

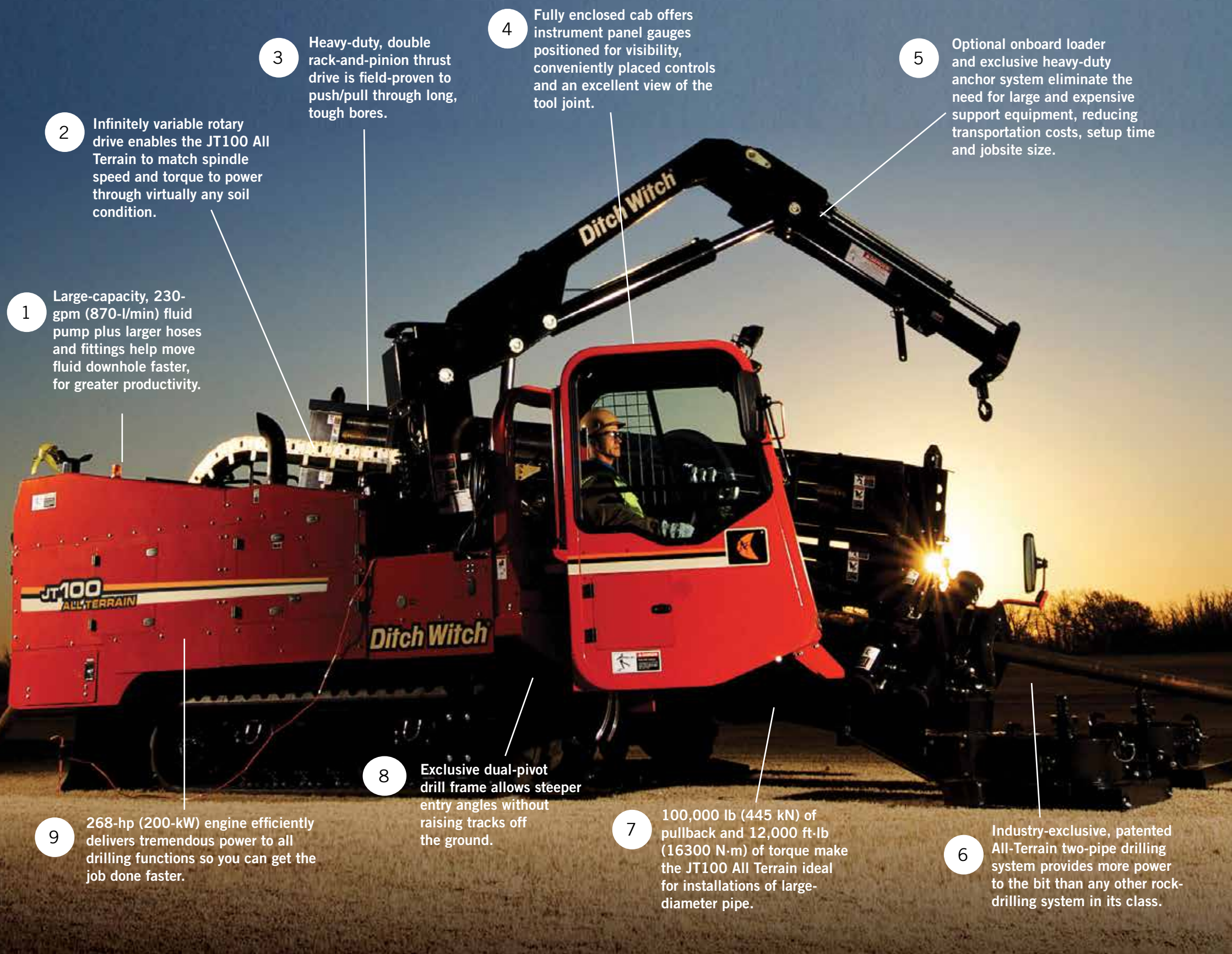


# JT100 ALL TERRAIN HORIZONTAL DIRECTIONAL DRILL



**TRENCHLESS**

# JT100 ALL TERRAIN HORIZONTAL DIRECTIONAL DRILL



1 Large-capacity, 230-gpm (870-l/min) fluid pump plus larger hoses and fittings help move fluid downhole faster, for greater productivity.

2 Infinitely variable rotary drive enables the JT100 All Terrain to match spindle speed and torque to power through virtually any soil condition.

3 Heavy-duty, double rack-and-pinion thrust drive is field-proven to push/pull through long, tough bores.

4 Fully enclosed cab offers instrument panel gauges positioned for visibility, conveniently placed controls and an excellent view of the tool joint.

5 Optional onboard loader and exclusive heavy-duty anchor system eliminate the need for large and expensive support equipment, reducing transportation costs, setup time and jobsite size.

8 Exclusive dual-pivot drill frame allows steeper entry angles without raising tracks off the ground.

7 100,000 lb (445 kN) of pullback and 12,000 ft-lb (16300 N-m) of torque make the JT100 All Terrain ideal for installations of large-diameter pipe.

6 Industry-exclusive, patented All-Terrain two-pipe drilling system provides more power to the bit than any other rock-drilling system in its class.

9 268-hp (200-kW) engine efficiently delivers tremendous power to all drilling functions so you can get the job done faster.



When you're challenged with a lengthy installation through every type of soil including solid rock, you need the superior power and technology offered by the Ditch Witch® JT100 All Terrain Horizontal Directional Drill. With the JT100 All Terrain you get 100,000 lb (445 kN) of pullback and up to 12,000 ft•lb (16300 N•m) of torque, powered by a huge, 268-hp (200-kW) engine. Everything is engineered to maximize the productivity of the machine's patented All Terrain technology, a two-pipe drilling system that enables you to drill and steer simultaneously.

WE'RE IN THIS TOGETHER.



# JT100 ALL TERRAIN HORIZONTAL DRILL SPECIFICATIONS

	U.S.	METRIC
<b>OPERATION</b>		
Spindle speed, max	210 rpm	
Spindle speed (AT inner spindle), max	270 rpm	
Spindle torque, max	12,000 ft-lb	16300 N-m
Spindle torque (AT inner spindle), max	2,000 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
Backreamer diameter	Soil dependent	
Ground travel speed		
Forward/reverse	3.6 mph	5.8 km/h

<b>POWER</b>		
Engine	Deutz® TCD2013L06-2V	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	6	
Displacement	436 in³	7.15 L
Bore	4.25 in	108 mm
Stroke	5.1 in	130 mm
Manufacturer's gross power rating	268 hp	200 kW
Rated speed	2,300 rpm	
Emissions compliance	EPA Tier 3	EU Stage IIIA
Pressure, max	1,000 psi	69 bar
Flow, max	120 gpm	450 l/min

	U.S.	METRIC
<b>DIMENSIONS</b>		
Length	368 in	9.35 m
Width	101 in	2.57 m
Height	110 in	2.79 m
Operating weight	47,260 lb	21400 kg
Entry angle	10-15°	
Angle of approach	13°	
Angle of departure	17°	

<b>DRILLING FLUID SYSTEM</b>		
Pressure, max	1,000 psi	69 bar
Flow, max	230 gpm	870 l/min

<b>FLUID CAPACITIES</b>		
Fuel tank	97 gal	370 L
Hydraulic reservoir	47 gal	180 L

<b>ALL TERRAIN PIPE</b>		
Length of drill pipe, nominal	169.5 in	4.31 m
Diameter of drill pipe, tool joint end	4.5 in	114 mm
Diameter of drill pipe	3.63 in	92 mm
Bend radius, min	205 ft	62 m
Weight of drill pipe and pipe box	284 lb	130 kg
Weight of drill pipe and pipe box	4,430 lb (12 pipe)	2010 kg (12 pipe)

<b>POWER PIPE® (FOR DIRT DRILLING)</b>		
Length of drill pipe, nominal	177 in	4.5 m
Diameter of drill pipe, tool joint end	4 in	102 mm
Diameter of drill pipe	3.63 in	92 mm
Bend radius, min	205 ft	62 m
Weight of drill pipe and pipe box	229 lb	104 kg
Weight of drill pipe and pipe box	3760 lb (12 pipe)	1710 kg (12 pipe)

Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.

## THE DITCH WITCH® HDD SYSTEM INCLUDES:



### HDD TOOLING

For your directional drill, we offer a complete line of genuine Ditch Witch drill bits, backreamers, drill pipe, and beacon housings, including TriHawk®, the most reliable and durable in the horizontal directional drilling industry.



### ELECTRONICS

The Ditch Witch organization designs and manufactures its own tracking electronics, including the unbeatably accurate TK Series HDD Guidance System, which enables you to cut through noise and complete bores with an unprecedented level of confidence.