



# JT20 HORIZONTAL DIRECTIONAL DRILL

Turbocharged, 74.5-hp (55.6-kW) Deutz diesel engine is Tier-4 compliant, requiring no expensive after-treatment; engine's Advanced cooling system diesel oxidation catalyst Compact JT20 has a high uses five fewer gallons replaces the muffler and ratio of power to size, of fluid than competitive decreases emissions. allowing you to install systems, for exceptional more utilities per day in **Industry-best cruise** efficiency, less cost and less tight, congested areas. control system environmental impact; our simplifies drilling system draws in ambient and backreaming. air, which results in a cooler-running package. Ditch Witch Drilling fluid system has greater capacity than those of competitors; high fluid flow enables longer utility installations and better performance in sandy soils. **Exceptionally efficient Sauer** Coordinated makeup feature H1 hydrostatic pumps control increases the life of drill rotation and thrust; design pipe joints by automatically enhancements include a

larger displacement pump and

simplified, two-speed hydraulic

thrust circuit for increased

reliability.

matching carriage speed with

rotation during pipe makeup

and breakout.



Auto-throttle feature saves fuel and reduces pollution by slowing the engine to idle after 15 seconds of inactivity; when you resume work, the auto-throttle engages.

With the Ditch Witch® JT20 horizontal directional drill, less is more. Much more. Its efficient, turbocharged engine produces less noise for the operator—87 dBA, among the quietest in its class—and because it's Tier-4 compliant, it requires no expensive after-treatment.

The JT20 has no grease zerks—the competition has 19—and all daily maintenance points are in one easy-access location, so you spend less time servicing it and more (billable) time serving your customers. And that's reason number one we created the streamlined, ultra-efficient JT20.

WE'RE IN THIS TOGETHER.

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

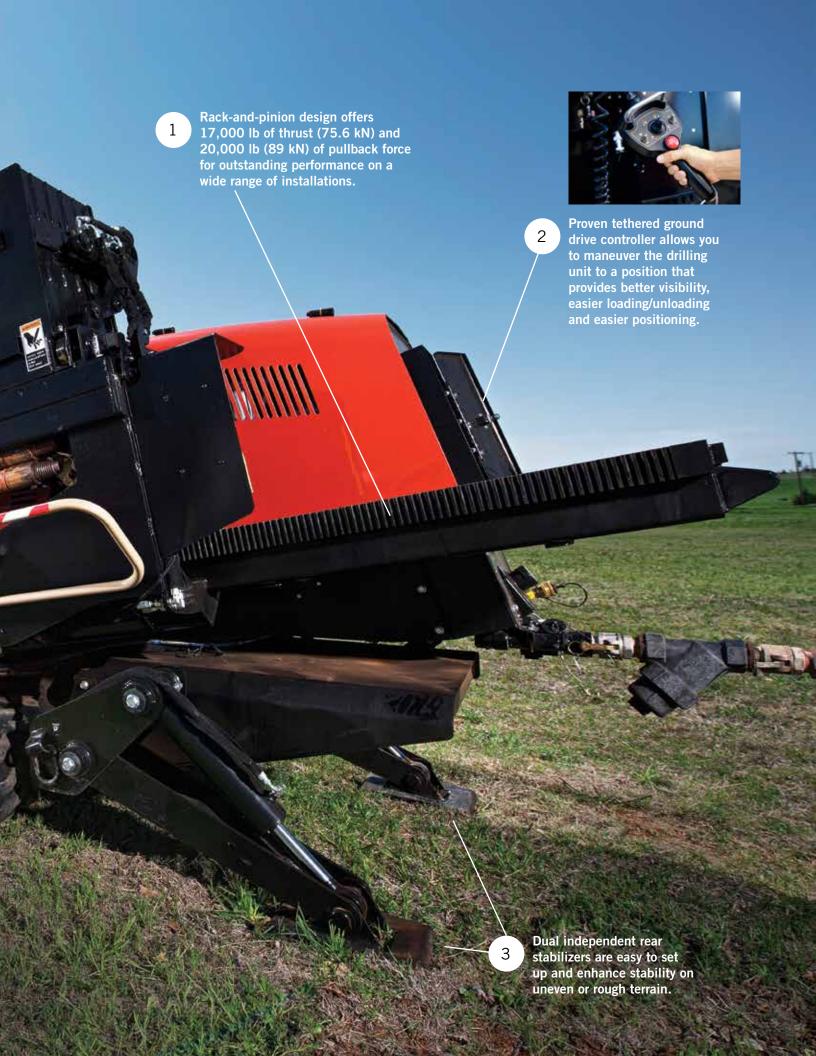
CAUTION DO NOT ENTER

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# JT20 HORIZONTAL DIRECTIONAL DRILL





# 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.
- Industry-best cruise control system simplifies drilling and backreaming by reducing operator effort.
- Color LCD display provides engine diagnostics and informational messages.
- Ergonomic seat provides operator comfort, which results in greater productivity.
- 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.



# JT20 HORIZONTAL DIRECTIONAL DRILL SPECIFICATIONS

	U.S.	METRIC
OPERATION		
Spindle speed, max	225 rpm	
Spindle torque, max	2,200 ft-lb	2980 N·m
Carriage thrust travel speed	140 fpm	43 m/min
Carriage thrust pullback travel speed	140 fpm	43 m/min
Thrust force	17,000 lb	75.6 kN
Pullback force	20,000 lb	89 kN
Bore diameter	4 in	102 mm
Ground travel speed		
Forward	3.2 mph	5.2 km/h
Reverse	3.2 mph	5.2 km/h
POWER		
Engine	Deutz TD2.9L4	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged	
Number of cylinders	4	
Displacement	177 in <sup>3</sup>	2.9 L
Bore	3.7 in	95 mm
Stroke	4.5 in	115 mm
Manufacturer's gross power rating	74 hp	55 kW
Rated speed	2,600 rpm	
Emissions compliance	EPA Tier 4	EU Stage IV

	U.S.	METRIC
DIMENSIONS		
Length	17.25 ft	5.26 m
Width	4.3 in	1.31 m
Height	7.6 ft	2.29 m
Weight with full rack	11,890 lb	5394 kg
Entry angle	10-14°	
Angle of approach	18°	
Angle of departure	18°	
DRILLING FLUID SYSTEM (ONBOARD)		
Pressure, max	1,500 psi	103 bar
Flow, max	32 gpm	120 I/min
FLUID CAPACITIES		
Hydraulic reservoir	19 gal	72 L
Fuel tank	30 gal	114 L
Engine oil with filter	8.5 gal	32 L
BATTERY		
SAE reserve capacity rating	195 min	
SAE cold crank rating @ 0°F (-18°C)	950 amps	
POWER PIPE®		
Length of drill pipe, nominal	120 in	3.05 m
Diameter of drill pipe, tool joint end	2.63 in	66.8 mm
Diameter of drill pipe	2.06 in	52.3 mm
Bend radius, min	135 ft	41 m
Weight of drill pipe, lined	67 lb	30.4 kg







## 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 JT20 is compatible with all Ditch Witch-designed and -manufactured 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.

