

EQUIPMENT SPECIFICATIONS LIBRARY

BASIC MODEL INFORMATION

Manufacturer:

Ditch Witch

Model:

JT3020 All Terrain

Rig Size:

20,001 - 30,000 lbs pullback

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SPECS

[US](#)

[Metric](#)

Displacement

(4.5 L)

Emissions Compliance

(EU Stage IIIa)

Entry Angle

Fuel Tank Capacity

(159 L)

Fuel Type

Ground Drive Speed

Forward: (3.9 km/h)

Height

(driving): (3.02 m)

Hydraulic Tank Capacity

(102 L)

Joint Diameter

(83 mm)

Length

(2.84 m)

Length

(driving): (5.59 m)

Make and Model**Manufacturer's Gross HP Rating**

(110 kW)

Max Carriage Speed

(Thrust): (37 m/min)

Max Flow

(189 L/min)

Max Pressure

(103 bar)

Max Speed**Max Spindle Speed****Max Spindle Torque**

(AT inner spindle): (1080 NÂ·m)

Min Bend Radius

(53 m)

Min Bore Diameter

(w/ Rockmaster 822): (121 mm)

Number of Cylinders**Pipe Diameter**

(57 mm)

Pullback

(133 kN)

Thrust

(Not AT): (110 kN)

Type

Weight

Operating Weight: (9,825 kg)

Weight

(45 kg)

Weight of Pipe and Large Box

(35 pipe): (2180 kg)

Weight of Pipe and Small Box

(20 pipe): (1410 kg)

Width

(2.03 m)

ADDITIONAL INFO

DIMENSIONS

Overall machine length (driving): 220" (5.59 m)

Overall machine length (transport): 221" (5.61 m)

Overall machine width: 80" (2.03 m)

Overall machine height (driving): 119" (3.02 m)

Overall machine height (transport): 94" (2.39 m)

Drilling unit operating mass (All Terrain): 22,200 lbs (10,070 kg)

Operating Weight: 21,660 lbs (9,825 kg)

Entry angle: 10° to 16°

Angle of approach: 19°

Angle of departure: 18°

ALL TERRAIN PIPE

Length of drill pipe nominal: 112" (2.84 m)

Diameter of drill pipe tool joint end: 3.25" (83 mm)

Diameter of drill pipe: 2.23" (57 mm)

Bend radius, min.: 175 ft (53 m)

Weight of drill pipe (with inner rod): 100 lbs (45 kg)

-And large box (35 pipe): 4,800 lbs (2180 kg)

-And small box (20 pipe): 3,100 lbs (1410 kg)

ALL TERRAIN LEAD PIPE

Length of drill pipe nominal: 112" (2.84 m)

Diameter of drill pipe tool joint end: 3.25" (83 mm)

Diameter of drill pipe: 2.06" (51 mm)
Bend radius, min.: 175 ft (53 m)
Weight of drill pipe (with inner rod): 98 lbs (44 kg)

OPERATION

Maximum Spindle speed (AT inner spindle): 400 rpm
Maximum Spindle torque (AT inner spindle): 800 ft·lb (1080 N·m)
Carriage thrust travel speed: 120 fpm (37 m/min)
Carriage pullback travel speed: 120 fpm (37 m/min)
Thrust force: 24,800 lbs (110 kN)
Thrust force (All Terrain mode): 16,500 lbs (73 kN)
Pullback force: 30,000 lbs (133 kN)
Bore diameter (w/ Rockmaster 822): 4.75" (121 mm)
Bore diameter (w/ Rockmaster 86): 5.5" (140 mm)
Backream diameter: soil dependent
Ground travel speed -
-Forward: 2.4 mph (3.9 km/h)
-Reverse: 2.2 mph (3.5 km/h)

POWER

Engine: Cummins QSB4.5
Fuel: Diesel
Cooling medium: Liquid
Injection: Direct
Aspiration: Turbocharged and air cooled
Number of cylinders: 4
Displacement: 275 in³ (4.5 L)
Bore: 4.02" (102 mm)
Stroke: 5.42" (138 mm)
Manufacturer's gross power rating: 148 hp (110 kW)
Rated speed: 2300 rpm
Peak gross power @ 2000 rpm: 156 hp (116 kW)
Emissions Compliance: EPA Tier 3 (EU Stage IIIa)

DRILLING FLUID SYSTEM

Maximum Drilling fluid pressure: 1500 psi (103 bar)
Maximum Drilling fluid flow: 50 gpm (189 L/min)

FLUID CAPACITIES

Hydraulic reservoir: 27 gal (102 L)
Fuel tank: 42 gal (159 L)

BATTERY (2 USED)

SAE reserve capacity rating: 195 min

SAE cold crank rating @ 0° F (-18° C): 950 A

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