

 DITCH WITCH® JT100

ALL TERRAIN



KEY FEATURES

Industry-exclusive, mechanical rock-drilling system provides more power to the bit than any other rock-drilling system in its class.

When drilling with an HDD system of this size, you need all of the horsepower you can get. The JT100 All Terrain's 268-hp (200-kW) engine delivers more raw power more efficiently to all machine functions, so you get the job done faster.

The JT100 All Terrain's optional on-board crane and exclusive anchor system eliminate the need for large and expensive support equipment, shrinking your transportation costs, your set-up time, and the size of your jobsite.

Big rigs see big downhole forces, so machine stability is imperative. The JT100 All Terrain's exclusive dual-pivot drill frame allows the entry angles you need without compromising stability—or operator comfort—while drilling.

(Photograph A) Fully-enclosed cab features instrument panel gauges that are positioned for visibility, conveniently placed controls, and an excellent view of the tool joint.

By providing the operator better control when making pipe connections, the JT100 All Terrain's assisted makeup feature greatly extends the life of your drill pipe—one of your biggest downhole investments.

With its infinitely variable rotary drive, the JT100 All Terrain is the only drill in its class that can truly match spindle speed and torque to find that "sweet spot" that will power through infinitely varying soil conditions.

(Photograph B) The JT100 All Terrain's double rack-and-pinion thrust drive is field-proven and heavy-duty enough to push through—and pull you through—the long, tough bores.

With the JT100 All Terrain, you'll never have an empty pipe box again. Because the JT100 All Terrain is the only drill in its class that allows you to transfer drill pipe from one box to another, and to add or remove the upper pipe box without additional support equipment.

SPECIFICATION**JT100 ALL TERRAIN**

	U.S.	METRIC
DIMENSIONS		
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	47,260 LB	21,400 KG
ENTRY ANGLE	10-15°	10-15°
ANGLE OF APPROACH	13°	13°
ANGLE OF DEPARTURE	17°	17°
DRILL PIPE		
LENGTH NOMINAL	169.5 IN	4.31 M
DIAMETER OF TOOL JOINT END	4.5 IN	114 MM
DIAMETER OF DRILL PIPE	3.63 IN	92 MM
MINIMUM BEND RADIUS	205 FT	62 M
WEIGHT	284 LB	130 KG
WEIGHT OF 12 DRILL PIPE IN BOX	4430 LB	2010 KG
OPERATIONAL		
MAX SPINDLE SPEED	270 RPM	270 RPM
MAX SPINDLE SPEED (AT INNER SPINDLE)	260 RPM	260 RPM
MAX SPINDLE TORQUE	12,000 FT · LB	16 300 N · M
MAX SPINDLE TORQUE (AT INNER SPINDLE)	2000 FT · LB	2700 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	6.25 IN	159 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		
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	5.10 IN	130 MM
MANUFACTURER'S GROSS POWER RATING	268 HP	200 KW
RATED SPEED	2300 RPM	2300 RPM
EMISSIONS COMPLIANCE	EPA TIER 3, EU STAGE IIIA	
DRILLING FLUID SYSTEM (ONBOARD)		
MAXIMUM DRILLING FLUID PRESSURE	1000 PSI	69 BAR
MAXIMUM DRILLING FLUID FLOW	120 GPM	450 L/MIN
FLUID CAPACITIES		
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	