

DRILLPIPE SELECTION GUIDE



	Pipe OD	Wall Thickness	Length	Bend Radius	Max Torque (ft./lbs.)
Power Pipe HD & Power Pipe Original					
JT520	1.125"	0.250"	4.9'	70'	500
JT5	1.125"	0.250"	4.9'	70'	550
JT920/JT921	1.575"	0.244"	6.6'	100'	1,100
JT920L	1.625"	0.248"	10.0'	100'	1,100
JT9/JT922	1.575"	0.244"	6.0'	82'	1,100
JT10	1.575"	0.244"	6.0'	82'	1,100
JT1220	1.820"	0.245"	10.0'	120"	1,400
JT1720, JT1720 Mach 1	2.063"	0.243"	10.0'	107"	1,800
JT20, JT2020, JT20XP	2.063"	0.243"	10.0'	107"	2,500
JT24	2.250"	0.275"	10.0'	117"	3,000
JT25	2.375"	0.280"	9.8'	123"	4,000
JT2720	2.230"	0.268"	9.8'	145"	3,300
JT2720 Mach 1	2.375"	0.280"	9.8'	123"	4,000
JT28	2.375"	0.280"	9.8'	123"	4,200
JT30, JT3020	2.375"	0.280"	9.8'	123"	4,000
JT32	2.375"	0.280"	9.8'	123"	4,200
JT4020	2.625"	0.287"	14.8"	150"	5,000
JT4020 Mach 1	2.813"	0.312"	14.8"	185"	5,000
JT40	2.810"	0.295"	15.0'	146"	5,500
JT60	3.063"	0.347"	15.0'	170"	9,000
JT100	3.625"	0.313"	14.8"	205"	12,000
Ditch Witch Forged HD & HDX					
JT10	1.625"	0.250"	6.0'	84'	1,100
JT20, JT2020	2.100"	0.300"	10.0'	109"	2,200
JT24	2.375"	0.300"	10.0'	123"	3,000
JT28	2.375"	0.300"	9.8'	123"	4,200
JT25, JT30, JT3020	2.375"	0.300"	9.8'	123"	4,000
JT32	2.375"	0.300"	9.8'	123"	4,200
JT40	2.750"	0.345"	15.0'	143"	5,500
Power Pipe HD & Power Pipe Original, Fluid Miser					
JT920/JT921	1.575"	0.244"	6.6'	100'	1,100
JT920L	1.625"	0.248"	10.0'	100'	1,100
JT9/JT922	1.575"	0.244"	6.0'	82'	1,100
JT922	1.575"	0.244"	6.0'	82'	1,100
JT10	1.575"	0.244"	6.0'	82'	1,100
JT1220	1.820"	0.245"	10.0'	120"	1,400
JT1720, JT1720 Mach 1	2.063"	0.243"	10.0'	107"	1,800
JT20, JT2020, JT20XP	2.100"	0.300"	10.0'	109"	2,500
JT24	2.250"	0.275"	10.0'	117"	3,000
JT25	2.375"	0.280"	9.8'	123"	4,000
JT2720	2.230"	0.268"	9.8'	145"	3,300
JT2720 Mach 1	2.375"	0.280"	9.8'	123"	4,000
JT28	2.375"	0.280"	9.8'	123"	4,200
JT30, JT3020	2.375"	0.280"	9.8'	123"	4,000
JT32	2.375"	0.280"	9.8'	123"	4,200
JT4020	2.625"	0.287"	14.8"	150"	5,000
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
All Terrain Pipe					
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
AT32	2.500"	0.275"	10'	130"	4,200
JT4020 All Terrain Mach 1	3.625"	0.313"	14.3'	205"	9,000
AT40	3.070"	0.340"	15'	170"	5,500
JT60 All Terrain	3.625"	0.313"	14.3'	205"	9,000
JT100 All Terrain	3.625"	0.313"	14.1'	205"	12,000



	Pipe OD	Wall Thickness	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	137,330
34.01# GRADE S135	6 5/8"	0.522	31'	10.4	183,962



	Pipe OD	Wall Thickness	Length	Bend Radius	Max Torque (ft./lbs.)
Drill pipe					
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	15', 20', 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
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
Drill Casing					
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
109.00# GRADE Q125 SLSF	16"	0.656"	15', 20', 31', 43'	1,600' min Rad.	156,000

Drillpipe Selection Guide



	Pipe OD	Wall Thickness	Length	Bend Radius	Max Torque (ft./lbs.)
HIWS1 with Proprietary I-145 steel					
TT4X, JT5	1.66"	0.19"	5'	95.5'	1,500
D7x11, D9X13, JT922, JT9, JT10	1.66"	0.19"	6'	95.5'	1,500
D10x14, D10X15	1.66"	0.19"	10'	95.5'	1,500
D16x20, D18X22, D20X22	1.90"	0.24"	10'	98.7'	2,300
D20x22, D23X30, D24X26, DD2024, JT1220, JT20	2.06"	0.26"	10'	101.9'	2,700
D24x40, D23X30, DD3238, JT2020, JT3020, JT20, JT25, JT30	2.38"	0.25"	10'	108.2'	4,200
D33x44, D36X50, D40X55	2.38"	0.30"	10'	108.2'	5,500
D33x44, D36X50, D40X40	2.38"	0.30"	15'	108.2'	5,500
D36x50, D40X55	2.63"	0.40"	10'	145.0'	6,000
D33x44, D36X50, D40X55, JT40	2.63"	0.40"	15'	145.0'	6,000
UNI60x70, D60X90	2.88"	0.39"	10'	168.7'	9,300
D50x100, D60X90, JT60	2.88"	0.39"	15'	168.7'	9,300
D50x100, D55X100, D60X90, D75x100, D80X100, DD6, JT7020, JT8020, JT100	3.50"	0.45"	15'	197.4'	12,000
D100x140	3.50"	0.48"	15'	197.4'	15,000
D80x120, D100X120, D100X140	3.50"	0.48"	20'	197.4'	15,000
HXT - with proprietary I-145 steel					
D22x33, D24X33, JT 2020	2.06"	0.26"	10'	101.9'	3,300
D33x44, D36X50, DD4045, JT3020, JT25, JT30	2.38"	0.30"	10'	108.2'	5,500
D33x44, D36X50	2.38"	0.30"	15'	108.2'	5,500
D36x50	2.63"	0.40"	15'	145.0'	5,500
JT4020M1	2.63"	0.40"	15'	145.0'	7,000
D55x100, D80X100, DD6, DD8	2.88"	0.40"	15'	168.7'	13,000
JT7020, JT8020, JT100, UNI120x180, DD10, DD110	3.50"	0.40"	15'	197.4'	18,000
D100x120, DD10, DD110	3.50"	0.45"	20'	197.4'	18,000
HIWSH with Proprietary I-145 Steel					
6010	2.06"	0.26"	10'	101.9'	1,500
6030	2.38"	0.25"	10'	108.2'	4,000
Ditch Witch thread - with proprietary I-145 steel					
JT1220	1.82"	0.25"	10'	120.0'	1,400
JT20, JT2020	2.06"	0.30"	10'	109.0'	2,200
JT24	2.25"	0.28"	10'	117.0"	3,000
JT25, JT30, JT3020, JT2720M1	2.38"	0.30"	10'	123.0'	4,000
JT4020M1	2.81"	0.31"	14.8'	150.0'	5,000
JT40	2.83"	0.31"	15'	146.0'	5,500
JT60	3.06"	0.35"	15'	170.0'	9,000
JT100	3.50"	0.39"	14.8"	205.0'	12,000
HIWS1-Advantage Series					
D7x11, D9X13, JT922, JT9, JT10	1.66"	0.19"	6'	95.5'	1,500
D20x22, D23X30, D24X26, DD2024, JT1220, JT20	2.06"	0.26"	10'	101.9'	2,700
D24x40, D23X30, DD3238, JT2020, JT3020, JT20, JT25, JT30	2.38"	0.25"	10'	108.2'	4,200
Ditch Witch® thread-Advantage Series					
JT9, JT10	1.66"	0.19"	6'	95.5'	1,500
JT20, JT2020	2.06"	0.30"	10'	109.0'	2,200
JT25, JT30, JT3020, JT2720M1	2.38"	0.30"	10'	123.0'	4,000
JT30-All Terrain	2.37"	0.28"	9.3'	145.0'	800/4,000
JT30-All Terrain (cobble)	2.91"	0.28"	9.3'	153.0'	800/4,000
JT60-All Terrain	3.63"	0.31"	14.3'	205.0'	2,000/12,000
JT100	3.50"	0.39"	14.8"	205.0'	12,000
JT100-All Terrain	3.63"	0.31"	14.1'	205.0'	2,000/12,000

	Pipe OD	Wall Thickness	Length	Bend Radius	Max Torque (ft./lbs.)
Drill pipe					
19.50# GRADE S135 4 1/2" IF	5"	0.362	20'		63,406
19.50# GRADE S135 4 1/2" IFDS	5"	0.362	20'		71,683
19.50# GRADE S135 4 1/2" IF	5"	0.362	31.5'		63,406
19.50# GRADE S135 4 1/2" IFDS	5"	0.362	31.5'		71,683
25.60# GRADE S135 4 1/2" IF	5"	0.500	20'		63,406
25.60# GRADE S135 4 1/2" IFDS	5"	0.500	20'		71,683
25.60# GRADE S135 4 1/2" IF	5"	0.500	31.5'		63,406
25.60# GRADE S135 4 1/2" IFDS	5"	0.500	31.5'		71,683
21.90# GRADE S135 5 1/2" FH	5 1/2"	0.361	31.5'		87,341
21.90# GRADE S135 5 1/2" FHDS	5 1/2"	0.361	31.5'		111,150
24.70# GRADE S135 5 1/2" FH	5 1/2"	0.415	31.5'		87,341
24.70# GRADE S135 5 1/2" FHDS	5 1/2"	0.415	31.5'		111,150
27.70# GRADE S135 5 1/2" FHDS	6 5/8"	0.362	31.5'		111,150
27.70# GRADE S135 6 5/8" FH	6 5/8"	0.362	31.5'		109,226
27.70# GRADE S135 6 5/8" FHDS	6 5/8"	0.362	31.5'		170,870
34.01# GRADE S135 6 5/8" FH	6 5/8"	0.521	31.5'		109,226
34.01# GRADE S135 6 5/8" FHDS	6 5/8"	0.521	31.5'		170,870
33.04# GRADE S135 6 5/8" FHDS	7 5/8"	0.430	31.5'		170,870
38.05# GRADE S135 6 5/8" FHDS	7 5/8"	0.500	31.5'		191,400
54.30# GRADE S135 7 5/8" H-90 DS	8 3/4"	0.625	31.5'		215,500



	Pipe OD	Wall Thickness	Length	Bend Radius	Max Torque (ft./lbs.)
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"	0.350"	180.00"	236.5'	
4"x20'	4.00"	0.350"	240.00"	236.5'	



	Pipe OD	Wall Thickness	Length	Bend Radius	Max Torque (ft./lbs.)
19.50# GRADE S135	5"	0.362	20'	417	74,100
19.50# GRADE S135	5"	0.362	31.5'	417	74,100
25.60# GRADE S135	5"	0.500	31.5'	417	94,062
24.70# GRADE S135	5 1/2"	0.415	31.5'	458	101,834
27.70# GRADE S135	6 5/8"	0.362	31.5'	552	137,331
34.00# GRADE S135	6 5/8"	0.521	31.5'	552	183,963
39.00# GRADE S135	7 5/8"	0.500	31.5'	635	243,035
54.30# GRADE S135	8 3/4"	0.625	31.5'	729	392,965



	Pipe OD	Wall Thickness	Length	Bend Radius	Max Torque (ft./lbs.)
Firestick Drill Rod					
D6x6 - D8x12	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



	Pipe OD	Wall Thickness	Length	Bend Radius	Max Torque (ft./lbs.)
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"		10'	100'	1,100
JT9 / JT922 Power Pipe HD (coarse thread)	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
JT24 Power Pipe HD	2.250"		10'	120'	3,000
JT25 / JT28 / JT30 / JT32 / 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
D220x300	5.000"		20'	296'	60,420
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
American Augers Machine					
DD-6	3.500"		15'	200'	20,700
DD-110	3.500"		20'	200'	20,700

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