

JT30 HORIZONTAL DIRECTIONAL DRILL

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

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

Advanced electronic system features improved diagnostics and electronic functions, including a larger display and rugged, marine-grade switches.

160-gross-hp (119-kW), Tier 4 engine is the most powerful in its class; full power to all machine functions greatly enhances productivity. 148-gross-hp (110-kW) Tier 3 engine also available.

Intuitive, easy-to-use carve mode simplifies operation and improves productivity.

Dual independent rear stabilizers are easy to set up and enhance stability on uneven or rough terrain.

Ditch Witch

The Ditch Witch® JT30 Horizontal

Directional Drill is your total drill
solution. It offers up to 35 more
horsepower than the competition and
is the quietest drill in its class—all
as a direct result of listening to our
customers. We took feedback from
years of experience in all types of job
conditions and incorporated it into an
innovative, industry-leading design.
You asked for it, and the JT30 delivers.

WE'RE IN THIS TOGETHER.

Easy access to all service points in the engine and mud pump.

Narrower operational width than competitors' models, for greater maneuverability and productivity in tight spaces.

ooints in the engine and mud

Exclusive assisted makeup and breakout feature saves wear on pipe threads and reduces operator fatigue.

Open-top vise wrenches are angled toward the drill operator for an excellent view of the tool joint when making up and breaking out pipe.

Heavy-duty stakedown system allows you to push or pull with full machine thrust and remain secure in virtually any drilling condition.



JT30 HORIZONTAL DIRECTIONAL DRILL SPECIFICATIONS

Spindle speed, max		U.S.	METRIC		U.S.	METRIC
Spindle torque, max	OPERATION			DIMENSIONS		
Carriage thrust travel speed 120 fpm 37 m/min Carriage pullback travel speed 120 fpm 37 m/min Transport height 94 in 2.26 m 2.26 m Transport height 94 in 2.28 m 2.26 m Transport height 94 in 2.39 m 2.26 m 2.30 m 2	Spindle speed, max	225 rpm		Transport length	221 in	5.61 m
Transport height	Spindle torque, max	4,000 ft-lb	5420 N⋅m	Width	80 in	2.03 m
Thrust force	Carriage thrust travel speed	120 fpm	37 m/min	Width, w/cab	89 in	2.26 m
Pullback force	Carriage pullback travel speed	120 fpm	37 m/min	Transport height	94 in	2.39 m
Forward/reverse 2.4 mph 3.9 km/h 2.4 mph 3.9 km/h 3.9	Thrust force	24,800 lb	110 kN	Operating weight	17,080 lb	7747 kg
Forward/reverse	Pullback force	30,000 lb	133 kN	Operating weight, w/cab	17,975 lb	8153 kg
POWER (TIER 3) (LRC)	Ground travel speed			Entry angle	10-16°	
Engine Cummins®QSB4.5 Fuel Diesel Cooling medium Liquid Pressure, max 1,500 psi 103 bar Flow, max 50 gpm 189 l/min Flow, max 48 gal 182 L 180 l/min 180 l/min 182 L 180 l/min 182 L 180 l/min 180 l/min 182 L 180 l/min 180 l/min	Forward/reverse	2.4 mph	3.9 km/h	Angle of approach	19°	
Fuel	POWER (TIER 3) (LRC)			Angle of approach, w/cab	15°	
Cooling medium Liquid Direct Direct Specifications are general and subject to change without notice. If exact measurements are required, equipment, as principal of colling in the property of colling i	Engine	Cummins® QSB4.5		Angle of departure	18°	
Injection Direct Aspiration Turbocharged & charge air cooled Number of cylinders 4 Bore 4.21 in 107 mm Stroke 4.88 in 124 mm Amurfacturer's gross power rating EPA Tier 3 Engine Cooling medium Liquid Direct Aspiration Direct Aspiration 275 in³ 4.5 L Engine Coummins QSB4.5 Fluid cAPACITIES Flow, max 50 gpm 189 l/min FLUID CAPACITIES Fluid CAPACITIES Fluid CAPACITIES Hydraulic reservoir 27 gal 102 L Fluid hank 48 gal 182 L Engine lubrication oil w/ filter 13.7 qt 13 L Engine cooling system 24 qt 22.7 L Antifreeze tank 8 gal 30 L Remissions compliance EPA Tier 3 EU Stage IIIA POWER (TIER 4) Engine Cummins QSB4.5 Fluid dameter 2.75 in 70 mm Fluid Diesel Direct Aspiration Direct Aspiration Turbocharged & charge air cooled Number of cylinders 4 Displacement 275 in³ 4.5 L Bore 4.21 in 107 mm Manufacturer's gross power rating 160 hp 119 kW Manufacturer's gross power rating 160 hp 119 kW Rated speed 2,300 rpm Emissions compliance EPA Tier 4 EU Stage IV Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighted and measured. Due to selected options, delivered Flow, max 50 gpm 189 l/min FLUID CAPACITIES Fluid CAPACITIES Flow, max 50 gpm 27 gal 102 L Fleath 48 gal 182 L Engine lubrication oil w/ filter 13.7 qt 13 L Engine Looling wystem 24 qt 22.7 L Antifreeze tank 8 gal 30 L Remain flow 13.9 L Engine cooling system 24 qt 22.7 L Antifreeze tank 8 gal 30 L Remain flow 13.9 L Engine cooling system 24 qt 22.7 L Antifreeze tank 8 gal 30 L Remain flow filter 13.7 qt 13 L Engine cooling system 24 qt 22.7 L Antifreeze tank 8 gal 30 L Remain flow filter 13.7 qt 13 L Engine cooling system 24 qt 22.7 L Antifreeze tank 8 gal 30 L Remain flow filter 13.7 qt 13 L Engine cooling system 24 qt qt 22.7 L Antifreeze tank 8 gal 30 L Remain flow filter in stroke 8 gal remain flow filter 13.7 qt 13 L Engine cooling system 24 qt qt 22.7 L Antifreeze tank 8 gal antifree tank 6 gal quite flow filter 13.7 qt 13 L Engine cooling system 24 qt qt 22.7 L Antifreeze tan	Fuel	Diesel		DRILLING FLUID SYSTEM		
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 compliance EPA Tier 3 EU Stage IIIA POWER (TIER 4) Engine Cooling system 24 dt 22.7 L Engine cooling system 24 dt 22.7 L Antifreeze tank 8 gal 30 L Bergine cooling system 24 dt 22.7 L Antifreeze tank 5 gal 18.9 L POWER PIPE* HD POWER PIPE* H	Cooling medium	Liquid		Pressure, max	1,500 psi	103 bar
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 Engine 2 Cummins QSB4.5 Fuel Diesel D	Injection	Direct		Flow, max	50 gpm	189 l/min
Displacement 275 in ³ 4.5 L Fuel tank 48 gal 182 L	Aspiration	Turbocharged & charge air cooled		FLUID CAPACITIES		
Bore	Number of cylinders	4		Hydraulic reservoir	27 gal	102 L
Stroke 4.88 in 124 mm Manufacturer's gross power rating 148 hp 110 kW Rated speed 2,300 rpm Emissions compliance EPA Tier 3 EU Stage IIIIA POWER (TIER 4) Engine Cummins QSB4.5 Fuel Diesel Diesel Cooling medium Liquid Direct Aspiration Turbocharged & charge air cooled Number of cylinders 4 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 Engise Cummins QSB4.5 Stroke 4.88 in 124 mm Engine cooling system 24 qt 22.7 L Antifreeze tank 8 gal 30 L Diesel exhaust fluid tank 5 gal 18.9 L Ength 118 in 3 m Diesel Cummins QSB4.5 Pipe diameter 2.75 in 70 mm Bend radius, min 123 ft 37.5 m Weight of drill pipe, lined 88 lb 39 kg Weight of drill pipe & large box (44 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Stroke 4.88 in 124 mm Manufacturer's gross power rating 160 hp 119 kW Engine cooling system 24 qt 22.7 L Antifreeze tank 8 gal 30 L POWER PIPE* HD POWER PIPE* HD Power PIPE* HD Ength 118 in 3 m Weight of drill pipe & large box (47 pipe) in ed 88 lb 39 kg Weight of drill pipe & small box (24 pipe) Length 120 in 3.05 m Power PIPE FORGED Ength 120 in 3.05 m Pipe diameter 2.38 in 60 mm Power PIPE Forger 2.38 in 60 mm Sold pipe 3.14 kg Power 2.75 in 70 mm	Displacement	275 in ³	4.5 L	Fuel tank	48 gal	182 L
Manufacturer's gross power rating 148 hp 110 kW Rated speed 2,300 rpm Emissions compliance EPA Tier 3 EU Stage IIIA POWER (TIER 4) Engine Cummins QSB4.5 Fuel Diesel Die	Bore	4.21 in	107 mm	Engine lubrication oil w/ filter	13.7 qt	13 L
Rated speed 2,300 rpm Emissions compliance EPA Tier 3 EU Stage IIIA POWER (TIER 4) Engine Cummins QSB4.5 Fuel Diesel Joint diameter 2.75 in 70 mm Cooling medium Liquid Bendration Direct Aspiration Turbocharged & charge air cooled Number of cylinders 4 Displacement 275 in 3 4.5 L Bore 4.21 in 107 mm Manufacturer's gross power rating 160 hp 119 kW Rated speed 2,300 rpm Emissions compliance EPA Tier 4 EU Stage IV 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 soulcased was a specification of the stage of t	Stroke	4.88 in	124 mm	Engine cooling system	24 qt	22.7 L
Emissions compliance EPA Tier 3 EU Stage IIIA POWER (TIER 4) Engine Cummins QSB4.5 Fuel Diesel Diesel Joint diameter 2.75 in 70 mm Figer Cooling medium Liquid Bend radius, min 123 ft 37.5 m Injection Direct Weight of drill pipe, lined 88 lb 39 kg Weight of drill pipe & large box (48 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Down POWER PIPE FORGED Stroke 4.88 in 124 mm Manufacturer's gross power rating 160 hp 119 kW Emissions compliance EPA Tier 4 EU Stage IV 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 sequirement may not necessarily match that shown. SAE cold crank rating @ 0°F (-18°C) 950 amps	Manufacturer's gross power rating	148 hp	110 kW	Antifreeze tank	8 gal	30 L
Engine Cummins QSB4.5 Fuel Diesel Joint diameter 2.75 in 70 mm Cooling medium Liquid Bend radius, min 123 ft 37.5 m Injection Direct Weight of drill pipe, lined 88 lb 39 kg Number of cylinders 4 Displacement 275 in 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 compliance EPA Tier 4 EU Stage IV 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 sequipment tage and recesserable match but shown.	Rated speed	2,300 rpm		Diesel exhaust fluid tank	5 gal	18.9 L
Engine Cummins QSB4.5 Fuel Diesel Pipe diameter 2.75 in 70 mm Cooling medium Liquid Bend radius, min 123 ft 37.5 m Injection Direct Weight of drill pipe, lined 88 lb 39 kg 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 compliance EPA Tier 4 EU Stage IV 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 agruingment specially measured but shown.	Emissions compliance	EPA Tier 3	EU Stage IIIA	POWER PIPE® HD		
Fuel Diesel Pipe diameter 2.38 in 60 mm Cooling medium Liquid Bend radius, min 123 ft 37.5 m Injection Direct Weight of drill pipe, lined 88 lb 39 kg Aspiration Turbocharged & charge air cooled Number of cylinders 4 Displacement 275 in³ 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 compliance EPA Tier 4 EU Stage IV 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 sequipment may not necessarily mark that shown.	POWER (TIER 4)			Length	118 in	3 m
Cooling medium Liquid Bend radius, min 123 ft 37.5 m Weight of drill pipe, lined 88 lb 39 kg Weight of drill pipe, lined 88 lb 39 kg Weight of drill pipe & large box (48 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Weight of drill pipe & small box (24 pipe) Downer PIPE FORGED Length Joint diameter 2.63 in 66.7 mm Pipe diameter 2.38 in 60 mm Pipe diameter 2.38 in 60 mm Weight of drill pipe 73 lb 33 kg BATTERY SAE reserve capacity rating SAE cold crank rating @ 0°F (-18°C) 950 amps	Engine	Cummins QSB4.5		Joint diameter	2.75 in	70 mm
Injection Direct Aspiration Turbocharged & charge air cooled Number of cylinders Displacement 275 in³ 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 compliance EPA Tier 4 EU Stage IV 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 appropriate to the property of the property	Fuel	Diesel		Pipe diameter	2.38 in	60 mm
Aspiration Turbocharged & charge air cooled Number of cylinders 4 Displacement 275 in³ 4.5 L Bore 4.21 in 107 mm Manufacturer's gross power rating Manufacturer's gross power rating Emissions compliance EPA Tier 4 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 acquirement may not accesserily match that shown.	Cooling medium	Liquid		Bend radius, min	123 ft	37.5 m
Number of cylinders A Displacement 275 in ³ 4.5 L Bore 4.21 in 107 mm Manufacturer's gross power rating Manufacturer's gross power rating Manufacturer's gross power rating Emissions compliance EPA Tier 4 EU Stage IV 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 and ungert may not precessarily match that shown. (48 pipe) Weight of drill pipe & small box (24 pipe) POWER PIPE FORGED Length Joint diameter 2.63 in 66.7 mm Pipe diameter 2.38 in 60 mm Bend radius, min 108.2 ft 33 m Weight of drill pipe 73 lb 33 kg BATTERY SAE reserve capacity rating SAE cold crank rating @ 0°F (-18°C) 950 amps	Injection	Direct		Weight of drill pipe, lined	88 lb	39 kg
Number of cylinders A Displacement 275 in³ 4.5 L Bore 4.21 in 107 mm Stroke 4.88 in 124 mm Manufacturer's gross power rating Manufacturer's gross power rating Manufacturer's gross power rating Emissions compliance EPA Tier 4 EU Stage IV 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 and ungent manufacture are required, equipment manufacture to precessarily match that shown	Aspiration	Turbocharged & charge air cooled			5 204 lb	2361 kg
Displacement 275 in³ 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 compliance EPA Tier 4 EU Stage IV 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 acquirement may not necessarily match that shown.	Number of cylinders	4			3,204 15	2301 Ng
Stroke 4.88 in 124 mm Manufacturer's gross power rating 160 hp 119 kW Rated speed 2,300 rpm Emissions compliance EPA Tier 4 EU Stage IV 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 and uniquent may not necessarily match that shown	Displacement	275 in ³	4.5 L		2,897 lb	1314 kg
Manufacturer's gross power rating 160 hp 119 kW Joint diameter 2.63 in 66.7 mm Rated speed 2,300 rpm Pipe diameter 2.38 in 60 mm Emissions compliance EPA Tier 4 EU Stage IV Bend radius, min 108.2 ft 33 m Weight of drill pipe 73 lb 33 kg BATTERY 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 and uniquent may not necessarily match that shown	Bore	4.21 in	107 mm			
Rated speed 2,300 rpm Pipe diameter 2.38 in 60 mm Emissions compliance EPA Tier 4 EU Stage IV Bend radius, min 108.2 ft 33 m Weight of drill pipe 73 lb 33 kg BATTERY 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 acquirement may not precessarily match that shown	Stroke	4.88 in	124 mm	Length	120 in	3.05 m
Emissions compliance EPA Tier 4 EU Stage IV Bend radius, min Weight of drill pipe 73 lb 33 m Weight of drill pipe 73 lb 33 kg BATTERY 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 acquirement may not precessarily match that shown	Manufacturer's gross power rating	160 hp	119 kW	Joint diameter	2.63 in	66.7 mm
Weight of drill pipe 73 lb 33 kg BATTERY 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 and uncompanied may not precessarily match that shows a companied may not precessarily may	Rated speed	2,300 rpm		Pipe diameter	2.38 in	60 mm
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 and unique to the processorily match that shown	Emissions compliance	EPA Tier 4	EU Stage IV	Bend radius, min	108.2 ft	33 m
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 and unique to the processorily match that shown				Weight of drill pipe	73 lb	33 kg
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 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 SAE cold crank rating @ 0°F (-18°C) 950 amps	Considerations and the second	and the second s		SAE reserve capacity rating	195 min	
equipment may not necessarily match that shown	required, equipment should be weighed and measured. Due to selected options, delivered			, , ,	950 amps	
	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, HD backreamers, drill pipe, and beacon housings, the most reliable and durable in the horizontal directional drilling industry.

Operator sound

Operator sound w/cab



86 dBA 83 dBA