



TAPER SHANK DRILLS

High Speed Steel, Right Hand

Designed to perform in a wide range of steel, ferrous and non-ferrous materials.



Size	Morse Taper	Flute Length	Over all Length	Model No.
1/16	1	1-1/4	4-5/8"	302-1004
5/64	1	1-3/8	4-3/4"	302-1005
3/32	1	1-1/2	4-7/8"	302-1006
7/64	1	1-5/8	5"	302-1007
1/8	1	1-7/8	5-1/8"	302-1008
9/64	1	2-1/8	5-3/8"	302-1009
5/32	1	2-1/8	5-3/8"	302-1010
11/64	1	2-1/2	5-3/4"	302-1011
3/16	1	2-1/2	5-3/4"	302-1012
13/64	1	2-3/4	6"	302-1013
7/32	1	2-3/4	6"	302-1014
15/64	1	2-7/8	6-1/8"	302-1015
1/4	1	2-7/8	6-1/8"	302-1016
17/64	1	3	6-1/4"	302-1017
9/32	1	3	6-1/4"	302-1018
19/64	1	3-1/8	6-3/8"	302-1019
5/16	1	3-1/8	6-3/8"	302-1020
21/64	1	3-1/4	6-1/2"	302-1021
11/32	1	3-1/4	6-1/2"	302-1022
23/64	1	3-1/2	6-3/4"	302-1023
3/8	1	3-1/2	6-3/4"	302-1024
3/8	2	3-1/2	7-3/8"	302-2024
25/64	1	3-5/8	7"	302-1025
25/64	2	3-5/8	7-1/2"	302-2025
13/32	1	3-5/8	7"	302-1026
13/32	2	3-5/8	7-1/2"	302-2026
27/64	1	3-7/8	7-1/4"	302-1027
27/64	2	3-7/8	7-3/4"	302-2027
7/16	1	3-7/8	7-1/4"	302-1028
7/16	2	3-7/8	7-3/4"	302-2028
29/64	1	4-1/8	7-1/2"	302-1029
29/64	2	4-1/8	8"	302-2029
15/32	1	4-1/8	7-1/2"	302-1030
15/32	2	4-1/8	8"	302-2030
31/64	1	4-3/8	7-3/4"	302-1031
31/64	2	4-3/8	8-1/4"	302-2031
1/2	1	4-3/8	7-3/4"	302-1032
1/2	2	4-3/8	8-1/4"	302-2032
33/64	1	4-5/8	8"	302-1033
33/64	2	4-5/8	8-1/2"	302-2033
17/32	1	4-5/8	8"	302-1034
17/32	2	4-5/8	8-1/2"	302-2034
35/64	1	4-7/8	8-1/4"	302-1035
35/64	2	4-7/8	8-3/4"	302-2035
9/16	1	4-7/8	8-1/2"	302-1036
9/16	2	4-7/8	8-3/4"	302-2036
37/64	2	4-7/8	8-3/4"	302-2037
19/32	2	4-7/8	8-3/4"	302-2038
39/64	2	4-7/8	8-3/4"	302-2039
5/8	2	4-7/8	8-3/4"	302-2040
41/64	2	5-1/8	9"	302-2041
41/64	3	5-1/8	9-3/4"	302-3041
21/32	2	5-1/8	9"	302-2042
21/32	3	5-1/8	9-3/4"	302-3042
43/64	2	5-3/8	9-1/4"	302-2043
43/64	3	5-3/8	10"	302-3043
11/16	2	5-3/8	9-1/4"	302-2044
11/16	3	5-3/8	10"	302-3044
45/64	2	5-5/8	9-1/2"	302-2045
45/64	3	5-5/8	10-1/4"	302-3045
23/32	2	5-5/8	9-1/2"	302-2046
23/32	3	5-5/8	10-1/4"	302-3046
47/64	2	5-7/8	9-3/4"	302-2047
47/64	3	5-7/8	10-1/2"	302-3047
3/4	2	5-7/8	9-3/4"	302-2048
3/4	3	5-7/8	10-1/2"	302-3048
49/64	2	6	9-7/8"	302-2049
49/64	3	6	10-5/8"	302-3049
25/32	2	6	9-7/8"	302-2050
25/32	3	6	10-7/8"	302-3050
51/64	2	6-1/8	10"	302-2051
51/64	3	6-1/8	10-3/4"	302-3051

Size	Morse Taper	Flute Length	Overall Length	Model No.
13/16	2	6-1/8	10"	302-2052
13/16	3	6-1/8	10-3/4"	302-3052
53/64	2	6-1/8	10"	302-2053
53/64	3	6-1/8	10-3/4"	302-3053
27/32	2	6-1/8	10"	302-2054
27/32	3	6-1/8	10-3/4"	302-3054
55/64	2	6-1/8	10"	302-2055
55/64	3	6-1/8	10-3/4"	302-3055
7/8	2	6-1/8	10"	302-2056
7/8	3	6-1/8	10-3/4"	302-3056
57/64	2	6-1/8	10"	302-2057
57/64	3	6-1/8	10-3/4"	302-3057
29/32	2	6-1/8	10"	302-2058
29/32	3	6-1/8	10-3/4"	302-3058
59/64	2	6-1/8	10-1/4"	302-2059
59/64	3	6-1/8	10-3/4"	302-3059
15/16	2	6-1/8	10-1/4"	302-2060
15/16	3	6-1/8	10-3/4"	302-3060
61/64	3	6-3/8	11"	302-3061
31/32	3	6-3/8	11"	302-3062
63/64	3	6-3/8	11"	302-3063
1	2	6	10-3/4"	302-2100
1	3	6-3/8	11"	302-3100
1	4	6-3/8	12"	302-4100
1-1/64	3	6-1/2	11-1/8"	302-3101
1-1/32	3	6-1/2	11-1/8"	302-3102
1-1/32	4	6-1/2	12-1/8"	302-4102
1-3/64	3	6-5/8	11-1/4"	302-3103
1-3/64	4	6	11"	302-4103
1-1/16	3	6-5/8	11-1/4"	302-3104
1-1/16	4	6-5/8	12-1/4"	302-4104
1-5/64	3	6-7/8	11-1/2"	302-3105
1-5/64	4	6-7/8	12-1/2"	302-4105
1-3/32	3	6-7/8	11-1/2"	302-3106
1-3/32	4	6-7/8	12-1/2"	302-4106
1-7/64	3	7-1/8	11-3/4"	302-3107
1-7/64	4	7-1/8	12-3/4"	302-4107
1-1/8	3	7-1/8	11-3/4"	302-3108
1-1/8	4	7-1/8	12-3/4"	302-4108
1-9/64	3	7-1/4	11-7/8"	302-3109
1-9/64	4	7-1/4	12-7/8"	302-4109
1-5/32	3	7-1/4	11-7/8"	302-3110
1-5/32	4	7-1/4	12-7/8"	302-4110
1-11/64	3	7-3/8	12"	302-3111
1-11/64	4	7-3/8	13"	302-4111
1-3/16	3	7-3/8	12"	302-3112
1-3/16	4	7-3/8	13"	302-4112
1-13/64	3	7-1/2	12-1/8"	302-3113
1-13/64	4	7-1/2	13-1/8"	302-4113
1-7/32	3	7-1/2	12-1/8"	302-3114
1-7/32	4	7-1/2	13-1/8"	302-4114
1-15/64	3	7-7/8	12-1/2"	302-3115
1-15/64	4	7-7/8	13-1/2"	302-4115
1-1/4	3	7-7/8	12-1/2"	302-3116
1-1/4	4	7-7/8	13-1/2"	302-4116
1-17/64	4	8-1/2	14-1/8"	302-4117
1-9/32	4	8-1/2	14-1/8"	302-4118
1-19/64	4	8-5/8	14-1/4"	302-4119
1-5/16	3	8-5/8	14"	302-3120
1-5/16	4	8-5/8	14-1/2"	302-4120
1-21/64	4	8-3/4	14-3/8"	302-4121
1-11/32	4	8-3/4	14-1/2"	302-4122
1-23/64	4	8-7/8	14-1/2"	302-4123
1-3/8	3	8-7/8	14"	302-3124
1-3/8	4	8-7/8	14-1/2"	302-4124
1-25/64	4	9	14-5/8"	302-4125
1-13/32	4	9	14-5/8"	302-4126
1-27/64	4	9-1/8	14-3/4"	302-4127
1-7/16	3	9-1/8	14-1/4"	302-3128
1-7/16	4	9-1/8	14-1/2"	302-4128
1-29/64	4	9-1/4	14-7/8"	302-4129



Cutting Tools

TAPER SHANK DRILLS (continued)

High Speed Steel, Right Hand.

Designed to perform in a wide range of steel, ferrous and non-ferrous materials.



Size	Morse Taper	Flute Length	Overall Length	Model No.
1-15/32	4	9-1/4	14-7/8"	302-4130
1-31/64	4	9-3/8	15"	302-4131
1-1/2	3	9-3/8	15-3/8"	302-2132
1-1/2	3	9-3/8	14-3/8"	302-3132
1-1/2	4	9-3/8	15"	302-4132
1-33/64	4	9-3/8	15"	302-4133
1-33/64	5	9-3/8	16-3/8"	302-5133
1-17/32	4	9-3/8	15"	302-4134
1-17/32	5	9-3/8	16-3/8"	302-5134
1-35/64	4	9-5/8	15-1/4"	302-4135
1-35/64	5	9-5/8	16-5/8"	302-5135
1-9/16	4	9-5/8	15-1/4"	302-4136
1-9/16	5	9-5/8	16-5/8"	302-5136
1-37/64	4	9-7/8	15-1/2"	302-4137
1-37/64	5	9-7/8	16-7/8"	302-5137
1-19/32	4	9-7/8	15-1/2"	302-4138
1-19/32	5	9-7/8	16-7/8"	302-5138
1-39/64	4	10	15-5/8"	302-4139
1-39/64	5	10	17"	302-5139
1-5/8	4	10	15-5/8"	302-4140
1-5/8	5	10	17"	302-5140
1-41/64	4	10-1/8	15-3/4"	302-4141
1-41/64	5	10-1/8	17-1/8"	302-5141
1-21/32	4	10-1/8	15-3/4"	302-4142
1-21/32	5	10-1/8	17-1/8"	302-5142
1-43/64	4	10-1/8	15-3/4"	302-4143
1-43/64	5	10-1/8	17-1/8"	302-5143
1-11/16	4	10-1/8	15-3/4"	302-4144
1-11/16	5	10-1/8	17-1/8"	302-5144
1-45/64	4	10-1/8	15-3/4"	302-4145
1-45/64	5	10-1/8	17-1/8"	302-5145
1-23/32	4	10-1/8	15-3/4"	302-4146
1-23/32	5	10-1/8	17-1/8"	302-5146
1-47/64	4	10-3/8	16-1/4"	302-4147
1-47/64	5	10-1/8	17-1/8"	302-5147
1-3/4	4	10-3/8	16-1/4"	302-4148
1-3/4	5	10-1/8	17-1/8"	302-5148
1-49/64	4	10-3/8	16-1/4"	302-4149
1-49/64	5	10-1/8	17-1/8"	302-5149
1-25/32	4	10-3/8	16-1/4"	302-4150
1-25/32	5	10-1/8	17-1/8"	302-5150
1-51/64	4	10-3/8	16-1/4"	302-4151
1-51/64	5	10-1/8	17-1/8"	302-5151
1-13/16	4	10-3/8	16-1/4"	302-4152
1-13/16	5	10-1/8	17-1/8"	302-5152
1-53/64	4	10-3/8	16-1/4"	302-4153
1-53/64	5	10-1/8	17-1/8"	302-5153
1-27/32	4	10-3/8	16-1/4"	302-4154
1-27/32	5	10-1/8	17-1/8"	302-5154
1-55/64	4	10-3/8	16-1/2"	302-4155
1-55/64	5	10-1/8	17-3/8"	302-5155
1-7/8	4	10-1/2	16-1/2"	302-4156
1-7/8	5	10-3/4	17-3/8"	302-5156
1-57/64	4	10-1/2	16-1/2"	302-4157
1-57/64	5	10-3/8	17-3/8"	302-5157
1-29/32	4	10-1/2	16-1/2"	302-4158
1-29/32	5	10-3/8	17-3/8"	302-5158
1-59/64	4	10-1/2	16-1/2"	302-4159
1-59/64	5	10-3/8	17-3/8"	302-5159
1-15/16	4	10-5/8	16-5/8"	302-4160
1-15/16	5	10-3/8	17-3/8"	302-5160
1-61/64	4	10-5/8	16-5/8"	302-4161
1-61/64	5	10-3/8	17-3/8"	302-5161
1-31/32	4	10-5/8	16-5/8"	302-4162
1-31/32	5	10-3/8	17-3/8"	302-5162
1-63/64	4	10-5/8	16-5/8"	302-4163
1-63/64	5	10-3/8	17-3/8"	302-5163
2	4	10-5/8	16-5/8"	302-4200
2	5	10-3/8	17-3/8"	302-5200
2-1/32	5	10-3/8	17-3/8"	302-5202
2-1/16	4	9	16-5/8"	302-4204

Size	Morse Taper	Flute Length	Overall Length	Model No.
2-1/16	5	10-1/4	17-3/8"	302-5204
2-5/64	5	17-3/8	10-1/4"	302-5205
2-3/32	5	10-1/4	17-3/8"	302-5206
2-7/64	5	10-1/4	17-3/8"	302-5207
2-1/8	4	9	16-5/8"	302-4208
2-1/8	5	10-1/4	17-3/8"	302-5208
2-9/64	5	10-1/4	17-3/8"	302-5209
2-5/32	5	10-1/4	17-3/8"	302-5210
2-11/64	5	10-1/4	17-3/8"	302-5211
2-3/16	4	10-1/4	16-5/8"	302-4212
2-3/16	5	10-1/4	17-3/8"	302-5212
2-13/64	5	10-1/8	17-3/8"	302-5213
2-7/32	5	10-1/8	17-3/8"	302-5214
2-1/4	4	10-1/8	16-5/8"	302-4216
2-1/4	5	10-1/8	17-3/8"	302-5216
2-9/32	5	10-1/8	17-3/8"	302-5218
2-19/64	4	16-5/8	9-1/4"	302-4219
2-5/16	4	10-1/8	16-5/8"	302-4220
2-5/16	5	10-1/8	17-3/8"	302-5220
2-11/32	5	10-1/8	17-3/8"	302-5222
2-3/8	4	10-1/8	16-5/8"	302-4224
2-3/8	5	10-1/8	17-3/8"	302-5224
2-25/64	5	10-1/8	17-3/8"	302-5215
2-13/32	5	11-1/4	18-3/4"	302-5226
2-7/16	4	11-1/4	17-3/8"	302-4228
2-7/16	5	11-1/4	18-3/4"	302-5228
2-15/32	5	11-1/4	18-3/4"	302-5230
2-1/2	4	11-1/4	17-3/8"	302-4232
2-1/2	5	11-1/4	18-3/4"	302-5232
2-17/32	5	11-7/8	19-1/4"	302-5234
2-9/16	5	11-7/8	19-1/2"	302-5236
2-19/32	5	11-7/8	19-1/2"	302-5238
2-5/8	5	11-7/8	19-1/2"	302-5240
2-21/32	5	12-1/2	20"	302-5242
2-11/16	5	12-3/4	20-3/8"	302-5244
2-23/32	5	13	20-1/2"	302-5246
2-3/4	5	12-3/4	20-3/8"	302-5248
2-25/32	5	13	20-1/2"	302-5250
2-13/16	5	13-3/8	21-1/8"	302-5252
2-27/32	5	13-1/2	21"	302-5254
2-7/8	5	13-3/8	21-1/8"	302-5256
2-57/64	5	9	16-1/2"	302-5257
2-29/32	5	21	13-1/2"	302-5258
2-15/16	5	14	21-3/4"	302-5260
2-31/32	5	14-1/2	22"	302-5262
3	5	14	21-3/4"	302-5300
3-1/16	5	14-1/8	22"	302-5304
3-1/16	6	14-1/2	24-1/2"	302-6304
3-1/8	5	14-1/4	22"	302-5308
3-1/8	6	14-5/8	24-1/2"	302-6308
3-3/16	5	14-1/4	24"	302-5312
3-3/16	6	14-5/8	25-1/2"	302-6312
3-1/4	5	14-1/4	24-1/2"	302-5316
3-1/4	6	15-1/2	25-1/2"	302-6316
3-5/16	5	15-1/4	23"	302-5320
3-5/16	6	15-1/2	25-1/2"	302-6320
3-3/8	5	15-1/4	23"	302-5324
3-3/8	6	15-1/2	25-1/2"	302-6324
3-13/32	6	15-1/4	23"	302-6326
3-7/16	5	15-1/4	23"	302-5328
3-1/2	5	16-1/4	24"	302-5332
3-1/2	6	16-1/4	26-1/2"	302-6332
3-5/8	6	16-1/4	25-7/8"	302-6340
3-11/16	6	16-1/4	26"	302-6344
3-3/4	5	16-1/4	25-7/8"	302-5348
3-3/4	6	16-1/2	29"	302-6348
3-13/16	6	16-1/4	26"	302-6352
3-7/8	5	16-1/2	29"	302-5356
3-7/8	6	16-1/2	29"	302-6356
4	5	29	16-1/2"	302-5400
4	6	16-1/2	29"	302-6400

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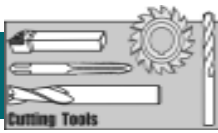


METRIC TAPER SHANK DRILLS

High Speed Steel, Right Hand, DIN 341



Morse Size (mm)	Flute Taper Shank (mm)	Flute Length (mm)	Overall Length (mm)	M2HSS Model No.	M35HSS Model No.	Morse Size (mm)	Flute Taper Shank (mm)	Flute Length (mm)	Overall Length (mm)	M2HSS Model No.	M35HSS Model No.	Morse Size (mm)	Flute Taper Shank (mm)	Flute Length (mm)	Overall Length (mm)	M2HSS Model No.	M35HSS Model No.
5.00	1MT	74	155	341-0500	344-0500	17.25	2MT	165	263	341-1725	344-1725	29.50	3MT	230	351	341-2950	344-2950
5.25	1MT	74	155	341-0525	344-0525	17.50	2MT	165	263	341-1750	344-1750	29.75	3MT	230	351	341-2975	344-2975
5.50	1MT	80	161	341-0550	344-0550	17.75	2MT	165	263	341-1775	344-1775	30.00	3MT	230	351	341-3000	344-3000
5.75	1MT	80	161	341-0575	344-0575	18.00	2MT	165	263	341-1800	344-1800	30.25	3MT	239	360	341-3025	344-3025
6.00	1MT	80	161	341-0600	344-0600	18.25	2MT	171	269	341-1825	344-1825	30.50	3MT	239	360	341-3050	344-3050
6.25	1MT	86	167	341-0625	344-0625	18.50	2MT	171	269	341-1850	344-1850	30.75	3MT	239	360	341-3075	344-3075
6.50	1MT	86	167	341-0650	344-0650	18.75	2MT	171	269	341-1875	344-1875	31.00	3MT	239	360	341-3100	344-3100
6.75	1MT	93	174	341-0675	344-0675	19.00	2MT	171	269	341-1900	344-1900	31.25	3MT	239	360	341-3125	344-3125
7.00	1MT	93	174	341-0700	344-0700	19.25	2MT	177	275	341-1925	344-1925	31.50	3MT	239	360	341-3150	344-3150
7.25	1MT	93	174	341-0725	344-0725	19.50	2MT	177	275	341-1950	344-1950	31.75	3MT	248	369	341-3175	344-3175
7.50	1MT	93	174	341-0750	344-0750	19.75	2MT	177	275	341-1975	344-1975	32.00	4MT	248	397	341-3200	344-3200
7.75	1MT	100	181	341-0775	344-0775	20.00	2MT	177	275	341-2000	344-2000	32.50	4MT	248	397	341-3250	344-3250
8.00	1MT	100	181	341-0800	344-0800	20.25	2MT	184	282	341-2025	344-2025	33.00	4MT	248	397	341-3300	344-3300
8.25	1MT	100	181	341-0825	344-0825	20.50	2MT	184	282	341-2050	344-2050	33.50	4MT	248	397	341-3350	344-3350
8.50	1MT	100	181	341-0850	344-0850	20.75	2MT	184	282	341-2075	344-2075	34.00	4MT	257	406	341-3400	344-3400
8.75	1MT	107	188	341-0875	344-0875	21.00	2MT	184	282	341-2100	344-2100	34.50	4MT	257	406	341-3450	344-3450
9.00	1MT	107	188	341-0900	344-0900	21.25	2MT	191	289	341-2125	344-2125	35.00	4MT	257	406	341-3500	344-3500
9.25	1MT	107	188	341-0925	344-0925	21.50	2MT	191	289	341-2150	344-2150	35.50	4MT	257	406	341-3550	344-3550
9.50	1MT	107	188	341-0950	344-0950	21.75	2MT	191	289	341-2175	344-2175	36.00	4MT	267	416	341-3600	344-3600
9.75	1MT	116	197	341-0975	344-0975	22.00	2MT	191	289	341-2200	344-2200	36.50	4MT	267	416	341-3650	344-3650
10.00	1MT	116	197	341-1000	344-1000	22.25	2MT	191	289	341-2225	344-2225	37.00	4MT	267	416	341-3700	344-3700
10.25	1MT	116	197	341-1025	344-1025	22.50	2MT	198	296	341-2250	344-2250	37.50	4MT	267	416	341-3750	344-3750
10.50	1MT	116	197	341-1050	344-1050	22.75	2MT	198	296	341-2275	344-2275	38.00	4MT	277	426	341-3800	344-3800
10.75	1MT	125	206	341-1075	344-1075	23.00	2MT	198	296	341-2300	344-2300	38.50	4MT	277	426	341-3850	344-3850
11.00	1MT	125	206	341-1100	344-1100	23.25	3MT	198	319	341-2325	344-2325	39.00	4MT	277	426	341-3900	344-3900
11.25	1MT	125	206	341-1125	344-1125	23.50	3MT	198	319	341-2350	344-2350	39.50	4MT	277	426	341-3950	344-3950
11.50	1MT	125	206	341-1150	344-1150	23.75	3MT	206	327	341-2375	344-2375	40.00	4MT	277	426	341-4000	344-4000
11.75	1MT	125	206	341-1175	344-1175	24.00	3MT	206	327	341-2400	344-2400	40.50	4MT	287	436	341-4050	344-4050
12.00	1MT	134	215	341-1200	344-1200	24.25	3MT	206	327	341-2425	344-2425	41.00	4MT	287	436	341-4100	344-4100
12.25	1MT	134	215	341-1225	344-1225	24.50	3MT	206	327	341-2450	344-2450	41.50	4MT	287	436	341-4150	344-4150
12.50	1MT	134	215	341-1250	344-1250	24.75	3MT	206	327	341-2475	344-2475	42.00	4MT	287	436	341-4200	344-4200
12.75	1MT	134	215	341-1275	344-1275	25.00	3MT	206	327	341-2500	344-2500	42.50	4MT	287	436	341-4250	344-4250
13.00	1MT	134	215	341-1300	344-1300	25.25	3MT	214	335	341-2525	344-2525	43.00	4MT	298	447	341-4300	344-4300
13.25	1MT	134	215	341-1325	344-1325	25.50	3MT	214	335	341-2550	344-2550	43.50	4MT	298	447	341-4350	344-4350
13.50	1MT	142	223	341-1350	344-1350	25.75	3MT	214	335	341-2575	344-2575	44.00	4MT	298	447	341-4400	344-4400
13.75	1MT	142	223	341-1375	344-1375	26.00	3MT	214	335	341-2600	344-2600	44.50	4MT	298	447	341-4450	344-4450
14.00	1MT	142	223	341-1400	344-1400	26.25	3MT	214	335	341-2625	344-2625	45.00	4MT	298	447	341-4500	344-4500
14.25	2MT	147	245	341-1425	344-1425	26.50	3MT	214	335	341-2650	344-2650	45.50	4MT	310	459	341-4550	344-4550
14.50	2MT	147	245	341-1450	344-1450	26.75	3MT	222	343	341-2675	344-2675	46.00	4MT	310	459	341-4600	344-4600
14.75	2MT	147	245	341-1475	344-1475	27.00	3MT	222	343	341-2700	344-2700	46.50	4MT	310	459	341-4650	344-4650
15.00	2MT	147	245	341-1500	344-1500	27.25	3MT	222	343	341-2725	344-2725	47.00	4MT	310	459	341-4700	344-4700
15.25	2MT	153	251	341-1525	344-1525	27.50	3MT	222	343	341-2750	344-2750	47.50	4MT	310	459	341-4750	344-4750
15.50	2MT	153	251	341-1550	344-1550	27.75	3MT	222	343	341-2775	344-2775	48.00	4MT	321	470	341-4800	344-4800
15.75	2MT	153	251	341-1575	344-1575	28.00	3MT	222	343	341-2800	344-2800	48.50	4MT	321	470	341-4850	344-4850
16.00	2MT	153	251	341-1600	344-1600	28.25	3MT	230	351	341-2825	344-2825	49.00	4MT	321	470	341-4900	344-4900
16.25	2MT	159	255	341-1625	344-1625	28.50	3MT	230	351	341-2850	344-2850	49.50	4MT	321	470	341-4950	344-4950
16.50	2MT	159	255	341-1650	344-1650	28.75	3MT	230	351	341-2875	344-2875	50.00	4MT	321	470	341-5000	344-5000
16.75	2MT	159	255	341-1675	344-1675	29.00	3MT	230	351	341-2900	344-2900						
17.00	2MT	159	255	341-1700	344-1700	29.25	3MT	230	351	341-2925	344-2925						



Cutting Tools

TAPER SHANK DRILL SET, DIN345, Rolled

Packed in wooden case

Pieces/set	Description	HSS Model No.	M35HSS Model No.
10	MT1: 14.5mm MT2: 15,16,17,18,19,20,21,22,23mm	303-0100	345-0100
9	MT2: 14.5,16,18,20,22mm MT3: 24,26,28,30mm	303-0105	345-0105



COBALT M35 HSS TAPER SHANK DRILL

DIN345
Metric



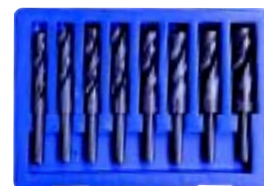
Size	Morse Taper Shank	Flute Length	Overall Length	Model No.
5.00mm	1MT	52	133	345-0500
5.50mm	1MT	57	138	345-0550
6.00mm	1MT	57	138	345-0600
6.50mm	1MT	63	144	345-0650
7.00mm	1MT	69	150	345-0700
7.50mm	1MT	69	150	345-0750
8.00mm	1MT	75	156	345-0800
8.50mm	1MT	75	156	345-0850
9.00mm	1MT	81	162	345-0900
9.50mm	1MT	81	162	345-0950
10.00mm	1MT	87	168	345-1000
10.50mm	1MT	87	168	345-1050
11.00mm	1MT	94	175	345-1100
11.50mm	1MT	94	175	345-1150
12.00mm	1MT	101	182	345-1200
12.50mm	1MT	101	182	345-1250
12.75mm	1MT	101	182	345-1275
13.00mm	1MT	101	182	345-1300
13.50mm	1MT	108	189	345-1350
14.00mm	2MT	108	189	345-1400
14.50mm	2MT	114	212	345-1450
15.00mm	2MT	114	212	345-1500
15.50mm	2MT	120	218	345-1550
16.00mm	2MT	120	218	345-1600
16.50mm	2MT	125	223	345-1650
17.00mm	2MT	125	223	345-1700
17.50mm	2MT	130	228	345-1750
18.00mm	2MT	130	228	345-1800
18.50mm	2MT	135	223	345-1850
19.00mm	2MT	135	223	345-1900
19.50mm	2MT	140	238	345-1950
20.00mm	2MT	140	238	345-2000
20.50mm	2MT	145	243	345-2050
21.00mm	2MT	145	143	345-2100
21.50mm	2MT	150	248	345-2150
22.00mm	2MT	150	248	345-2200
22.50mm	2MT	155	253	345-2250
23.00mm	2MT	155	253	345-2300
23.50mm	3MT	155	276	345-2350
24.00mm	3MT	160	281	345-2400
24.50mm	3MT	160	281	345-2450
25.00mm	3MT	160	281	345-2500
25.50mm	3MT	165	286	345-2550
26.00mm	3MT	165	286	345-2600
26.50mm	3MT	165	286	345-2650

Size	Morse Taper Shank	Flute Length	Over all Length	Model No.
27.00mm	3MT	170	291	345-2700
27.50mm	3MT	170	291	345-2750
28.00mm	3MT	170	291	345-2800
28.50mm	3MT	175	296	345-2850
29.00mm	3MT	175	296	345-2900
30.00mm	3MT	175	296	345-3000
30.50mm	3MT	180	301	345-3050
31.00mm	3MT	180	301	345-3100
31.50mm	4MT	180	301	345-3150
32.00mm	4MT	185	334	345-3200
33.00mm	4MT	185	334	345-3300
33.50mm	4MT	185	334	345-3350
34.00mm	4MT	190	339	345-3400
34.50mm	4MT	190	339	345-3450
35.00mm	4MT	190	339	345-3500
35.50mm	4MT	190	339	345-3550
36.00mm	4MT	195	344	345-3600
36.50mm	4MT	195	344	345-3650
37.00mm	4MT	195	344	345-3700
37.50mm	4MT	195	344	345-3750
38.00mm	4MT	200	349	345-3800
38.50mm	4MT	200	349	345-3850
39.00mm	4MT	200	349	345-3900
39.50mm	4MT	200	349	345-3950
40.00mm	4MT	200	349	345-4000
40.50mm	4MT	205	354	345-4050
41.00mm	4MT	205	354	345-4100
41.50mm	4MT	205	354	345-4150
42.00mm	4MT	205	354	345-4200
42.50mm	4MT	205	354	345-4250
43.00mm	4MT	210	359	345-4300
43.50mm	4MT	210	359	345-4350
44.00mm	4MT	210	359	345-4400
44.50mm	4MT	210	359	345-4450
45.00mm	4MT	210	359	345-4500
45.50mm	4MT	215	364	345-4550
46.00mm	4MT	215	364	345-4600
46.50mm	4MT	215	364	345-4650
47.00mm	4MT	215	364	345-4700
47.50mm	4MT	215	364	345-4750
48.00mm	4MT	220	369	345-4800
48.50mm	4MT	220	369	345-4850
49.00mm	4MT	220	369	345-4900
49.50mm	4MT	220	369	345-4950
50.00mm	4MT	220	369	345-5000

Inch

Size	Morse Taper Shank	Flute Length	Overall Length	Model No.
1/4"	1MT	2-7/8"	5-3/8"	300-1616
9/32"	1MT	3"	5-7/8"	300-1618
5/16"	1MT	3-1/8"	6-1/8"	300-1620
11/32"	1MT	3-1/4"	6-1/8"	300-1622
3/8"	1MT	3-1/2"	6-3/8"	300-1624
13/32"	1MT	3-5/8"	6-5/8"	300-1626
7/16"	1MT	3-7/8"	6-7/8"	300-1628
15/32"	1MT	4-1/8"	6-7/8"	300-1630
1/2"	2MT	4-3/8"	8-1/4"	300-1632
17/32"	2MT	4-5/8"	8-1/2"	300-1634
9/16"	2MT	4-7/8"	8-3/4"	300-1636
19/32"	2MT	4-7/8"	8-3/4"	300-1638
5/8"	2MT	4-7/8"	8-3/4"	300-1640
21/32"	2MT	5-1/8"	9-3/4"	300-1642
11/16"	2MT	5-3/8"	9-1/4"	300-1644
23/32"	2MT	5-5/8"	9-1/2"	300-1646
3/4"	2MT	5-7/8"	9-3/4"	300-1648
25/32"	2MT	6"	9-7/8"	300-1650
13/16"	3MT	6-1/8"	10-3/4"	300-1652
27/32"	3MT	6-1/8"	10-3/4"	300-1654
7/8"	3MT	6-1/8"	10-3/4"	300-1656
29/32"	3MT	6-1/8"	10-3/4"	300-1658
15/16"	3MT	6-1/8"	10-3/4"	300-1660
31/32"	3MT	6-3/8"	11"	300-1662
1"	3MT	6-3/8"	11"	300-1664
1-1/8"	4MT	12-7/8"	7-1/8"	300-1708
1-3/16"	4MT	13"	7-3/8"	300-1712
1-1/4"	4MT	13-1/2"	7-7/8"	300-1716
1-5/6"	4MT	14-1/4"	8-5/8"	300-1720
1-3/8"	4MT	14-1/2"	8-7/8"	300-1724
1-7/16"	4MT	14-3/4"	9-1/8"	300-1728

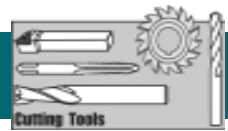
1/2" & 3/4" STRAIGHT SHANK DRILL SETS



Shank	Piece of Drills	Description	With Wooden Case Model No.	With Plastic Case Model No.	With Wooden Stand Model No.	Without Box Model No.
1/2	5	17/32", 9/16", 5/8", 3/4", 1"	301-0204			
1/2	5	9/16", 5/8", 3/4", 7/8", 1"	301-0205	301-0215		301-0203
1/2	6	1-1/8" to 1-1/2" by 16th, exclude 7/16"	301-0206			
1/2	8	9/16-1" by 16th	301-0218	301-0208		301-0207
1/2	8	1-1/16 to 1-1/2" by 16th	301-0288	301-0298		301-0280
1/2	10	9/16 to 1" by 16th, 1-1/8", 1-1/4"	301-0230		301-0210	301-0211
1/2	12	9/16 to 1-1/4" by 16th	301-0212			
1/2	13	17/32 to 1" by 16th & 32nd	301-0234		301-0213	301-0214
1/2	16	17/32 to 1" by 32nd	301-0216			
1/2	17	17/32 to 1-1/32" by 32nd	301-0217			
1/2	32	33/64 to 1" by 64th	301-0232			
1/2	40	33/64" to 1"x64th & 1-1/16" to 1-1/2"x16th	301-0240			
3/4	5	1, 1-1/8, 1-1/4, 1-3/8, 1-1/2"	301-0225	301-0235		

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Cutting Tools



METRIC TAPER SHANK DRILLS

High Speed Steel, Right Hand, DIN 345



Morse					
Size (mm)	Taper Shank	Flute Length	Overall Length	Rolled Model No.	Milled Model No.
5.00	1MT	52	133	303-0500	308-0500
5.25	1MT	52	133	303-0525	308-0525
5.50	1MT	57	138	303-0550	308-0550
5.75	1MT	57	138	303-0575	308-0575
6.00	1MT	57	138	303-0600	308-0600
6.25	1MT	63	144	303-0625	308-0625
6.50	1MT	63	144	303-0650	308-0650
6.75	1MT	69	150	303-0675	308-0675
7.00	1MT	69	150	303-0700	308-0700
7.25	1MT	69	150	303-0725	308-0725
7.50	1MT	69	150	303-0750	308-0750
7.75	1MT	75	156	303-0775	308-0775
8.00	1MT	75	156	303-0800	308-0800
8.25	1MT	75	156	303-0825	308-0825
8.50	1MT	75	156	303-0850	308-0850
8.75	1MT	81	162	303-0875	308-0875
9.00	1MT	81	162	303-0900	308-0900
9.25	1MT	81	162	303-0925	308-0925
9.50	1MT	81	162	303-0950	308-0950
9.75	1MT	87	168	303-0975	308-0975
10.00	1MT	87	168	303-1000	308-1000
10.25	1MT	87	168	303-1025	308-1025
10.50	1MT	87	168	303-1050	308-1050
10.75	1MT	94	175	303-1075	308-1075
11.00	1MT	94	175	303-1100	308-1100
11.25	1MT	94	175	303-1125	308-1125
11.50	1MT	94	175	303-1150	308-1150
11.75	1MT	94	175	303-1175	308-1175
12.00	1MT	101	182	303-1200	308-1200
12.25	1MT	101	182	303-1225	308-1225
12.50	1MT	101	182	303-1250	308-1250
12.75	1MT	101	182	303-1275	308-1275
13.00	1MT	101	182	303-1300	308-1300
13.25	1MT	101	182	303-1325	308-1325
13.50	1MT	108	189	303-1350	308-1350
13.75	1MT	108	189	303-1375	308-1375
14.00	2MT	108	189	303-1400	308-1400
14.25	2MT	114	212	303-1425	308-1425
14.50	2MT	114	212	303-1450	308-1450
14.75	2MT	114	212	303-1475	308-1475
15.00	2MT	114	212	303-1500	308-1500
15.25	2MT	120	218	303-1525	308-1525
15.50	2MT	120	218	303-1550	308-1550
15.75	2MT	120	218	303-1575	308-1575
16.00	2MT	120	218	303-1600	308-1600
16.25	2MT	125	223	303-1625	308-1625
16.50	2MT	125	223	303-1650	308-1650
16.75	2MT	125	223	303-1675	308-1675
17.00	2MT	125	223	303-1700	308-1700
17.25	2MT	130	228	303-1725	308-1725
17.50	2MT	130	228	303-1750	308-1750
17.75	2MT	130	228	303-1775	308-1775
18.00	2MT	130	228	303-1800	308-1800
18.25	2MT	135	223	303-1825	308-1825
18.50	2MT	135	223	303-1850	308-1850
18.75	2MT	135	223	303-1875	308-1875
19.00	2MT	135	223	303-1900	308-1900
19.25	2MT	140	238	303-1925	308-1925

Morse					
Size (mm)	Taper Shank	Flute Length	Overall Length	Rolled Model No.	Milled Model No.
19.50	2MT	140	238	303-1950	308-1950
19.75	2MT	140	238	303-1975	308-1975
20.00	2MT	140	238	303-2000	308-2000
20.25	2MT	145	243	303-2025	308-2025
20.50	2MT	145	243	303-2050	308-2050
20.75	2MT	145	243	303-2075	308-2075
21.00	2MT	145	243	303-2100	308-2100
21.25	2MT	150	248	303-2125	308-2125
21.50	2MT	150	248	303-2150	308-2150
21.75	2MT	150	248	303-2175	308-2175
22.00	2MT	150	248	303-2200	308-2200
22.25	2MT	150	248	303-2225	308-2225
22.50	2MT	155	253	303-2250	308-2250
22.75	2MT	155	253	303-2275	308-2275
23.00	2MT	155	253	303-2300	308-2300
23.25	3MT	155	276	303-2325	308-2325
23.50	3MT	155	276	303-2350	308-2350
23.75	3MT	160	281	303-2375	308-2375
24.00	3MT	160	281	303-2400	308-2400
24.25	3MT	160	281	303-2425	308-2425
24.50	3MT	160	281	303-2450	308-2450
24.75	3MT	160	281	303-2475	308-2475
25.00	3MT	160	281	303-2500	308-2500
25.25	3MT	165	286	303-2525	308-2525
25.50	3MT	165	286	303-2550	308-2550
25.75	3MT	165	286	303-2575	308-2575
26.00	3MT	165	286	303-2600	308-2600
26.25	3MT	165	286	303-2625	308-2625
26.50	3MT	165	286	303-2650	308-2650
26.75	3MT	170	291	303-2675	308-2675
27.00	3MT	170	291	303-2700	308-2700
27.25	3MT	170	291	303-2725	308-2725
27.50	3MT	170	291	303-2750	308-2750
27.75	3MT	170	291	303-2775	308-2775
28.00	3MT	170	291	303-2800	308-2800
28.25	3MT	175	296	303-2825	308-2825
28.50	3MT	175	296	303-2850	308-2850
28.75	3MT	175	296	303-2875	308-2875
29.00	3MT	175	296	303-2900	308-2900
29.25	3MT	175	296	303-2925	308-2925
29.50	3MT	175	296	303-2950	308-2950
29.75	3MT	175	296	303-2975	308-2975
30.00	3MT	175	296	303-3000	308-3000
30.25	3MT	180	301	303-3025	308-3025
30.50	3MT	180	301	303-3050	308-3050
30.75	3MT	180	301	303-3075	308-3075
31.00	3MT	180	301	303-3100	308-3100
31.25	3MT	180	301	303-3125	308-3125
31.50	3MT	180	301	303-3150	308-3150
31.75	3MT	185	306	303-3175	308-3175
32.00	4MT	185	334	303-3200	308-3200
32.50	4MT	185	334	303-3250	308-3250
33.00	4MT	185	334	303-3300	308-3300
33.50	4MT	185	334	303-3350	308-3350
34.00	4MT	190	339	303-3400	308-3400
34.50	4MT	190	339	303-3450	308-3450
35.00	4MT	190	339	303-3500	308-3500
35.50	4MT	190	339	303-3550	308-3550

Morse					
Size (mm)	Taper Shank	Flute Length	Overall Length	Rolled Model No.	Milled Model No.
36.00	4MT	195	344	303-3600	308-3600
36.50	4MT	195	344	303-3650	308-3650
37.00	4MT	195	344	303-3700	308-3700
37.50	4MT	195	344	303-3750	308-3750
38.00	4MT	200	349	303-3800	308-3800
38.50	4MT	200	349	303-3850	308-3850
39.00	4MT	200	349	303-3900	308-3900
39.50	4MT	200	349	303-3950	308-3950
40.00	4MT	200	349	303-4000	308-4000
40.50	4MT	205	354	303-4050	308-4050
41.00	4MT	205	354	303-4100	308-4100
41.50	4MT	205	354	303-4150	308-4150
42.00	4MT	205	354	303-4200	308-4200
42.50	4MT	205	354	303-4250	308-4250
43.00	4MT	210	359	303-4300	308-4300
43.50	4MT	210	359	303-4350	308-4350
44.00	4MT	210	359	303-4400	308-4400
44.50	4MT	210	359	303-4450	308-4450
45.00	4MT	210	359	303-4500	308-4500
45.50	4MT	215	364	303-4550	308-4550
46.00	4MT	215	364	303-4600	308-4600
46.50	4MT	215	364	303-4650	308-4650
47.00	4MT	215	364	303-4700	308-4700
47.50	4MT	215	364	303-4750	308-4750
48.00	4MT	220	369	303-4800	308-4800
48.50	4MT	220	369	303-4850	308-4850
49.00	4MT	220	369	303-4900	308-4900
49.50	4MT	220	369	303-4950	308-4950
50.00	4MT	220	369	303-5000	308-5000
50.50	4MT	225	374	303-5050	308-5050
51.00	5MT	412	225	303-5100	308-5100
52.00	5MT	412	225	303-5200	308-5200
53.00	5MT	412	225	303-5300	308-5300
54.00	5MT	230	417	303-5400	308-5400
55.00	5MT	230	417	303-5500	308-5500
56.00	5MT	230	417	303-5600	308-5600
57.00	5MT	235	422	303-5700	308-5700
58.00	5MT	235	422	303-5800	308-5800
59.00	5MT	235	422	303-5900	308-5900
60.00	5MT	235	422	303-6000	308-6000
61.00	5MT	240	427	303-6100	308-6100
62.00	5MT	240	427	303-6200	308-6200
63.00	5MT	240	427	303-6300	308-6300
64.00	5MT	245	432	303-6400	308-6400
65.00	5MT	245	432	303-6500	308-6500
66.00	5MT	245	432	303-6600	308-6600
67.00	5MT	245	432	303-6700	308-6700
68.00	5MT	250	437	303-6800	308-6800
69.00	5MT	250	437	303-6900	308-6900
70.00	5MT	250	437	303-7000	308-7000
71.00	5MT	250	437	303-7100	308-7100
72.00	5MT	255	442	303-7200	308-7200
73.00	5MT	255	442	303-7300	308-7300
74.00	5MT	255	442	303-7400	308-7400
75.00	5MT	255	442	303-7500	308-7500
76.00	5MT	260	447	303-7600	308-7600

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