



# JT100

# ALL TERRAIN

# HORIZONTAL

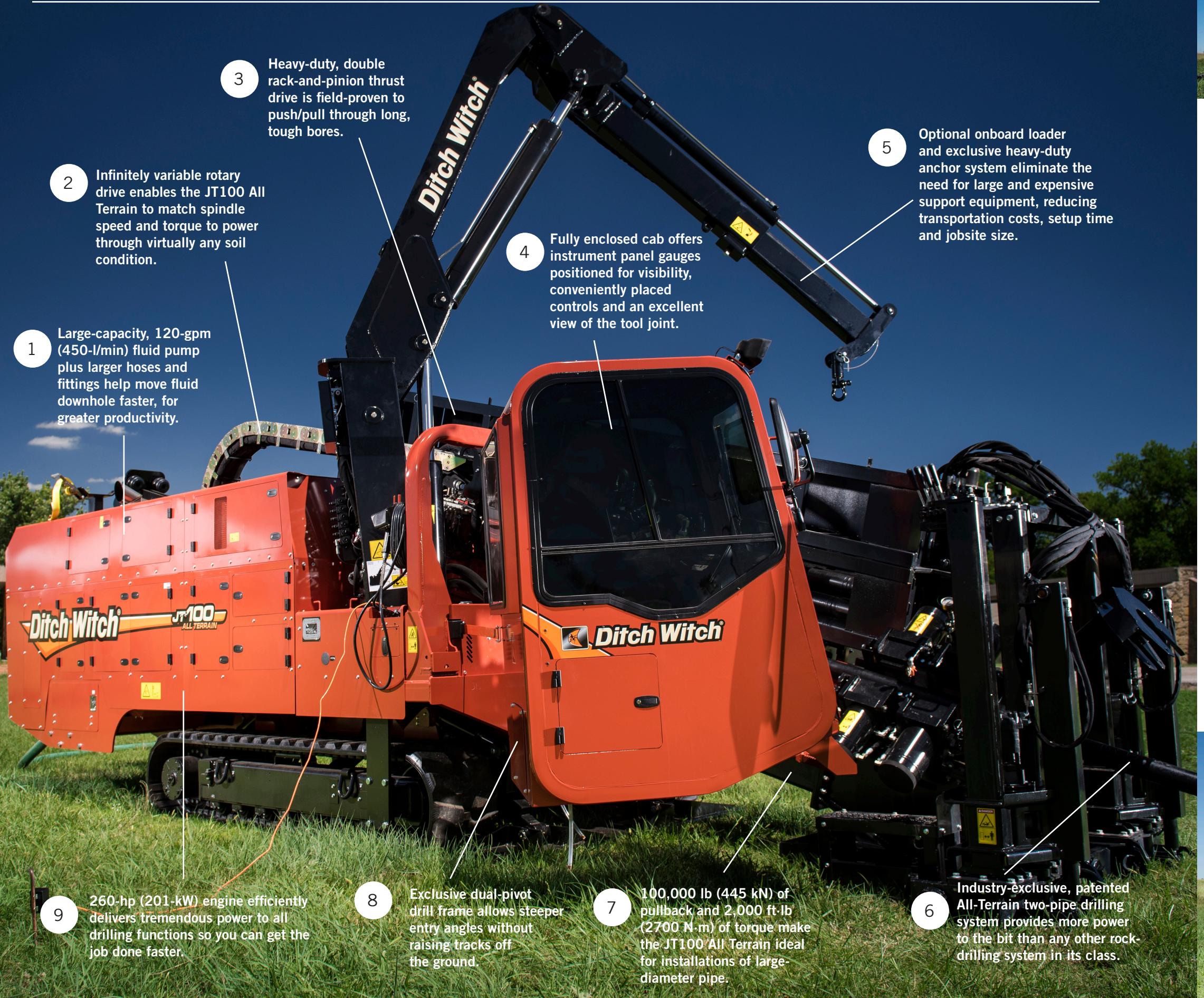
# DIRECTIONAL

# DRILL



TRENCHLESS

# JT100 ALL TERRAIN HORIZONTAL DIRECTIONAL DRILL



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 2,000 ft-lb (2700 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

OPERATION	U.S.	METRIC
Spindle speed, max	270 rpm	
Spindle torque, 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
Backreamer diameter	Soil dependent	
Ground travel speed		
Forward/reverse	3.6 mph	5.8 km/h
POWER		
Engine	Cummins® QSB6.7	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	6	
Displacement	409 in <sup>3</sup>	6.7 L
Bore	4.21 in	107 mm
Stroke	4.88 in	124 mm
Manufacturer's gross power rating	260 hp	201 kW
Rated speed	2,200 rpm	
Emissions compliance	EPA Tier 4	EU Stage IV
DIMENSIONS		
Length	368 in	9.35 m
Width	101 in	2.57 m
Height	110 in	2.79 m
Operating mass, no pipe, no cab	50,740 lb	23015 kg
Entry angle	10-15°	
Angle of departure	17°	

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.

DRILLING FLUID SYSTEM	U.S.	METRIC
Pressure, max	1,000 psi	69 bar
Flow, max	120 gpm	450 l/min
FLUID CAPACITIES		
Hydraulic reservoir	47 gal	180 L
Fuel tank	97 gal	370 L
POWER PIPE® HD		
Length of drill pipe	14.75 ft	4.5 m
Tool joint, outside diameter	4 in	101.6 mm
Tool joint, inside diameter	1.5 in	38.1 mm
Bend radius, min	205 ft	62.5 m
Weight of drill pipe	229 lb	104 kg
Weight of drill pipe and short box (12 pipe)	229 lb	104 kg
ALL TERRAIN PIPE		
Length of drill pipe	169.5 in	4.31 m
Tool joint, outside diameter	4.5 in	114 mm
Tool joint, inside diameter	2.13 in	54.1 mm
Bend radius, min	205 ft	62.5 m
Weight of drill pipe	289 lb	131.1 kg
Weight of drill pipe and short box (12 pipe)	3,468 lb	1573.1 kg
HIWS1		
Length of drill pipe	15 ft	4.57 m
Tool joint, outside diameter	3.63 in	92.2 mm
Tool joint, inside diameter	1.5 in	38.1 mm
Bend radius, min	197 ft	60.2 m
Weight of drill pipe	250 lb	113.4 kg
Weight of drill pipe and short box (12 pipe)	3,000 lb	1360.8 kg
BATTERY (2 USED)		
SAE reserve capacity rating	450 min	
SAE cold crank rating @ 0°F (-18°C)	1,400 amps	

## THE DITCH WITCH® HDD SYSTEM INCLUDES:



### MUD MIXERS

Ditch Witch fluid-management systems include the innovative FM13V, a fluid-mixing system that features a pump that lubricates itself during mixing and works so efficiently that it delivers 20 percent more fluid than other models.



### HDD TOOLING

For your directional drill, we offer a complete line of genuine Ditch Witch HDD tooling, including drill bits, backreamers, drill pipe and beacon housings.

