







## JT40 DIRECTIONAL DRILL

OPERATION	U.S.	METRIC	DRILLING FLUID SYSTEM (11	IO GPM OPTION	N)
Spindle speed, max	225 rpm		Pressure, max	800 psi	55 bar
Spindle torque, max	5,500 ft·lb	7460 N·m	Flow, max	110 gpm	416 l/min
Carriage thrust travel speed	180 fpm	55 m/min	FLUID CAPACITIES	9p	
Carriage pullback travel speed	180 fpm	55 m/min	Hydraulic reservoir	17 gal	64 L
Thrust force	40,000 lb	178 kN	Fuel tank	3	212 L
Pullback force	40,000 lb	178 kN	Engine lubrication oil, w/filter	56 gal 14 qt	13.2 L
Backreamer diameter	Soil dependent		Engine cooling system	24 qt	22.7 L
Ground travel speed	The state of the s		Antifreeze tank		30 L
Forward/reverse	3 mph	4.8 km/h	Diesel exhaust fluid tank	8 gal	13.6 L
OWER (TIER 4)		,	POWER PIPE® HD	3.6 gal	13.0 L
Engine	Cummins® QSB4.5			100:-	/ 57
Fuel	Diesel		Length of dril pipe, nominal	180 in	4.57 m
Cooling medium	Liquid		Diameter of drill pipe, tool joint end	3.13 in	80 mm
Injection	Direct		Diameter of drill pipe	2.81 in	71 mm
Injection			Bend radius, min	146 ft	45 m
Aspiration	Turbocharged & charge air cooled		Weight of drill pipe, lined	150 lb	68 kg
Number of cylinders	4		Weight of drill pipe and large box (40 pipe)	7,140 lb	3240 kg
Displacement	275 in³	4.5 L	Weight of drill pipe and small box	0.505	4
Bore	4.21 in	107 mm	(20 pipe)	3,797 lb	1720 kg
Stroke	4.88 in	124 mm	POWER PIPE FORGED HD		
Manufacturer's gross power rating	160 hp	119 kW	Length	180 in	4.57 m
Rated speed	2,300 rpm		Diameter of tool joint	3.13 in	80 mm
Emissions compliance	EPA Tier 4	EU Stage IV	Diameter of drill pipe	2.75 in	70 mm
OWER (TIER 3, LRC)			Bend radius, min	143 ft	43.6 m
Engine	Cummins QSB4.5		Weight of drill pipe	144 lb	65 kg
Fuel	Diesel		Weight of drill pipe and large box		
Cooling medium	Liquid		(40 pipe)	6,940 lb	3148 kg
Injection	Direct		Weight of drill pipe and small box	3,697 lb	1677 kg
•	Turbocharged &		(20 pipe)	,	, 3
Aspiration	charge air cooled		POWER PIPE FORGED HDX		
Number of cylinders	4		Length	180 in	4.57 m
Displacement	275 in³	4.5 L	Diameter of tool joint	3.13 in	80 mm
Bore	4.21 in	107 mm	Diameter of drill pipe	2.75 in	70 mm
Stroke	4.88 in	124 mm	Bend radius, min	143 ft	43.6 m
Manufacturer's gross power rating	148 hp	110 kW	Weight of drill pipe	144 lb	65 kg
Rated speed	2,300 rpm		Weight of drill pipe and large box (40 pipe)	6,940 lb	3148 kg
Emissions compliance	EPA Tier 3	Stage IIIA	Weight of drill pipe and small box		
IMENSIONS			(20 pipe)	3,697 lb	1677 kg
Length	290 in	7.37 m	BATTERY (2 USED)		
Width, w/open station	89 in	2.26 m	SAE reserve capacity rating	195 min	
Width, w/cab	93 in	2.36 m	SAE cold crank rating @ 0°F (-18°C)	950 amps	
Height	97 in	2.46 m	NOISE LEVEL		
Operating mass, no pipe, no cab	20,500 lb	9300 kg			
Entry angle	20-29%		Operator sound pressure per ISO 6396	< or = 85 dBA	
Angle of approach	17°		Operator sound pressure per ISO	70 15 4	
Angle of departure	17°		6396, w/cab	< or = 73 dBA	
VEIGHT CONFIGURATION	U.S.	METRIC	Exterior sound power per ISO 6395	< or = 103 dBA	
Cab option	690 lb	310 kg			
Standard anchor option	750 lb	340 kg	Specifications are general and subject to chang		
HD anchor option	1,290 lb	590 kg	If exact measurements are required, equipmen and measured. Due to selected options, deliver		
110 gpm fluid pump option	320 lb	145 kg	necessarily match that shown.	•	
gpin read parity option	1/511	. 40 Ng			



Pressure, max

Flow, max

Deduct Tier 3 engine option

**DRILLING FLUID SYSTEM** 

165 lb

U.S.

1,000 psi

70 gpm

70 kg

69 bar

265 l/min

**METRIC**