

# JT25 HORIZONTAL DIRECTIONAL DRILL

 **Ditch Witch®**

**TRENCHLESS**





# JT25 HORIZONTAL DIRECTIONAL DRILL

Simple, durable and customer-driven design results in greater uptime.

1

All daily maintenance points in one easy-to-access location; no grease zerks.

2

130-hp (97-kW) Cummins diesel engine is the quietest and most fuel-efficient in its class.

3

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

8

Electric lift rear door provides easy access to mud pump and antifreeze tank, for easier servicing.

7

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

6

Low center of gravity helps make the JT25 the most stable drill we've ever built.

5

Coordinated make-up and break-out, along with sliding spindle design, helps minimize wear on drill pipe threads.





4

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

The Ditch Witch® JT25 horizontal directional drill features a two-speed thrust drive and an exclusive rotational drive with 4,000 ft-lb (5420 N-m) of torque and 27,000 pounds of thrust and pullback—a powerful package producing incredibly efficient utility backbone installs. Even with all of its power, the JT25 is the quietest and most stable midsize drill on the market. And its streamlined, low-maintenance design means more uptime with less upkeep. Simple, stable, durable, powerful, and ultra-reliable—the JT25 is your new workhorse.

**WE'RE IN THIS TOGETHER.**





# JT25 HORIZONTAL DIRECTIONAL DRILL

1

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

2

One-piece, single-sided rack-and-pinion is bolt-on and replaceable.

3

Simple, field-proven pipeloading system.

9

SaverLok™ System provides the tightest connection and best protection against wear and tear on the drill pipe and drive system; easy to install and replace, requiring no special tools.







4

Exclusive rotational drive motor with 4,000 ft-lb (5420 N-m) of torque.

5

27,000 lb (120 kN) of thrust and pullback provides the power to efficiently get the job done and move on to the next.

8

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

7

Dual rear independent stabilizers give you confidence to set up on uneven terrain.

6

Comes standard with a reliable, tethered remote ground drive controller that allows easier positioning for drilling, loading and unloading.





**WE CALL IT A DRILL.  
YOU CALL IT YOUR GO-TO MONEYLEMAKER.**



**A comfortable operator is a more productive operator, which is why we've equipped the JT25 horizontal directional drill operator station with a cutting-edge design. It features:**

- Choice of single-handled control or dual joysticks for easy control of thrust and rotation.
- Excellent view of the tool joint when making up and breaking out pipe; open-top vise wrenches are angled toward the operator.
- Exceptionally comfortable, new supportive seat design with high armrests.
- LCD display provides engine diagnostics and informational messages.
- Optional climate-controlled cab, for maximum comfort and productivity in any weather condition.

# JT25 HORIZONTAL DIRECTIONAL DRILL SPECIFICATIONS

	U.S.	METRIC
<b>OPERATION</b>		
Maximum spindle speed	220 rpm	
Spindle torque, max	4,000 ft-lb	5420 N-m
Carriage thrust travel speed	182 fpm	55 m/min
Carriage pullback travel speed	190 fpm	58 m/min
Thrust force	27,000 lb	12 kN
Pullback force	27,000 lb	12 kN
Ground travel speed (forward)	2.4 mph	3.9 km/h
Ground travel speed (reverse)	2.2 mph	3.5 km/h
Daily average fuel usage (per hour)	3.2 gal	12 L

<b>POWER</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	4.02 in	102 mm
Stroke	5.42 in	138 mm
Gross horsepower Tier 3/Tier 4	130 hp	97 kW
Net horsepower Tier 3/Tier 4	125 hp	93 kW
Rated speed Tier 3	2,500 rpm	
Rated speed Tier 4	2,500 rpm	
Peak gross power @ 2,400 rpm Tier 3/Tier 4	140 hp	104 kW
Emissions compliance Tier 3	EPA Tier 3, EU Stage IIIA	
Emissions compliance Tier 4	EPA Tier 4i, EU Stage IIIB	

## **DIMENSIONS (\*full rack, 50 pipe)**

Transport length	19 ft	5.79 m
Width	7.25 ft	2.21 m
Width (with cab)	7.25 ft	2.21 m
Transport height	7.75 ft	2.36 m
Transport height (with cab)	8 ft	2.42 m
Weight*	20,200 lb	9163 kg
Weight (with cab*)	20,800 lb	9435 kg
Ground clearance	5.7 in	145 mm
Drill rack entry angle, max	9-20°	
Drill rack entry angle (tracks on ground)	9-17°	

## **DRILLING FLUID SYSTEM (onboard)**

Maximum pressure	1,200 psi	83 bar
Maximum flow	50 gpm	189 l/min

	U.S.	METRIC
<b>FLUID CAPACITIES</b>		
Fuel tank	42 gal	159 L
Engine lubrication oil with filter	12 qt	11 L
Hydraulic reservoir	27 gal	102 L
Engine cooling system	23 qt	22 L
Drilling fluid for anitfreeze tank	8 gal	30 L

## **NOISE LEVELS**

Operator sound	85 dBA
Operator sound with cab	80 dBA
Battery (2 used)	
SAE reserve capacity rating	195 min
SAE cold crank rating @ 0°F (-18°F)	950 amps

## **POWER PIPE®**

Length	9 ft 8 in	3 m
Joint diameter	3 in	76 mm
Pipe diameter	2.38 in	60 mm
Min. bend radius	155 ft	47 m
Weight of drill pipe (lined)	90 lb	41 kg
Weight of drill pipe & large box (50 pipe)	5,200 lb	2358 kg
Weight of drill pipe & small box (25 pipe)	2,500 lb	1134 kg

## **SINGLE PIECE FORGED DRILL PIPE**

Length	10 ft	3 m
Joint diameter	2.61 in	66 mm
Pipe diameter	2.38 in	60 mm
Min. bend radius	108 ft	
Weight per drill pipe (forged)	76 lb	
Weight with drill pipe & large box (50 pipe)	4,553 lb	
Weight with drill pipe & small box (25 pipe)	2,452 lb	



## THE COMPLETE DITCH WITCH® HDD SYSTEM INCLUDES:



### HDD TOOLING

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



### ELECTRONICS

The Ditch Witch organization designs and manufactures its own tracking electronics, including the unbeatably accurate TK Series HDD Guidance System, which enables you to cut through noise and complete bores with an unprecedented level of confidence.



### MUD MIXERS

Ditch Witch fluid-management systems include the innovative FM13V, 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.



### VACUUM EXCAVATORS

Ditch Witch vacuum excavators are designed for a tremendous range of soft-excavation and cleanup tasks, including all manner of spills in and around the directional drilling jobsite. They're the most powerful, efficient and quiet vac systems on the market.

