/4	02-073D	.2500	1-3/8	4	12	3.97

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	\$ 5.67
6	13-SB06	.2040	2-1/2	3-3/4	12	5.78
8	13-SB08	.1990	2-7/16	3-5/8	12	5.49
10	13-SB10	.1935	2-7/16	3-5/8	12	4.68
11	13-SB11	.1910	2-5/16	3-1/2	12	4.68
12	13-SB12	.1890	2-5/16	3-1/2	12	4.68
13	13-SB13	.1850	2-5/16	3-1/2	12	4.22
15	13-SB15	.1800	2-5/16	3-3/8	12	4.57
16	13-SB16	.1770	2-3/16	3-3/8	12	4.96
20	13-SB20	.1610	2-1/8	3-1/4	12	4.96
21	13-SB21	.1590	2-1/8	3-1/4	12	4.47
27	13-SB27	.1440	1-7/8	3	12	4.68
30	13-SB30	.1285	1-5/8	2-3/4	12	3.37
40	13-SB40	.0980	1-3/8	2-3/8	12	3.07
1/8	13-SB65	.1250	1-5/8	2-3/4	12	4.23
5/32	13-SB67	.1562	2	3-1/8	12	4.38
3/16	13-SB69	.1875	2-5/16	3-1/2	12	4.66
D	13-SB93	.2460	2-3/4	4	12	6.12
1/4	13-SB73	.2500	2-3/4	4	12	6.47
5/16	13-SB77	.3125	3-3/16	4-1/2	12	7.92

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	\$ 9.82
6	14-SB06	.2040	2-1/2	12	11.44
8	14-SB08	.1990	2-7/16	12	11.56
10	14-SB10	.1935	2-7/16	12	9.01
11	14-SB11	.1910	2-5/16	12	9.01
12	14-SB12	.1890	2-5/16	12	9.01
13	14-SB13	.1850	2-5/16	12	8.74
15	14-SB15	.1800	2-5/16	12	10.64
16	14-SB16	.1770	2-3/16	12	8.79
20	14-SB20	.1610	2-1/8	12	8.27
21	14-SB21	.1590	2-1/8	12	8.16
27	14-SB27	.1440	1-7/8	12	7.84
30	14-SB30	.1285	1-5/8	12	7.57
40	14-SB40	.0980	1-3/8	12	7.46
1/8	14-SB65	.1250	1-5/8	12	8.17
5/32	14-SB67	.1562	2	12	8.47
3/16	14-SB69	.1875	2-5/16	12	8.62
D	14-SB93	.2460	2-3/4	12	10.27
1/4	14-SB73	.2500	2-3/4	6	10.27
5/16	14-SB77	.3125	3-3/16	6	15.16

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	\$ 6.04
6	13-DM06	.2040	2-1/2	3-3/4	12	6.04
8	13-DM08	.1990	2-7/16	3-5/8	12	6.04
10	13-DM10	.1935	2-7/16	3-5/8	12	5.82
11	13-DM11	.1910	2-5/16	3-1/2	12	5.82
12	13-DM12	.1890	2-5/16	3-1/2	12	5.82
---	13-DM70	.1870	2-5/16	3-1/2	12	6.46
13	13-DM13	.1850	2-5/16	3-1/2	12	5.82
15	13-DM15	.1800	2-3/16	3-3/8	12	4.82
16	13-DM16	.1770	2-3/16	3-3/8	12	4.58
19	13-DM19	.1660	2-1/8	3-1/4	12	4.58
20	13-DM20	.1610	2-1/8	3-1/4	12	4.16
21	13-DM21	.1590	2-1/8	3-1/4	12	4.16
27	13-DM27	.1440	1-7/8	3	12	4.38
30	13-DM30	.1285	1-5/8	2-3/4	12	3.82
40	13-DM40	.0980	1-3/8	2-3/8	12	3.98

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	\$ 4.12
7/64	13-DM64	.1094	1-1/2	2-5/8	12	4.12
1/8	13-DM65	.1250	1-5/8	2-3/4	12	4.38
9/64	13-DM66	.1406	1-3/4	2-7/8	12	4.58
5/32	13-DM67	.1562	2	3-1/8	12	4.58
11/64	13-DM68	.1719	2 -1/8	3-1/4	12	4.82
3/16	13-DM69	.1875	2-5/16	3-1/2	12	6.14
7/32	13-DM71	.2188	2-1/2	3-3/4	12	6.26
1/4	13-DM73	.2500	2-3/4	4	12	6.92
5/16	13-DM77	.3125	3-3/16	4-1/2	12	10.34
3/8	13-DM81	.3750	3-5/8	5	6	12.26
D	13-DM93	.2460	2-3/4	4	12	7.68
F	13-DM95	.2570	2-7/8	4-1/8	12	8.02
G	13-DM96	.2610	2-7/8	4-1/8	12	8.14

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	\$ 7.84
27x40	13-106	.1440	.0980	1-7/8	3	1/4	6	8.62
21x40	13-114	.1590	.0980	2-1/8	3-1/4	1/4	6	8.38
21x30	13-107	.1590	.1285	2-1/8	3-1/4	1/4	6	8.38
20x40	13-117	.1610	.0980	2-1/8	3-1/4	1/4	6	8.82
20x30	13-115	.1610	.1285	2-1/8	3-1/4	1/4	6	8.82
16x40	13-118	.1770	.0980	2-3/16	3-3/8	1/4	6	8.82
16x30	13-119	.1770	.1285	2-3/16	3-3/8	1/4	6	8.82
13x40	13-121	.1850	.0980	2-5/16	3-1/2	1/4	6	8.82
13x30	13-128	.1850	.1285	2-5/16	3-1/2	1/4	6	8.82
13x21	13-135	.1850	.1590	2-5/16	3-1/2	1/4	6	8.82
12x40	13-142	.1890	.0980	2-5/16	3-1/2	1/4	6	9.64
12x30	13-149	.1890	.1285	2-5/16	3-1/2	1/4	6	9.64
12x21	13-156	.1890	.1590	2-5/16	3-1/2	1/4	6	9.64
11x30	13-170	.1910	.1285	2-5/16	3-1/2	1/4	6	9.64
11x21	13-163	.1910	.1590	2-5/16	3-1/2	1/4	6	9.64
10x40	13-184	.1935	.0980	2-7/16	3-5/8	1/4	6	9.64
10x30	13-177	.1935	.1285	2-7/16	3-5/8	1/4	6	9.64
10x21	13-191	.1935	.1590	2-7/16	3-5/8	1/4	6	9.64
Dx13	13-205	.2460	.1850	2-3/4	4	5/16	6	10.48
Dx3/16	13-198	.2460	.1875	2-3/4	4	5/16	6	10.48
1/4x30	13-230	.2500	.1285	2-3/4	4	5/16	6	10.67
1/4x21	13-327	.2500	.1590	2-3/4	4	5/16	6	10.67
1/4x11	13-223	.2500	.1910	2-3/4	4	5/16	6	10.67
1/4x10	13-216	.2500	.1935	2-3/4	4	5/16	6	10.67
5/16x1/4	13-244	.3125	.2500	3-3/16	4-1/2	5/16	6	12.58
3/8x1/4	13-250	.3750	.2500	3-5/8	5	3/8	6	21.32
3/8x5/16	13-255	.3750	.3125	3-5/8	5	3/8	6	21.32

NOTE: OTHER SIZES 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	\$ 12.96
13-410	.2158	.2000	2-5/8	3-3/4	1/4	6	12.96
13-420	.2314	.2158	2-3/4	4	1/4	6	12.96
13-430	.2470	.2314	2-3/4	4	5/16	6	12.96
13-440	.2621	.2470	2-7/8	4-1/8	5/16	6	12.96
13-450	.2782	.2621	2-15/16	4-1/4	5/16	6	12.96

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION



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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	\$ 9.98
6	14-DM06	.2040	2-1/2	6	6	9.98
8	14-DM08	.1990	2-7/16	6	6	9.98
10	14-DM10	.1935	2-7/16	6	6	9.74
11	14-DM11	.1910	2-5/16	6	6	9.74
12	14-DM12	.1890	2-5/16	6	6	9.74
13	14-DM13	.1850	2-3/16	6	6	9.74
15	14-DM15	.1800	2-3/16	6	6	8.82
16	14-DM16	.1770	2-3/16	6	6	8.82
19	14-DM19	.1660	2-1/8	6	6	8.82
20	14-DM20	.1610	2-1/8	6	6	8.18
21	14-DM21	.1590	2-1/8	6	6	8.18
27	14-DM27	.1440	1-7/8	6	6	8.36
30	14-DM30	.1285	1-5/8	6	6	7.87
40	14-DM40	.0980	1-3/8	6	6	7.96

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	\$ 9.16
7/64	14-DM64	.1094	1-1/2	6	6	8.12
1/8	14-DM65	.1250	1-5/8	6	6	8.36
9/64	14-DM66	.1406	1-3/4	6	6	8.58
5/32	14-DM67	.1562	2	6	6	8.58
11/64	14-DM68	.1719	2-1/8	6	6	8.78
3/16	14-DM69	.1875	2-5/16	6	6	10.04
7/32	14-DM71	.2188	2-1/2	6	6	10.16
1/4	14-DM73	.2500	2-3/4	6	6	11.12
5/16	14-DM77	.3125	3-3/16	6	6	16.14
3/8	14-DM81	.3750	3-5/8	6	6	17.96
D	14-DM93	.2460	2-3/4	6	6	17.96
F	14-DM95	.2570	2-7/8	6	6	18.66
G	14-DM96	.2610	2-7/8	6	6	18.66

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION
PILOTED EXTENSIONS 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

DRILL SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE (\$)
5	09-005	.2055	1-3/4	3	1	\$ 32.46
8	09-008	.1990	1-3/4	3	1	31.96
10	09-010	.1935	1-5/8	2-3/4	1	27.22
12	09-012	.1890	1-5/8	2-3/4	1	27.22
13	09-013	.1850	1-5/8	2-3/4	1	26.94
16	09-016	.1770	1-5/8	2-3/4	1	26.06
20	09-020	.1610	1-3/8	2-1/2	1	22.42
21	09-021	.1590	1-3/8	2-1/2	1	22.42
27	09-027	.1440	1-3/8	2-1/2	1	21.24
30	09-030	.1285	1-1/4	2-1/4	1	16.34
40	09-040	.0980	1	2	1	14.58

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

FRACTIONAL SIZES

DRILL SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE (\$)
1/16"	09-061	.0625	3/4"	1-1/2	1	\$ 12.89
5/64"	09-062	.0781	7/8	1-3/4	1	13.16
3/32"	09-063	.0938	1	2	1	13.76
7/64"	09-064	.1094	1-1/4	2-1/4	1	14.42
1/8"	09-065	.1250	1-1/4	2-1/4	1	15.28
9/64"	09-066	.1406	1-3/8	2-1/2	1	20.08
5/32"	09-067	.1562	1-3/8	2-1/2	1	21.11
11/64"	09-068	.1719	1-5/8	2-3/4	1	25.86
3/16"	09-069	.1875	1-5/8	2-3/4	1	25.34
13/64"	09-070	.2031	1-3/4	3	1	31.94
7/32"	09-071	.2188	1-3/4	3	1	30.92
15/64"	09-072	.2344	2	3-1/4	1	37.62
1/4"	09-073	.2500	2	3-1/4	1	38.74
17/64"	09-074	.2656	2-1/8	3-1/2	1	46.77
9/32"	09-075	.2812	2-1/8	3-1/2	1	48.28
19/64"	09-076	.2969	2-3/8	3-3/4	1	58.34
5/16"	09-077	.3125	2-3/8	3-3/4	1	58.34

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION



INDUSTRIAL TOOL PRODUCTS

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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.

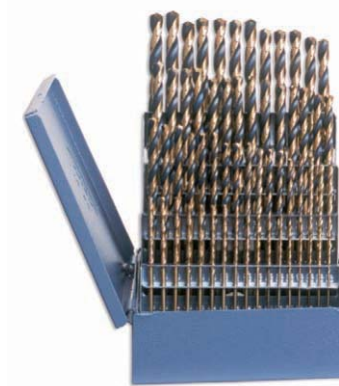


SILVER AND DEMING - 1/2" SHANK

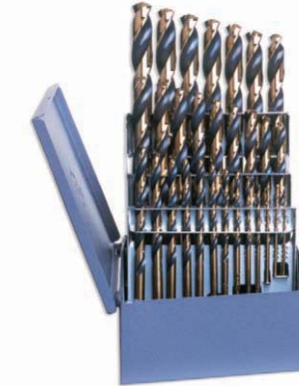
DIAMETER INCHES	PART NUMBER	DECIMAL EQUIVALENT INCHES	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE (\$)
17/32	07-200	.5310	3-1/8	6	1	\$ 26.94
9/16	07-201	.5625	3-1/8	6	1	28.74
19/32	07-202	.5938	3-1/8	6	1	31.28
5/8	07-203	.6250	3-1/8	6	1	33.94
21/32	07-204	.6562	3-1/8	6	1	36.64
11/16	07-205	.6875	3-1/8	6	1	39.52
23/32	07-206	.7188	3-1/8	6	1	42.46
3/4	07-207	.7500	3-1/8	6	1	46.56
25/32	07-208	.7812	3-1/8	6	1	48.86
13/16	07-209	.8125	3-1/8	6	1	52.14
27/32	07-210	.8438	3-1/8	6	1	55.52
7/8	07-211	.8750	3-1/8	6	1	59.06
29/32	07-212	.9062	3-1/8	6	1	62.68
15/16	07-213	.9375	3-1/8	6	1	66.42
31/32	07-214	.9688	3-1/8	6	1	69.34
1	07-215	1.0000	3-1/8	6	1	74.72

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
\$171.98 Each**



**29 Piece Fractional Set
1/16" - 1/2" by 64ths
Part #16-402
\$177.96 Each**



**26 Piece Letter Set
A thru Z
Part #16-403
\$175.99 Each**



**21 Piece Fractional Set
1/16" - 3/8" by 64ths
Part #16-505
\$83.97 Each**



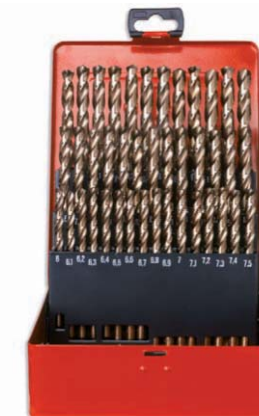
**16 Piece Fractional Set
1/16" - 1/4" by 64ths
Part #16-410
\$37.98 Each**



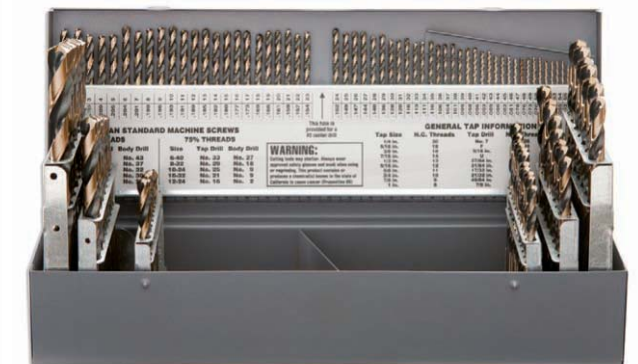
**8 Piece Silver & Deming Set
9/16" - 1" by 16ths
Part #16-404
\$381.96 Each**



**50 Piece Metric Drill Set
M1.00 - M5.90 by .10mm
Part #16-409
\$161.96 Each**



**41 Piece Metric Drill Set
M6.00 - M10.00 by .10mm
Part #16-411
\$383.97 Each**



**115 Piece Set
Includes 1/16" - 1/2" by 64ths;
#1 - #60; and A thru Z
Part #16-412
\$577.96 Each**



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AIRCRAFT TAPER ROUTER

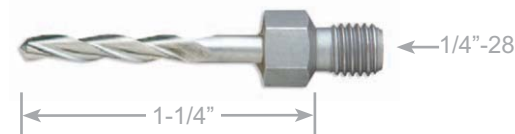
High Speed R.H. Helix, R.H. Cut Taper 1/4 Per Foot. Two-flute Taper routers are used for cutting, trimming and routing around cowling, door sills and plexi-glass, trimming on wing terminals in bulkheads and ribs on fuselage. The advantages over taper pin reamers and drills are the ability to cut without 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	\$ 3.98
2	15-302	.1280	.1100	.1280	7/8	2-1/4	4.38
3	15-303	.1875	.1650	.1875	1-1/16	2-1/2	7.42
4	15-304	.2500	.2240	.2500	1-1/4	3-3/4	8.24

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	\$ 10.68
2	15-306	.1100	1-1/4	10.87
3	15-307	.1650	1-1/4	12.18



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	\$ 27.58
2	38-302Tin	6	3/16 to 1/2	1/4	3/8	29.88
3	38-303Tin	9	1/4 to 3/4	3/8	1/8	34.47
4	38-304Tin	12	3/16 to 7/8	3/8	1/8	39.08
1, 2, 3, 4	38-310Tin	Complete Set - One of all 4 sizes in a case.				131,06

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	\$ 5.88
23-401	4/40 PLUG	3	12	5.88
23-402	4/40 BOTTOM	3	12	5.88
23-408	6/32 TAPER	3	12	5.97
23-409	6/32 PLUG	3	12	5.97
23-410	6/32 BOTTOM	3	12	5.97
23-411	8/32 TAPER	4	12	6.18
23-412	8/32 PLUG	4	12	6.18
23-413	8/32 BOTTOM	4	12	6.18
23-414	10/24 TAPER	4	12	6.28
23-415	10/24 PLUG	4	12	6.28
23-416	10/24 BOTTOM	4	12	6.28
23-417	10/32 TAPER	4	12	6.28
23-418	10/32 PLUG	4	12	6.28
23-419	10/32 BOTTOM	4	12	6.28
23-420	12/24 TAPER	4	12	6.67
23-421	12/24 PLUG	4	12	6.67
23-422	12/24 BOTTOM	4	12	6.67
23-423	1/4-20 TAPER	4	12	7.08
23-424	1/4-20 PLUG	4	12	7.08
23-425	1/4-20 BOTTOM	4	12	7.08
23-426	1/4-28 TAPER	4	12	6.78
23-427	1/4-28 PLUG	4	12	6.78
23-428	1/4-28 BOTTOM	4	12	6.78
23-429	5/16-18 TAPER	4	12	8.18
23-430	5/16-18 PLUG	4	12	8.18
23-431	5/16-18 BOTTOM	4	12	8.18
23-432	5/16-24 TAPER	4	12	8.18
23-433	5/16-24 PLUG	4	12	8.18
23-434	5/16-24 BOTTOM	4	12	8.18
23-435	3/8-16 TAPER	4	12	9.57
23-441	3/8-16 PLUG	4	12	9.57
23-442	3/8-16 BOTTOM	4	12	9.57
23-438	3/8-24 TAPER	4	12	9.57
23-439	3/8-24 PLUG	4	12	9.57
23-440	3/8-24 BOTTOM	4	12	9.57

THREADED SHANK ADAPTER DRILL

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

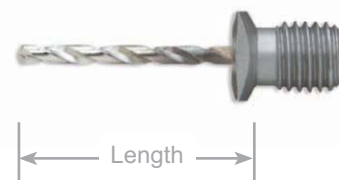


SIZE	DECIMAL EQUIVALENT INCHES	MILLIMETER EQUIVALENT	LENGTH VERY STUBBY	PART NUMBER	UNIT PRICE (\$)	LENGTH EXTRA LONG	PART NUMBER	UNIT PRICE (\$)
50	.0700	1.78	3/8	10-450	\$ 6.98	----	----	----
40	.0980	2.49	3/8	10-440	4.78	2-1/2	10-140	\$ 5.58
30	.1285	3.26	3/8	10-430	5.08	2-3/4	10-130	6.16
27	.1440	3.66	3/8	10-427	4.87	3	10-127	7.78
26	.1470	3.73	3/8	10-426	6.98	----	----	----
21	.1590	4.04	3/8	10-421	5.58	3	10-121	6.27
20	.1610	4.09	3/8	10-420	5.58	3	10-120	7.04
16	.1770	4.50	3/8	10-416	6.98	3	10-116	6.76
13	.1850	4.70	3/8	10-413	6.08	3	10-113	7.86
12	.1890	4.80	3/8	10-412	5.66	3	10-112	8.97
11	.1910	4.85	3/8	10-411	5.66	3	10-111	8.97
10	.1935	4.92	3/8	10-410	6.48	3	10-110	7.78
8	.1990	5.06	3/8	10-408	8.98	3	10-108	9.58
5	.2055	5.22	3/8	10-405	8.98	3	10-105	7.18
1/4	.2500	6.35	3/8	11-413	7.97	3	10-150	8.36

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

MINIATURE THREADED SHANK ADAPTER DRILL

SIZE	PART NUMBER	MILLIMETER EQUIVALENT	LENGTH INCHES	DECIMAL EQUIVALENT INCHES	UNIT PRICE (\$)
51	10-051	1.702	1	.0670	\$ 15.98
52	10-052	1.613	1	.0635	15.98
53	10-053	1.511	1	.0595	15.98
54	10-054	1.397	1	.0550	15.98
55	10-055	1.321	1	.0520	15.98
56	10-056	1.181	1	.0465	15.98
57	10-057	1.092	1	.0430	15.98
58	10-058	1.067	1	.0420	15.98
59	10-059	1.041	1	.0410	15.98
60	10-060	1.016	1	.0400	15.98



NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

THREADED SHANK ADAPTER DRILL

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”

COBALT
1/4-28 Thread



WIRE SIZES 1-25

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	\$ 9.04	2-1/8	10-201	\$ 9.28	5/8	10-301	\$ 8.64
2	.2210	5.61	1-1/4	10-002	7.02	2-1/8	10-202	7.22	5/8	10-302	7.74
3	.2130	5.41	1-1/4	10-003	6.09	2-1/8	10-203	6.76	5/8	10-303	7.89
4	.2090	5.31	1-1/4	10-004	8.54	2-1/8	10-204	8.68	5/8	10-304	7.04
5	.2055	5.22	1-1/4	10-005	6.38	2-1/8	10-205	6.64	5/8	10-305	7.04
6	.2040	5.18	1-1/4	10-006	6.38	2-1/8	10-206	6.74	5/8	10-306	6.98
7	.2010	5.11	1-1/4	10-007	5.98	2-1/8	10-207	6.08	5/8	10-307	6.48
8	.1990	5.06	1-1/4	10-008	5.26	2-1/8	10-208	5.87	5/8	10-308	6.28
9	.1960	4.98	1-1/4	10-009	6.06	2-1/8	10-209	8.38	9/16	10-309	6.89
10	.1935	4.92	1-1/4	10-010	5.34	2-1/8	10-210	5.52	9/16	10-310	6.14
11	.1910	4.85	1-1/4	10-011	5.54	2-1/8	10-211	6.34	9/16	10-311	6.36
12	.1890	4.80	1-1/4	10-012	5.72	2-1/8	10-212	6.02	9/16	10-312	6.54
13	.1850	4.70	1-1/4	10-013	5.68	2-1/8	10-213	5.78	9/16	10-313	5.86
14	.1820	4.62	1-1/4	10-014	7.46	2-1/8	10-214	8.38	9/16	10-314	7.18
15	.1800	4.57	1-1/4	10-015	7.46	2-1/8	10-215	6.97	9/16	10-315	7.18
16	.1770	4.50	1-1/4	10-016	5.16	2-1/8	10-216	5.73	9/16	10-316	5.96
17	.1730	4.39	1-1/4	10-017	6.08	2-1/8	10-217	7.32	9/16	10-317	6.56
18	.1695	4.30	1-1/4	10-018	5.98	2-1/8	10-218	7.56	9/16	10-318	7.08
19	.1660	4.22	1-1/4	10-019	5.02	2-1/8	10-219	5.44	9/16	10-319	5.48
20	.1610	4.09	1-1/4	10-020	4.52	2-1/8	10-220	5.32	9/16	10-320	5.16
21	.1590	4.04	1-1/4	10-021	4.52	2-1/8	10-221	5.38	9/16	10-321	5.46
22	.1570	3.99	1-1/4	10-022	5.26	2-1/8	10-222	6.47	9/16	10-322	7.48
23	.1540	3.91	1-1/4	10-023	5.26	2-1/8	10-223	7.38	9/16	10-323	7.48
24	.1520	3.86	1-1/4	10-024	5.98	2-1/8	10-224	7.38	9/16	10-324	7.48
25	.1495	3.80	1-1/4	10-025	5.98	2-1/8	10-225	7.38	9/16	10-325	7.48

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION



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THREADED SHANK ADAPTER DRILL

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”

COBALT
1/4-28 Thread



WIRE SIZES 26-50

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	\$ 6.68	2-1/8	10-226	\$ 6.96	9/16	10-326	\$ 5.48
27	.1440	3.66	1-1/4	10-027	4.36	2-1/8	10-227	4.78	9/16	10-327	4.86
28	.1405	3.57	1-1/4	10-028	7.46	2-1/8	10-228	7.57	9/16	10-328	7.46
29	.1360	3.45	1-1/4	10-029	6.96	2-1/8	10-229	6.68	9/16	10-329	6.96
30	.1285	3.27	1-1/4	10-030	3.97	2-1/8	10-230	4.32	9/16	10-330	4.78
31	.1200	3.05	1-1/4	10-031	5.16	2-1/8	10-231	6.38	9/16	10-331	7.52
32	.1160	2.95	1-1/4	10-032	7.28	2-1/8	10-232	7.58	9/16	10-332	7.78
33	.1130	2.87	1-1/4	10-033	7.89	2-1/8	10-233	7.58	9/16	10-333	7.89
34	.1110	2.82	1-1/4	10-034	7.89	2-1/8	10-234	7.58	9/16	10-334	7.89
35	.1100	2.79	1-1/4	10-035	7.89	2-1/8	10-235	7.58	1/2	10-335	7.89
36	.1065	2.71	1-1/4	10-036	7.89	2-1/8	10-236	7.58	1/2	10-336	7.89
37	.1040	2.64	1-1/4	10-037	7.89	2-1/8	10-237	7.58	1/2	10-337	7.89
38	.1015	2.58	1-1/4	10-038	7.89	2-1/8	10-238	7.58	1/2	10-338	7.89
39	.0995	2.53	1-1/4	10-039	7.89	2-1/8	10-239	7.58	1/2	10-339	7.89
40	.0980	2.49	1	10-040	3.76	2-1/8	10-240	4.24	1/2	10-340	4.64
41	.0960	2.44	1	10-041	5.89	2-1/8	10-241	7.48	1/2	10-341	8.06
42	.0935	2.37	1	10-042	7.89	2-1/8	10-242	7.79	1/2	10-342	8.06
43	.0890	2.26	1	10-043	7.89	2-1/8	10-243	7.79	1/2	10-343	8.06
44	.0860	2.18	1	10-044	7.89	2-1/8	10-244	7.79	1/2	10-344	8.06
45	.0820	2.08	1	10-045	7.89	2-1/8	10-245	7.79	1/2	10-345	8.06
46	.0810	2.06	1	10-046	7.89	2-1/8	10-246	7.79	1/2	10-346	8.06
47	.0785	1.99	1	10-047	7.89	2-1/8	10-247	7.79	1/2	10-347	8.06
48	.0760	1.93	1	10-048	7.89	2-1/8	10-248	7.79	1/2	10-348	8.06
49	.0730	1.85	1	10-049	7.89	2-1/8	10-249	7.79	1/2	10-349	8.06
50	.0700	1.78	1	10-050	5.18	2-1/8	10-250	5.68	1/2	10-350	6.48

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”

COBALT
1/4-28 Thread



FRACTIONAL SIZES

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	\$ 5.28	2-1/8	11-203	\$ 5.78	1/2	11-303	\$ 5.96
7/64	.1094	2.77	1	11-104	8.08	2-1/8	11-204	8.26	1/2	11-304	8.46
1/8	.1250	3.17	1	11-105	4.96	2-1/8	11-205	5.12	1/2	11-305	5.38
9/64	.1406	3.57	1-1/4	11-106	8.28	2-1/8	11-206	8.48	9/16	11-306	8.66
5/32	.1562	3.97	1-1/4	11-107	5.18	2-1/8	11-207	5.16	9/16	11-307	5.27
3/16	.1875	4.76	1-1/4	11-109	5.56	2-1/8	11-209	5.86	9/16	11-309	6.08
7/32	.2188	5.56	1-1/4	11-111	6.58	2-1/8	11-211	7.67	5/8	11-311	6.74
15/64	.2344	5.95	1-1/4	11-112	6.88	2-1/8	11-212	8.96	5/8	11-312	---
1/4	.2500	6.35	1-1/4	11-113	6.52	2-1/8	11-213	6.57	5/8	11-313	6.94
9/32	.2812	7.14	1-1/4	11-115	8.87	2-1/8	11-215	9.68	5/8	11-315	9.87
19/64	.2969	7.54	1-1/4	11-116	9.46	2-1/8	11-216	9.79	5/8	11-316	---
5/16	.3125	7.94	1-1/4	11-117	9.18	2-1/8	11-217	9.92	5/8	11-317	9.66
3/8	.3750	9.52	1-1/4	11-121	12.98	2-1/8	11-221	13.26	3/4	11-321	13.27

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION

LETTER SIZES

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	\$ 8.16	2-1/8	12-201	\$ 8.89	5/8	12-301	\$ 8.16
B	.2380	6.04	1-1/4	12-102	8.16	2-1/8	12-202	8.82	5/8	12-302	8.16
C	.2420	6.15	1-1/4	12-103	8.16	2-1/8	12-203	8.36	5/8	12-303	8.16
D	.2460	6.25	1-1/4	12-104	7.57	2-1/8	12-204	7.72	5/8	12-304	7.78
F	.2570	6.53	1-1/4	12-106	6.94	2-1/8	12-206	7.96	5/8	12-306	7.87
G	.2610	6.63	1-1/4	12-107	7.24	2-1/8	12-207	7.88	5/8	12-307	8.06
H	.2660	6.75	1-1/4	12-108	8.98	2-1/8	12-208	10.56	5/8	12-308	11.87
J	.2770	7.03	1-1/4	12-110	10.67	2-1/8	12-210	10.98	5/8	12-310	---
K	.2810	7.14	1-1/4	12-111	8.86	2-1/8	12-211	9.68	5/8	12-311	9.89
L	.2900	7.37	1-1/4	12-112	---	2-1/8	12-212	10.54	5/8	12-312	---
M	.2950	7.49	1-1/4	12-113	9.68	2-1/8	12-213	---	5/8	12-313	---
N	.3020	7.67	1-1/4	12-114	9.52	2-1/8	12-214	10.78	5/8	12-314	11.88
O	.3160	8.03	1-1/4	12-115	9.52	2-1/8	12-215	---	5/8	12-315	---
U	.3680	9.34	1-1/4	12-121	11.87	2-1/8	12-221	12.36	3/4	12-321	13.86

NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION



INDUSTRIAL TOOL PRODUCTS

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THREADED SHANK ADAPTER DRILL

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%



SIZE	DECIMAL EQUIVALENT INCHES	MILLIMETER EQUIVALENT	UNIT PRICE EACH			
			SHORT SERIES	LONG SERIES	STUBBY SERIES	VERY STUBBY SERIES
#40	.0980	2.49	\$ 2.84	\$ 3.18	\$ 3.48	\$ 3.58
#30	.1285	3.26	2.96	3.24	3.57	3.82
#27	.1440	3.66	3.28	3.54	3.64	---
#21	.1590	4.04	3.42	4.38	4.14	4.18
#20	.1610	4.09	3.38	3.97	3.88	---
#19	.1660	4.22	3.74	4.06	4.12	---
#16	.1770	4.50	3.86	4.27	4.47	---
#13	.1850	4.70	4.26	4.34	4.38	---
#12	.1890	4.80	4.28	4.72	4.88	---
#11	.1910	4.85	4.18	4.74	4.79	---
#10	.1935	4.92	3.98	4.12	4.56	4.82
#8	.1990	5.06	3.96	4.42	4.68	---
D	.2460	6.25	5.68	5.57	5.86	---
1/4	.2500	6.35	4.86	4.94	5.18	---

OTHER SIZES AVAILABLE, CALL FOR PRICE
ALL SIZES 100 PIECES PER PACKAGE

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
\$39.50 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	\$ 2.48
40	30-635	1-5/16	.0990	ZINC	25	1.78
30	30-636	1-5/16	.1300	COPPER	25	1.78
27	30-633	1-5/16	.1460	ZINC	25	2.48
21	30-639	1-1/2	.1610	BLACK	25	1.78
20	30-632	1-1/2	.1630	ZINC	25	1.78
16	30-634	1-1/2	.1790	BLACK	25	2.48
12	30-638	1-1/2	.1910	BRASS	25	2.48
10	30-641	1-1/2	.1950	BRASS	25	1.78
1/4	30-642	2-1/8	.2530	COPPER	25	2.06
5/16	30-640	2-1/8	.3150	COPPER	25	2.97

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