



# JT60 ALL TERRAIN HORIZONTAL DIRECTIONAL DRILL



**TRENCHLESS**

# JT60 ALL TERRAIN HORIZONTAL DIRECTIONAL DRILL



2 Choice of a 200-gross-hp (149-kW) Tier 3 or Tier 4i Cummins® diesel engine; either engine provides the power to get the job done faster.

1 Double rack-and-pinion thrust drive is field-proven and designed to push/pull through the long, tough bores.

3 Patented All Terrain technology has the industry's most advanced inner-rod design, proven to increase production in hard rock and difficult terrain.

4 Proven, industry-leading pipeloader system is simple, easy to use (loads inside to outside) and designed to save you time, money and effort.

With a construction-grade, field-proven, durable frame and the most advanced two-pipe rock-drilling system in the industry, the **Ditch Witch® JT60 All Terrain Horizontal Directional Drill** delivers unbeatable productivity in the widest range of ground formations. The JT60 All Terrain has a uniquely powerful combination of rotational torque, thrust and pullback, climate-controlled cab, intuitive carve mode, and many other features requested specifically by Ditch Witch drill customers.

**WE'RE IN THIS TOGETHER.**

9 Onboard, enclosed 150-gpm (560-l/min) fluid pump for productive drilling at greater distances; flow rate can be adjusted simultaneously with thrust/pullback and rotation.

8 Dual-pivot drill frame allows steep entry angles without raising the tracks off the ground.

7 Easy to service, with all daily maintenance points in one location that is easily accessed through removable doors.

6 60,000 lb (267 kN) thrust and pullback and 9,000 ft•lb (12200 N•m) rotational torque—the powerful combination you need for outstanding productivity on big installation jobs.

5 Fully enclosed, climate-controlled cab with instrument panel gauges positioned for visibility, conveniently placed controls and an excellent view of the tool joint.



# JT60 ALL TERRAIN HORIZONTAL DRILL SPECIFICATIONS

	U.S.	METRIC
<b>OPERATION</b>		
Spindle speed, max	240 rpm	
Spindle speed (AT inner spindle), max	250 rpm	
Spindle torque, max	9,000 ft·lb	12200 N·m
Spindle torque (AT inner spindle), max	2,000 ft·lb	2700 N·m
Carriage thrust travel speed	100 fpm	30.5 m/min
Carriage pullback travel speed	100 fpm	30.5 m/min
Thrust force	60,000 lb	267 kN
Pullback force	60,000 lb	267 kN
Bore diameter	6.25 in	159 mm
Backreamer diameter	Soil dependent	
Ground travel speed		
Forward/reverse	2.5 mph	4 km/h

<b>POWER (TIER 3)</b>		
Engine	Cummins® QSB6.7	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	6	
Displacement	408 in <sup>3</sup>	6.7 L
Bore	4.21 in	107 mm
Stroke	4.88 in	124 mm
Manufacturer's gross power rating	200 hp	149 kW
Rated speed	2,200 rpm	
Emissions compliance	EPA Tier 3	EU Stage IIIA

<b>POWER (TIER 4i)</b>		
Engine	Cummins QSB6.7	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	6	
Displacement	408 in <sup>3</sup>	6.7 L
Bore	4.21 in	107 mm
Stroke	4.88 in	124 mm
Manufacturer's gross power rating	200 hp	149 kW
Rated speed	2,200 rpm	
Emissions compliance	EPA Tier 4i	EU Stage IIIB

<b>DIMENSIONS</b>		
Length	331 in	8.41 m
Width	87 in	2.21 m
Height	99 in	2.51 m
Operating weight	31,250 lb	14175 kg
Entry angle	10-16°	
Angle of approach	17°	
Angle of departure	13°	

	U.S.	METRIC
<b>DRILLING FLUID SYSTEM</b>		
Pressure, max	1,300 psi	90 bar
Flow, max	150 gpm	560 l/min

<b>FLUID CAPACITIES</b>		
Hydraulic reservoir	36 gal	136 L
Fuel tank	55 gal	208 L
Engine lubrication oil, w/filter	20 qt	19 L
Engine cooling system	31 qt	29 L
Antifreeze tank	16 gal	60 L

<b>POWER PIPE® HD</b>		
Length of drill pipe, nominal	180 in	4.57 m
Diameter of drill pipe, tool joint end	3.5 in	89 mm
Diameter of drill pipe	3.06 in	78 mm
Bend radius, min	170 ft	52 m
Weight of drill pipe, lined	184 lb	84 kg
Weight of drill pipe & large box (28 pipe)	6,096 lb	2765 kg
Weight of drill pipe & small box (16 pipe)	3,612 lb	1638 kg

<b>POWER PIPE FORGED</b>		
Length of drill pipe, nominal	180 in	4.57 m
Diameter of drill pipe, tool joint end	3.25 in	83 mm
Diameter of drill pipe	2.88 in	73 mm
Bend radius, min	169 ft	52 m
Weight of drill pipe	180 lb	82 kg
Weight of drill pipe & large box (28 pipe)	5,984 lb	2715 kg
Weight of drill pipe & small box (16 pipe)	3,548 lb	1610 kg

<b>ALL TERRAIN PIPE</b>		
Length of drill pipe, nominal	171 in	4.34 m
Diameter of drill pipe, tool joint end	4.13 in	105 mm
Diameter of drill pipe	3.63 in	92 mm
Bend radius, min	205 ft	62 m
Weight of drill pipe	264 lb	120 kg
Weight of drill pipe & large box (18 pipe)	5,580 lb	2530 kg
Weight of drill pipe & small box (9 pipe)	3,150 lb	1430 kg

<b>BATTERY (2 USED)</b>		
SAE reserve capacity rating	195 min	
SAE cold crank rating @ 0°F (-18°C)	950 amps	

<b>NOISE LEVEL</b>		
Operator sound pressure per ISO 6394	< or = 90 dBA	
Exterior sound power per ISO 6393	< or = 109 dBA	

<b>VIBRATION LEVEL</b>		
Average vibration transmitted to the operator's hand and whole body during normal operation does not exceed 2.5 and 0.5 m/sec <sup>2</sup> respectively.		

Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.