

Optimized for industry-leading performance and productivity in hard rock conditions, the Ditch Witch® AT40 All Terrain directional drill is designed with an advanced version of the proven Ditch Witch All Terrain drilling system. The updated, two-pipe system offers boosted power to the bit—33 percent more torque than competitive units. Patented design enhancements increase cycle times, improve durability and allow for more adaptable steering.

The system also features a new housing enhanced to minimize maintenance, improve reliability and increase its useful life. The drill leverages the same next-generation features of the JT40 model for maximum drilling performance, operator comfort and control.

WE'RE IN THIS TOGETHER.



AT40 ALL TERRAIN DIRECTIONAL DRILL



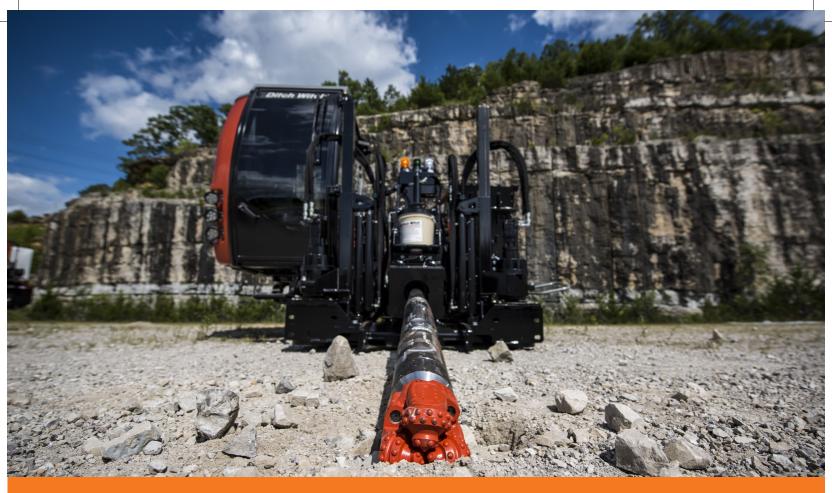
AT40 ALL TERRAIN DIRECTIONAL DRILL SPECIFICATIONS

OPERATION	U.S.	METRIC
Spindle speed, max	225 rpm	
Spindle speed, max (AT inner spindle)	280 rpm	
Spindle torque, max	5,500 ft·lb	7460 N⋅m
Spindle torque, max (AT inner spindle)	2,000 ft·lb	2710 N⋅m
Carriage thrust travel speed	180 fpm	55 m/min
Carriage pullback travel speed	180 fpm	55 m/min
Thrust force	40,000 lb	178 kN
Pullback force	40,000 lb	178 kN
Backreamer diameter	Soil dependent	
Ground travel speed		
Forward/reverse	3 mph	4.8 km/h
POWER (TIER 4)		
Engine	Cummins® QSB4.5	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	4	
Displacement	275 in ³	4.5 L
Bore	4.21 in	107 mm
Stroke	4.88 in	124 mm
Manufacturer's gross power rating	160 hp	119 kW
Rated speed	2,300 rpm	
Emissions complaince	EPA Tier 4	EU Stage IV
POWER (TIER 3, LRC)		
Engine	Cummins QSB4.5	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration	Turbocharged & charge air cooled	
Number of cylinders	4	
Displacement	275 in ³	4.5 L
Bore	4.21 in	107 mm
Stroke	4.88 in	124 mm
Manufacturer's gross power rating	148 hp	110 kW
Rated speed	2,300 rpm	
Emissions complaince	EPA Tier 3	EU Stage IIIA
DIMENSIONS		
Length, mobiling	295 in	7.50 m
Length, trailering	290 in	7.37 m
Width, w/open station	89 in	2.26 m
Width, w/cab	93 in	2.36 m
Height, w/cab	114 in	2.90 m
Operating mass, no pipe	21,600 lb	9800 kg
Entry angle	20-29°	
Angle of approach	17°	
Angle of departure	17°	

VEIGHT CONFIGURATION	U.S.	METRIC
Cab option	690 lb	310 kg
Standard anchor option	750 lb	340 kg
HD anchor option	1,290 lb	590 kg
Deduct Tier 3 engine option	165 lb	70 kg
PRILLING FLUID SYSTEM		
Pressure, max	1,000 psi	69 bar
Flow, max	70 gpm	265 I/min
LUID CAPACITIES		
Hydraulic reservoir	17 gal	64 L
Fuel tank	56 gal	212 L
POWER PIPE® HD		
Length of dril pipe, nominal	180 in	4.57 m
Diameter of drill pipe, tool joint end	3.13 in	80 mm
Diameter of drill pipe	2.81 in	71 mm
Bend radius, min	146 ft	45 m
Weight of drill pipe, lined	150 lb	68 kg
Weight of drill pipe and large box (40 pipe)	7,140 lb	3240 kg
Weight of drill pipe and small box (20 pipe)	3,797 lb	1720 kg
ALL TERRAIN PIPE		
Length of drill pipe, nominal	180 in	4.57 m
Diameter of drill pipe, tool joint end	3.75 in	95 mm
Diameter of drill pipe	3.07 in	78 mm
Bend radius, min	170 ft	52 m
Weight of drill pipe	231 lb	105 kg
Weight of drill pipe and large box (24 pipe)	6,350 lb	2880 kg
Weight of drill pipe and small box (12 pipe)	3,450 lb	1560 kg
HIWS1 PIPE		
Length of drill pipe, nominal	180 in	4.57 m
Diameter of drill pipe, tool joint end	3.10 in	79 mm
Diameter of drill pipe	2.63 in	67 mm
Bend radius, min	145 ft	44 m
Weight of drill pipe	165 lb	75 kg
Weight of drill pipe and large box (35 pipe)	6,915 lb	3140 kg
Weight of drill pipe and small box (15 pipe)	3,287 lb	1490 kg
BATTERY (2 USED)		
SAE reserve capacity rating	195 min	
SAE cold crank rating @ 0°F (-18°C)	950 amps	

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 HDD tooling, including drill bits, backreamers, drill pipe and beacon housings.



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.



VACUUM EXCAVATORS

Ditch Witch vacuum excavators are designed for a tremendous range of soft-excavation and cleanup tasks, including all manner of non-hazardous spills in and around the directional drilling jobsite. They're the most powerful and most efficient vac systems on the market.

