JT60

HORIZONTAL DIRECTIONAL DRILL



Ditch Witch®

JT60

Equipped with proven features like intuitive controls, power and a rugged, reliable undercarriage, the JT60 Horizontal Directional Drill still works like it has a chip on its shoulder. With an 80 percent increase over its predecessor and 60,000 lb (267 kN) of thrust and pullback, the JT60 delivers the powerful combination you need to get more done.

1 Onboard, enclosed 150-gpm (560-l/min) fluid pump for productive drilling at greater distances; flow rate can be adjusted simultaneously with thrust/pullback and rotation.

2 Choice of a 190-gross-hp (142-kW) Tier 3 or 200-gross-hp (149-kW) Tier 4 Cummins® diesel engine.

3 Double rack-and-pinion thrust drive is field-proven and designed to push/pull through the long, tough bores.

4 Two-speed thrust drive motors provide exceptional low-speed drilling control as well as the high speeds necessary for rapidly loading drill pipe.

5 Operator's station features an intuitive joystick control, ergonomic seat, color LCD engine display, and an excellent view of all drill functions.

6 Simple, intuitive carve mode reduces operator fatigue.

7 60,000 lb (267 kN) thrust and pullback and 9,000 ft·lb (12240 N·m) rotational torque for greater productivity.

8 Easy to service, with all daily maintenance points in one location that is easily accessed through removable doors.

JT60 HORIZONTAL DIRECTIONAL DRILL

OPERATION	U.S.	METRIC
Spindle speed, max	240 rpm	
Spindle torque, max	9,000 ft·lb	12240 N·m
Carriage thrust travel speed	100 fpm	30.5 m/min
Carriage pullback travel speed	100 fpm	30.5 m/min
Thrust force	60,000 lb	267 kN
Pullback force	60,000 lb	267 kN
Bore diameter	5 in	127 mm
Backreamer diameter	Soil dependent	
Ground travel speed		
Forward/reverse	2.5 mph	4 km/h

POWER (TIER 3)

Engine	Cummins® QSB6.7	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	6	
Displacement	409 in³	6.7 L
Bore	4.21 in	107 mm
Stroke	4.88 in	124 mm
Manufacturer's gross power rating	190 hp	142 kW
Rated speed	2,200 rpm	
Emissions compliance	EPA Tier 3	EU Stage IIIA

POWER (TIER 4)

Engine	Cummins® QSB6.7	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	6	
Displacement	409 in³	6.7 L
Bore	4.21 in	107 mm
Stroke	4.88 in	124 mm
Manufacturer's gross power rating	200 hp	149 kW
Rated speed	2,200 rpm	
Emissions compliance	EPA Tier 4	EU Stage IV

DIMENSIONS	U.S.	METRIC
Length	331 in	8.41 m
Width	87 in	2.21 m
Height	101 in	2.57 m
Operating weight	31,080 lb	14098 kg
Entry angle	10-16°	
Angle of approach	18°	
Angle of departure	13°	

DRILLING FLUID SYSTEM

Pressure, max	1,300 psi	90 bar
Flow, max	150 gpm	560 l/min

FLUID CAPACITIES

Hydraulic reservoir	36 gal	136 L
Fuel tank	55 gal	208 L
Engine lubrication oil, w/filter	19 qt	18 L
Engine cooling system	31 qt	29 L
Antifreeze tank	16 gal	60 L

POWER PIPE® HD

Length of drill pipe, nominal	180 in	4.57 m
Diameter of drill pipe, tool joint end	3.5 in	89 mm
Diameter of drill pipe	3.06 in	78 mm
Bend radius, min	170 ft	52 m
Weight of drill pipe, lined	184 lb	84 kg
Weight of drill pipe, large box (28 pipe)	6,096 lb	2765 kg
Weight of drill pipe, small box (16 pipe)	3,612 lb	1638 kg

BATTERY (2 USED)

SAE reserve capacity rating	195 min
SAE cold crank rating @ 0°F (-18°C)	950 amps

NOISE LEVEL

Operator sound power per ISO 6394	< or = 81 dBA
Exterior sound pressure per ISO 6393	< or = 106 dBA

VIBRATION LEVEL

Average vibration transmitted to the operator's hand and whole body during normal operation does not exceed 2.5 and 0.5 m/sec² 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.

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