

# DITCH WITCH® TRENCHLESS JT5 DIRECTIONAL DRILL



## KEY FEATURES

Innovative, heavy-duty anchor system keeps the JT5 secure during operation, reduces wear on pipe threads, and enables better alignment of pipe during makeup.

Compact and maneuverable JT5 fits through a 36-inch (910 mm) yard gate; at 120 in (3.1 m) long, it can be set up on the street with minimal traffic disruption.

Patented vise wrenches are designed to center the pipe better every time and provide an excellent view of the tool joint.

Specially designed drill pipe has a bend radius of up to 70 ft (21.3 m) and coarser, more durable threads so the pipe can level off at shallower depths.

Hood removes easily for access to engine and service points, simplifying maintenance.

Package deal: JT5 available with a trailer and fluid mixing system to simplify transport and operation.

Convenient, electrically operated lubrication system helps maximize the life of pipe joints and increase productivity.

Fuel tank access is protected with a steel plate block and lock, for added security.

Field-proven rack-and-pinion thrust drive for low maintenance and reliability.

Ergonomic operator station features a stationary seat, automatic fluid shutoff control, and easy visibility of the remote display.

 **Ditch Witch**<sup>®</sup>  
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# DITCH WITCH® TRENCHLESS

# JT5 DIRECTIONAL DRILL

## SPECIFICATIONS

### DIMENSIONS

	U.S.	METRIC
Overall machine length*	120 in	3.1 m
Overall machine width*	35.9 in	91.2 cm
Overall machine height*	70 in	1.78 m
Drilling unit operating mass*	3690 lb	1674 kg
Entry angle*	10° to 16°	
Angle of approach	18°	
Angle of departure	18°	

### UFE DRILL PIPE

Length of drill pipe*, nominal	59 in	1.5 m
Diameter of drill pipe, tool joint end*	1.88 in	47.8 mm
Diameter of drill pipe*	1.1 in	28 mm
Bend radius, min.	70 ft	21.3 m
Weight of drill pipe*	16 lb	7.25 kg

### OPERATION

Spindle speed, max.*	195 rpm	
Spindle torque, max.*	550 ft·lb	746 N·m
Carriage thrust travel speed*	130 fpm	40 m/min
Carriage pullback travel speed*	130 fpm	40 m/min
Thrust force*	4100 lb	18.2 kN
Pullback force*	5000 lb	22.2 kN
Bore diameter	2.5 in	63.5 mm
Backream diameter, soil dependent	4.5 in	114 mm
Ground travel speed*, forward	1.53 mph	2.46 km/h
Ground travel speed*, reverse	1.53 mph	2.46 km/h

### POWER

Engine	Kubota D1105	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Indirect	
Aspiration	Natural	
Number of cylinders	3	
Displacement	68.6 in <sup>3</sup>	1.12 L
Bore	3.07 in	78 mm
Stroke	3.09 in	78.5 mm
Manufacturer's gross power rating**	24.8 hp	18.5 kW
Rated speed	3000 rpm	

### DRILLING FLUID SYSTEM (ONBOARD)

Drilling fluid pressure, max.*	750 psi	51.7 bar
Drilling fluid flow, max.*	5 gpm	18.9 L/min

### FLUID CAPACITIES

Hydraulic reservoir	8 gal	30 L
Fuel tank	13 gal	49 L

### BATTERY

SAE reserve capacity rating	85 min	
SAE cold crank rating @ 0° F (-18° C)	525 amps	

\*Called out according to SAE J2022.

\*\*Called out according to SAE J1995.

