



# JT100

HORIZONTAL DIRECTIONAL DRILL



®

Ditch Witch

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The Ditch Witch® JT100 horizontal directional drill delivers power where you need it most—downhole. Not only will you drill more efficiently, but you will work more efficiently with the ability to carry the optional onboard loader and anchoring system. With no extra equipment needed, the JT100 gives you the power to reduce the size of the jobsite.

Large-capacity, 230-gpm (870-1/min) fluid pump and 2-inch fluid course help move fluid downhole for greater productivity.

100,000 lb (445 kN) of pullback and 12,000 ft-lb (16300 N-m) of torque for installations of large-diameter pipe.

Hydraulic cooling system uses less fluid than the competition, reduces maintenance costs and keeps the engine operating efficiently.

260-hp (194-kW) engine efficiently delivers power to all drilling functions, so you can get the job done faster.

Infinitely variable rotary drive enables the JT100 to match spindle speed and torque to power through virtually any soil condition.

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

Optional onboard loader and exclusive anchor system eliminate the need for large, expensive support equipment, reducing costs, setup time and jobsite size.

Heavy-duty double rack-and-pinion thrust drive is field-proven to push-pull through long, tough bores.

Specialized Ditch Witch® manufactured drill pipe is designed to provide greater strength and flexibility.



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## OPERATION

	U.S.	METRIC
Spindle speed, max	210 rpm	
Spindle torque, max	12,000 ft-lb	16300 N-m
Carriage thrust travel speed	150 fpm	46 m/min
Carriage pullback travel speed	150 fpm	46 m/min
Thrust force	70,000 lb	311 kN
Pullback force	100,000 lb	445 kN
Ground travel speed		
Forward/reverse	3.6 mph	5.8 km/h

## POWER

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	260 hp	194 kW
Rated speed	2,200 rpm	

## DIMENSIONS

	U.S.	METRIC
Length	368 in	9.35 m
Width	101 in	2.57 m
Height	110 in	2.79 m
Operating mass	47,770 lb	21668 kg
Entry angle	10-15°	
Angle of departure	17°	

## DRILLING FLUID SYSTEM

Pressure, max	1,000 psi	69 bar
Flow, max	230 gpm	870 l/min

## FLUID CAPACITIES

Hydraulic reservoir	47 gal	180 L
Fuel tank	97 gal	370 L

## POWER PIPE® HD

Length of drill pipe	14.75 ft	4.5 m
Tool joint, outside diameter	4 in	102 mm
Tool joint, inside diameter	1.5 in	38.1 mm
Bend radius, min	205 ft	62.5 m
Weight of drill pipe	229 lb	104 kg
Weight of drill pipe, full box (12 pipe)	3,760 lb	1710 kg

## BATTERY (2 USED)

SAE reserve capacity rating	450 min	
SAE cold crank rating @ 0°F (-18°C)	1,400 amps	

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.

## THE DITCH WITCH® HDD SYSTEM INCLUDES:



### MUD MIXERS

Ditch Witch fluid-management systems include the innovative FM13X, a fluid-mixing system that features a pump that lubricates itself during mixing and works so efficiently that it delivers 20 percent more fluid than other models.



### HDD TOOLING

For your directional drill, we offer a complete line of genuine Ditch Witch HDD tooling, including drill bits, backreamers, drill pipe and beacon housings.

