







JT40 HORIZONTAL DRILL

OPERATION	U.S.	METRIC	POWER PIPE® HD
Spindle speed, max	225 rpm		Length of dril pipe, nominal
Spindle torque, max	5,500 ft·lb	7460 N·m	Diameter of drill pipe, tool joint er
Carriage thrust travel speed	180 fpm	55 m/min	Diameter of drill pipe
Carriage pullback travel speed	180 fpm	55 m/min	Bend radius, min
Thrust force	40,000 lb	178 kN	Weight of drill pipe, lined
Pullback force	40,000 lb	178 kN	Weight of drill pipe and large box (40 pipe)
Backreamer diameter	Soil dependent		Weight of drill pipe and small box
Ground travel speed			(20 pipe)
Forward/reverse	3 mph	4.8 km/h	POWER PIPE FORGED HD
POWER			Length
Engine	Cummins® QSB4	4.5	Diameter of tool joint
Fuel	Diesel		Diameter of drill pipe
Manufacturer's gross power rating	165 hp	123 kW	Bend radius, min
Emissions compliance	EPA Tier 4	EU Stage V	Weight of drill pipe
Cooling medium	Liquid		Weight of drill pipe and large box
Injection	Direct		(40 pipe)
Aspiration	Turbocharged & charge air coole	d	Weight of drill pipe and small box (20 pipe)
Number of cylinders	4		POWER PIPE FORGED HDX
Displacement	275 in³	4.5 L	Length
Bore	4.21 in	107 mm	Diameter of tool joint
Stroke	4.88 in	124 mm	Diameter of drill pipe
Rated speed	2,200 rpm		Bend radius, min
DIMENSIONS			Weight of drill pipe
Length	290 in	7.37 m	Weight of drill pipe and large box
Width, w/open station	89 in	2.26 m	(40 pipe)
Width, w/cab, extended max	108 in	2.74 m	Weight of drill pipe and small box (20 pipe)
Height, w/cab, mobiling	97 in	2.46 m	BATTERY (2 USED)
Operating mass, no pipe, no cab	20,500 lb	9300 kg	SAE reserve capacity rating
Entry angle	20-29°		SAE reserve capacity rating SAE cold crank rating @ 0°F (-18°)
Angle of approach	17°		NOISE LEVEL
Angle of departure	17°		Operator sound pressure per ISO
ORILLING FLUID SYSTEM (7	70 GPM OPTIO	N)	6396
Pressure, max	1,000 psi	69 bar	Operator sound pressure per ISO
Flow, max	70 gpm	265 l/min	6396, w/cab
DRILLING FLUID SYSTEM (1	20 GPM OPTIC	N)	Exterior sound power per ISO 639
Pressure, max	1,000 psi	69 bar	
Flow, max	120 gpm	454 l/min	
WEIGHT CONFIGURATION			
Cab option	690 lb	310 kg	
120 gpm fluid pump option	370 lb	168 kg	
FLUID CAPACITIES			
Hydraulic reservoir	17 gal	64 L	
Fuel tank	56 gal	212 L	
Engine lubrication oil, w/filter	14 qt	13.2 L	
Engine cooling system	25.6 qt	24.2 L	
Antifreeze tank	8 gal	30 L	
Diesel exhaust fluid tank	8.6 gal	32.6 L	
	3		

POWER PIPE® HD	U.S.	METRIC
Length of dril pipe, nominal	180 in	4.57 m
Diameter of drill pipe, tool joint end	3.13 in	80 mm
Diameter of drill pipe	2.81 in	71 mm
Bend radius, min	146 ft	45 m
Weight of drill pipe, lined	150 lb	68 kg
Weight of drill pipe and large box (40 pipe)	7,140 lb	3240 kg
Weight of drill pipe and small box (20 pipe)	3,797 lb	1720 kg
POWER PIPE FORGED HD		
Length	180 in	4.57 m
Diameter of tool joint	3.13 in	80 mm
Diameter of drill pipe	2.75 in	70 mm
Bend radius, min	143 ft	43.6 m
Weight of drill pipe	145 lb	66 kg
Weight of drill pipe and large box (40 pipe)	6,940 lb	3148 kg
Weight of drill pipe and small box (20 pipe)	3,697 lb	1677 kg
POWER PIPE FORGED HDX		
Length	180 in	4.57 m
Diameter of tool joint	3.13 in	80 mm
Diameter of drill pipe	2.75 in	70 mm
Bend radius, min	143 ft	43.6 m
Weight of drill pipe	145 lb	66 kg
Weight of drill pipe and large box (40 pipe)	6,940 lb	3148 kg
Weight of drill pipe and small box (20 pipe)	3,697 lb	1677 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 6396	< or = 85 dBA	
Operator sound pressure per ISO 6396, w/cab	< or = 73 dBA	
Exterior sound power per ISO 6395	< or = 103 dBA	

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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