



HDD Drill Rod for Directional Drilling - All Other Mfg



Tube Technologies Machine	Part Number	Mfg. Method	Mid-Body	Tool Joint OD	Length	Weight (lbs.)	Connection	Max Torque	% Slope Per Rod	Bend Radius	Rack Quantity
Grundodrill 4X/5X	TR4X	1-pc. Forged	1.660 inch	1.900 inch	5 ft	23	Firestick™ 1 #200	950	5.0%	97 ft	32
Toro Machine	Part Number	Mfg. Method	Mid-Body	Tool Joint OD	Length	Weight (lbs.)	Connection	Max Torque	% Slope Per Rod	Bend Radius	Rack Quantity
DD2226, DD2024	TR221628	1-pc. Forged	2.063 inch	2.250 inch	10 ft	60	Firestick™ 1 #400	2600	9.8%	102 ft	40
DD4045, DD4050	TR296309599	1-pc. Forged	2.375 inch	2.750 inch	10 ft	83	Firestick™ 1 #650	4500	9.3%	108 ft	52

Tuff Rod manufactures high-quality HDD (Horizontal Directional Drilling) drill pipe compatible with all manufacturers drills.

Tensile Strength 145,000 PSI. Tensile strength for TuffRod drill pipe is the maximum stress the material will sustain before fracture.

Yield Strength 135,000 PSI. TuffRod drill pipes yield strength is the stress corresponding to a specified permanent (plastic) deformation which is the point at which the material yields and won't spring back.