



JT20

DIRECTIONAL DRILL



Ditch Witch®

JT20

With the Ditch Witch® JT20 Horizontal Directional Drill, less is more. Much more. Its turbocharged 74-hp engine produces less noise for the operator—86 dBA, among the quietest in its class—while its slim yet durable profile allows you to take more jobs in more places.



JT20



Large-capacity, automatic
drill pipe lubrication system.



Add-a-pipe feature places individual
pipes into loading system without lifting
pipe into the top of the pipe box.

2

Coordinated makeup
feature increases the
life of drill pipe joints by
automatically matching
carriage speed with
rotation during pipe
makeup and breakout.

3

Delivers 17,000 lb
of thrust (75.6 kN)
and 20,000 lb (89
kN) of pullback force
for outstanding
performance.

4

6

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

5

Dual independent rear stabilizers
enhance stability on uneven or
rough terrain.



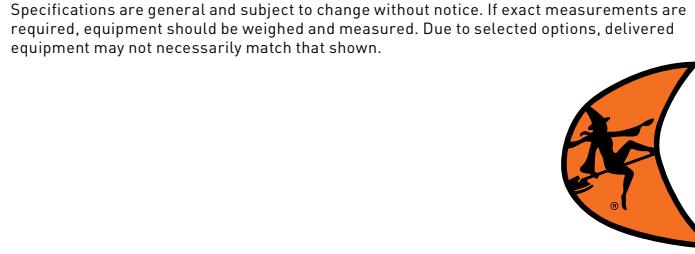
**WHEN YOU'RE
MORE COMFORTABLE,
YOU'RE MORE
PRODUCTIVE.**

THE JT20 HORIZONTAL DIRECTIONAL DRILL IS EXCEPTIONALLY PRODUCTIVE FOR MANY REASONS, INCLUDING THE ROOMY OPERATOR'S STATION WHERE YOU ARE IN TOTAL CONTROL. IT FEATURES:

- Simple, intuitive controls for all machine drilling functions.
- Ergonomic seat provides operator comfort, which results in greater productivity.
- Industry-best cruise control system simplifies drilling and backreaming by reducing operator effort.
- Comfortable operator's station provides excellent visibility of the drill pipe and pipeloading system; open-top vise wrenches are angled toward the operator for an excellent view of the tool joint.
- Color LCD display provides engine diagnostics and informational messages.

JT20 DIRECTIONAL DRILL

OPERATION	U.S.	METRIC	DIMENSIONS	U.S.	METRIC
Spindle speed, max	210 rpm		Length	207 in	5.26 m
Spindle torque, max	2,200 ft-lb	2980 N·m	Width	51.5 in	1.31 m
Carriage thrust travel speed	140 fpm	43 m/min	Height	90 in	2.29 m
Carriage thrust pullback travel speed	140 fpm	43 m/min	Weight w/pipe	11,890 lb	5390 kg
Thrust force	17,000 lb	75.6 kN	Entry angle	10-14°	
Pullback force	20,000 lb	89 kN	Angle of approach	18°	
Bore diameter	4 in	102 mm	Angle of departure	18°	
Ground travel speed			DRILLING FLUID SYSTEM (ONBOARD)		
Forward/reverse	3.2 mph	5.2 km/h	Pressure, max	1,000 psi	69 bar
POWER (TIER 4) (HRC)			Flow, max	35 gpm	132 L/min
Engine	Deutz® TD2.9L4		FLUID CAPACITIES		
Fuel	Diesel		Hydraulic reservoir	19 gal	72 L
Cooling medium	Liquid		Fuel tank	30 gal	114 L
Injection	Direct		Engine oil w/filter	8.5 qt	8 L
Aspiration	Turbocharged		Engine cooling system	4.6 gal	17 L
Number of cylinders	4		POWER PIPE® HD		
Displacement	177 in³	2.9 L	Length of drill pipe, nominal	120 in	3.05 m
Bore	3.62 in	92 mm	Diameter of drill pipe, tool joint end	2.63 in	66.8 mm
Stroke	4.33 in	110 mm	Diameter of drill pipe	2.06 in	52.3 mm
Manufacturer's gross power rating	74 hp	55 kW	Bend radius, min	107 ft	32 m
Rated speed	2,600 rpm		Weight of drill pipe, lined	67 lb	30.4 kg
Emissions compliance	EPA Tier 4	EU Stage IIIB	POWER PIPE FORGED HD		
POWER (TIER 4I) (LRC)			Length	120 in	3.05 m
Engine	Deutz TD2.9L4		Diameter of drill pipe, tool joint end	2.5 in	63.5 mm
Fuel	Diesel		Diameter of drill pipe	2.10 in	53.3 mm
Cooling medium	Liquid		Bend radius, min	109 ft	33.2 m
Injection	Direct		POWER PIPE FORGED HDX		
Aspiration	Turbocharged		Length	120 in	3.05 m
Number of cylinders	4		Diameter of tool joint	2.63 in	66.8 mm
Displacement	177 in³	2.9 L	Diameter of drill pipe	2.38 in	60.5 mm
Bore	3.62 in	92 mm	Bend radius, min	123 ft	37.5 m
Stroke	4.33 in	110 mm	BATTERY		
Manufacturer's gross power rating	74 hp	55 kW	SAE reserve capacity rating	195 min	
Rated speed	2,600 rpm		SAE cold crank rating @ 0°F (-18°C)	950 amps	
Emissions compliance	EPA Tier 4i	EU Stage IIIA	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:



HDD TOOLING

Get the most out of your directional drill with genuine Ditch Witch HDD tooling, from durable drill bits and backreamers, to drill pipe and beacon housings.

FLUID MANAGEMENT

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.

VACUUM EXCAVATORS

Featuring an innovative, low-profile design that doesn't sacrifice power or ground clearance, our hydro excavation line of vacs delivers unrivaled versatility and performance.

