

## HSS Twist Drills with Morse Taper Shank

List No. TS02B00 -- HSS M2 Black Oxide Finish



### Features

- \* Precision ground to insure concentricity of tip & body
- \* Smooth flutes & special surface treated for effective chip flow
- \* Penetrates faster with less pressure
- \* Premium quality high speed steel, special heat treatment to remain sharper edges, & reduce wear
- \* Self-feeding point, unique flute design and industrial heavy duty web can drill faster, cool, longer!
- \* Cobalt drills have extremely heat resistant
- \* Special Tin-Coated, Black Oxide, and bright surface treatment
- \* All dimensional & element tolerances conform to one of ASME/ANSI B94.11M,  
NAS 907 - National Aerospace Standards  
USCTI - United States Cutting Tool Institute (formerly MCTI)

### Application

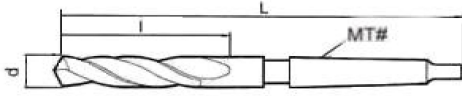
Cobalt Drills are designed for effective drilling in extremely hard metals including stainless steel and other materials

### Sizes available

Sizes: 1/4" to 4" with milled flutes, HSS M2, black oxide  
Standard Drills are Right Hand. Left hand & Parabolic flutes are available as custom request  
Drill Sets & Custom Package are available

### Material:

M2, M35, M42 cobalt HSS

Picture	Size		Flute Length	Overall Length	#MT	List No#
	IN	Dec in Equiv				
	1/4"	0.2500	2-7/8"	6-1/8"	#1	R016
	17/64"	0.2656	3"	6-1/4"	#1	R017
	9/32"	0.2812	3"	6-1/4"	#1	R018
	19/64"	0.2969	3-1/8"	6-3/8"	#1	R019
	5/16"	0.3125	3-1/8"	6-3/8"	#1	R020
	21/64"	0.3281	3-1/4"	6-1/2"	#1	R021
	11/32"	0.3438	3-1/4"	6-1/2"	#1	R022
	23/64"	0.3594	3-1/2"	6-3/4"	#1	R023
	3/8"	0.3750	3-1/2"	6-3/4"	#1	R024
	25/64"	0.3906	3-5/8"	7"	#1	R025
	13/32"	0.4062	3-5/8"	7"	#1	R026
	27/64"	0.4219	3-7/8"	7-1/4"	#1	R027
	7/16"	0.4375	3-7/8"	7-1/4"	#1	R028
	29/64"	0.4531	4-1/8"	7-1/2"	#1	R029
	15/32"	0.4688	4-1/8"	7-1/2"	#1	R030
	31/64"	0.4844	4-3/8"	8-1/4"	#2	R031
	1/2"	0.5000	4-3/8"	8-1/4"	#2	R032
	33/64"	0.5156	4-5/8"	8-1/2"	#2	R033
	17/32"	0.5312	4-5/8"	8-1/2"	#2	R034
	35/64"	0.5469	4-7/8"	8-3/4"	#2	R035
	9/16"	0.5625	4-7/8"	8-3/4"	#2	R036
	37/64"	0.5781	4-7/8"	8-3/4"	#2	R037
	19/32"	0.5938	4-7/8"	8-3/4"	#2	R038
	39/64"	0.6094	4-7/8"	8-3/4"	#2	R039
	5/8"	0.6250	4-7/8"	8-3/4"	#2	R040
	41/64"	0.6406	5-1/8"	9"	#2	R041

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IN	Dec in Equiv				
21/32"	0.6562	5-1/8"	9"	#2	R042
43/64"	0.6719	5-3/8"	9-1/4"	#2	R043
11/16"	0.6875	5-3/8"	9-1/4"	#2	R044
45/64"	0.7031	5-5/8"	9-1/2"	#2	R045
23/32"	0.7188	5-5/8"	9-1/2"	#2	R046
47/64"	0.7344	5-7/8"	9-3/4"	#2	R047
3/4"	0.7500	5-7/8"	9-3/4"	#2	R048
49/64"	0.7656	6"	9-7/8"	#2	R049
25/32"	0.7812	6"	9-7/8"	#2	R050
51/64"	0.7969	6-1/8"	10-3/4"	#3	R051
13/16"	0.8125	6-1/8"	10-3/4"	#3	R052
53/64"	0.8281	6-1/8"	10-3/4"	#3	R053
27/32"	0.8438	6-1/8"	10-3/4"	#3	R054
55/64"	0.8594	6-1/8"	10-3/4"	#3	R055
7/8"	0.8750	6-1/8"	10-3/4"	#3	R056
57/64"	0.8906	6-1/8"	10-3/4"	#3	R057
29/32"	0.9062	6-1/8"	10-3/4"	#3	R058
59/64"	0.9219	6-1/8"	10-3/4"	#3	R059
15/16"	0.9375	6-1/8"	10-3/4"	#3	R060
61/64"	0.9531	6-3/8"	11"	#3	R061
31/32"	0.9688	6-3/8"	11"	#3	R062
63/64"	0.9844	6-3/8"	11"	#3	R063
1"	1.0000	6-3/8"	11"	#3	R100
1-1/32"	1.0312	6-1/2"	11-1/8"	#3	R102
1-1/16"	1.0625	6-5/8"	11-1/4"	#3	R104
1-3/32"	1.0938	6-7/8"	12-1/2"	#4	R106
1-1/8"	1.1250	7-1/8"	12-3/4"	#4	R108
1-5/32"	1.1562	7-1/4"	12-7/8"	#4	R110
1-3/16"	1.1875	7-3/8"	13"	#4	R112
1-7/32"	1.2188	7-1/2"	13-1/8"	#4	R114
1-1/4"	1.2500	7-7/8"	13-1/2"	#4	R116
1-9/32"	1.2812	8-1/2"	14-1/8"	#4	R118
1-5/16"	1.3125	8-5/8"	14-1/4"	#4	R120
1-11/32"	1.3438	8-3/4"	14-3/8"	#4	R122
1-3/8"	1.3750	8-7/8"	14-1/2"	#4	R124
1-13/32"	1.4062	9"	14-5/8"	#4	R126
1-7/16"	1.4375	9-1/8"	14-3/4"	#4	R128
1-15/32"	1.4688	9-1/4"	14-7/8"	#4	R130
1-1/2"	1.5000	9-3/8"	15"	#4	R132
1-17/32"	1.5312	9-3/8"	16-3/8"	#5	R134
1-9/16"	1.5625	9-5/8"	16-5/8"	#5	R136
1-19/32"	1.5938	9-7/8"	16-7/8"	#5	R138
1-5/8"	1.6250	10"	17"	#5	R140
1-21/32"	1.6562	10-1/8"	17-1/8"	#5	R142
1-11/16"	1.6875	10-1/8"	17-1/8"	#5	R144
1-23/32"	1.7188	10-1/8"	17-1/8"	#5	R146
1-3/4"	1.7500	10-1/8"	17-1/8"	#5	R148
1-25/32"	1.7812	10-1/8"	17-1/8"	#5	R150
1-13/16"	1.8125	10-1/8"	17-1/8"	#5	R152
1-27/32"	1.8438	10-1/8"	17-1/8"	#5	R154



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IN	Dec in Equiv				
1-7/8"	1.8750	10-3/8"	17-3/8"	#5	R156
1-29/32"	1.9062	10-3/8"	17-3/8"	#5	R158
1-15/16"	1.9375	10-3/8"	17-3/8"	#5	R160
1-31/32"	1.9688	10-3/8"	17-3/8"	#5	R162
2"	2.0000	10-3/8"	17-3/8"	#5	R200
2-1/16"	2.0625	10-1/4"	17-3/8"	#5	R204
2-1/8"	2.1250	10-1/4"	17-3/8"	#5	R208
2-3/16"	2.1875	10-1/4"	17-3/8"	#5	R212
2-1/4"	2.2500	10-1/8"	17-3/8"	#5	R216
2-5/16"	2.3125	10-1/8"	17-3/8"	#5	R220
2-3/8"	2.3750	10-1/8"	17-3/8"	#5	R224
2-7/16"	2.4375	11-1/4"	18-3/4"	#5	R228
2-1/2"	2.5000	11-1/4"	18-3/4"	#5	R232
2-9/16"	2.5625	11-7/8"	19-1/2"	#5	R236
2-5/8"	2.6250	11-7/8"	19-1/2"	#5	R240
2-11/16"	2.6875	12-3/4"	20-3/8"	#5	R244
2-3/4"	2.7500	12-3/4"	20-3/8"	#5	R248
2-13/16"	2.8125	13-3/8"	21-1/8"	#5	R252
2-7/8"	2.8750	13-3/8"	21-1/8"	#5	R256
2-15/16"	2.9375	14"	21-3/4"	#5	R260
3"	3.0000	14"	21-3/4"	#5	R300