

713

PAN AMERICAN TOOL CORPORATION

DOUBLE MARGIN DRILLS
PILOTED 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 resalable condition and is in the original package with sales receipt or invoice. Credit will be issued based on customers 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: 0PFP1

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DOUBLE MARGIN DRILLS

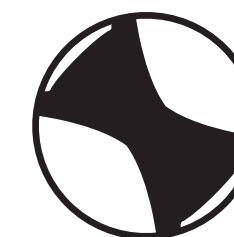
Double margin drills have an additional margin ground behind the leading margin, providing twice the number of contact points. This second margin performs various functions to improve hole quality.



DOUBLE MARGIN DRILL CLOSE UP



SINGLE MARGIN DRILL



DOUBLE MARGIN DRILL

- The trailing margin burnishes the cavity, making a true hole and smoother finish, helping to provide a more concentric drilled hole.
- A reamer finish can be achieved with double margin drills, eliminating a second operation.
- When a double margin drill is used with a drill bushing, the four margins locate in the bushing, providing increased bushing support in excess of 200%.
- When intermittent cutting is required, the double margin drill performs in two ways: enhanced margin support in the first cavity cut, and support on breakthrough, which stops the drill from wandering when in contact with the work piece.
- Drill back taper is more tightly controlled than a regular drill, enhancing a rounder hole location.
- 135 degree split point provides immediate self-centering on contact with the work piece, and reduces thrust, due to its notch-type web thinning at the chisel edge length. The split point is excellent for drilling harder materials (titanium, stainless steel, and high temperature alloys).
- The bronze-gold drill color is an easy way to identify these tools as being cobalt aircraft drills, and is easy to group when sharpening.

With all these features incorporated in this double margin drill, it is excellent for hand drilling.



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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



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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	\$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

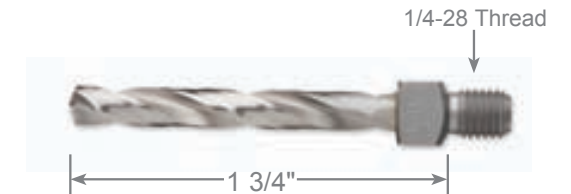
PART NUMBER	DECIMAL EQUIVALENT INCHES	PILOT DIAMETER	FLUTE LENGTH INCHES	OVERALL LENGTH INCHES	PILOT LENGTH INCHES	PIECES PER PACKAGE	UNIT PRICE
13-400	.2000	.1870	2-7/16	3-5/8	1/4	6	\$6.50
13-410	.2158	.2000	2-5/8	3-3/4	1/4	6	6.50
13-420	.2314	.2158	2-3/4	4	1/4	6	6.50
13-430	.2470	.2314	2-3/4	4	5/16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

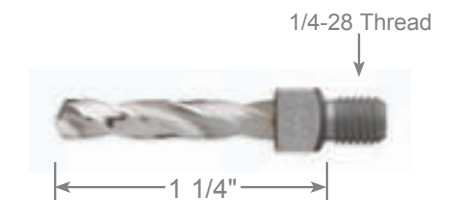
COBALT THREADED SHANK DOUBLE MARGIN DRILLS

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 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

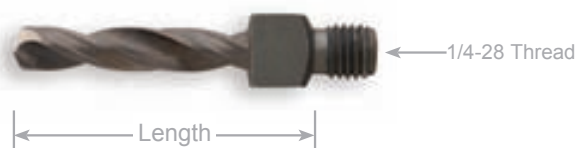
OTHER SIZES AVAILABLE, PRICE ON APPLICATION



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	SIZE	PART NUMBER	DECIMAL EQUIVALENT INCHES	OVERALL LENGTH INCHES	UNIT PRICE
40	15-DM40	.0980	1-3/4	\$4.75	40	16-DM40	.0980	1-1/4	\$4.75
30	15-DM30	.1285	1-3/4	4.85	30	16-DM30	.1285	1-1/4	4.85
27	15-DM27	.1440	1-3/4	6.17	27	16-DM27	.1440	1-1/4	6.17
21	15-DM21	.1590	1-3/4	5.15	21	16-DM21	.1590	1-1/4	6.26
20	15-DM20	.1610	1-3/4	5.25	20	16-DM20	.1610	1-1/4	6.43
16	15-DM16	.1770	1-3/4	6.58	16	16-DM16	.1770	1-1/4	6.58
13	15-DM13	.1850	1-3/4	5.45	13	16-DM13	.1850	1-1/4	6.58
12	15-DM12	.1890	1-3/4	6.45	12	16-DM12	.1890	1-1/4	6.45
11	15-DM11	.1910	1-3/4	5.75	11	16-DM11	.1910	1-1/4	6.45
10	15-DM10	.1935	1-3/4	6.52	10	16-DM10	.1935	1-1/4	6.52
8	15-DM08	.1990	1-3/4	6.60	1/4	16-DM73	.2500	1-1/4	7.27
6	15-DM06	.2040	1-3/4	6.70	D	16-DM93	.2460	1-1/4	7.50
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					



NOTE: OTHER SIZES AVAILABLE, PRICE ON APPLICATION
PILOTTED AVAILABLE, PRICE ON APPLICATION



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