

anningan

HORIZONTAL DIRECTIONAL DRILL

80 GB

Ditch Witch

With 21,000 lbs of pullback, 20,000 lbs of thrust and 2,250 ft·lbs of rotational torque, the JT21 is the most powerful drill in its class.

The 74-HP Deutz[®] engine ensures consistent performance even in difficult ground.

A larger displacement pump, generating 35 gpm and running at a lower RPM, increases the life of the pump and wearables.

An advanced telematics system provides data on machine performance so you have the insights you need to make quick decisions, resulting in better jobsite management and ROI.

Ditch Witch^{*}



Multimode joystick controls let you choose a preferred operating style, and integrated LCD screens allow for better visibility into functions and diagnostics, giving you more control.

Virtually Assisted Makeup and Breakout (VAM) removes the need for floats and sensors, increasing thread life by ensuring greater tooling longevity.

> A new design and lower center of gravity and increases stability.

With a 215-fpm carriage speed—35% faster than any drill in its class—and up to 40% more downhole horsepower than its predecessor, the JT21 has the speed and the power you need to get the job done, keeping you ahead of schedule and ready for whatever comes next.

Improved hydraulic efficiencies and a direct-drive motor deliver more downhole horsepower.

An automatic grease bellows system is mess-free, allowing for more efficient use of grease.

JT21HORIZONTAL DIRECTIONAL DRILL

OPERATION	U.S.	METRIC
Spindle speed, max	270 rpm	
Spindle torque, max	2,250 ft·lb	3050 N∙m
Carriage thrust travel speed	215 fpm	65.5 m/min
Carriage pullback travel speed	215 fpm	65.5 m/min
Thrust force	20,000 lb	89 kN
Pullback force	21,000 lb	93.4 kN
Bore diameter	4 in	102 mm
Backreamer diameter	Soil dependent	
Ground travel speed		
Forward/reverse	2.9 mph	4.7 km/h
POWER		
Engine	Deutz®TD2.9	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged	
Aspiration Number of cylinders	Turbocharged 4	
	3	2.9 L
Number of cylinders	4	2.9 L 92 mm
Number of cylinders Displacement	4 177 in ³	
Number of cylinders Displacement Bore	4 177 in ³ 3.62 in	92 mm
Number of cylinders Displacement Bore Stroke	4 177 in ³ 3.62 in 4.33 in	92 mm 110 mm
Number of cylinders Displacement Bore Stroke Manufacturer's gross power rating	4 177 in ³ 3.62 in 4.33 in 74 hp	92 mm 110 mm
Number of cylinders Displacement Bore Stroke Manufacturer's gross power rating Rated speed	4 177 in ³ 3.62 in 4.33 in 74 hp 2,600 rpm	92 mm 110 mm 55 kW
Number of cylinders Displacement Bore Stroke Manufacturer's gross power rating Rated speed Emissions compliance, highly regulated	4 177 in ³ 3.62 in 4.33 in 74 hp 2,600 rpm EPA Tier 4	92 mm 110 mm 55 kW EU Stage V
Number of cylinders Displacement Bore Stroke Manufacturer's gross power rating Rated speed Emissions compliance, highly regulated Emissions compliance, less regulated	4 177 in ³ 3.62 in 4.33 in 74 hp 2,600 rpm EPA Tier 4	92 mm 110 mm 55 kW EU Stage V
 Number of cylinders Displacement Bore Stroke Manufacturer's gross power rating Rated speed Emissions compliance, highly regulated Emissions compliance, less regulated 	4 177 in ³ 3.62 in 4.33 in 74 hp 2,600 rpm EPA Tier 4 EPA Tier 4i	92 mm 110 mm 55 kW EU Stage V EU Stage IIIA
 Number of cylinders Displacement Bore Stroke Manufacturer's gross power rating Rated speed Emissions compliance, highly regulated Emissions compliance, less regulated Length 	4 177 in ³ 3.62 in 4.33 in 74 hp 2,600 rpm EPA Tier 4 EPA Tier 4 EPA Tier 4 217.9 in	92 mm 110 mm 55 kW EU Stage V EU Stage IIIA 5.53 m
 Number of cylinders Displacement Bore Stroke Manufacturer's gross power rating Rated speed Emissions compliance, highly regulated Emissions compliance, less regulated DIMENSIONS Length Width	4 177 in ³ 3.62 in 4.33 in 74 hp 2,600 rpm EPA Tier 4 EPA Tier 4 217.9 in 55.5 in	92 mm 110 mm 55 kW EU Stage V EU Stage IIIA 5.53 m 1.41 m
 Number of cylinders Displacement Bore Stroke Manufacturer's gross power rating Rated speed Emissions compliance, highly regulated Emissions compliance, less regulated DIMENSIONS Length Width Height	4 177 in ³ 3.62 in 4.33 in 74 hp 2,600 rpm EPA Tier 4 EPA Tier 4 EPA Tier 4 217.9 in 55.5 in 95.5 in	92 mm 110 mm 55 kW EU Stage V EU Stage IIIA 5.53 m 1.41 m 2.43 m
 Number of cylinders Displacement Bore Stroke Manufacturer's gross power rating Rated speed Emissions compliance, highly regulated Emissions compliance, less regulated DIMENSIONS Length Width Height Operating weight	4 177 in ³ 3.62 in 4.33 in 74 hp 2,600 rpm EPA Tier 4 EPA Tier 4 EPA Tier 4i 217.9 in 55.5 in 95.5 in 12,420 lb	92 mm 110 mm 55 kW EU Stage V EU Stage IIIA 5.53 m 1.41 m 2.43 m

DRILLING FLUID SYSTEM	U.S.	METRIC
Pressure, max	1,000 psi	69 bar
Flow, max	35 gpm	132 l/min
FLUID CAPACITIES		
Hydraulic reservoir	16.4 gal	62.1 L
Fuel tank	28.2 gal	106.7 L
Engine lubrication oil, w/filter	9.5 qt	9 L
Cooling system	5 gal	18.9 L
POWER PIPE®		
Length of drill pipe	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, lined	67 lb	30.4 kg
BATTERY (2 USED)		
SAE reserve capacity rating	195 min	
SAE cold crank rating @ 0°F (-18°C)	950 amps	
NOISE LEVEL		
Operator sound pressure per ISO 6394	< or = 82 dBA	
VIBRATION LEVEL		
Average vibration transmitted to the operator's hand and whole body during por-		

Average vibration transmitted to the operator's hand and whole body during normal operation does not exceed 2.5 and 0.5 m/sec^2 respectively.

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.

