

# 11000

## HSS Morse Taper Shank DIN345 Drill



General-purpose drill, to drill steels with tensile strength up to 1000N/mm<sup>2</sup>, cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.

<b>Discount Group</b>	41
<b>Material</b>	HSS
<b>Standard</b>	DIN345
<b>Depth Of Cut</b>	4-5 x Ø
<b>Point Angle</b>	118°
<b>Packing Unit</b>	All Sizes Packed in 1's

<b>Surface Treatment</b>	Steam
<b>Shank Type</b>	MTS
<b>Helix Group (Din1836)</b>	N
<b>Cutting Direction</b>	RH
<b>Tolerance</b>	h8

MTS1 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
6.00		0.2362	138.0	57.0
6.10		0.2401	144.0	63.0
6.20		0.2440	144.0	63.0
6.25		0.2460	144.0	63.0
6.30		0.2480	144.0	63.0
6.350	1/4"	0.2500	144.0	63.0
6.40		0.2519	144.0	63.0
6.50		0.2559	144.0	63.0
6.60		0.2598	144.0	63.0
6.70		0.2637	144.0	63.0
6.746	17/64"	0.2656	150.0	69.0
6.75		0.2657	150.0	69.0
6.80		0.2677	150.0	69.0
6.90		0.2716	150.0	69.0
7.00		0.2755	150.0	69.0
7.10		0.2795	150.0	69.0
7.142	9/32"	0.2812	150.0	69.0
7.20		0.2834	150.0	69.0
7.25		0.2854	150.0	69.0
7.30		0.2874	150.0	69.0
7.40		0.2913	150.0	69.0
7.50		0.2952	150.0	69.0
7.539	19/64"	0.2968	156.0	75.0
7.60		0.2992	156.0	75.0
7.70		0.3031	156.0	75.0
7.75		0.3051	156.0	75.0
7.80		0.3070	156.0	75.0
7.90		0.3110	156.0	75.0
7.938	5/16"	0.3125	156.0	75.0
8.00		0.3149	156.0	75.0
8.10		0.3188	156.0	75.0
8.20		0.3228	156.0	75.0

MTS1 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
8.25		0.3248	156.0	75.0
8.30		0.3267	156.0	75.0
8.334	21/64"	0.3281	156.0	75.0
8.40		0.3307	156.0	75.0
8.50		0.3346	156.0	75.0
8.60		0.3385	162.0	81.0
8.70		0.3425	162.0	81.0
8.731	11/32"	0.3437	162.0	81.0
8.75		0.3444	162.0	81.0
8.80		0.3464	162.0	81.0
8.90		0.3503	162.0	81.0
9.00		0.3543	162.0	81.0
9.10		0.3582	162.0	81.0
9.126	23/64"	0.3593	162.0	81.0
9.20		0.3622	162.0	81.0
9.25		0.3641	162.0	81.0
9.30		0.3661	162.0	81.0
9.40		0.3700	162.0	81.0
9.50		0.3740	162.0	81.0
9.525	3/8"	0.3750	168.0	87.0
9.60		0.3779	168.0	87.0
9.70		0.3818	168.0	87.0
9.75		0.3838	168.0	87.0
9.80		0.3858	168.0	87.0
9.90		0.3897	168.0	87.0
9.921	25/64"	0.3906	168.0	87.0
10.00		0.3937	168.0	87.0
10.10		0.3976	168.0	87.0
10.20		0.4015	168.0	87.0
10.25		0.4035	168.0	87.0
10.30		0.4055	168.0	87.0
10.317	13/32"	0.4062	168.0	87.0

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<b>Discount Group</b>	41
<b>Material</b>	HSS
<b>Standard</b>	DIN345
<b>Depth Of Cut</b>	4-5 x Ø
<b>Point Angle</b>	118°
<b>Packing Unit</b>	All Sizes Packed in 1's

<b>Surface Treatment</b>	Steam
<b>Shank Type</b>	MTS
<b>Helix Group (Din1836)</b>	N
<b>Cutting Direction</b>	RH
<b>Tolerance</b>	h8

MTS1 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
10.40		0.4094	168.0	87.0
10.50		0.4133	168.0	87.0
10.60		0.4173	168.0	87.0
10.70		0.4212	175.0	94.0
10.714	27/64"	0.4218	175.0	94.0
10.75		0.4232	175.0	94.0
10.80		0.4251	175.0	94.0
10.90		0.4291	175.0	94.0
11.00		0.4330	175.0	94.0
11.10		0.4370	175.0	94.0
11.113	7/16"	0.4375	175.0	94.0
11.20		0.4409	175.0	94.0
11.25		0.4429	175.0	94.0
11.30		0.4448	175.0	94.0
11.40		0.4488	175.0	94.0
11.50		0.4527	175.0	94.0
11.509	29/64"	0.4531	175.0	94.0
11.60		0.4566	175.0	94.0
11.70		0.4606	175.0	94.0
11.75		0.4625	175.0	94.0
11.80		0.4645	175.0	94.0
11.90		0.4685	182.0	101.0
11.905	15/32"	0.4687	182.0	101.0
12.00		0.4724	182.0	101.0
12.10		0.4763	182.0	101.0

MTS1 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
12.20		0.4803	182.0	101.0
12.25		0.4822	182.0	101.0
12.301	31/64"	0.4843	182.0	101.0
12.40		0.4881	182.0	101.0
12.50		0.4921	182.0	101.0
12.60		0.4960	182.0	101.0
12.700	1/2"	0.5000	182.0	101.0
12.75		0.5019	182.0	101.0
12.80		0.5039	182.0	101.0
12.90		0.5078	182.0	101.0
13.00		0.5118	182.0	101.0
13.096	33/64"	0.5156	182.0	101.0
13.20		0.5196	182.0	101.0
13.25		0.5216	189.0	108.0
13.30		0.5236	189.0	108.0
13.40		0.5275	189.0	108.0
13.492	17/32"	0.5312	189.0	108.0
13.50		0.5314	189.0	108.0
13.60		0.5354	189.0	108.0
13.70		0.5393	189.0	108.0
13.75		0.5413	189.0	108.0
13.80		0.5433	189.0	108.0
13.889	35/64"	0.5468	189.0	108.0
13.90		0.5472	189.0	108.0
14.00		0.5511	189.0	108.0

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<b>Standard</b>	DIN345
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<b>Point Angle</b>	118°
<b>Packing Unit</b>	All Sizes Packed in 1's

<b>Surface Treatment</b>	Steam
<b>Shank Type</b>	MTS
<b>Helix Group (Din1836)</b>	N
<b>Cutting Direction</b>	RH
<b>Tolerance</b>	h8

MTS2 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
14.10		0.5551	212.0	114.0
14.20		0.5590	212.0	114.0
14.25		0.5610	212.0	114.0
14.288	9/16"	0.5625	212.0	114.0
14.50		0.5708	212.0	114.0
14.684	37/64"	0.5781	212.0	114.0
14.75		0.5807	212.0	114.0
15.00		0.5905	212.0	114.0
15.081	19/32"	0.5937	218.0	120.0
15.25		0.6003	218.0	120.0
15.476	39/64"	0.6093	218.0	120.0
15.50		0.6102	218.0	120.0
15.75		0.6200	218.0	120.0
15.875	5/8"	0.6250	218.0	120.0
16.00		0.6299	218.0	120.0
16.25		0.6397	223.0	125.0
16.271	41/64"	0.6406	223.0	125.0
16.50		0.6496	223.0	125.0
16.667	21/32"	0.6562	223.0	125.0
16.75		0.6594	223.0	125.0
17.00		0.6692	223.0	125.0
17.064	43/64"	0.6718	228.0	130.0
17.25		0.6791	228.0	130.0
17.463	11/16"	0.6875	228.0	130.0
17.50		0.6889	228.0	130.0
17.75		0.6988	228.0	130.0
17.859	45/64"	0.7031	228.0	130.0
18.00		0.7086	228.0	130.0
18.25		0.7185	233.0	135.0
18.255	23/32"	0.7187	233.0	135.0
18.50		0.7283	233.0	135.0

MTS2 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
18.651	47/64"	0.7343	233.0	135.0
18.75		0.7381	233.0	135.0
19.00		0.7480	233.0	135.0
19.050	3/4"	0.7500	238.0	140.0
19.25		0.7578	238.0	140.0
19.446	49/64"	0.7656	238.0	140.0
19.50		0.7677	238.0	140.0
19.75		0.7775	238.0	140.0
19.842	25/32"	0.7812	238.0	140.0
20.00		0.7874	238.0	140.0
20.239	51/64"	0.7968	243.0	145.0
20.25		0.7972	243.0	145.0
20.50		0.8070	243.0	145.0
20.638	13/16"	0.8125	243.0	145.0
20.75		0.8169	243.0	145.0
21.00		0.8267	243.0	145.0
21.034	53/64"	0.8281	243.0	145.0
21.25		0.8366	248.0	150.0
21.431	27/32"	0.8437	248.0	150.0
21.50		0.8464	248.0	150.0
21.75		0.8562	248.0	150.0
21.826	55/64"	0.8593	248.0	150.0
22.00		0.8661	248.0	150.0
22.225	7/8"	0.8750	248.0	150.0
22.25		0.8759	248.0	150.0
22.50		0.8858	253.0	155.0
22.621	57/64"	0.8906	253.0	155.0
22.75		0.8956	253.0	155.0
23.00		0.9055	253.0	155.0
23.017	29/32"	0.9062	253.0	155.0

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<b>Discount Group</b>	41
<b>Material</b>	HSS
<b>Standard</b>	DIN345
<b>Depth Of Cut</b>	4-5 x Ø
<b>Point Angle</b>	118°
<b>Packing Unit</b>	All Sizes Packed in 1's

<b>Surface Treatment</b>	Steam
<b>Shank Type</b>	MTS
<b>Helix Group (Din1836)</b>	N
<b>Cutting Direction</b>	RH
<b>Tolerance</b>	h8

MTS3 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
23.25		0.9153	276.0	155.0
23.414	59/64"	0.9218	276.0	155.0
23.50		0.9251	276.0	155.0
23.75		0.9350	281.0	160.0
23.813	15/16"	0.9375	281.0	160.0
24.00		0.9448	281.0	160.0
24.209	61/64"	0.9531	281.0	160.0
24.25		0.9547	281.0	160.0
24.50		0.9645	281.0	160.0
24.605	31/32"	0.9687	281.0	160.0
24.75		0.9744	281.0	160.0
25.00		0.9842	281.0	160.0
25.001	63/64"	0.9843	286.0	165.0
25.25		0.9940	286.0	165.0
25.400	1"	1.0000	286.0	165.0
25.50		1.0039	286.0	165.0
25.75		1.0137	286.0	165.0
26.00		1.0236	286.0	165.0
26.192	1.1/32"	1.0312	286.0	165.0
26.25		1.0334	286.0	165.0
26.50		1.0433	286.0	165.0
26.75		1.0531	291.0	170.0
26.988	1.1/16"	1.0625	291.0	170.0
27.00		1.0629	291.0	170.0

MTS3 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
27.25		1.0728	291.0	170.0
27.50		1.0826	291.0	170.0
27.75		1.0925	291.0	170.0
27.781	1.3/32"	1.0937	291.0	170.0
28.00		1.1023	291.0	170.0
28.25		1.1122	296.0	175.0
28.50		1.1220	296.0	175.0
28.575	1.1/8"	1.1250	296.0	175.0
28.75		1.1318	296.0	175.0
29.00		1.1417	296.0	175.0
29.25		1.1515	296.0	175.0
29.367	1.5/32"	1.1562	296.0	175.0
29.50		1.1614	296.0	175.0
29.75		1.1712	296.0	175.0
30.00		1.1811	296.0	175.0
30.163	1.3/16"	1.1875	301.0	180.0
30.25		1.1909	301.0	180.0
30.50		1.2007	301.0	180.0
30.75		1.2106	301.0	180.0
30.955	1.7/32"	1.2187	301.0	180.0
31.00		1.2204	301.0	180.0
31.25		1.2303	301.0	180.0
31.50		1.2401	301.0	180.0
31.750	1.1/4"	1.2500	306.0	185.0

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DIN345 Drill

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Discount Group	41
Material	HSS
Standard	DIN345
Depth Of Cut	4-5 x Ø
Point Angle	118°
Packing Unit	All Sizes Packed in 1's

Surface Treatment	Steam
Shank Type	MTS
Helix Group (Din1836)	N
Cutting Direction	RH
Tolerance	h8

MTS4 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
32.00		1.2598	334.0	185.0
32.50		1.2795	334.0	185.0
32.542	1.9/32"	1.2812	334.0	185.0
33.00		1.2992	334.0	185.0
33.338	1.5/16"	1.3125	334.0	185.0
33.50		1.3188	334.0	185.0
34.00		1.3385	339.0	190.0
34.131	1.11/32"	1.3437	339.0	190.0
34.50		1.3582	339.0	190.0
34.925	1.3/8"	1.3750	339.0	190.0
35.00		1.3779	339.0	190.0
35.50		1.3976	339.0	190.0
35.717	1.13/32"	1.4062	344.0	195.0
36.00		1.4173	344.0	195.0
36.50		1.4370	344.0	195.0
36.513	1.7/16"	1.4375	344.0	195.0
37.00		1.4566	344.0	195.0
37.305	1.15/32"	1.4687	344.0	195.0
37.50		1.4763	344.0	195.0
38.00		1.4960	349.0	200.0
38.100	1.1/2"	1.5000	349.0	200.0
38.50		1.5157	349.0	200.0
38.892	1.17/32"	1.5312	349.0	200.0
39.00		1.5354	349.0	200.0
39.50		1.5551	349.0	200.0
39.688	1.9/16"	1.5625	349.0	200.0
40.00		1.5748	349.0	200.0
40.481	1.19/32"	1.5937	354.0	205.0
40.50		1.5944	354.0	205.0
41.00		1.6141	354.0	205.0
41.275	1.5/8"	1.6250	354.0	205.0

MTS4 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
41.50		1.6338	354.0	205.0
42.00		1.6535	354.0	205.0
42.067	1.21/32"	1.6562	354.0	205.0
42.50		1.6732	354.0	205.0
42.863	1.11/16"	1.6875	359.0	210.0
43.00		1.6929	359.0	210.0
43.50		1.7125	359.0	210.0
43.655	1.23/32"	1.7187	359.0	210.0
44.00		1.7322	359.0	210.0
44.450	1.3/4"	1.7500	359.0	210.0
44.50		1.7519	359.0	210.0
45.00		1.7716	359.0	210.0
45.242	1.25/32"	1.7812	364.0	215.0
45.50		1.7913	364.0	215.0
46.00		1.8110	364.0	215.0
46.038	1.13/16"	1.8125	364.0	215.0
46.50		1.8307	364.0	215.0
46.831	1.27/32"	1.8437	364.0	215.0
47.00		1.8503	364.0	215.0
47.50		1.8700	364.0	215.0
47.625	1.7/8"	1.8750	369.0	220.0
48.00		1.8897	369.0	220.0
48.417	1.29/32"	1.9062	369.0	220.0
48.50		1.9094	369.0	220.0
49.00		1.9291	369.0	220.0
49.213	1.15/16"	1.9375	369.0	220.0
49.50		1.9488	369.0	220.0
50.00		1.9685	369.0	220.0
50.006	1.31/32"	1.9687	374.0	225.0
50.8	2"	2.0000	374.0	225.0

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<b>Discount Group</b>	41
<b>Material</b>	HSS
<b>Standard</b>	DIN345
<b>Depth Of Cut</b>	4-5 x Ø
<b>Point Angle</b>	118°
<b>Packing Unit</b>	All Sizes Packed in 1's

<b>Surface Treatment</b>	Steam
<b>Shank Type</b>	MTS
<b>Helix Group (Din1836)</b>	N
<b>Cutting Direction</b>	RH
<b>Tolerance</b>	h8

MTS5 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
51.00		2.0078	412.0	225.0
52.00		2.0472	412.0	225.0
52.388	2.1/16"	2.0625	412.0	225.0
53.00		2.0866	412.0	225.0
53.975	2.1/8"	2.1250	417.0	230.0
54.00		2.1259	417.0	230.0
55.00		2.1653	417.0	230.0
55.563	2.3/16"	2.1875	417.0	230.0
56.00		2.2047	417.0	230.0
57.00		2.2440	422.0	235.0
57.150	2.1/4"	2.2500	422.0	235.0
58.00		2.2834	422.0	235.0
58.738	2.5/16"	2.3125	422.0	235.0
59.00		2.3228	422.0	235.0
60.00		2.3622	422.0	235.0
60.325	2.3/8"	2.3750	427.0	240.0
61.00		2.4015	427.0	240.0
61.913	2.7/16"	2.4375	427.0	240.0
62.00		2.4409	427.0	240.0
63.00		2.4803	427.0	240.0
63.500	2.1/2"	2.5000	432.0	245.0
64.00		2.5196	432.0	245.0
65.00		2.5590	432.0	245.0
65.088	2.9/16"	2.5625	432.0	245.0
66.00		2.5984	432.0	245.0
66.675	2.5/8"	2.6250	432.0	245.0
67.00		2.6377	432.0	245.0
68.00		2.6771	437.0	250.0
68.263	2.11/16"	2.6875	437.0	250.0
69.00		2.7165	437.0	250.0
69.850	2.3/4"	2.7500	437.0	250.0
70.00		2.7559	437.0	250.0

MTS5 mm Ø	Ø Inch	Ø Dec Inch	O/all Length mm	Flute Length mm
71.00		2.7952	437.0	250.0
71.438	2.13/16"	2.8125	442.0	255.0
72.00		2.8346	442.0	255.0
73.00		2.8740	442.0	255.0
73.025	2.7/8"	2.8750	442.0	255.0
74.00		2.9133	442.0	255.0
74.613	2.15/16"	2.9375	442.0	255.0
75.00		2.9527	442.0	255.0
76.00		2.9921	447.0	260.0
76.200	3"	3.0000	447.0	260.0

MTS6 mm Ø	Ø Dec Inch	O/all Length mm	Flute Length mm
77.00	3.0314	514.0	260.0
78.00	3.0708	514.0	260.0
79.00	3.1102	514.0	260.0
80.00	3.1496	514.0	260.0
85.00	3.3464	519.0	265.0
90.00	3.5433	524.0	270.0
95.00	3.7401	529.0	275.0
100.00	3.9370	534.0	280.0