



DITCH WITCH JT922, JT520

DIRECTIONAL DRILLS

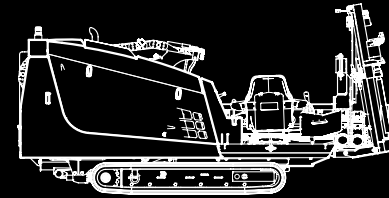


C'MON, EARTH, IS THAT ALL YOU GOT? **DITCH WITCH.**



DITCH WITCH JT922

You wanted a machine that combines the easy operation of smaller drills with advanced features other drills its size only dream of, like a heavy-duty anchor system, open-top vise wrenches, and an integrated remote display. You also wanted it all in an affordable package that's easy to haul. Now you have it.



SPECIFICATIONS

DIMENSIONS	U.S.	METRIC
Length	146 in	3.71 m
Height	74 in	1.88 m
Width	48 in	1.22 m



KEY FEATURES

- A full 12 in (300 mm) shorter than any other drill in its class, for easy setup in tight spaces.
- Operator is positioned near the center of the pipe rack, for easy pipe handling; seat slides fore and aft so pipe is easy to reach.
- Field-proven rack-and-pinion thrust drive with welded-on double rack, for low maintenance and reliability.
- Best-in-class carriage speed, for faster cycle times and more pipe in the ground.
- Holds 300 ft (90 m) of pipe on board—up to double that of the competition—so you can finish virtually any job.
- (Photograph A) Open-top vise wrenches are angled toward the operator for an excellent view of the tool joint, and they require no daily maintenance.
- Small jobsites demand maneuverability, and the JT922 is easy to move, easy to turn, and rides on turf-friendly tracks for less surface disturbance.
- (Photograph B) Easy maintenance, with no grease zerks and all regular service points located under an easy-to-remove side panel.
- High-performance, 54-hp (40 kW) Deutz diesel engine is air-cooled and quiet, for easy maintenance and longer operation.

DITCH WITCH JT520

When you find yourself in a tight space with a tight deadline, the JT520 is your HDD solution. Bury service wire and pull up to two-inch (50 mm) diameter conduit up to 150 feet (46 m), then head to the next job—no costly restoration of lawns, streets, or sidewalks. All components of the rugged, efficient JT520 are part of a comprehensive drilling system designed to work together, so you can get big-time production from this little powerhouse.



KEY FEATURES

- Rubber tracks are easy on sidewalks, asphalt and established turf. Single-auger anchoring system minimizes impact on lawns.

- (Photograph A) Compact and maneuverable, the JT520 can be transported with a 3/4-ton pickup and fit through a 36-inch (910 mm) yard gate; ideal for shallow product installations in congested locations.

- Rugged construction for even the most demanding short-range installations.

- 117-inch (2.97 m) length allows street setup without blocking traffic.

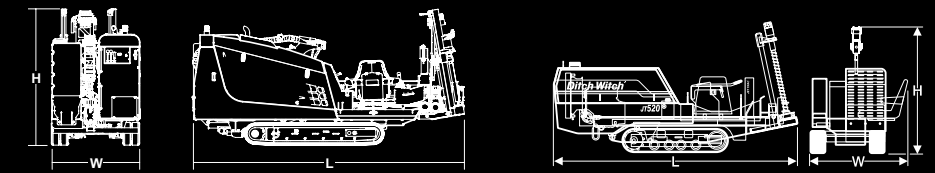
- (Photograph B) Pipe is designed, built and tested by Ditch Witch® engineers and manufacturing specialists for maximum performance with the JT520; 70-foot (21.3 m) bend radius

allows the operator to make shallow installations without exceeding pipe capabilities.

- Single-handle control operates both thrust/pullback and rotation with variable speed for all functions; operation requires only a tracking equipment operator and a seated drilling operator.

- Convenient pedal-operated lubrication system helps maximize the life of pipe joints and increase productivity.

- At only 3150 lb (1430 kg), it's not intrusive to soft or irrigated lawns.



SPECIFICATIONS

JT922

JT520

DIMENSIONS	U.S.	METRIC	U.S.	METRIC
L OVERALL MACHINE LENGTH*	146 IN	3.71 M	117 IN	2.97 M
W OVERALL MACHINE WIDTH*	48 IN	1.22 M	35.5 IN	902 MM
OVERALL MACHINE WIDTH (WITH LARGE DRILLING FLUID PUMP)	49 IN	1.24 M	N/A	
H OVERALL MACHINE HEIGHT*	74 IN	1.88 M	66.5 IN	1.69 M
DRILLING UNIT OPERATING MASS*	7050 LB	3200 KG	3150 LB	1430 KG
ENTRY ANGLE*	10°-14°		11°-16°	
ANGLE OF APPROACH	18°		18°	
ANGLE OF DEPARTURE	18°		18°	
POWER PIPE				
LENGTH OF DRILL PIPE, NOMINAL*	72 IN	1.83 M	59 IN	1.5 M
DIAMETER OF DRILL PIPE, TOOL JOINT END*	2 IN	50.8 MM	1.75 IN	44.5 MM
DIAMETER OF DRILL PIPE*	1.58 IN	40.1 MM	1.1 IN	28 MM
BEND RADIUS, MIN*	105 FT	32 M	70 FT	21.3 M
WEIGHT OF DRILL PIPE, LINED*	29 LB	13 KG	16 LB	7.25 KG
OPERATION				
SPINDLE SPEED, MAX.*	186 RPM		195 RPM	
SPINDLE TORQUE, MAX.*	1100 FT•LB	1490 N•M	500 FT•LB	678 N•M
CARRIAGE THRUST TRAVEL SPEED*	188 FPM	57 M/MIN	142 FPM	43.3 M/MIN
CARRIAGE PULLBACK TRAVEL SPEED*	188 FPM	57 M/MIN	142 FPM	43.3 M/MIN
THRUST FORCE*	9000 LB	40 KN	4500 LB	20 KN
PULLBACK FORCE*	9000 LB	40 KN	5000 LB	22.2 KN
BORE DIAMETER	3 IN	76 MM	2.5 IN	63.5 MM
BACKREAM DIAMETER	SOIL DEPENDENT		4 IN	102 MM
GROUND TRAVEL SPEED, MAX.*				
FORWARD	2.3 MPH	3.7 KM/H	1.53 MPH	2.46 KM/H
REVERSE	2.3 MPH	3.7 KM/H	1.53 MPH	2.46 KM/H
POWER				
ENGINE	DEUTZ F4L2011		KUBOTA D1105-T-E3B	
FUEL	DIESEL		DIESEL	
COOLING MEDIUM	INTEGRATED OIL		LIQUID	
INJECTION	DIRECT		INDIRECT	
ASPIRATION	NATURAL		TURBOCHARGED	
CYLINDERS	4		3	
DISPLACEMENT	189 IN ³	3.1 L	68.6 IN ³	1.12 L
BORE	3.7 IN	94 MM	3.07 IN	78 MM
STROKE	4.4 IN	112 MM	3.09 IN	78.5 MM
MANUFACTURER'S NET POWER RATING	53.5 HP	39.9 KW	N/A	
MANUFACTURER'S GROSS POWER RATING**	N/A		32.8 HP	24.5 KW
RATED SPEED	2300 RPM		3000 RPM	
EMISSIONS COMPLIANCE	EPA TIER 4i, EU STAGE IIIA		EPA TIER 4i, EU STAGE IIIA	
DRILLING FLUID SYSTEM (ONBOARD)				
DRILLING FLUID PRESSURE, MAX.*	750 PSI	52 BAR	500 PSI	34.5 BAR
DRILLING FLUID FLOW, MAX.*	9 GPM	34 L/MIN	5 GPM	18.9 L/MIN
DRILLING FLUID FLOW, MAX. (LARGE PUMP)*	13 GPM	49 L/MIN	N/A	
FLUID TANK CAPACITY	40 GAL	150 L	N/A	
FLUID CAPACITIES				
HYDRAULIC RESERVOIR	18 GAL	68 L	8 GAL	30 L
FUEL TANK	19 GAL	72 L	10 GAL	38 L
BATTERY				
SAE RESERVE CAPACITY RATING	165 MIN		85 MIN	
SAE COLD CRANK RATING @ 0° F (-18° C)	875 AMPS		525 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. CONTAINS PATENTED FEATURES. *CALLED OUT ACCORDING TO SAE J2022 **CALLED OUT ACCORDING TO SAE J1995



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