

# SPECIFICATIONS, JT30 ALL TERRAIN

<b>DIMENSIONS</b>	<b>U.S.</b>	<b>METRIC</b>
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*	<b>U.S.</b> 17,655 lb	<b>METRIC</b> 8010 kg

## WEIGH CONFIGURATIONS

AT drilling unit operating mass (T4i base unit, no pipe)\*

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

Add AT drill pipe (full box and 2 pipe in drill frame)	5,000 lb 5,690 lb	2270 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 <sup>2</sup>
Deduct tier 3 engine option	5.7 in	144 mm
Ground bearing pressure (AT, pipe, T4i, w/ cab)*****		
Ground clearance*****		
Entry angle: 10-16°		
Angle of approach: 19°		
Angle of approach (w/ cab): 15°	<b>U.S.</b>	<b>METRIC</b>
Angle of departure: 18°	118 in	3 m

## POWER PIPE

Length of drill pipe nominal*	155 ft	47 m
Diameter of drill pipe tool joint*	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)	<b>U.S.</b>	<b>METRIC</b>
Weight of drill pipe and small box (24 pipe)	112 in	2.84 m
	3.25 in	83 mm
	2.23 in	57 mm
<b>ALL TERRAIN PIPE</b>		
Length of drill pipe nominal*	145 ft	44 m
Diameter of drill pipe tool joint end	100 lb	45 kg

Diameter of drill pipe	4,800 lb	2180 kg
Min. bend radius*	3,100 lb	1410 kg
Weight of drill pipe (with inner rod)*		
Weight of drill pipe and large box (35 pipe)	<b>U.S.</b>	<b>METRIC</b>
Weight of drill pipe and small box (20 pipe)	112 in	2.84 m
	3.25 in	83 mm
<b>ALL TERRAIN LEAD PIPE</b>	2.06 in	49 mm
Length of drill pipe nominal*	145 ft	44 m
Diameter of drill pipe tool joint end*	98 lb	44 kg
Diameter of drill pipe*		
Min. bend radius	<b>U.S.</b>	<b>METRIC</b>
Weight of drill pipe (with inner rod)*	112 in	2.84 m
	3.25 in	83 mm
<b>ALL TERRAIN COBBLE PIPE</b>	2.94 in	75 mm
Length of drill pipe nominal*	210 ft	64 m
Diameter of drill pipe tool joint end*	129 lb	59 kg
Diameter of drill pipe*	5,430 lb	2460 kg
Min. bend radius	3,460 lb	1570 kg
Weight of drill pipe (with inner rod)*		
Weight of drill pipe and large box (35 pipe)	<b>U.S.</b>	<b>METRIC</b>
Weight of drill pipe and small box (20 pipe)	112 in	2.84 m
	3.25 in	83 mm
<b>ALL TERRAIN COBBLE LEAD PIPE</b>	2.23 in	57 mm
Length of drill pipe nominal*	210 ft	64 m
Diameter of drill pipe tool joint end*	106 lb	48 kg
Diameter of drill pipe*		
Min. bend radius	<b>U.S.</b>	<b>METRIC</b>
Weight of drill pipe (with inner rod)*	800 ft*lb	1080 N*m
<b>OPERATIONAL</b>	120 fpm	37 m/min
Maximum spindle speed (AT inner spindle):	24,800 lb	110 kN
400 rpm*	30,000 lb	133 kN
Spindle torque (AT inner spindle), max.	4.75 in	121 mm
Carriage pullback travel speed*	5.50 in	140 mm
Thrust force (All Terrain mode)		
Pullback force*	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)	<b>U.S.</b>	<b>METRIC</b>
Backream diameter: Soil dependent	EPA Tier 3	EU Stage IIIA
Ground travel speed (forward)*		
Ground travel speed (reverse)*		
<b>POWER - TIER 3</b>		
Engine: Cummins QSB4.5		

Emissions compliance	275 in <sup>3</sup>	4.5 L
Fuel: Diesel	4.21 in	107 mm
Cooling medium: Liquid	4.88 in	124 mm
Injection: Direct	148 hp	110 kW
Aspiration: Turbocharged & Charge Air Cooled	143 hp	114 kW
Number of cylinders: 4	156 hp	116 kW
Displacement		
Bore	<b>U.S.</b>	<b>METRIC</b>
Stroke		
Manufacturer's gross power rating**	EPA Tier 4i	EU Stage IIIB
Estimated new power rating***		
Rated speed: 2300 rpm		
Peak gross power @ 2000 rpm		

#### **POWER - TIER 4i**

Engine: Cummins QSB4.5	275 in <sup>3</sup>	4.5 L
Emissions compliance	4.21 in	107 mm
Fuel: Diesel	4.88 in	124 mm
Cooling medium: Liquid	160 hp	119 kW
Injection: Direct	152 hp	113 kW
Aspiration: Turbocharged & Charge Air Cooled	163 hp	122 kW
Number of cylinders: 4		
Displacement	<b>U.S.</b>	<b>METRIC</b>
Bore	1,500 psi @ flows	bar @ flows < 114
Stroke	< 30 gpm	L/min
Manufacturer's gross power rating**	50 gpm @ press < 189 L/min @ press	
Estimated power rating**	800 psi	< 55 bar
Rated speed: 2300 rpm		
Peak gross power @ 2000 rpm	<b>U.S.</b>	<b>METRIC</b>

#### **DRILLING FLUID SYSTEM (ONBOARD)**

Maximum drilling fluid pressure*	27 gal	102 L
Maximum drilling fluid flow*	42 gal	159 L
	12 qt	11 L
	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/sec<sup>2</sup> respectively. Operator seat complies with ISO 7096.

\* called out according to SAE J2022

\*\* called out according to SAE J1995

\*\*\* called out according to SAE J1349

\*\*\*\* called out according to ISO 16754