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	88 in	2.23 m
removed	119 in	3.02 m
Overall Machine Height (driving)*	94 in	2.39 m
Overall Machine Height (transport)* JT/AT	92 in	2.34 m
large box		
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.

8	1	
Add JT drill pipe (full box and 2 pipe in drill		2580 kg
frame)	5,690 lb	2580 kg
Add cobble drill pipe (full box and 2 pipe in	900 lb	410 kg
drill frame)	105 lb	50 kg
Add cab option (heat and air)	11.6 psi	0.82 kg/cm2
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
	3 in	76 mm
POWER PIPE	2.38 in	60 mm
Length of drill pipe* nominal	155 ft	47 m
Diameter of drill pipe tool joint end*	90 lb	41 kg
Diameter of drill pipe *	5,500 lb	2500 kg
Min. bend radius *	3,200 lb	1450 kg
Weight of drill pipe * (lined)		
Weight of drill pipe and large box (48 pipe)	U.S.	METRIC
Weight of drill pipe and small box (24 pipe)		
OPERATIONAL	4,000 ft·lb	5420 N·m
Maximum spindle speed: 225 rpm*	800 ft·lb	1080 N·m
Maximum spindle speed (AT inner spindle):		37 m/min
	1	

400	24 800 lb	110 LN
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	2.2 mph	3.5 km/h
822)		
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
Cooling medium: Liquid	4.21 in	107 mm
Injection: Direct	4.88 in	124 mm
Aspiration: Turbocharged & charge air	148 hp	110 kW
cooled	143 hp	114 kW
Number of cylinders: 4		
Displacement	156 hp	116 kW
Bore		
Stroke		
Manufacturer's gross power rating**		
Estimated new power rating***	EPA Tier 4	EU Stage IIIB
Rated speed: 2300 rpm		-
Peak gross power @ 2000 rpm		
POWER - TIER 4		
Engine: Cummins QSB4.5		
Emissions Compliance	275 cu in	4.5 L
Fuel: Diesel	4.21 in	107 mm
Cooling medium: Liquid	4.88 in	124 mm
Injection: Direct	160 hp	119 kW
Aspiration: Turbocharged & charge air	152 hp	113 kW
cooled		
Number of cylinders: 4	163 hp	122 kW
Displacement	Ĩ	
Bore	U.S.	METRIC
Stroke		bar @ flows < 114
Manufacturer's gross power rating**	< 30 gpm	L/min
Estimated new power rating**	er	1899 L/min @ press
		• P.000

Rated speed: 2300 rpm	800 psi	< 55 bar
Peak gross power @ 2000 rpm		
	U.S.	METRIC
DRILLING FLUID SYSTEM	27 gal	102 L
(ONBOARD)	42 gal	159 L
Maximum drilling fluid pressure*	12 qt	11 L
Maximum drilling fluid flow*	23 qt	22 L
	8 gal	30 L

FLUID CAPACITIES

Hydraulic reservoir Fuel tank Engine lubrication oil, including filter Engine cooling system Antifreeze tank

BATTERY

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

NOISE LEVELS

Operator sound pressure per ISO 6396: < or = 85 dBA Operator sound pressure per ISO 6396 w/ cab: < or 85 dBA Exterior sound power per ISO 6395: < or = 102 dBA

VIBRATION LEVELS

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.

* called out according to SAE J2022 ** called out according to SAE J1995 *** called out according to SAE J1349 **** called out according to ISO 16754