



# JT30 HORIZONTAL DIRECTIONAL DRILL



**TRENCHLESS**



# JT30 HORIZONTAL DIRECTIONAL DRILL

2 Exclusive dual-pivot drill frame allows steep entry angles without raising tracks off the ground.

3 160-gross-hp (119-kW), Tier 4 engine is the most powerful in its class; full power to all machine functions greatly enhances productivity. 148-gross-hp (110-kW) Tier 3 engine also available.

4 Field-proven, heavy-duty rack and pinion thrust drive; welded-on double rack offers minimum maintenance and maximum reliability.

6 Advanced electronic system features improved diagnostics and electronic functions, including a larger display and rugged, marine-grade switches.

5 Intuitive, easy-to-use carve mode simplifies operation and improves productivity.

1 Dual independent rear stabilizers are easy to set up and enhance stability on uneven or rough terrain.

The Ditch Witch® JT30 Horizontal Directional Drill is your total drill solution. It offers up to 35 more horsepower than the competition and is the quietest drill in its class—all as a direct result of listening to our customers. We took feedback from years of experience in all types of job conditions and incorporated it into an innovative, industry-leading design. You asked for it, and the JT30 delivers.

**WE'RE IN THIS TOGETHER.**

10 Easy access to all service points in the engine and mud pump.

8 Open-top vise wrenches are angled toward the drill operator for an excellent view of the tool joint when making up and breaking out pipe.

7 Heavy-duty stakedown system allows you to push or pull with full machine thrust and remain secure in virtually any drilling condition.

11 Narrower operational width than competitors' models, for greater maneuverability and productivity in tight spaces.

9 Exclusive assisted makeup and breakout feature saves wear on pipe threads and reduces operator fatigue.





# JT30 HORIZONTAL DIRECTIONAL DRILL SPECIFICATIONS

	U.S.	METRIC
<b>OPERATION</b>		
Spindle speed, max	225 rpm	
Spindle torque, max	4,000 ft-lb	5420 N-m
Carriage thrust travel speed	120 fpm	37 m/min
Carriage pullback travel speed	120 fpm	37 m/min
Thrust force	24,800 lb	110 kN
Pullback force	30,000 lb	133 kN
Ground travel speed		
Forward/reverse	2.4 mph	3.9 km/h

<b>POWER (TIER 3) (LRC)</b>		
Engine	Cummins® QSB4.5	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	4	
Displacement	275 in <sup>3</sup>	4.5 L
Bore	4.21 in	107 mm
Stroke	4.88 in	124 mm
Manufacturer's gross power rating	148 hp	110 kW
Rated speed	2,300 rpm	
Emissions compliance	EPA Tier 3	EU Stage IIIA

<b>POWER (TIER 4)</b>		
Engine	Cummins QSB4.5	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	4	
Displacement	275 in <sup>3</sup>	4.5 L
Bore	4.21 in	107 mm
Stroke	4.88 in	124 mm
Manufacturer's gross power rating	160 hp	119 kW
Rated speed	2,300 rpm	
Emissions compliance	EPA Tier 4	EU Stage IV

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.

	U.S.	METRIC
<b>DIMENSIONS</b>		
Transport length	221 in	5.61 m
Width	80 in	2.03 m
Width, w/cab	89 in	2.26 m
Transport height	94 in	2.39 m
Operating weight	17,080 lb	7747 kg
Operating weight, w/cab	17,975 lb	8153 kg
Entry angle	10-16°	
Angle of approach	19°	
Angle of approach, w/cab	15°	
Angle of departure	18°	

<b>DRILLING FLUID SYSTEM</b>		
Pressure, max	1,500 psi	103 bar
Flow, max	50 gpm	189 l/min

<b>FLUID CAPACITIES</b>		
Hydraulic reservoir	27 gal	102 L
Fuel tank	48 gal	182 L
Engine lubrication oil w/ filter	13.7 qt	13 L
Engine cooling system	24 qt	22.7 L
Antifreeze tank	8 gal	30 L
Diesel exhaust fluid tank	5 gal	18.9 L

<b>POWER PIPE® HD</b>		
Length	118 in	3 m
Joint diameter	2.75 in	70 mm
Pipe diameter	2.38 in	60 mm
Bend radius, min	123 ft	37.5 m
Weight of drill pipe, lined	88 lb	39 kg
Weight of drill pipe & large box (48 pipe)	5,204 lb	2361 kg
Weight of drill pipe & small box (24 pipe)	2,897 lb	1314 kg

<b>POWER PIPE FORGED</b>		
Length	120 in	3.05 m
Joint diameter	2.63 in	66.7 mm
Pipe diameter	2.38 in	60 mm
Bend radius, min	108.2 ft	33 m
Weight of drill pipe	73 lb	33 kg

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

<b>NOISE LEVEL</b>		
Operator sound	86 dBA	
Operator sound w/cab	83 dBA	

## THE DITCH WITCH® HDD SYSTEM INCLUDES:



### HDD TOOLING

For your directional drill, we offer a complete line of genuine Ditch Witch drill bits, HD backreamers, drill pipe, and beacon housings, the most reliable and durable in the horizontal directional drilling industry.

