

# Taper Length Drills

**Straight Shank – High Speed Steel**  
**118° Point – Treated (Black Oxide)**  
**General Purpose**

Taper length drills have approximately the same flute lengths and overall lengths as taper shank drills, for deeper hole drilling. Shanks are the same diameter as the drill body. Recommended for drilling a wide range of materials.

Foret long

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**List No. 1314 Fractional**  
**List No. 1322 Wire Gage**

**STANDARD PACKAGE**    **Fractional Sizes**  
 3/64" thru 15/64" — 12 each  
 1/4" thru 3/8" — 6 each  
 25/64" and over — 1 each

**Wire Gage Sizes**  
 #1 thru #60 — 12 each

FRAC-TIONAL	SIZE	WIRE GAGE	DEC. EQUIV.	FLUTE LENGTH	OAL	1314, 1322 EDP NO.
		60	.0400	1 1/8	2 1/4	11051
		59	.0410	1 1/8	2 1/4	11052
		58	.0420	1 1/8	2 1/4	11053
		57	.0430	1 1/8	2 1/4	11054
		56	.0465	1 1/8	2 1/4	11055
3/64			.0469	1 1/8	2 1/4	10553
		55	.0520	1 3/4	3	11056
		54	.0550	1 3/4	3	11057
		53	.0595	1 3/4	3	11058
1/16			.0625	1 3/4	3	10554
		52	.0635	2	3 3/4	11059
		51	.0670	2	3 3/4	11060
		50	.0700	2	3 3/4	11061
		49	.0730	2	3 3/4	11062
		48	.0760	2	3 3/4	11063
5/64			.0781	2	3 3/4	10555
		47	.0785	2 1/4	4 1/4	11064
		46	.0810	2 1/4	4 1/4	11065
		45	.0820	2 1/4	4 1/4	11066
		44	.0860	2 1/4	4 1/4	11067
		43	.0890	2 1/4	4 1/4	11068
		42	.0935	2 1/4	4 1/4	11069
3/32			.0938	2 1/4	4 1/4	10556
		41	.0960	2 1/2	4 5/8	11070
		40	.0980	2 1/2	4 5/8	11071
		39	.0995	2 1/2	4 5/8	11072
		38	.1015	2 1/2	4 5/8	11073
		37	.1040	2 1/2	4 5/8	11074
		36	.1065	2 1/2	4 5/8	11075
7/64			.1094	2 1/2	4 5/8	10557
		35	.1100	2 3/4	5 1/8	11076
		34	.1110	2 3/4	5 1/8	11077
		33	.1130	2 3/4	5 1/8	11078
		32	.1160	2 3/4	5 1/8	11079
		31	.1200	2 3/4	5 1/8	11080
1/8			.1250	2 3/4	5 1/8	10558
		30	.1285	3	5 3/8	11081
		29	.1360	3	5 3/8	11082
		28	.1405	3	5 3/8	11083
9/64			.1406	3	5 3/8	10559
		27	.1440	3	5 3/8	11084
		26	.1470	3	5 3/8	11085
		25	.1495	3	5 3/8	11086

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## Taper Length Drills (continued)

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List No. 1314, 1322

FRAC-TIONAL	SIZE	WIRE GAGE	DEC. EQUIV.	FLUTE LENGTH	OAL	1314, 1322 EDP NO.
5/32		24	.1520	3	5 3/8	11087
		23	.1540	3	5 3/8	11088
			.1562	3	5 3/8	10560
		22	.1570	3 3/8	5 3/4	11089
		21	.1590	3 3/8	5 3/4	11090
11/64		20	.1610	3 3/8	5 3/4	11091
		19	.1660	3 3/8	5 3/4	11092
		18	.1695	3 3/8	5 3/4	11093
			.1719	3 3/8	5 3/4	10561
		17	.1730	3 3/8	5 3/4	11094
3/16		16	.1770	3 3/8	5 3/4	11095
		15	.1800	3 3/8	5 3/4	11096
		14	.1820	3 3/8	5 3/4	11097
		13	.1850	3 3/8	5 3/4	11098
			.1875	3 3/8	5 3/4	10562
13/64		12	.1890	3 3/8	6	11099
		11	.1910	3 3/8	6	11100
		10	.1935	3 3/8	6	11101
		9	.1960	3 3/8	6	11102
		8	.1990	3 3/8	6	11103
7/32		7	.2010	3 3/8	6	11104
			.2031	3 3/8	6	10563
		6	.2040	3 3/8	6	11105
		5	.2055	3 3/8	6	11106
		4	.2090	3 3/8	6	11107
15/64		3	.2130	3 3/8	6	11108
			.2188	3 3/8	6	10564
		2	.2210	3 3/4	6 1/8	11109
1/4		1	.2280	3 3/4	6 1/8	11110
			.2344	3 3/4	6 1/8	10565
17/64			.2500	3 3/4	6 1/8	10566
9/32			.2656	3 7/8	6 1/4	10567
19/64			.2812	3 7/8	6 1/4	10568
5/16			.2969	4	6 3/8	10569
21/64			.3125	4	6 3/8	10570
11/32			.3281	4 1/8	6 1/2	10571
23/64			.3438	4 1/8	6 1/2	10572
3/8			.3594	4 1/4	6 3/4	10573
25/64			.3750	4 1/4	6 3/4	10574
13/32			.3906	4 3/8	7	10575
27/64			.4062	4 3/8	7	10576
7/16			.4219	4 5/8	7 1/4	10577
29/64			.4375	4 5/8	7 1/4	10578
15/32			.4531	4 3/4	7 1/2	10579
31/64			.4688	4 3/4	7 1/2	10580
1/2			.4844	4 3/4	7 3/4	10581
33/64			.5000	4 3/4	7 3/4	10582
17/32			.5156	4 3/4	8	10583
35/64			.5312	4 3/4	8	10584
9/16			.5469	4 7/8	8 1/4	10585
37/64			.5625	4 7/8	8 1/4	10586
19/32			.5781	4 7/8	8 3/4	10587
39/64			.5938	4 7/8	8 3/4	10588
5/8			.6094	4 7/8	8 3/4	10589
41/64			.6250	4 7/8	8 3/4	10590
			.6406	5 1/8	9	10591

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# Taper Length Drills (continued)

List No. 1314

SIZE FRAC- TIONAL	DEC. EQUIV.	FLUTE LENGTH	OAL	1314 EDP NO.
21/32	.6562	5 1/8	9	10592
43/64	.6719	5 3/8	9 1/4	10593
11/16	.6875	5 3/8	9 1/4	10594
45/64	.7031	5 5/8	9 1/2	10595
23/32	.7188	5 5/8	9 1/2	10596
47/64	.7344	5 7/8	9 3/4	10597
3/4	.7500	5 7/8	9 3/4	10598
49/64	.7656	6	9 7/8	10599
25/32	.7812	6	9 7/8	10600
51/64	.7969	6 1/8	10	10601
13/16	.8125	6 1/8	10	10602
53/64	.8281	6 1/8	10	10603
27/32	.8438	6 1/8	10	10604
55/64	.8594	6 1/8	10	10605
7/8	.8750	6 1/8	10	10606
57/64	.8906	6 1/8	10	10607
29/32	.9062	6 1/8	10	10608
59/64	.9219	6 1/8	10 3/4	10609
15/16	.9375	6 1/8	10 3/4	10610
61/64	.9531	6 3/8	11	10611
31/32	.9688	6 3/8	11	10612
63/64	.9844	6 3/8	11	10613
1	1.0000	6 3/8	11	10614
1 1/64	1.0156	6 1/2	11 1/8	10615
1 1/32	1.0312	6 1/2	11 1/8	10616

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SIZE FRAC- TIONAL	DEC. EQUIV.	FLUTE LENGTH	OAL	1314 EDP NO.
1 3/64	1.0469	6 5/8	11 1/4	10617
1 1/16	1.0625	6 5/8	11 1/4	10618
1 5/64	1.0781	6 7/8	11 1/2	10619
1 3/32	1.0938	6 7/8	11 1/2	10620
1 7/64	1.1094	7 1/8	11 3/4	10621
1 1/8	1.1250	7 1/8	11 3/4	10622
1 9/64	1.1406	7 1/4	11 7/8	10623
1 5/32	1.1562	7 1/4	11 7/8	10624
1 11/64	1.1719	7 3/8	12	10625
1 3/16	1.1875	7 3/8	12	10626
1 13/64	1.2031	7 1/2	12 1/8	10627
1 7/32	1.2188	7 1/2	12 1/8	10628
1 15/64	1.2344	7 7/8	12 1/2	10629
1 1/4	1.2500	7 7/8	12 1/2	10630
1 9/32	1.2812	8 1/2	14 1/8	10631
1 5/16	1.3125	8 5/8	14 1/4	10632
1 11/32	1.3438	8 3/4	14 3/8	10633
1 3/8	1.3750	8 7/8	14 1/2	10634
1 13/32	1.4062	9	14 5/8	10635
1 7/16	1.4375	9 1/8	14 3/4	10636
1 15/32	1.4688	9 1/4	14 7/8	10637
1 1/2	1.5000	9 3/8	15	10638
1 9/16	1.5625	9 5/8	15 1/4	10639
1 5/8	1.6250	9 7/8	15 5/8	10640
1 3/4	1.7500	10 1/2	16 1/4	10641

## Coolant Hole Drills

**Straight Shank — High Speed Steel**  
**118° Notched Point — Treated (Black Oxide)**  
**Taper Length**

Heavy duty construction. Low 14° helix angle is recommended for harder materials and improved chip ejection in horizontal applications. Coolant fed to the drill point reduces friction and heat, enhances chip ejection, permits higher feed rates and extends tool life. Recommended for all production work, especially deep hole drilling, in a wide variety of materials.

Foret à trou de refroidissement

Broca con orificios de refrigeración



List No. 1479

**STANDARD** All Sizes — 1 each  
**PACKAGE**

SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
7/16	.4375	4 5/8	7 1/4	16305*
1/2	.5000	5	7 3/4	16309*
1 7/32	.5312	5 1/4	8	16311*
9/16	.5625	5 3/8	8 1/4	16313*
5/8	.6250	5 3/4	8 3/4	16317*
21/32	.6562	5 7/8	9	16319*
23/32	.7188	6 3/16	9 1/2	16323*
25/32	.7812	6 1/2	9 7/8	16327*
13/16	.8125	6 5/8	10	16329*
27/32	.8438	6 3/4	10 1/4	16331*
7/8	.8750	7	10 1/2	16333*
29/32	.9062	7	10 5/8	16335*
31/32	.9688	7 1/8	10 7/8	16339*

SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
1	1.0000	7 3/16	11	16341*
1 1/32	1.0312	7 5/16	11 1/8	16342*
1 1/16	1.0625	7 3/8	11 1/4	16343*
1 3/32	1.0938	7 5/8	11 1/2	16344*
1 1/8	1.1250	7 7/8	11 3/4	16345*
1 5/32	1.1562	8	11 7/8	16346*
1 7/32	1.2188	8 1/8	12 1/8	16348*
1 1/4	1.2500	8 1/2	12 1/2	16349*
1 5/16	1.3125	9 1/4	14 1/4	16350*
1 3/8	1.3750	9 1/2	14 1/2	16351*
1 7/16	1.4375	9 5/8	14 3/4	16352*
1 1/2	1.5000	9 7/8	15	16353*

\*Available While Supplies Last

# Automotive Taper Length Drills

**Straight Shank — High Speed Steel**  
**118° Point — Treated (Black Oxide)**

Designed for high production drilling of a wide variety of materials. Tanged shank allows for use with ASA split sleeve drivers.

SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
1/8	.1250	2 3/4	5 1/8	<b>10808</b>
9/64	.1406	3	5 3/8	<b>10809</b>
5/32	.1562	3	5 3/8	<b>10810</b>
1 1/64	.1719	3 3/8	5 3/4	<b>10811</b>
3/16	.1875	3 3/8	5 3/4	<b>10812</b>
1 3/64	.2031	3 5/8	6	<b>10813</b>
7/32	.2187	3 5/8	6	<b>10814</b>
1 5/64	.2344	3 3/4	6 1/8	<b>10815</b>
1/4	.2500	3 3/4	6 1/8	<b>10816</b>
1 7/64	.2656	3 7/8	6 1/4	<b>10817</b>
9/32	.2812	3 7/8	6 1/4	<b>10818</b>
1 9/64	.2969	4	6 3/8	<b>10819</b>
5/16	.3125	4	6 3/8	<b>10820</b>
2 1/64	.3281	4 1/8	6 1/2	<b>10821</b>
1 1/32	.3437	4 1/8	6 1/2	<b>10822</b>
2 3/64	.3594	4 1/4	6 3/4	<b>10823</b>
3/8	.3750	4 1/4	6 3/4	<b>10824</b>
2 5/64	.3906	4 3/8	7	<b>10825</b>

# Heavy Duty Taper Length Drills

**Straight Shank — High Speed Steel**  
**118° Point — Treated (Black Oxide)**

Heavy duty construction. Recommended for tough drilling applications including alloy steels, steel forgings and other medium to high tensile strength materials. Flute length 20% longer for deeper holes and more regrinds. Tanged shank allows use with ASA split sleeve drivers.

SIZE	SHANK DIA.	FITS DRILL DRIVER NO.	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
1/8	1/8	1	.1250	3 3/8	5 1/8	<b>11008</b>
9/64	9/64	1	.1406	3 5/8	5 3/8	<b>11009*</b>
5/32	5/32	1	.1562	3 3/4	5 3/8	<b>11010</b>
3/16	3/16	1	.1875	4 1/8	5 3/4	<b>11012</b>
1 3/64	1 3/64	1	.2031	4 3/8	6	<b>11013</b>
7/32	7/32	1	.2188	4 3/8	6	<b>11014</b>
1 5/64	1 5/64	1	.2344	4 1 3/16	6 1/8	<b>11015</b>
1/4	1/4	1	.2500	4 1 3/16	6 1/8	<b>11016</b>
9/32	9/32	1	.2812	5	6 1/4	<b>11018*</b>
1 9/64	1 9/64	1	.2969	5 1/8	6 3/8	<b>11019*</b>
5/16	5/16	1	.3125	5 1/8	6 3/8	<b>11020</b>
1 1/32	1 1/32	2	.3438	5 1/4	6 1/2	<b>11022*</b>
2 3/64	2 3/64	2	.3594	5 3/8	6 3/4	<b>11023*</b>
3/8	3/8	2	.3750	5 3/8	6 3/4	<b>11024</b>
2 5/64	2 5/64	2	.3906	5 5/8	7	<b>11025</b>

\* Available While Supplies Last

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**List No. 1314A - Tanged Shank**

**STANDARD** 1/8" thru 1 5/64" — 12 each  
**PACKAGE** 1/4" thru 3/8" — 6 each  
2 5/64" and over — 1 each

SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
1 3/32	.4062	4 3/8	7	<b>10826</b>
2 7/64	.4219	4 3/8	7 1/4	<b>10827</b>
7/16	.4375	4 3/8	7 1/4	<b>10828</b>
2 9/64	.4531	4 3/4	7 1/2	<b>10829</b>
1 5/32	.4687	4 3/4	7 1/2	<b>10830</b>
3 1/64	.4844	4 3/4	7 3/4	<b>10831</b>
1/2	.5000	4 3/4	7 3/4	<b>10832</b>
3 3/64	.5156	4 3/4	8	<b>10833*</b>
1 7/32	.5312	4 3/4	8	<b>10834</b>
3 5/64	.5469	4 7/8	8 1/4	<b>10835*</b>
3 7/64	.5781	4 7/8	8 3/4	<b>10837*</b>
1 9/32	.5937	4 7/8	8 3/4	<b>10838</b>
3 9/64	.6094	4 7/8	8 3/4	<b>10839</b>
5/8	.6250	4 7/8	8 3/4	<b>10840</b>
2 1/32	.6562	5 1/8	9	<b>10842*</b>
4 3/64	.6719	5 3/8	9 1/4	<b>10843*</b>
1 1/16	.6875	5 3/8	9 1/4	<b>10844*</b>

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**List No. 1320 - Tanged Shank**

**STANDARD** 1/8" thru 1 5/64" — 12 each  
**PACKAGE** 1/4" thru 3/8" — 6 each  
2 5/64" and over — 1 each

SIZE	SHANK DIA.	FITS DRILL DRIVER NO.	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
1 3/32	1 3/32	2	.4062	5 5/8	7	<b>11026</b>
7/16	7/16	2	.4375	5 1 1/16	7 1/4	<b>11028</b>
2 9/64	2 9/64	2	.4531	5 3/4	7 1/2	<b>11029*</b>
1 5/32	1 5/32	2	.4688	5 3/4	7 1/2	<b>11030*</b>
3 1/64	3 1/64	2	.4844	5 3/4	7 3/4	<b>11031</b>
1/2	1/2	2	.5000	5 3/4	7 3/4	<b>11032</b>
3 3/64	1/2	2	.5156	6	8	<b>11033</b>
1 7/32	1/2	2	.5312	6	8	<b>11034</b>
9/16	1/2	2	.5625	6 1/4	8 1/4	<b>11036</b>
3 7/64	1/2	2	.5781	6 1/2	8 3/4	<b>11037</b>
1 9/32	1/2	2	.5938	6 1/2	8 3/4	<b>11038*</b>
5/8	1/2	2	.6250	6 1/2	8 3/4	<b>11040</b>
2 1/32	5/8	3	.6562	6 3/4	9	<b>11041</b>
1 1/16	5/8	3	.6875	6 7/8	9 1/4	<b>11042</b>
3/4	3/4	3	.7500	7 3/8	9 3/4	<b>11044</b>

# Metric

## Taper Length Drills

**Straight Shank — High Speed Steel**  
**118° Point — Treated (Black Oxide)**

Taper length drills have approximately the same flute lengths and overall lengths as taper shank drills, for deeper hole drilling. Shanks are the same diameter as the drill body. Recommended for drilling a wide range of materials.

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### List No. 1317

**STANDARD PACKAGE** 1.6mm thru 6.5mm — 12 each  
 6.8mm thru 9.5mm — 6 each  
 9.8mm thru 20.0mm — 1 each

SIZE MM	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
1.60	.0630	2	3¾	17401*
1.70	.0669	2	3¾	17403*
1.85	.0728	2	3¾	17406*
1.90	.0748	2	3¾	17407*
1.95	.0768	2	3¾	17408*
2.00	.0787	2¼	4¼	17409
2.05	.0807	2¼	4¼	17410*
2.10	.0827	2¼	4¼	17411*
2.15	.0846	2¼	4¼	17412*
2.20	.0866	2¼	4¼	17413*
2.25	.0886	2¼	4¼	17414*
2.35	.0925	2¼	4¼	17416
2.45	.0965	2½	4⅝	17418*
2.60	.1024	2½	4⅝	17420*
2.70	.1063	2½	4⅝	17421*
3.00	.1181	2¾	5½	17424
3.10	.1220	2¾	5½	17425
3.20	.1260	3	5⅝	17426*
3.60	.1417	3	5⅝	17430*
3.70	.1457	3	5⅝	17431*
3.80	.1496	3	5⅝	17432*
3.90	.1535	3	5⅝	17433*
4.00	.1575	3⅞	5¾	17434
4.10	.1614	3⅞	5¾	17435*
4.40	.1732	3⅞	5¾	17438*
4.50	.1772	3⅞	5¾	17439
4.70	.1850	3⅞	5¾	17441*
4.80	.1890	3⅝	6	17442*
5.00	.1968	3⅝	6	17444
5.60	.2205	3¾	6⅞	17450*
5.90	.2323	3¾	6⅞	17453*
6.00	.2362	3¾	6⅞	17454
6.50	.2559	3⅞	6¼	17460

SIZE MM	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
6.80	.2677	3⅞	6¼	17461
7.00	.2756	3⅞	6¼	17462
7.20	.2835	4	6⅝	17463*
8.00	.3150	4½	6½	17466
8.20	.3228	4½	6½	17467*
8.50	.3346	4½	6½	17468
9.00	.3543	4¼	6¾	17470
9.80	.3858	4⅝	7	17473*
10.00	.3937	4⅝	7	17474
10.20	.4016	4⅝	7	17475
10.50	.4134	4⅝	7¼	17476
11.00	.4331	4⅝	7¼	17478
11.20	.4409	4¾	7½	17479
12.80	.5039	4¾	8	17485*
13.20	.5197	4¾	8	17487*
13.50	.5315	4¾	8	17488*
13.80	.5433	4⅞	8¼	17489*
14.25	.5610	4⅞	8¼	17491*
14.50	.5709	4⅞	8¾	17492*
14.75	.5807	4⅞	8¾	17493*
15.00	.5906	4⅞	8¾	17494
15.25	.6004	4⅞	8¾	17495*
15.75	.6201	4⅞	8¾	17497*
16.00	.6299	5½	9	17498
16.25	.6398	5½	9	17499*
16.75	.6594	5⅝	9¼	17501*
17.00	.6693	5⅝	9¼	17502
17.25	.6791	5⅝	9¼	17503*
18.00	.7087	5⅝	9½	17505
18.50	.7283	5⅞	9¾	17506*
19.00	.7480	5⅞	9¾	17507*
19.50	.7677	6	9⅞	17508*
20.00	.7874	6⅞	10	17509

\*Available While Supplies Last

<h2>MORSE® Modifications &amp; Specials</h2>	<p>Complete Tool Design              And Manufacturing Services              From Blueprint Specials to              Modified Regulars</p>
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# High Helix Taper Length Drills

**Straight Shank — High Speed Steel**  
**118° Point — Bright Finish**

High Helix drills are recommended for deep hole drilling in low tensile strength materials such as aluminum, magnesium, zinc, copper, soft steels and some plastics. Wide polished flutes and a high helix angle enhance chip ejection.

Foret long

Broca cónica larga



List No. 1325

**STANDARD PACKAGE**    **Fractional Sizes**  
1/16" thru 15/64" — 12 each  
1/4" thru 3/8" — 6 each  
25/64" and over — 1 each

**Wire Gage Sizes**  
#1 thru #60 — 12 each

SIZE					
FRAC-TIONAL	WIRE GAGE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
	60	.0400	1/8	2 1/4	11201
	59	.0410	1/8	2 1/4	11202
	58	.0420	1/8	2 1/4	11203
	57	.0430	1/8	2 1/4	11204
	56	.0465	1/8	2 1/4	11205
	55	.0520	1 3/4	3	11206
	54	.0550	1 3/4	3	11207
	53	.0595	1 3/4	3	11208
1/16		.0625	1 3/4	3	11209
	52	.0635	2	3 3/4	11210
	51	.0670	2	3 3/4	11211
	50	.0700	2	3 3/4	11212
	49	.0730	2	3 3/4	11213
	48	.0760	2	3 3/4	11214
5/64		.0781	2	3 3/4	11215
	47	.0785	2 1/4	4 1/4	11216
	46	.0810	2 1/4	4 1/4	11217
	45	.0820	2 1/4	4 1/4	11218
	44	.0860	2 1/4	4 1/4	11219
	43	.0890	2 1/4	4 1/4	11220
	42	.0935	2 1/4	4 1/4	11221
		.0937	2 1/4	4 1/4	11222
3/32		.0960	2 1/2	4 5/8	11223
	41	.0980	2 1/2	4 5/8	11224
	40	.0980	2 1/2	4 5/8	11224
	39	.0995	2 1/2	4 5/8	11225
	38	.1015	2 1/2	4 5/8	11226
	37	.1040	2 1/2	4 5/8	11227
	36	.1065	2 1/2	4 5/8	11228
7/64		.1094	2 1/2	4 5/8	11229
	35	.1100	2 3/4	5 1/8	11230
	34	.1110	2 3/4	5 1/8	11231
	33	.1130	2 3/4	5 1/8	11232
	32	.1160	2 3/4	5 1/8	11233
	31	.1200	2 3/4	5 1/8	11234
1/8		.1250	2 3/4	5 1/8	11235
	30	.1285	3	5 3/8	11236
	29	.1360	3	5 3/8	11237
	28	.1405	3	5 3/8	11238
9/64		.1406	3	5 3/8	11239
	27	.1440	3	5 3/8	11240
	26	.1470	3	5 3/8	11241
	25	.1495	3	5 3/8	11242
	24	.1520	3	5 3/8	11243
	23	.1540	3	5 3/8	11244
5/32		.1562	3	5 3/8	11245

SIZE					
FRAC-TIONAL	WIRE GAGE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
	22	.1570	3 3/8	5 3/4	11246
	21	.1590	3 3/8	5 3/4	11247
	20	.1610	3 3/8	5 3/4	11248
	19	.1660	3 3/8	5 3/4	11249
	18	.1695	3 3/8	5 3/4	11250
11/64		.1719	3 3/8	5 3/4	11251
	17	.1730	3 3/8	5 3/4	11252
	16	.1770	3 3/8	5 3/4	11253
	15	.1800	3 3/8	5 3/4	11254
	14	.1820	3 3/8	5 3/4	11255
	13	.1850	3 3/8	5 3/4	11256
3/16		.1875	3 3/8	5 3/4	11257
	12	.1890	3 5/8	6	11258
	11	.1910	3 5/8	6	11259
	10	.1935	3 5/8	6	11260
	9	.1960	3 5/8	6	11261
	8	.1990	3 5/8	6	11262
	7	.2010	3 5/8	6	11263
13/64		.2031	3 5/8	6	11264
	6	.2040	3 5/8	6	11265
	5	.2055	3 5/8	6	11266
	4	.2090	3 5/8	6	11267
	3	.2130	3 5/8	6	11268
7/32		.2187	3 5/8	6	11269
	2	.2210	3 3/4	6 1/8	11270
	1	.2280	3 3/4	6 1/8	11271
15/64		.2344	3 3/4	6 1/8	11272
1/4		.2500	3 3/4	6 1/8	11273
17/64		.2656	3 7/8	6 1/4	11274
9/32		.2812	3 7/8	6 1/4	11275
19/64		.2969	4	6 3/8	11276
5/16		.3125	4	6 3/8	11277
21/64		.3281	4 1/8	6 1/2	11278
11/32		.3437	4 1/8	6 1/2	11279
23/64		.3594	4 1/4	6 3/4	11280
3/8		.3750	4 1/4	6 3/4	11281
25/64		.3906	4 3/8	7	11282
13/32		.4062	4 3/8	7	11283
27/64		.4219	4 5/8	7 1/4	11284
7/16		.4375	4 5/8	7 1/4	11285
29/64		.4531	4 3/4	7 1/2	11286
15/32		.4687	4 3/4	7 1/2	11287
31/64		.4844	4 3/4	7 3/4	11288
1/2		.5000	4 3/4	7 3/4	11289

# Cobalt Heavy Duty Taper Length Drills

## Straight Shank — Cobalt

Heavy duty construction. Cobalt steel offers increased hardness, toughness, wear resistance and heat resistance. Recommended for drilling tough, high tensile strength materials and materials that generate higher cutting temperatures including high alloy steels, ferrous castings, titanium, inconel, stainless steels and other difficult-to-drill materials.

Foret au cobalt

Broca de cobalto



### List No. 2314 - Fractional

$\frac{3}{32}$ " thru  $\frac{1}{2}$ " — 135° Split Point

$\frac{9}{16}$ " thru  $\frac{63}{64}$ " — 118° Notched Point\*

### List No. 2322 - Wire Gage

#1 thru #39 — 135° Point\*

**STANDARD PACKAGE**    **Fractional Sizes**  
 3/32" thru 15/64" — 12 each  
 1/4" thru 3/8" — 6 each  
 25/64" thru 63/64" — 1 each

**Wire Gage Sizes\***  
 #1 thru #39 — 12 each

FRAC-TIONAL	SIZE	WIRE GAGE	DEC. EQUIV.	FLUTE LENGTH	OAL	2314, 2322 EDP NO.
$\frac{3}{32}$		37	.0938	2 $\frac{1}{4}$	4 $\frac{1}{4}$	10764
			.1040	2 $\frac{1}{2}$	4 $\frac{5}{8}$	10887*
$\frac{1}{8}$			.1250	2 $\frac{3}{4}$	5 $\frac{1}{8}$	10766
$\frac{9}{64}$			.1406	3	5 $\frac{3}{8}$	10767
$\frac{5}{32}$		22	.1562	3	5 $\frac{3}{8}$	10707
			.1570	3 $\frac{3}{8}$	5 $\frac{3}{4}$	10872*
			.1610	3 $\frac{3}{8}$	5 $\frac{3}{4}$	10870*
$\frac{11}{64}$		15	.1719	3 $\frac{3}{8}$	5 $\frac{3}{4}$	10708
			.1800	3 $\frac{3}{8}$	5 $\frac{3}{4}$	10865*
$\frac{3}{16}$		13	.1850	3 $\frac{3}{8}$	5 $\frac{3}{4}$	10863*
			.1875	3 $\frac{3}{8}$	5 $\frac{3}{4}$	10709
$\frac{7}{64}$		7	.2010	3 $\frac{3}{8}$	6	10857*
			.2031	3 $\frac{3}{8}$	6	10710
$\frac{13}{64}$		6	.2040	3 $\frac{3}{8}$	6	10856*
			.2055	3 $\frac{3}{8}$	6	10855*
$\frac{7}{32}$		5	.2188	3 $\frac{3}{8}$	6	10711
			.2210	3 $\frac{3}{4}$	6 $\frac{1}{8}$	10852*
$\frac{15}{64}$			.2344	3 $\frac{3}{4}$	6 $\frac{1}{8}$	10712
$\frac{1}{4}$			.2500	3 $\frac{3}{4}$	6 $\frac{1}{8}$	10713
$\frac{17}{64}$			.2656	3 $\frac{7}{8}$	6 $\frac{1}{4}$	10714
$\frac{9}{32}$			.2812	3 $\frac{7}{8}$	6 $\frac{1}{4}$	10715
$\frac{19}{64}$			.2969	4	6 $\frac{3}{8}$	10716
$\frac{5}{16}$			.3125	4	6 $\frac{3}{8}$	10717
$\frac{21}{64}$			.3281	4 $\frac{1}{8}$	6 $\frac{1}{2}$	10718
$\frac{11}{32}$			.3438	4 $\frac{1}{8}$	6 $\frac{1}{2}$	10719
$\frac{23}{64}$			.3594	4 $\frac{1}{4}$	6 $\frac{3}{4}$	10720
$\frac{3}{8}$			.3750	4 $\frac{1}{4}$	6 $\frac{3}{4}$	10721
$\frac{25}{64}$			.3906	4 $\frac{3}{8}$	7	10722
$\frac{13}{32}$			.4062	4 $\frac{3}{8}$	7	10723
$\frac{27}{64}$			.4219	4 $\frac{5}{8}$	7 $\frac{1}{4}$	10724
$\frac{7}{16}$			.4375	4 $\frac{5}{8}$	7 $\frac{1}{4}$	10725
$\frac{29}{64}$			.4531	4 $\frac{3}{4}$	7 $\frac{1}{2}$	10726
$\frac{15}{32}$			.4688	4 $\frac{3}{4}$	7 $\frac{1}{2}$	10727
$\frac{31}{64}$			.4844	4 $\frac{3}{4}$	7 $\frac{3}{4}$	10728
$\frac{1}{2}$			.5000	4 $\frac{3}{4}$	7 $\frac{3}{4}$	10729
$\frac{9}{16}$			.5625	4 $\frac{7}{8}$	8 $\frac{1}{4}$	10733*
$\frac{61}{64}$			.9531	6 $\frac{3}{8}$	11	10758*

\*Available While Supplies Last

# Parabolic Flute Taper Length Drills

**Straight Shank — High Speed Steel**  
**135° Split Point — Tanged Shank (1/8" & Larger)**

**Parabolic Flute** drills feature a unique flute design that greatly enhances chip flow, coolant flow to the drill point and heat dissipation in deep hole drilling greater than three diameters deep. Recommended for drilling aluminum and other low to medium tensile strength materials.

**Titanium Nitride (TiN) Coating** increases tool surface hardness, wear resistance, heat resistance, chip flow and resists chip welding. Enhanced hole quality at higher speeds and feeds.

Foret à goujure parabolique

Broca parabólica



List No. 1356 — Bright Finish



List No. 1356G — TiN Coated

**STANDARD PACKAGE**     **Fractional Sizes**  
1/16" thru 15/64" — 12 each  
1/4" thru 3/8" — 6 each  
25/64" and over — 1 each

**Wire Gage Sizes**  
#1 thru #40 — 12 each

FRAC-TIONAL	SIZE		DEC. EQUIV.	FLUTE LENGTH	OAL	1356	1356G
	WIRE GAGE					EDP NO.	EDP NO.
1/16			.0625	1 3/4	3	13385	93385
			.0781	2	3 3/4	13386	93386
5/64			.0938	2 1/4	4 1/4	13387	93387
		40	.0980	2 1/2	4 5/8	13461	93461
3/32			.0995	2 1/2	4 5/8	13460	93460
		39	.1015	2 1/2	4 5/8	13459	93459
7/64			.1040	2 1/2	4 5/8	13458	93458
		38	.1065	2 1/2	4 5/8	13457	93457
1/8			.1094	2 1/2	4 5/8	13388	93388
		37	.1100	2 3/4	5 1/8	13456	93456
9/64			.1110	2 3/4	5 1/8	13455	93455
		36	.1130	2 3/4	5 1/8	13454	93454
5/32			.1160	2 3/4	5 1/8	13453	93453
		35	.1200	2 3/4	5 1/8	13452	93452
3/16			.1250	3 3/8	5 1/8	13389	93389
		34	.1285	3	5 3/8	13451	93451
1/4			.1360	3	5 3/8	13450	93450
		33	.1405	3	5 3/8	13449	93449
5/16			.1406	3 3/8	5 3/8	13390	93390
		32	.1440	3	5 3/8	13448	93448
3/8			.1470	3	5 3/8	13447	93447
		31	.1495	3	5 3/8	13446	93446
7/16			.1520	3	5 3/8	13445	93445
		30	.1540	3	5 3/8	13444	93444
1/2			.1562	3 3/4	5 3/8	13391	93391
		29	.1570	3 3/8	5 3/4	13443	93443
5/8			.1590	3 3/8	5 3/4	13442	93442
		28	.1610	3 3/8	5 3/4	13441	93441
3/4			.1660	3 3/8	5 3/4	13440	93440
		27	.1695	3 3/8	5 3/4	13439	93439
7/8			.1719	4 1/8	5 3/4	13392	93392
		26	.1730	3 3/8	5 3/4	13438	93438
1 1/8			.1770	3 3/8	5 3/4	13437	93437
		25	.1800	3 3/8	5 3/4	13436	93436
1 1/4			.1820	3 3/8	5 3/4	13435	93435
		24	.1850	3 3/8	5 3/4	13434	93434
1 3/8			.1875	4 1/8	5 3/4	13393	93393
		23	.1890	3 3/8	6	13433	93433
1 1/2			.1910	3 3/8	6	13432	93432
		22	.1935	3 3/8	6	13431	93431
1 3/4			.1960	3 3/8	6	13430	93430
		21	.1990	3 3/8	6	13429	93429
2			.2010	3 3/8	6	13428	93428
		20	.2031	4 3/8	6	13394	93394
2 1/4			.2040	3 3/8	6	13427	93427
		19					

(continued)



# Parabolic Flute Taper Length Drills (continued)

List No. 1356, 1356G

Foret à goujure parabolique

Broca parabólica

FRAC-TIONAL	SIZE		DEC. EQUIV.	FLUTE LENGTH	OAL	1356	1356G
	WIRE GAGE					EDP NO.	EDP NO.
7/32	5		.2055	3 5/8	6	13426	93426
	4		.2090	3 5/8	6	13425	93425
	3		.2130	3 5/8	6	13424	93424
			.2188	4 3/8	6	13395	93395
	2		.2210	3 3/4	6 1/8	13423	93423
15/64	1		.2280	3 3/4	6 1/8	13422	93422
			.2344	4 13/16	6 1/8	13396	93396
1/4		.2500	4 13/16	6 1/8	13397	93397	
17/64		.2656	5	6 1/4	13398	93398	
9/32		.2812	5	6 1/4	13399	93399	
19/64		.2969	5 1/8	6 3/8	13400	93400	
5/16		.3125	5 1/8	6 3/8	13401	93401	
21/64		.3281	5 1/4	6 1/2	13402	93402	
11/32		.3438	5 1/4	6 1/2	13403	93403	
23/64		.3594	5 3/8	6 3/4	13404	93404	
3/8		.3750	5 3/8	6 3/4	13405	93405	
25/64		.3906	5 3/8	7	13406	93406	
13/32		.4062	5 3/8	7	13407	93407	
27/64		.4219	5 11/16	7 1/4	13408	93408	
7/16		.4375	5 11/16	7 1/4	13409	93409	
29/64		.4531	5 3/4	7 1/2	13410	93410	
15/32		.4688	5 3/4	7 1/2	13411	93411	
31/64		.4844	5 3/4	7 3/4	13412	93412	
1/2		.5000	5 3/4	7 3/4	13413	93413	

## Carbide Tipped Taper Length Drills

### 118° Point — Straight Shank

Excellent wear resistance. Recommended for drilling cast iron, non-ferrous metals, composites, hard plastics, fiberglass and other abrasive non-ferrous materials. Tanged shank allows for use with ASA split sleeve drives.

**NOT FOR USE IN STEEL**

SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
1/8	.1250	2 3/4	5 1/8	50208
9/64	.1406	3	5 3/8	50209
5/32	.1562	3	5 3/8	50210
3/16	.1875	3 3/8	5 3/4	50212
13/64	.2031	3 3/8	6	50213
7/32	.2187	3 3/8	6	50214
15/64	.2344	3 3/4	6 1/8	50215
1/4	.2500	3 3/4	6 1/8	50216
9/32	.2812	3 7/8	6 1/4	50218
19/64	.2969	4	6 3/8	50219
5/16	.3125	4	6 3/8	50220
21/64	.3281	4 1/8	6 1/2	50221*
11/32	.3437	4 1/8	6 1/2	50222
23/64	.3594	4 1/4	6 3/4	50223
3/8	.3750	4 1/4	6 3/4	50224
13/32	.4062	4 3/8	7	50226
27/64	.4219	4 5/8	7 1/4	50227*
7/16	.4375	4 5/8	7 1/4	50228
29/64	.4531	4 3/4	7 1/2	50229*
15/32	.4687	4 3/4	7 1/2	50230
31/64	.4844	4 3/4	7 3/4	50231
1/2	.5000	4 3/4	7 3/4	50232
17/32	.5312	4 3/4	8	50234

\* Available While Supplies Last

Foret à pointe au carbure

Broca con punta de carburo



### List No. 5314 - Tanged Shank

**STANDARD PACKAGE** All Sizes — 1 each

SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
9/16	.5625	4 7/8	8 1/4	50236
37/64	.5781	4 7/8	8 3/4	50237
19/32	.5937	4 7/8	8 3/4	50238
39/64	.6094	4 7/8	8 3/4	50239
5/8	.6250	4 7/8	8 3/4	50240
41/64	.6406	5 1/8	9	50241
21/32	.6562	5 1/8	9	50242
43/64	.6719	5 3/8	9 1/4	50243
11/16	.6875	5 3/8	9 1/4	50244
23/32	.7187	5 3/8	9 1/2	50246
47/64	.7344	5 7/8	9 3/4	50247
3/4	.7500	5 7/8	9 3/4	50248
25/32	.7812	6	9 7/8	50250
51/64	.7969	6 1/8	10	50251*
13/16	.8125	6 1/8	10	50252
53/64	.8281	6 1/8	10	50253*
27/32	.8437	6 1/8	10	50254
55/64	.8594	6 1/8	10	50255
7/8	.8750	6 1/8	10	50256
29/32	.9062	6 1/8	10	50258*
15/16	.9375	6 1/8	10 3/4	50260
1	1.0000	6 3/8	11	50264