

# **JT30** ALL TERRAIN HORIZONTAL DIRECTIONAL DRILL **TRENCHLESS**

Ditch Witch

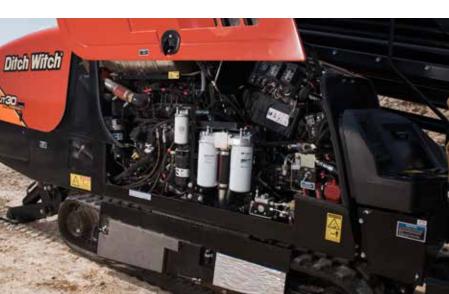
## JT30 ALL TERRAIN HORIZONTAL DIRECTIONAL DRILL





You asked for a drill that tackles the toughest conditions, from solid rock to cobble and hard dirt. You wanted a compact design to operate in the tightest spots. You needed a patented, inner-rod design to save you time, and a mechanical drive to save you money on drilling fluid and transporting water. We delivered it all, and much more, with the Ditch Witch® JT30 All Terrain Horizontal Directional Drill.

WE'RE IN THIS TOGETHER.



## JT30 ALL TERRAIN HORIZONTAL DIRECTIONAL DRILL

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Exclusive assisted makeup and breakout feature saves

wear on pipe threads and

reduces operator fatigue.

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2 top of the pipe box

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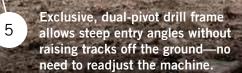
ALC: NO.

Heavy-duty anchor system secures machine in difficult terrain so you can push/pull with full machine thrust.

SaverLok<sup>®</sup> System provides the tightest connection and best protection against wear and tear on the drill pipe and drive system; easy to install and replace, requiring no special tools. 6

Ditch Witch





Add-a-pipe feature places individual pipes into loading system without lifting pipe into the

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Field-proven, heavy-duty rack and pinion thrust drive; welded-on double rack offers minimum maintenance and maximum reliability.

> Optional wireless remote ground drive increases flexibility when moving the rig and allows fine-tuning of bore path placement.

## DON'T LET A LITTLE THING LIKE ROCK **SLOW YOU DOWN.**



#### A comfortable operator is a more productive operator, which is why we've equipped the JT30 All Terrain Horizontal Directional Drill operator's station with a cutting-edge design. It features:

- Open-top vise wrenches are angled toward the operator for an excellent view of the tool joint when making up and breaking out pipe.
- Industry-exclusive, double-pivot drill frame allows steep entry angles without raising the tracks off the ground; enhances operator comfort because operator's station stays level.
- Optional cab features climate-controlled heat and air, for greater operator comfort and productivity.

• Operator's station features intuitive joystick that controls all drilling functions, ergonomic seat, color LCD engine display, and an excellent view of all drill functions.

## JT30 ALL TERRAIN HORIZONTAL DIRECTIONAL DRILL SPECIFICATIONS

	U.S.	METRIC		U.S.	METRI
OPERATION			DRILLING FLUID SYSTEM		
Spindle speed, max	225 rpm		Pressure, max	1,500 psi	103 bar
Spindle speed, max (AT inner spindle)	400 rpm		Flow, max	50 gpm	189 l/min
Spindle torque, max	4,000 ft·lb	5420 N·m	FLUID CAPACITIES		
Spindle torque, max (AT inner spindle)	800 ft·lb	1080 N⋅m	Hydraulic reservoir	27 gal	102 L
Carriage thrust travel speed	120 fpm	37 m/min	Fuel tank	48 gal	182 L
Carriage pullback travel speed	120 fpm	37 m/min	Engine lubrication oil, including filter	13.7 qt	13 L
Thrust force (AT mode)	24,800 lb	110 kN	Engine cooling system	24 qt	22.7 L
Pullback force	30,000 lb	133 kN	Antifreeze tank	8 gal	30 L
Bore diameter (AT w/Rockmaster <sup>™</sup> 822)	4.75 in	121 mm	Diesel exhaust fluid tank	5 gal	18.9 L
Bore diameter (AT w/Rockmaster 86)	5.5 in	140 mm	POWER PIPE <sup>®</sup> HD		
Ground travel speed			Length of drill pipe, nominal	118 in	3 m
Forward	2.4 mph	3.9 km/h	Joint diameter	2.75 in	70 mm
Reverse	2.4 mph	3.9 km/h	Pipe diameter	2.38 in	60 mm
POWER (TIER 3) (LRC)			Bend radius	123 ft	37.5 m
Engine	Cummins <sup>®</sup> QSB4	1.5	Weight of drill pipe, lined	88 lb	40 kg
Fuel	Diesel		Weight of drill pipe and large box, lined	5,323 lb	2415 kg
Cooling medium	Liquid		(48 pipe)		2415 kg
Injection	Direct		Weight of drill pipe and small box, lined (24 pipe)	2,959 lb	1342 kg
Aspiration	Turbocharged, cl	harge air cooled	POWER PIPE FORGED (FOR DIRT DRILLIN	G)	
Number of cylinders	4		Length	120 in	3.05 m
Displacement	275 in <sup>3</sup>	4.5 L	Joint diameter	2.63 in	66.7 mm
Bore	4.21 in	107 mm	Pipe diameter	2.38 in	60 mm
Stroke	4.88 in	124 mm	Bend radius, min	108.2 ft	33 m
Manufacturer's gross power rating	148 hp	110 kW	Weight of drill pipe	73 lb	33 kg
Rated speed	2,300 rpm	110 887	ALL TERRAIN PIPE	, 0.15	00 118
Peak gross power @ 2,000 rpm	156 hp	116 kW	Length of drill pipe, nominal	112 in	2.84 m
Emissions compliance	EPA Tier 3	EU Stage IIIA	Joint diameter	3.25 in	83 mm
POWER (TIER 4)	LI A Her 5	E0 otage min	Pipe diameter	2.23 in	57 mm
Engine	Cummins QSB4.	5	Bend radius, min	145 ft	44 m
Fuel	Diesel	5	Weight of drill pipe, lined	100 lb	45 kg
Cooling medium	Liquid		Weight of drill pipe and large box		
	•		(35 pipe)	4,599 lb	2086 kg
Injection Aspiration	Direct	harra air agalad	Weight of drill pipe and small box	2,847 lb	1291 kg
	Turbocharged, cl	large air cooleu	(20 pipe) ALL TERRAIN COBBLE PIPE		-
Number of cylinders		4 5 1	Length of drill pipe, nominal	112 in	2.84 m
Displacement	275 in <sup>3</sup>	4.5 L		3.25 in	2.84 m 83 mm
Bore	4.21 in	107 mm	Joint diameter	2.94 in	
Stroke	4.88 in	124 mm	Pipe diameter		75 mm
Manufacturer's gross power rating	160 hp	119 kW	Bend radius, min	210 ft	64 m
Rated speed	2,300 rpm	100.114	Weight of drill pipe, w/inner rod Weight of drill pipe and large box	127 lb	58 kg
Peak gross power @ 2,200 rpm	163 hp	122 kW	(35 pipe)	5,544 lb	2515 kg
Emissions compliance	EPA Tier 4	EU Stage IV	Weight of drill pipe and small box	3,387 lb	1536 kg
DIMENSIONS			(20 pipe)	-,	
Transport length	221 in	5.61 m	BATTERY	105 .	
Width	80 in	2.03 m	SAE reserve capacity rating	195 min	
Width, w/cab	89 in	2.26 m	SAE cold crank rating @ 0°F (-18°C)	950 amps	
Transport height	94 in	2.39 m	NOISE LEVEL	0.0 10 1	
Weight, w/out pipe	17,660 lb	8010 kg	Operator sound	86 dBA	
Weight, w/cab	18,560 lb	8418 kg	Operator sound w/cab	83 dBA	
Entry angle	10-16°		Constituentions are record and extrine to	a sudahasi a sata a se	
Angle of approach	19°		Specifications are general and subject to chang required, equipment should be weighed and me		
Angle of approach, w/cab	15°		equipment may not necessarily match that sho		,





### THE DITCH WITCH" HDD SYSTEM INCLUDES:



#### **HDD TOOLING**

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



#### **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, efficient and quiet vac systems on the market.

