



# JT60

ALL TERRAIN HORIZONTAL DIRECTIONAL DRILL



Ditch Witch®

# JT60 ALL TERRAIN

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 conditions. 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.

Choice of a 200-gross-hp (149-kW) Tier 4 Cummins® or 190-gross-hp (142-kW) Tier 3 diesel engine; either engine provides the power to get the job done faster.

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

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

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

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

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

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

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.

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



# JT60 ALL TERRAIN HORIZONTAL DIRECTIONAL DRILL

## OPERATION

	U.S.	METRIC
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	6.5 in	165 mm
Backreamer diameter	Soil dependent	
Ground travel speed		
Forward/reverse	2.5 mph	4 km/h

## POWER (TIER 3)

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	190 hp	142 kW
Rated speed	2,200 rpm	
Emissions compliance	EPA Tier 3	EU Stage IIIA

## POWER (TIER 4)

Engine	Cummins QSB6.7	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	6	
Displacement	409 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 4	EU Stage IV

## DIMENSIONS

Length	331 in	8.41 m
Width	87 in	2.21 m
Height	101 in	2.57 m
Operating weight	31,080 lb	14098 kg
Entry angle	10-16°	
Angle of approach	18°	
Angle of departure	13°	

## DRILLING FLUID SYSTEM

	U.S.	METRIC
Pressure, max	1,300 psi	90 bar
Flow, max	150 gpm	560 l/min

## FLUID CAPACITIES

DEF tank	3.6 gal	13.6 L
Hydraulic reservoir	36 gal	136 L
Fuel tank	55 gal	208 L
Engine lubrication oil, w/filter	19 qt	18 L
Engine cooling system	31 qt	29 L
Antifreeze tank	16 gal	60 L

## POWER PIPE® HD (2.46-4)

Length of drill pipe	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	187 lb	85 kg
Weight of drill pipe & large box (28 pipe)	5,236 lb	2375 kg
Weight of drill pipe & small box (16 pipe)	2,992 lb	1357 kg

## ALL TERRAIN PIPE (3.25-4)

Length of drill pipe	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	62.5 m
Weight of drill pipe	268 lb	122 kg
Weight of drill pipe & large box (18 pipe)	4,824 lb	2187 kg
Weight of drill pipe & small box (9 pipe)	2,412 lb	1093 kg

## BATTERY (2 USED)

SAE reserve capacity rating	195 min
SAE cold crank rating @ 0°F (-18°C)	950 amps

## NOISE LEVEL

Operator sound pressure per ISO 6394	< or = 81 dBA
Exterior sound power per ISO 6393	< or = 106 dBA

## VIBRATION LEVEL

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.

