

General-Purpose Taper Shank Drills

118° Point

Features/Benefits:

- General-purpose geometry for drilling in a wide range of operating conditions and materials.
- Manufactured from premium high-speed steel.
- 118° point.
- Taper shank made to American National Standard (Morse) dimensions for use in corresponding Morse taper holders.
- Black oxide finish for increased wear resistance and added lubricity standard from stock.

Application Information:

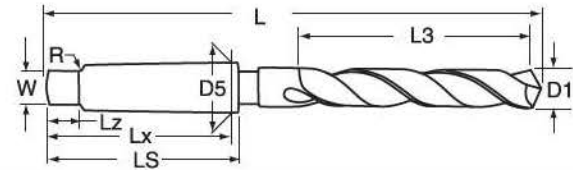
- carbon steel
- tool steel
- alloy steel
- cast iron



General-Purpose Taper Shank Drills

■ Series No. 110 - Black Oxide

Morse taper shank dimensions are listed on page 50.



D1 = Drill Diameter L = Overall Length L3 = Flute Length

FRACTIONAL

D1	D1	Morse Taper Number	L	L3	EDP Number - Black Oxide
1/8	.1250	1	5 1/8	1 7/8	53108
9/64	.1406	1	5 1/8	1 7/8	53109
5/32	.1562	1	5 3/8	2 1/8	53310
11/64	.1719	1	5 3/4	2 1/2	53111
3/16	.1875	1	5 3/4	2 1/2	53112
13/64	.2031	1	6	2 3/4	53113
7/32	.2188	1	6	2 3/4	53114
15/64	.2344	1	6 1/8	2 7/8	53115
1/4-E	.2500	1	6 1/8	2 7/8	53116
17/64	.2656	1	6 1/4	3	53117
9/32	.2812	1	6 1/4	3	53118
19/64	.2969	1	6 3/8	3 1/8	53119
5/16	.3125	1	6 3/8	3 1/8	53120
21/64	.3281	1	6 1/2	3 1/4	53121
11/32	.3438	1	6 1/2	3 1/4	53122
23/64	.3594	1	6 3/4	3 1/2	53123
3/8	.3750	1	6 3/4	3 1/2	53124
25/64	.3906	1	7	3 5/8	53125
13/32	.4062	1	7	3 5/8	53126
27/64	.4219	1	7 1/4	3 7/8	53127
7/16	.4375	1	7 1/4	3 7/8	53128
29/64	.4531	1	7 1/2	4 1/8	53129
15/32	.4688	1	7 1/2	4 1/8	53130
31/64	.4844	2	8 1/4	4 3/8	53131
1/2	.5000	2	8 1/4	4 3/8	53132
33/64	.5156	2	8 1/2	4 5/8	53133
17/32	.5312	2	8 1/2	4 5/8	53134
35/64	.5469	2	8 3/4	4 7/8	53135

D1	D1	Morse Taper Number	L	L3	EDP Number - Black Oxide
9/16	.5625	2	8 3/4	4 7/8	53136
37/64	.5781	2	8 3/4	4 7/8	53137
19/32	.5938	2	8 3/4	4 7/8	53138
39/64	.6094	2	8 3/4	4 7/8	53139
5/8	.6250	2	8 3/4	4 7/8	53140
41/64	.6406	2	9	5 1/8	53141
21/32	.6562	2	9	5 1/8	53142
43/64	.6719	2	9 1/4	5 3/8	53143
11/16	.6875	2	9 1/4	5 3/8	53144
45/64	.7031	2	9 1/2	5 5/8	53145
23/32	.7188	2	9 1/2	5 5/8	53146
47/64	.7344	2	9 3/4	5 7/8	53147
3/4	.7500	2	9 3/4	5 7/8	53148
49/64	.7656	2	9 7/8	6	53149
25/32	.7812	2	9 7/8	6	53150
51/64	.7969	3	10 3/4	6 1/8	53151
13/16	.8125	3	10 3/4	6 1/8	53152
53/64	.8281	3	10 3/4	6 1/8	53153
27/32	.8438	3	10 3/4	6 1/8	53154
55/64	.8594	3	10 3/4	6 1/8	53155
7/8	.8750	3	10 3/4	6 1/8	53156
57/64	.8906	3	10 3/4	6 1/8	53157
29/32	.9062	3	10 3/4	6 1/8	53158
59/64	.9219	3	10 3/4	6 1/8	53159
15/16	.9375	3	10 3/4	6 1/8	53160
61/64	.9531	3	11	6 3/8	53161
31/32	.9688	3	11	6 3/8	53162
63/64	.9844	3	11	6 3/8	53163

Fractional sizes continue on the next page.

General-Purpose Drills



Taper Shank Drills

GENERAL-PURPOSE DRILLS

SPECIAL-PURPOSE DRILLS

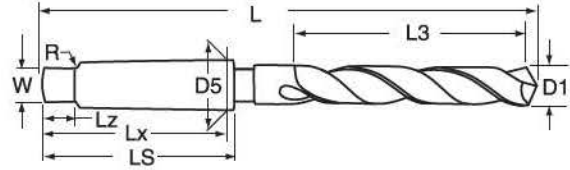
REAMERS & OTHER ROUND TOOLS

TECHNICAL INFORMATION AND INDEXES

(continued) General-Purpose Taper Shank Drills

Series No. 110 - Black Oxide

Morse taper shank dimensions are listed on page 50.



D1 = Drill Diameter L = Overall Length L3 = Flute Length

FRACTIONAL

D1	D1	Morse Taper Number	L	L3	EDP Number - Black Oxide
1	1.0000	3	11	6 3/8	53164
1 1/64	1.0156	3	11 1/8	6 1/2	53165
1 1/32	1.0312	3	11 1/8	6 1/2	53166
1 3/64	1.0469	3	11 1/4	6 5/8	53167
1 1/16	1.0625	3	11 1/4	6 5/8	53168
1 5/64	1.0781	4	12 1/2	6 7/8	53169
1 3/32	1.0938	4	12 1/2	6 7/8	53170
1 7/64	1.1094	4	12 3/4	7 1/8	53171
1 1/8	1.1250	4	12 3/4	7 1/8	53172
1 9/64	1.1406	4	12 7/8	7 1/4	53173
1 5/32	1.1562	4	12 7/8	7 1/4	53174
1 11/64	1.1719	4	13	7 3/8	53175
1 3/16	1.1875	4	13	7 3/8	53176
1 13/64	1.2031	4	13 1/8	7 1/2	53177
1 7/32	1.2188	4	13 1/8	7 1/2	53178
1 15/64	1.2344	4	13 1/2	7 7/8	53179
1 1/4	1.2500	4	13 1/2	7 7/8	53180
1 17/64	1.2656	4	14 1/8	8 1/2	53181
1 9/32	1.2812	4	14 1/8	8 1/2	53182
1 19/64	1.2969	4	14 1/4	8 5/8	53183
1 5/16	1.3125	4	14 1/4	8 5/8	53184
1 21/64	1.3281	4	14 3/8	8 3/4	53185
1 11/32	1.3438	4	14 3/8	8 3/4	53186
1 23/64	1.3594	4	14 1/2	8 7/8	53187
1 3/8	1.3750	4	14 1/2	8 7/8	53188
1 25/64	1.3906	4	14 5/8	9	53189
1 13/32	1.4062	4	14 5/8	9	53190
1 27/64	1.4219	4	14 3/4	9 1/8	53191
1 7/16	1.4375	4	14 3/4	9 1/8	53192
1 29/64	1.4531	4	14 7/8	9 1/4	53193
1 15/32	1.4688	4	14 7/8	9 1/4	53194
1 31/64	1.4844	4	15	9 3/8	53195
1 1/2	1.5000	4	15	9 3/8	53196
1 17/32	1.5312	5	16 3/8	9 3/8	53198
1 9/16	1.5625	5	16 5/8	9 5/8	53200
1 19/32	1.5938	5	16 7/8	9 7/8	53202

D1	D1	Morse Taper Number	L	L3	EDP Number - Black Oxide
1 5/8	1.6250	5	17	10	53204
1 21/32	1.6562	5	17 1/8	10 1/8	53206
1 11/16	1.6875	5	17 1/8	10 1/8	53208
1 23/32	1.7188	5	17 1/8	10 1/8	53210
1 3/4	1.7500	5	17 1/8	10 1/8	53212
1 25/32	1.7812	5	17 1/8	10 1/8	53214
1 13/16	1.8125	5	17 1/8	10 1/8	53216
1 27/32	1.8438	5	17 1/8	10 1/8	53218
1 7/8	1.8750	5	17 3/8	10 3/8	53220
1 29/32	1.9062	5	17 3/8	10 3/8	53222
1 15/16	1.9375	5	17 3/8	10 3/8	53224
1 31/32	1.9688	5	17 3/8	10 3/8	53226
2	2.0000	5	17 3/8	10 3/8	53228
2 1/32	2.0312	5	17 3/8	10 3/8	53230
2 1/16	2.0625	5	17 3/8	10 1/4	53232
2 3/32	2.0938	5	17 3/8	10 1/4	53234
2 1/8	2.1250	5	17 3/8	10 1/4	53236
2 5/32	2.1562	5	17 3/8	10 1/4	53238
2 3/16	2.1875	5	17 3/8	10 1/4	53240
2 7/32	2.2188	5	17 3/8	10 1/8	53242
2 1/4	2.2500	5	17 3/8	10 1/8	53244
2 5/16	2.3125	5	17 3/8	10 1/8	53248
2 3/8	2.3750	5	17 3/8	10 1/8	53252
2 7/16	2.4375	5	18 3/4	11 1/4	53256
2 1/2	2.5000	5	18 3/4	11 1/4	53260
2 9/16	2.5625	5	19 1/2	11 7/8	53264
2 5/8	2.6250	5	19 1/2	11 7/8	53268
2 11/16	2.6875	5	20 3/8	12 3/4	53272
2 3/4	2.7500	5	20 3/8	12 3/4	53276
2 13/16	2.8125	5	21 1/8	13 3/8	53280
2 7/8	2.8750	5	21 1/8	13 3/8	53284
2 15/16	2.9375	5	21 3/4	14	53288
3	3.0000	5	21 3/4	14	53292
3 1/4	3.2500	6	25 1/2	15 1/2	53308

SETS

Sets in Metal Case

Number of Tools	Sizes in Set	EDP Number Series 110 Black Oxide
8	9/16 - 1 x 16ths	69880
16	33/64 - 3/4 x 64ths	69866
16	49/64 - 1 x 64ths	69867