



# PREMIER DRILL PRODUCTS, LLC

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## JT4020 Mach 1\*

Premier horizontal directional drill rod is a premium manufactured product. We start with 4137H extra wear-resistant bar stock and heat treat the tool joints to oilfield API S135 specifications for ultimate fatigue resistance. The tool joints are machined to exact specifications and matched with precision fabricated tube bodies. The tubes are cut to length from a 4100 alloy series, high chrome-moly seamless tube and are forged, heat treated and machined to compliment the tool joints. The components are then inertia welded, producing an uncompromisable weld. This process is the exact same which is used throughout the world for oilfield drill pipe manufacturing. The rod is then MAG particle inspected to ensure the integrity of the weld. It is because of our attention to detail that our rods can be used with confidence as it is subjected to the combined loads of pull/thrust, bending and torque produced from the drill rig.

### General

HDD Compatibility:	Ditch Witch JT4020 Mach 1*
Thread Form:	V-0.038R

Dimensions:	U.S.	Metric
Tube OD (in, mm)	2.875	73.0
Tube WT (in, mm)	0.362	9.2
Tool Joint OD (in, mm)	3.550	88.9
Tool Joint ID (in, mm)	1.250	31.8
Rod Length (ft, m)	15	4.918

Weights	U.S.	Metric
Rod (lb per rod, kg per rod)	156	70.8

Performance	U.S.	Metric
Bend Radius**, min. (ft, m)	158	51.9
Bending Ratio**, max. (° per rod)	5.4	
Built Ratio**, max. (% slope per rod)	9.5	
Yield Torque (ft-lb, N-m)	8,807	11,940
Make-up Torque (ft-lb, N-m)	5,284	7,164
Tensile Strength (lb, N)	385,820	1,716,212



\*Ditch Witch & JT4020 Mach 1 are trademarks of Charles Machine Works.

\*\* Bend limits are valid only for pure bending (no other loads acting at the same time, e.g. Push/Pullback, etc).

Note: The information provided here is general data. This data is not a warranty or quality certificate. Premier Drill Products LLC retains the right to change this data at any time for product improvement.