

# JT24 HORIZONTAL DIRECTIONAL DRILL Bigger thinking brought down to size.



40-gpm, 1,200-psi mud pump offers increased fluid course from the mud pump to the swivel, funneling extra horsepower to the bit downhole

can maneuver in urban jobsites with

confidence.3

Fold-out, lift-off doors make it easier for operators to conduct machine maintenance.

equipped with radial operator control (ROC) to highlight the multifunctional controller on the machine display for better controllability.



The evolution of HDD continues with the Ditch Witch® JT24 Directional Drill. Giving you the power and footprint to be the ultimate uptime champ.

Engineered from direct customer feedback, this drill is ideal for urban and residential utility, gas and fiber jobs. Boasting more power in a compact footprint, the JT24 provides 101-gross-hp, 3,000 ft-lbs of torque and 24,000 lbs of thrust and pullback at a size that easily fits in tight jobsites. Plus, its low center of gravity gives operators more stability than competitive units so you can work with confidence.

WE'RE IN THIS TOGETHER.



## JT24 HORIZONTAL DIRECTIONAL DRILL



# ENGINEERED FOR THE JOBSITE. AND THE OPERATORS.



Productive jobs start with productive crews. Which is why the JT24 was engineered with the comfort, technology and industry-leading visibility to keep you successful. It features:

- A wider frame, giving the JT24 more stability than any drill in its class, so operators can maneuver in urban jobsites with confidence.\*
- A simple, field-proven pipe-loading system.
- Two, seven-inch LED screens for better insight into all machine functions.
- A real-time carriage-position indicator giving operators insights into exact carriage position for more productivity.
- Radial operator control (ROC) for improved control and efficiency.

### JT24 HORIZONTAL DIRECTIONAL DRILL SPECIFICATIONS

	U.S.	METRIC
PERATION		
Spindle speed, max	225 rpm	225 rpm
Spindle torque, max	3,000 ft·lb	4,076 N⋅m
Carriage thrust travel speed	210 fpm	64 m/min
Carriage pullback travel speed	216 fpm	66 m/min
Thrust force	24,000 lb	107 kN
Pullback force	24,000 lb	107 kN
Ground travel speed		
Forward	2.8 mph	4.5 km/h
Reverse	2.8 mph	4.5 km/h
OWER		
Engine	Cummins® F3.8	
Fuel	Diesel	
Cooling medium	Liquid	
Injection	Direct	
Aspiration		charge air cooled
	4	charge all cooled
Number of cylinders	•	2.0.1
Displacement	231.89 in <sup>3</sup>	3.8 L
Bore	4.02 in	102 mm
Stroke	4.53 in	115 mm
Gross horsepower Tier 3/Tier 4	101 hp	
Rated speed Tier 3/Tier 4	2,200 rpm	
Emissons compliance Tier 3	EPA Tier 3	EU Stage IIIA
Emissions compliance Tier 4	EPA Tier 4	EU Stage V
IMENSIONS		
Transport length	224.5 in	5.7 m
Width	65.25 in	1.66 m
Transport height	83 in	2.11 m
Weight	14,850 lb	6736 kg
Ground clearance	5.8 in	147 mm
Entry angle	18°	18°
, ,		
Entry angle, tracks on ground	12°	12°

FLUID CAPACITIES           Fuel tank         32 gal         121 L           Engine lubrication oil w/filter         15.4 qt         14.6 L           Hydraulic reservoir         18.75 gal         71 L           Engine cooling system         20 qt         18.9 L           Antifreeze tank         5 gal         18.9 L           Diesel exhaust fluid tank         5 gal         18.9 L           POWER PIPE® HD           Length         120 in         3.05 m           Joint diameter         2.625 in         66.7 mn           Pipe diameter         2.25 in         57.15 m           Bend radius, min         117 ft         35.66 m           Weight of drill pipe, lined         72.5 lb         32.89 kg           Weight of lined drill pipe & large box         (40 pipe)         2,675 lb         1612.5 l           POWER PIPE FORGED         2,675 lb         1213 kg           POWER PIPE FORGED         120 in         3.05 m           Joint diameter         2.63 in         66.7 mn           Pipe diameter         2.375 in         63.5 mn           Bend radius, min         123 ft         35 m           Weight per drill pipe         74 lb         33.5 kg		U.S.	METRI
Flow, max  FLUID CAPACITIES  Fuel tank  Sagal  Engine lubrication oil w/filter  Hydraulic reservoir  Engine cooling system  Engine cooling system  Antifreeze tank  Diesel exhaust fluid tank  POWER PIPE® HD  Length  Joint diameter  Bend radius, min  Weight of drill pipe, lined  (28 pipe)  POWER PIPE FORGED  Length  Length  Length  Length  Length  Louin  Bend radius, min  117 ft  35.66 m  2,675 lb  1213 kg  POWER PIPE FORGED  Length  Joint diameter  2.63 in  66.7 mn  120 in  3.05 m  1213 kg  POWER PIPE FORGED  Length  Leng	DRILLING FLUID SYSTEM (ONBOARD)		
FLUID CAPACITIES  Fuel tank  Engine lubrication oil w/filter  15.4 qt  14.6 L  Hydraulic reservoir  Engine cooling system  20 qt  Antifreeze tank  5 gal  Diesel exhaust fluid tank  POWER PIPE® HD  Length  Joint diameter  2.625 in  Bend radius, min  Weight of drill pipe, lined  (28 pipe)  POWER PIPE FORGED  Length  120 in  3.05 m  3.05 m  3.05 m  3.05 m  4.0 pipe  3,555 lb  1612.5 lb  1213 kg  POWER PIPE FORGED  Length  120 in  3.05 m  3.05 m  3.05 m  3.05 m  4.0 pipe)  Weight of lined drill pipe & large box  (40 pipe)  Weight of lined drill pipe as small box  (28 pipe)  POWER PIPE FORGED  Length  120 in  3.05 m  3.05 m  3.05 m  And in defined drill pipe  4 lb  33.5 kg  Weight w/drill pipe  4 lb  33.5 kg  Weight w/drill pipe & small box  (28 pipe)  Weight w/drill pipe & large box  (40 pipe)  Weight w/drill pipe & small box  (28 pipe)  SAE reserve capacity rating  SAE cold crank rating @ 0°F (-18°C)  NOISE LEVEL  Operator sound  83 dBA	Pressure, max	1,200 psi	83 bar
Fuel tank  Engine lubrication oil w/filter  Hydraulic reservoir  Engine cooling system  Engine cooling system  Engine cooling system  Antifreeze tank  Diesel exhaust fluid tank  Fuel tangth  Joint diameter  Pipe diameter  Bend radius, min  Weight of lined drill pipe & large box (28 pipe)  Weight w/drill pipe & large box (40 pipe)  Length  Joint diameter  Power PIPE FORGED  Length  Length	Flow, max	40 gpm	151 L/mi
Engine lubrication oil w/filter 15.4 qt 14.6 L Hydraulic reservoir 18.75 gal 71 L Engine cooling system 20 qt 18.9 L Antifreeze tank 5 gal 18.9 L Diesel exhaust fluid tank 5 gal 18.9 L  POWER PIPE® HD  Length 120 in 3.05 m Joint diameter 2.625 in 66.7 mn Pipe diameter 2.25 in 57.15 m Bend radius, min 117 ft 35.66 m Weight of drill pipe, lined 72.5 lb 32.89 kg Weight of lined drill pipe & large box (40 pipe)  Weight of lined drill pipe & small box (28 pipe)  POWER PIPE FORGED  Length 120 in 3.05 m Joint diameter 2.63 in 66.7 mn Pipe diameter 2.375 in 63.5 mn Bend radius, min 123 ft 35 m Weight per drill pipe & large box (40 pipe) 3,635 lb 1649 kg Weight w/drill pipe & large box (40 pipe) 3.5 kg Weight w/drill pipe & large box (40 pipe) 3.635 lb 1649 kg Weight w/drill pipe & large box (40 pipe) 3.635 lb 1649 kg Weight w/drill pipe & small box (28 pipe)  BATTERY (2 USED) SAE reserve capacity rating 110 min SAE cold crank rating @ 0°F (-18°C) 800 amps  NOISE LEVEL Operator sound 83 dBA	FLUID CAPACITIES		
Hydraulic reservoir  Engine cooling system  20 qt  18.9 L  Antifreeze tank  5 gal  18.9 L  Diesel exhaust fluid tank  5 gal  18.9 L  POWER PIPE® HD  Length  Joint diameter  2.625 in  66.7 mn  Pipe diameter  2.25 in  57.15 m  Bend radius, min  117 ft  35.66 m  Weight of lined drill pipe & large box (40 pipe)  Weight of lined drill pipe & small box (28 pipe)  POWER PIPE FORGED  Length  120 in  3.05 m  2,675 lb  1213 kg  POWER PIPE FORGED  Length  120 in  3.05 m  Joint diameter  2.63 in  66.7 mn  Pipe diameter  2.70 lb  3.5 kg  Weight w/drill pipe & large box (40 pipe)  Weight w/drill pipe & large box (40 pipe)  Weight w/drill pipe & large box (40 pipe)  Weight w/drill pipe & small box (28 pipe)  SAE reserve capacity rating SAE cold crank rating @ 0°F (-18°C)  NOISE LEVEL  Operator sound  83 dBA	Fuel tank	32 gal	121 L
Engine cooling system  Antifreeze tank Diesel exhaust fluid tank  POWER PIPE® HD  Length Joint diameter Pipe diameter Bend radius, min Weight of drill pipe, lined Weight of lined drill pipe & large box (40 pipe) Weight of lined drill pipe & small box (28 pipe)  POWER PIPE FORGED  Length L	Engine lubrication oil w/filter	15.4 qt	14.6 L
Antifreeze tank Diesel exhaust fluid tank Diesel exhaust fluid tank  POWER PIPE® HD  Length Joint diameter 2.625 in Bend radius, min Weight of drill pipe, lined Weight of lined drill pipe & large box (40 pipe) Weight of lined drill pipe & small box (28 pipe)  POWER PIPE FORGED  Length Joint diameter 2.63 in Bend radius, min 2.63 in Bend radius, min 3.05 m 4.00 in 3.05 m 3.05 m 3.05 m 4.00 in 4.00 i	Hydraulic reservoir	18.75 gal	71 L
Diesel exhaust fluid tank  POWER PIPE® HD  Length  Length  Joint diameter  Pipe diameter  Pipe diameter  Bend radius, min  Weight of drill pipe, lined  Weight of lined drill pipe & large box (40 pipe)  Weight of lined drill pipe & small box (28 pipe)  POWER PIPE FORGED  Length  Joint diameter  2.375 in  Bend radius, min  123 ft  35 m  Weight per drill pipe  Veight widrill pipe & large box (40 pipe)  Sala 18.9 L  120 in 3.05 m  1213 kg  1224 kg  1234 kg  1234 kg  1234 kg  1234 kg  1234 kg  1335 kg  134 kg  135 kg  1449 kg  1440 kg  1540 kg  1541 kg  1542 kg  1543 kg  1544 kg  1544 kg  1545 kg  1545 kg  1546 kg  1546 kg  1547 kg  1548 k	Engine cooling system	20 qt	18.9 L
POWER PIPE® HD  Length	Antifreeze tank	5 gal	18.9 L
Length	Diesel exhaust fluid tank	5 gal	18.9 L
Joint diameter 2.625 in 66.7 mm Pipe diameter 2.25 in 57.15 m Bend radius, min 117 ft 35.66 m Weight of drill pipe, lined 72.5 lb 32.89 kg Weight of lined drill pipe & large box (40 pipe) 3,555 lb 1612.5 lb Weight of lined drill pipe & small box (28 pipe)  POWER PIPE FORGED  Length 120 in 3.05 m Joint diameter 2.63 in 66.7 mm Pipe diameter 2.375 in 63.5 mm Bend radius, min 123 ft 35 m Weight per drill pipe & large box (40 pipe) 3,635 lb 1649 kg Weight w/drill pipe & large box (40 pipe) 3,635 lb 1649 kg  Weight w/drill pipe & small box (28 pipe)  BATTERY (2 USED)  SAE reserve capacity rating 110 min SAE cold crank rating @ 0°F (-18°C) 800 amps  NOISE LEVEL Operator sound 83 dBA	POWER PIPE® HD		
Pipe diameter       2.25 in       57.15 m         Bend radius, min       117 ft       35.66 m         Weight of drill pipe, lined       72.5 lb       32.89 kg         Weight of lined drill pipe & large box (40 pipe)       3,555 lb       1612.5 lb         Weight of lined drill pipe & small box (28 pipe)       2,675 lb       1213 kg         POWER PIPE FORGED         Length       120 in       3.05 m         Joint diameter       2.63 in       66.7 mn         Pipe diameter       2.375 in       63.5 mn         Bend radius, min       123 ft       35 m         Weight per drill pipe       74 lb       33.5 kg         Weight w/drill pipe & large box (40 pipe)       3,635 lb       1649 kg         Weight w/drill pipe & small box (28 pipe)       2,720 lb       1234 kg         BATTERY (2 USED)         SAE reserve capacity rating SAE cold crank rating @ 0°F (-18°C)       800 amps         NOISE LEVEL       Operator sound       83 dBA	Length	120 in	3.05 m
Bend radius, min  Weight of drill pipe, lined  Weight of lined drill pipe & large box (40 pipe)  Weight of lined drill pipe & small box (28 pipe)  POWER PIPE FORGED  Length  Joint diameter  Pipe diameter  Bend radius, min  Weight per drill pipe  Weight w/drill pipe & large box (40 pipe)  Weight w/drill pipe  Weight w/drill pipe & large box (40 pipe)  Weight w/drill pipe & small box (28 pipe)  Weight w/drill pipe & large box (40 pipe)  Weight w/drill pipe & small box (28 pipe)  SAE reserve capacity rating SAE cold crank rating @ 0°F (-18°C)  NOISE LEVEL  Operator sound  3.55 lb  1612.5 lb 1	Joint diameter	2.625 in	66.7 mm
Weight of drill pipe, lined  Weight of lined drill pipe & large box (40 pipe)  Weight of lined drill pipe & small box (28 pipe)  POWER PIPE FORGED  Length Joint diameter 2.63 in 66.7 mn Pipe diameter 2.375 in 63.5 mn Bend radius, min 123 ft 35 m  Weight per drill pipe 74 lb 33.5 kg Weight w/drill pipe & large box (40 pipe)  Weight w/drill pipe & small box (28 pipe)  Weight w/drill pipe & small box (28 pipe)  BATTERY (2 USED)  SAE reserve capacity rating SAE cold crank rating @ 0°F (-18°C)  NOISE LEVEL Operator sound  3,555 lb 1612.5 l 1612.5 l 32.89 kg 1612.5 l 16	Pipe diameter	2.25 in	57.15 mr
Weight of lined drill pipe & large box (40 pipe)  Weight of lined drill pipe & small box (28 pipe)  POWER PIPE FORGED  Length 120 in 3.05 m  Joint diameter 2.63 in 66.7 mn  Pipe diameter 2.375 in 63.5 mn  Bend radius, min 123 ft 35 m  Weight per drill pipe 74 lb 33.5 kg  Weight w/drill pipe & large box (40 pipe)  Weight w/drill pipe & small box (28 pipe)  BATTERY (2 USED)  SAE reserve capacity rating 110 min  SAE cold crank rating @ 0°F (-18°C) 800 amps  NOISE LEVEL  Operator sound 83 dBA	Bend radius, min	117 ft	35.66 m
(40 pipe)       3,555 lb       1612.5 lb         Weight of lined drill pipe & small box (28 pipe)       2,675 lb       1213 kg         POWER PIPE FORGED         Length       120 in       3.05 m         Joint diameter       2.63 in       66.7 mn         Pipe diameter       2.375 in       63.5 mn         Bend radius, min       123 ft       35 m         Weight per drill pipe       74 lb       33.5 kg         Weight w/drill pipe & large box (40 pipe)       3,635 lb       1649 kg         Weight w/drill pipe & small box (28 pipe)       2,720 lb       1234 kg         BATTERY (2 USED)         SAE reserve capacity rating SAE cold crank rating @ 0°F (-18°C)       800 amps         NOISE LEVEL       Operator sound       83 dBA	Weight of drill pipe, lined	72.5 lb	32.89 kg
1215 kg		3,555 lb	1612.5 k
Length       120 in       3.05 m         Joint diameter       2.63 in       66.7 mn         Pipe diameter       2.375 in       63.5 mn         Bend radius, min       123 ft       35 m         Weight per drill pipe       74 lb       33.5 kg         Weight w/drill pipe & large box (40 pipe)       3,635 lb       1649 kg         Weight w/drill pipe & small box (28 pipe)       2,720 lb       1234 kg         BATTERY (2 USED)         SAE reserve capacity rating SAE cold crank rating @ 0°F (-18°C)       800 amps         NOISE LEVEL         Operator sound       83 dBA		2,675 lb	1213 kg
Joint diameter 2.63 in 66.7 mm Pipe diameter 2.375 in 63.5 mm Bend radius, min 123 ft 35 m Weight per drill pipe 74 lb 33.5 kg Weight w/drill pipe & large box (40 pipe) 3,635 lb 1649 kg Weight w/drill pipe & small box (28 pipe)  BATTERY (2 USED) SAE reserve capacity rating 110 min SAE cold crank rating @ 0°F (-18°C) 800 amps  NOISE LEVEL Operator sound 83 dBA	POWER PIPE FORGED		
Pipe diameter 2.375 in 63.5 mn  Bend radius, min 123 ft 35 m  Weight per drill pipe 74 lb 33.5 kg  Weight w/drill pipe & large box (40 pipe) 3,635 lb 1649 kg  Weight w/drill pipe & small box (28 pipe) 2,720 lb 1234 kg  BATTERY (2 USED)  SAE reserve capacity rating 110 min  SAE cold crank rating @ 0°F (-18°C) 800 amps  NOISE LEVEL  Operator sound 83 dBA	Length	120 in	3.05 m
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Weight per drill pipe 74 lb 33.5 kg Weight w/drill pipe & large box (40 pipe) 3,635 lb 1649 kg Weight w/drill pipe & small box (28 pipe) 2,720 lb 1234 kg  BATTERY (2 USED) SAE reserve capacity rating 110 min SAE cold crank rating @ 0°F (-18°C) 800 amps  NOISE LEVEL Operator sound 83 dBA	Pipe diameter	2.375 in	63.5 mm
Weight w/drill pipe & large box (40 pipe)  Weight w/drill pipe & small box (28 pipe)  BATTERY (2 USED)  SAE reserve capacity rating 110 min  SAE cold crank rating @ 0°F (-18°C) 800 amps  NOISE LEVEL  Operator sound 83 dBA	Bend radius, min	123 ft	35 m
(40 pipe)  Weight w/drill pipe & small box (28 pipe)  BATTERY (2 USED)  SAE reserve capacity rating SAE cold crank rating @ 0°F (-18°C)  NOISE LEVEL  Operator sound  3,033 ID 1049 kg 2,720 lb 1234 kg 800 amps 800 amps	Weight per drill pipe	74 lb	33.5 kg
(28 pipe)  BATTERY (2 USED)  SAE reserve capacity rating 110 min  SAE cold crank rating @ 0°F (-18°C) 800 amps  NOISE LEVEL  Operator sound 83 dBA		3,635 lb	1649 kg
SAE reserve capacity rating 110 min  SAE cold crank rating @ 0°F (-18°C) 800 amps  NOISE LEVEL  Operator sound 83 dBA		2,720 lb	1234 kg
SAE cold crank rating @ 0°F (-18°C) 800 amps  NOISE LEVEL  Operator sound 83 dBA	BATTERY (2 USED)		
NOISE LEVEL Operator sound 83 dBA	SAE reserve capacity rating	110 min	
Operator sound 83 dBA	SAE cold crank rating @ 0°F (-18°C)	800 amps	
41.000	NOISE LEVEL		
Exterior sound power 101 dBA	Operator sound	83 dBA	
	Exterior sound power	101 dBA	



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.

\*Stability claim based on lab test of competitive equipment.





#### 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 FM5X or FM13X, 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**

Featuring an innovative, low-profile design that doesn't sacrifice power or ground clearance, our hydro excavation line of vacs delivers unrivaled versatility and performance.



#### TRAINING

Your Ditch Witch HDD system comes with more than just equipment. It comes with the training to keep your crews confident and efficient, with courses online, in-the-classroom and even on-the-job from certified industry pros.



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