

SPECIFICATIONS, JT30 MACH 1

DIMENSIONS	U.S.	METRIC
Overall Machine Length (Driving)*	220 in	5.59 m
Overall Machine length (transport)	221 in	5.61 m
Overall machine Width*	80 in	2.03 m
Overall Machine Width (with cab)*	89 in	2.26 m
Overall Machine Width (with cab) support removed	88 in 119 in	2.23 m 3.02 m
Overall Machine Height (driving)*	94 in	2.39 m
Overall Machine Height (transport)* JT/AT large box	92 in	2.34 m
Overall Machine Height (transport)* JT/AT small box	U.S. 17,075 lb	METRIC 7750 kg

WEIGH CONFIGURATIONS

JT Drilling unit operating mass* (T4i base unit, no pipe)

Note: base unit weights are with anchors and all fluids at 100 percent.

Add JT drill pipe (full box and 2 pipe in drill frame)	5,680 lb 5,690 lb	2580 kg 2580 kg
Add cobble drill pipe (full box and 2 pipe in drill frame)	900 lb 105 lb	410 kg 50 kg
Add cab option (heat and air)	11.6 psi	0.82 kg/cm ²
Deduct tier 3 engine option	5.7 in	144 mm
Ground Bearing Pressure (JT, pipe, T4i, w/ cab) ****		
Ground Clearance ****		
Entry Angle: 10-16° *		
Angle of approach: 19°		
Angle of approach (w/ Cab): 15°	U.S.	METRIC
Angle of departure: 18°	118 in	3 m

POWER PIPE

Length of drill pipe* nominal	2.38 in	60 mm
Diameter of drill pipe tool joint end*	155 ft	47 m
Diameter of drill pipe *	90 lb	41 kg
Min. bend radius *	5,500 lb	2500 kg
Weight of drill pipe * (lined)	3,200 lb	1450 kg
Weight of drill pipe and large box (48 pipe)	U.S.	METRIC
Weight of drill pipe and small box (24 pipe)		

OPERATIONAL

Maximum spindle speed: 225 rpm*	4,000 ft·lb	5420 N·m
Maximum spindle speed (AT inner spindle):	800 ft·lb	1080 N·m
	120 fpm	37 m/min

400 rpm*	24,800 lb	110 kN
Spindle torque, max.	24,800 lb	110 kN
Spindle torque (AT inner spindle), max.	30,000 lb	133 kN
Carriage pullback travel speed*	4.5 in	114 mm
Thrust force*	4.75 in	121 mm
Thrust force (all terrain mode)	5.50 in	140 mm
Pullback force*		
Bore diameter	2.4 mph	3.9 km/h
Bore diameter (all terrain w/ Rockmaster 822)	2.2 mph	3.5 km/h
Bore diameter (all terrain w/ Rockmaster 86)		
Backream diameter: Soil dependent		
Ground travel speed (forward)*	EPA Tier 3	EU Stage IIIA
Ground travel speed (reverse)*		

POWER - TIER 3

Engine: Cummins QSB4.5

Emissions Compliance

Fuel: Diesel	275 cu in	4.5 L
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Cooling medium: Liquid	4.21 in	107 mm
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Injection: Direct	4.88 in	124 mm
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Aspiration: Turbocharged & charge air cooled	148 hp	110 kW
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	143 hp	114 kW
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Number of cylinders: 4

Displacement	156 hp	116 kW
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Bore

Stroke

Manufacturer's gross power rating**

Estimated new power rating***	EPA Tier 4	EU Stage IIIB
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Rated speed: 2300 rpm

Peak gross power @ 2000 rpm

POWER - TIER 4

Engine: Cummins QSB4.5

Emissions Compliance	275 cu in	4.5 L
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Fuel: Diesel	4.21 in	107 mm
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Cooling medium: Liquid	4.88 in	124 mm
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Injection: Direct	160 hp	119 kW
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Aspiration: Turbocharged & charge air cooled	152 hp	113 kW
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Number of cylinders: 4	163 hp	122 kW
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Displacement

Bore

Stroke

Manufacturer's gross power rating**

Estimated new power rating**	U.S. 1500 psi @ flows < 30 gpm 50 gpm @ press <	METRIC bar @ flows < 114 L/min 1899 L/min @ press
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