

SPECIFICATIONS, JT100 MACH 1

DIMENSIONS	U.S.	METRIC
Overall machine length*	368 in	9.35 m
Overall machine width*	101 in	2.57 m
Overall machine height*	110 in	2.79 m
Drilling unit operating mass*	45,300 lb	20 500 kg
Entry angle*: 10 to 15°		
Angle of approach: 13°		
Angle of departure: 17°		
POWER PIPE	U.S.	METRIC
Length of drill pipe, nominal*	177 in	4.5 m
Diameter of drill pipe, tool joint end*	4 in	102 mm
Diameter of drill pipe*	3.62 in	92 mm
Bend radius, minimum	230 ft	70 m
Weight of drill pipe*	229 lb	104 kg
Weight of drill pipe & box(12 pipe)	3760 lb	1710 kg
		in to kg
OPERATION	U.S.	METRIC
Spindle speed, maximum*: 210 rpm		
Spindle torque, maximum*	12,000 ft·lb	16 300 N⋅m
Carriage thrust travel speed*	150 fpm	46 m/min
Carriage pullback travel speed*	150 fpm	46 m/min
Thrust force*	70,000 lb	311 kN
Pullback force*	100,000 lb	445 kN
Bore diameter	6 in	152 mm
Backream diameter: Soil dependent		
Ground travel speed, forward*	3.6 mph	5.8 km/h
Ground travel speed, reverse*	3.6 mph	5.8 km/h
POWER	U.S.	METRIC
Engine: Deutz TCD2013L06-2V		_
Fuel: Diesel		
Cooling medium: Liquid		
Injection: Direct		
Aspiration: Turbocharged & charge air cooled		
Number of cylinders: 6		
Displacement	436 in ³	7.15 L
Bore	4.25 in	108 mm
Stroke	5.1 in	130 mm
Manufacturer's gross power rating**	268 hp	200 kW
Rated speed: 2300 rpm	·	
Emissions compliance	EPA Tier 3	EU Stage Illa
DRILLING FLUID SYSTEM (ONBOARD)	U.S.	METRIC
Drilling fluid pressure, maximum*	0.3. 1000 psi	69 bar
Drilling fluid flow, maximum*	230 gpm	870 L/min
	250 gpm	
FLUID CAPACITIES	U.S.	METRIC
Hydraulic reservoir	47 gal	180 L
Fuel tank	97 gal	370 L

BATTERY (2 USED)

SAE reserve capacity rating: 450 min SAE cold crank rating @ 0° F (-18° C): 1400 amps

Specification are general and subject to change without notice. If measurements are required, equipment should be wrighed and measured. Due to selected options, delivered equipment may not necessarily match that shown. Contains patented features. *Called out according to SAE J2022. **Called out according to SAE J1995.

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