

# HDD DRILL PIPE SELECTION GUIDE



	Pipe OD	Wall Thickness	Drill Pipe Length	Bend Radius	Max Torque (ft./lbs.)
<b>Power Pipe HD</b>					
JT60	3.063"	0.347"	15.0'	170'	9,000
JT20, JT2020, JT20XP	2.063"	0.243"	10.0'	107'	2,500
JT25	2.375"	0.280"	9.8'	123'	4,000
JT2720 Mach 1	2.375"	0.280"	9.8'	123'	4,000
JT30, JT3020	2.375"	0.280"	9.8'	123'	4,000
JT9/JT922	1.575"	0.244"	6.0'	82'	1,100
JT1720, JT1720 Mach 1	2.060"	0.243"	10.0'	107'	1,800
JT920/JT921	1.575"	0.244"	6.6'	100'	1,100
JT4020	2.625"	0.287"	14.8'	150'	5,000
JT920L	1.625"	0.248"	10.0'	100'	1,100
JT2720	2.230"	0.268"	9.8'	145'	3,300
JT4020 Mach 1	2.813"	0.312"	14.8'	185'	5,000
JT40	2.810"	0.295"	15'	146'	5,500
JT1220	1.820"	0.245"	10.0'	120'	1,400
JT520	1.125"	0.250"	4.9'	70'	500
JT5	1.125"	0.250"	4.9'	70'	550
<b>Ditch Witch Forged</b>					
JT10	1.625"	.250"	6.0'	84'	1,100
JT20, JT2020	2.100"	0.300"	10.0'	109'	2,200
JT25, JT30, JT3020	2.375"	0.300"	9.8'	123'	4,000
<b>HIWS1 Forged</b>					
JT5	1.320"	0.179"	4.9'	57'	900
JT9	1.660"	0.191"	6.0'	96'	1,500
JT1220	1.900"	0.240"	10.0'	99'	2,000
JT1220	2.063"	0.260"	10.0'	102'	2,600
JT20, JT2020	2.375"	0.254"	10.0'	108'	4,000
JT25	2.375"	0.254"	10.0'	108'	4,000
JT30, JT3020	2.375"	0.254"	10.0'	108'	4,000
JT40	2.625"	0.400"	15.0'	145'	5,500
JT60	2.875"	0.392"	15.0'	169'	9,000
JT8020	3.625"	0.313"	14.8'	205'	12,000
JT100	3.625"	0.313"	14.8'	205'	12,000
JT100	3.500"	0.449"	15.0'	197'	10,000
<b>Power Pipe HD, Fluid Miser</b>					
JT9/JT922	1.575"	0.244"	6.0'	82'	1,100
JT20, JT2020, JT20XP	2.100"	0.300"	10.0'	109'	2,500
JT25	2.375"	0.280"	9.8'	123'	4,000
JT2720 Mach 1	2.375"	0.280"	9.8'	123'	4,000
JT30, JT3020	2.375"	0.280"	9.8'	123'	4,000
JT1720, JT1720 Mach 1	2.063"	0.243"	10.0'	107'	1,800
JT922	1.575"	0.244"	6.0'	82'	1,100
JT920/JT921	1.575"	0.244"	6.6'	100'	1,100
JT4020	2.625"	0.287"	14.8'	150'	5,000
JT920L	1.625"	0.248"	10.0'	100'	1,100
JT2720	2.230"	0.268"	9.8'	145'	3,300
JT4020 Mach 1	2.813"	0.312"	14.8'	185'	5,000
JT40	2.810"	0.295"	15'	146'	5,500
JT60	3.063"	0.347"	15.0'	170'	9,000
JT1220	1.820"	0.245"	10.0'	120'	1,400
<b>All Terrain Pipe</b>					
JT2720 All Terrain Mach 1	2.938"	0.267"	9.3'	153'	4,000
JT30 All Terrain	2.938"	0.267"	9.3'	153'	4,000
JT2720 All Terrain Mach 1	2.230"	0.268"	9.3'	145'	4,000
JT30 All Terrain	2.230"	0.268"	9.3'	145'	4,000
JT4020 All Terrain Mach 1	3.625"	0.313"	14.3'	205'	9,000
JT60 All Terrain	3.625"	0.313"	14.3'	205'	9,000
AT40	3.070"	0.340"	15'	170'	5,500
JT100 All Terrain	3.625"	0.313"	14.1'	205'	12,000



	Pipe OD	Wall Thickness	Drill Pipe Length	Bend Radius	Max Torque (ft./lbs.)
19.50# GRADE S135	5"	0.362	20'	13.8	74,100
19.50# GRADE S135	5"	0.362	31'	13.8	74,100
25.60# GRADE S135	5"	0.500	31'	13.8	94,062
21.90# GRADE S135	5 1/2"	0.361	31'	12.5	91,278
24.70# GRADE S135	5 1/2"	0.415	31'	12.5	101,833
25.20# GRADE S135	6 5/8"	0.330	31'	10.4	127,044
27.70# GRADE S135	6 5/8"	0.362	31'	10.4	137,350
34.01# GRADE S135	6 5/8"	0.522	31'	10.4	183,962




<b>Drill pipe</b>					
13.30# GRADE S135 2 7/8" IFDS	3.5"	0.368	15'	292' min Rad.	12,500
19.50# GRADE S135 4 1/2" IF	5"	0.362	20'	550' min Rad.	60,000
19.50# GRADE S135 4 1/2" IF	5"	0.362	31'	550' min Rad.	60,000
25.60# GRADE S135 4 1/2" IF	5"	0.500	31'	550' min Rad.	60,000
34.01# GRADE S135 4 1/2" IFDS	5"	0.750	31'	550' min Rad.	80,000
21.90# GRADE S135 5 1/2" FHDS	5 1/2"	0.361	31'	690' min Rad.	91,278
24.70# GRADE S135 5 1/2" FHDS	5 1/2"	0.415	31'	690' min Rad.	101,833
25.20# GRADE S135 6 5/8" FH	6 5/8"	0.330	31'	720' min Rad.	73,000
27.70# GRADE S135 6 5/8" FH	6 5/8"	0.362	31'	720' min Rad.	108,200
34.01# GRADE S135 6 5/8" FH	6 5/8"	0.522	31'	720' min Rad.	108,200
33.70# GRADE S135 6 5/8" FHDS	7 5/8"	0.430	31'	770' min Rad.	170,872
<b>Drill Casing</b>					
46.10# GRADE Q125 NST G1107	7 5/8"	0.625"	15', 20', 31', 43'	700' min Rad.	52,000
58.00# GRADE Q125 NST G1107	8"	0.75"	15', 20', 31', 43'	750' min Rad.	73,000
59.20# GRADE Q125 NST G1107	8 5/8"	0.700"	15', 20', 31', 43'	800' min Rad.	122,000
62.80# GRADE Q125 SLSF	9 7/8"	0.625"	15', 20', 31', 43'	890' min Rad.	90,000
89.00# GRADE Q125 SLSF	10 7/8"	0.800"	15', 20', 31', 43'	1,050' min Rad.	115,000
95.00# GRADE Q125 NST G1107	11 3/4"	0.813"	15', 20', 31', 43'	1,150' min Rad.	180,000
88.20# GRADE Q125 SLSF	13 5/8"	0.625"	15', 20', 31', 43'	1,250' min Rad.	85,000



<b>HIWS1</b>					
DD65, JT5	1.32"	0.18"	5'	57.3'	
D6x6	1.32"	0.18"	6'	57.3'	
D7x11, D9X13, JT922, JT9	1.66"	0.19"	6'	95.5'	
D10x14, D10X15	1.66"	0.19"	10'	95.5'	
D16x20, D18X22, D20X22	1.90"	0.24"	10'	98.7'	
D20x22, D23X30, D24X26, DD2024, JT1220, JT20	2.06"	0.26"	10'	101.9'	
D24x40, D23X30, DD3238, JT2020, JT3020, JT20, JT25, JT30	2.38"	0.25"	10'	108.2'	
D33x44, D36X50, D40X55	2.38"	0.30"	10'	108.2'	
D35x44, D36X50, D40X40	2.38"	0.30"	15'	108.2'	
D36x50, D40X55	2.63"	0.40"	10'	145.0'	
D35x44, D36X50, D40X55	2.63"	0.40"	15'	145.0'	
UN160x70, D60X90	2.88"	0.39"	10'	168.7'	
D50x100, D60X90, JT60	2.88"	0.39"	15'	168.7'	
D50x100, D55X100, D60X90, D75x100, D80X100, DD6, JT7020, JT8020, JT100	3.50"	0.45"	15'	197.4'	
D100x140	3.50"	0.48"	15'	197.4'	
D80x120, D100X120, D100X140	3.50"	0.48"	20'	197.4'	
<b>HXT</b>					
D22x33, D24X33, JT 2020	2.06"	0.26"	10'	101.9'	
D33x44, D36X50, DD4045, JT3020, JT30	2.38"	0.30"	10'	108.2'	
D33x44, D36X50	2.38"	0.30"	15'	108.2'	
D36x50	2.63"	0.40"	15'	145.0'	
JT4020	2.63"	0.40"	15'	145.0'	

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	Pipe OD	Wall Thickness	Drill Pipe Length	Bend Radius	Max Torque (ft./lbs.)
D55x100, D80x100, DD6, DD8	2.88"	0.40"	15'	168.7'	
JT7020, JT8020, JT100, UNI120x180, DD10, DD110	3.50"	0.40"	15'	197.4'	
D100x120, DD10, DD110	3.50"	0.45"	20'	197.4'	
HIWSH					
Case 6010	2.06"	0.26"	10'	101.9'	
Case 6030	2.38"	0.25"	10'	108.2'	



#### Ditch Witch/Jet-Trac Compatible

JT820/JT920	1.660"	0.240"	78.75'	98.1'
JT922	1.660"	0.240"	78.75'	98.1'
JT922Coarse Thread	1.660"	0.240"	78.75'	98.1'
JT920L	1.660"	0.240"	118.00"	98.1'
JT1220	1.900"	0.240"	118.00"	112.3'
JT1720	2.063"	0.270"	118.00"	121.9'
JT2020	2.063"	0.270"	118.00"	121.9'
JT2720	2.375"	0.280"	118.00"	140.4'
JT2720 Mach 1	2.375"	0.280"	118.00"	140.4'
JT4020	2.875"	0.362"	177.20"	170.0'
JT4020 Mach 1	2.875"	0.362"	177.20"	170.0'
JT7020/JT100/JT8020	3.50"	0.368"	177.20"	207.0'

#### Vermeer Compatible

D7x11	1.660"	0.240"	72.00"	98.1'
D10x15	1.660"	0.240"	120.00"	98.1'
D16x20/D18x22	1.90"	0.240"	120.00"	112.3'
D24x26/D20x24	2.063"	0.240"	120.00"	121.9'
D24x40	2.375"	0.280"	120.00"	140.4'
D40x40	2.375"	0.280"	180.00"	140.4'
D36x50 FS#700	2.625"	0.400"	120.00"	145.5'
D36x50 FS#700	2.625"	0.400"	180.00"	145.5'
D50x100	2.875"	0.362"	180.00"	170.0'
D80x100	3.50"	0.368"	180.00"	206.9'
D100x120	3.50"	0.368"	240.00"	206.9'

#### Other Compatible

TT4X	1.66"	0.240"	60.00"	98.1'
Case 6010	2.063"	0.270"	120.00"	121.9'
Case 6030	2.375"	0.280"	120.00"	140.4'
2 7/8" Flush	2.875"	0.362"	120.00"	170.0'
2 7/8"x10"	2.875"	0.362"	120.00"	170.0'
3 1/2"x15"	3.50"	0.368"	180.00"	206.9'
3 1/2"x20"	3.50"	0.368"	240.00"	206.9'
3 1/2"x30"	3.50"	0.368"	320.00"	206.9'
4"x15"	4.00"	0.330"	180.00"	236.5'
4"x20"	4.00"	0.330"	240.00"	236.5'



19.50# GRADE S135	5"	0.362	20'	74,100
19.50# GRADE S135	5"	0.362	31.5'	74,100
25.60# GRADE S135	5"	0.500	31.5'	94,062
24.70# GRADE S135	5 1/2"	0.415	31.5'	101,833
26.30# GRADE S135	5 7/8"	0.362	31.5'	117,915
27.70# GRADE S135	6 5/8"	0.362	31.5'	137,330
34.00# GRADE S135	6 5/8"	0.521	31.5'	183,695
33.70# GRADE S135	7 5/8"	0.430	31.5'	214,940
39.00# GRADE S135	7 5/8"	0.500	31.5'	243,035
54.30# GRADE S135	8 3/4"	0.625	31.5'	392,965



#### Ditch Witch Machine

JT520 Power Pipe HD (fine thread)	1.125"		4.9'	70'	500
JT520 Power Pipe HD (coarse thread)	1.125"		4.9'	70'	500
JT5 Power Pipe HD (coarse thread)	1.125"		4.9'	70'	550
JT820 /JT920 / JT921	1.580"		6.6'	100'	1,100
JT920L	1.625"		6.6'	100'	1,100
JT9 / JT922 Power Pipe HD (coarse)	1.580"		6'	100'	1,100
JT1220 Power Pipe	1.820"		10'	120'	1,400
JT1720/1720M1	2.125"		10'	115'	1,800
JT20 / JT2020 Power Pipe HD	2.125"		10'	115'	2,200
JT25 / JT30 / JT2720M1 Power Pipe HD	2.375"		9.8'	123'	4,000
JT2720 Power Pipe	2.375"		9.8'	145'	3,200
JT2720M1 / 3020M1	2.375"		9.8'	150'	4,000
JT4020 Power Pipe	2.875"		14.75'	185'	5,000
JT4020M1 Power Pipe	2.875"		14.75'	185'	5,000
JT40 Power Pipe HD	2.180"		15'	146'	5,500
JT60 Power Pipe HD	3.0625"		15'	170'	9,000
JT7020/8020/JT100 Power Pipe HD	3.500"		14.75'	205'	10,000

#### Vermeer Machine

D7X11, D9X13, D10x15	1.660"		6'	97'	1,500
D16X20, D18X22, D20x22	1.900"		10'	98'	2,000
D20X22, D24X26, D23x30	2.063"		10'	102'	2,600
D24X40, D23x30	2.375"		10'	108'	4,000
D36X50, D40x55 (#650 x 10')	2.375"		10'	108'	5,000
D36X50 (#650 x 15')	2.375"		15'	108'	5,000
D36X50, D40x55 (#700x10')	2.625"		10'	145'	5,000
D36X50, D40x55 (#700x15')	2.625"		15'	145'	5,000
D50x100, D60x90	2.875"		15'	169'	9,000
D80x100, D50x100, D60x90	3.500"		15'	200'	10,000
D100x120, D100x140	3.500"		20'	200'	15,000
Tube Technologies Machine Grundodrill 4X	1.660"		5'	97'	950
Toro Machine DD2226, DD2024	2.063"		10'	102'	2,600
DD4045, DD4050	2.375"		10'	108'	4,500



#### Firestick Drill Rod

D6x6	1.32"	0.179"	6'	57.3'	900
D7x11 - D10x15 S3	1.66"	0.191"	6'	95.5'	1,500
D10x14 - D10x15	1.66"	0.191"	10'	95.5'	1,500
D16x20A - D20x22 S3	1.90"	0.240"	10'	98.7'	2,250
D20x22 - D23x30 S3	2.06"	0.260"	10'	101.9'	3,000
D23x30 S3 - D24x40 S3	2.375"	0.254"	10'	108.2'	4,200
D33x44 - D40x55 S3	2.375"	0.295"	10'	108.2'	5,500
D36x50 - D40x55 S3	2.375"	0.295"	15'	108.2'	5,500
D36x50 - D40x55 S3	2.625"	0.40"	10'	145'	5,500
D50x100 - D60x90	2.875"	0.392"	15'	168.7'	9,250
D50x100A - D80x100	3.5"	0.449"	15'	197.4'	10,000
D100x140 - D100x140 S3	3.5"	0.476"	15'	197.4'	15,000
D80x120 - D100x140 S3	3.5"	0.476"	20'	197.4'	15,000
Silver Series Drill Rod					
D7x11 - D10x15 S3	1.66"	0.191"	6'	102.6'	1,500
D16x20A - D20x22 S3	1.90"	0.240"	10'	106'	2,250
D20x22 - D23x30 S3	2.06"	0.260"	10'	109.4'	3,000
D23x30 S3 - D24x40 S3	2.375"	0.254"	10'	116.2'	4,200