Ditch Witch®

JT20XP DRILL PACKAGE

TRENCHLESS

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WIRELESS COMMUNICATION

1 The XP drill and mixing system package features wireless communication up to 300 feet for operation outside of the units.

MORE PRODUCTIVITY

2 At 39 gpm, the JT20XP Package provides 11 percent more mud flow than competitive units.

INCREASED TORQUE

3 The JT20XP drill delivers 14 percent increased spindle torque for better performance in tough ground conditions.

AUTO-THROTTLE

4 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.

BOOSTED POWER

5 A 74.5-hp (55.6-kW) Tier 4 Deutz® diesel engine and extra 44-hp (32.8-kW) mixing system combine for a full 118-hp package.

MAXIMUM EFFICIENCY

6 A 10 percent increase in spindle speed over competitive units allows operators the ability to run downhole tooling at faster speeds for improved cutting.

OPERATOR'S STATION

7 A newly designed operator's station features an ergonomic seat, LCD display and superior visibility.

REMOTE GROUND DRIVE

8 Proven remote ground drive controller lets you select from single or dual stick ground drive for easier positioning and loading/unloading.

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For optimized power and productivity on utility installation jobs, the innovative Ditch Witch® XP directional drill solution features a 74.5-hp JT20XP drill and a dedicated 44-hp XP44 mixing system – a full 118-hp package. The full XP package is an industry-first solution as the only drilling system in its class to utilize all on-board horsepower for thrust and rotation. The JT20XP utilizes a 39gpm off-board pump to maximize the drill's potential in a small footprint. The drill provides improved spindle torque and speed over competitive units, providing operators superior power and productivity on larger jobs, in a smaller package. The full XP package offers contractors an all-diesel jobsite and requires no DEF, simplifying service and maintenance.

WE'RE IN THIS TOGETHER.

XP44 MIXING SYSTEM SPECIFICATIONS

DIMENSIONS	U.S.	METRIC
Power pack/pumps		
Length	76.8 in	1.95 m
Width	24 in	609.6 mm
Height	43.2 in	1.1 m
Mixing station		
Length	28.4 in	721.4 mm
Width	17.4 in	442 mm
Height	33.5 in	851 mm
500-gal tank		
Length	93.7 in	2.38 m
Width	31 in	787 mm
Height	75 in	1.9 m
950-gal tank		
Length	124.5 in	3.16 m
Width	42 in	1.07 m
Height	80 in	2.03 m
Weights		
Power pack/pumps, dry	1,615 lb	733 kg
Power pack/pumps, full	1,805 lb	819 kg
Mixing station	450 lb	205 kg
500-gal tank, w/hoses, empty	550 lb	250 kg
System weight, w/500-gal fluid	5,160 lb	2341 kg
950-gal tank, w/hoses, empty	1,000 lb	454 kg
System weight, w/950-gal fluid	8,933 lb	4052 kg
PERFORMANCE		
Centrifugal pump suction port diameter	3 in	76 mm
Centrifugal pump discharge port diameter	2 in	51 mm
Fluid pressure, max	50 psi	3.4 bar
Flow rate, max	0-39 gpm	0-147 l/min
Pressure, max	1,000 psi	69 bar
Dry mixing hopper capacity	1 ft³	28 L
Typical tank mixing time	7-10 min	
POWER		
Engine	Yanmar® 3TNV86CT	
Number of cylinders	3	
Displacement	95.8 in³	1.57 L
Bore	3.39 in	86 mm
Stroke	3.54 in	90 mm
Gross power rating (SAE J1955)	43.5 hp	32.4 kW
Engine speed	3,000 rpm	

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.

JT20XP HORIZONTAL DIRECTIONAL DRILL SPECIFICATIONS

	U.S.	METRIC
OPERATION		
Spindle speed, max	240 rpm	
Spindle torque, max	2,500 ft·lb	3390 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/reverse	3.2 mph	5.2 km/h
POWER (TIER 4) (HRC)		
Engine	Deutz® TD2.9L4	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged	
Number of cylinders	4	
Displacement	177 in³	2.9 L
Bore	3.62 in	92 mm
Stroke	4.33 in	110 mm
Manufacturer's gross power rating	74.5 hp	55.6 kW
Rated speed	2,600 rpm	
Emissions compliance	EPA Tier 4	EU Stage IIIB
POWER (TIER 4i) (LRC)		
Engine	Deutz TD2.9L4	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged	
Number of cylinders	4	
Displacement	177 in³	2.9 L
Bore	3.62 in	92 mm
Stroke	4.33 in	110 mm
Manufacturer's gross power rating	74.5 hp	55.6 kW
Rated speed	2,600 rpm	
Emissions compliance	EPA Tier 4i	EU Stage IIIA

DIMENSIONS	U.S.	METRIC
Length	207 in	5.26 m
Width	51.5 in	1.31 m
Height	90 in	2.29 m
Weight w/pipe	11,890 lb	5390 kg
Entry angle	10-14°	
Angle of approach	18°	
Angle of departure	18°	
DRILLING FLUID SYSTEM (OFFBOARD)		
Pressure, max	1,000 psi	69 bar
Flow, max	39 gpm	148 l/min
FLUID CAPACITIES		
Hydraulic reservoir	19 gal	72 L
Fuel tank	30 gal	114 L
Engine oil w/filter	8.5 qt	8 L
Engine cooling system	4.6 gal	17 L
POWER PIPE® HD		
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	107 ft	32 m
Weight of drill pipe, fluid miser 2	67 lb	30.4 kg
DITCH WITCH® FORGED HD PIPE		
Length of drill pipe, nominal	120 in	3.05 m
Diameter of drill pipe, tool joint end	2.5 in	63.5 mm
Diameter of drill pipe	2.1 in	53.3 mm
Bend radius, min	109 ft	33.2 m
Weight of drill pipe, fluid miser 2	64 lb	29.03 kg
BATTERY		
SAE reserve capacity rating	195 min	
SAE cold crank rating @ 0°F (-18°C)	950 amps	

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THE 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, the most reliable and durable in the horizontal directional drilling industry.

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.

Ditch Witch®
ditchwitch.com

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