DITCH WITCH 410SX, 255SX, 100SX BRITCH PLOST STATE OF THE PROPERTY OF THE PR



FEEL THE EARTH MOVE. **DITCH WITCH.**





DITCH WITCH 410SX PLOW

Nothing gets down and dirty like the Ditch Witch® 410sx, the most outstanding articulated-steer vibratory drop plow in the 30-hp (22 kW) class. With dozens of innovative features, including a plow vibrator with automatic blade centering, the 410sx quickly and efficiently gets to the bottom of things, installing communication lines, natural gas and water services, or a complete underground sprinkler system without digging a trench. But if it's a trench you need, the 410sx can dig it.







DETAILS

Easily accessible, easy-to-understand, color-coded controls; one lever controls ground speed, direction and steering.

When attachment or ground drive is engaged, operator-presence system stops the engine if operator releases the control.

Plow trolley automatically centers itself when the plow blade is raised from the ground while plowing or trenching; a manual lock secures the trolley during transport.

Optional front-mounted trencher attachment works as hard as many dedicated trenchers.

Centerline digging attachment features an auger for fast spoils removal.

Powerful four-cylinder, indirect-injection, liquid-cooled diesel engine.

Engine is enclosed for quiet operation, and vibration-isolated to reduce operator fatigue.

KEY FEATURES

Articulated-frame steering enables the 410sx to maneuver around trees and other obstacles.

Oscillating rear axle allows fourwheel drive to provide excellent traction.

Direct hydrostatic ground, plow and trencher drives require no chain adjustments.

Pin joint bushings require no lubrication.

DITCH WITCH 255SX/100SX PLOWS

The Ditch Witch 255sx and 100sx do more than stand their ground against the competition. With a powerful, durable frame, the 255sx was built, tested and proven to provide outstanding productivity, efficiency, and reliability. The 100sx features high-flotation tires that give you all the traction you need without manhandling the turf, and its Honda engine gives you the necessary power without assaulting your ears. Both units keep noise and vibration where they belong—below the surface.







KEY FEATURES

Versatile plow blade can bury pipe and cable with cover of 6, 8, 10 or 12 inches (150, 200, 250 or 305 mm).

Compact size allows access through a standard yard gate.

DETAILS

Designed to install power and communications lines up to one inch (25 mm) in diameter and natural gas, water service and sprinkler systems up to three inches (76 mm) in diameter (up to 0.75 inch/19 mm for the 100sx).

All controls are accessible from the operator's position for easy operation.

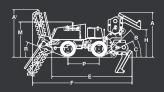
Self-propelled design for better maneuverability.

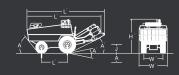
Feed and pull blades available for installing cable, pipe, and other material.

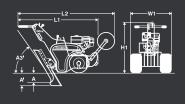
Hydrostatic ground drive provides greater traction, maneuverability, and durability.

Minimal maintenance requirements; easy access to service points.

The Ditch Witch organization supports all of its products with superior-quality parts, service and training, all available from a worldwide network of Ditch Witch dealers.







SPECIFICATIONS	410SX		255 S X		100SX	
DIMENSIONS	U.S.	METRIC	U.S.	METRIC	U.S.	METRIC
TRANSPORT HEIGHT						
TOP OF RAISED PLOW TOP OF 2' BOOM & CHAIN	58 IN	1.47 M	N/A	N/A	N/A	N/A
ANGLE OF DEPARTURE,	62 IN	1.58 M	N/A	N/A	N/A	N/A
W/O BLADE	42°	42°	40°	40°	50°	50°
W/18-IN (460 MM) BLADE	19°	19°	N/A	N/A	N/A	N/A
W/12-IN (305 MM) BLADE	N/A	N/A	17°	17°	N/A	N/A
MAXIMUM LENGTH PLOWING, W/O TRENCHING ATTACHMENT	120 IN	3.05 M	N/A	N/A	N/A	N/A
W/TRENCHING ATTACHMENT	160 IN	4.06 M	N/A	N/A	N/A	N/A
W/O REEL CARRIER	120 IN	3.05 M	94 IN	2.39 M	N/A	N/A
TRANSPORT LENGTH						
W/ TRENCHING ATTACHMENT, 36" BOOM, 18" BLADE	183 IN	4.65 M	N/A	N/A	N/A	N/A
W/O REEL CARRIER	N/A	N/A	95 IN	2.41 M	N/A	N/A
MAXIMUM LENGTH,	,				,	
W/O REEL CARRIER	N/A	N/A	N/A	N/A	67 IN	1.70 M
W/ REEL CARRIER WIDTH, TRANSPORT	N/A	N/A	N/A	N/A	86.5 IN	2.20 M
23 X 10.50-12 TIRES	36 IN	910 MM	35.8 IN	910 MM	35 IN	889 MM
26 X 12.00-12 TIRES	44.5 IN	1.13 M	N/A	N/A	N/A	N/A
23 X 10.50-12 DUAL WHEELS	56 IN	1.42 M	N/A	N/A	N/A	N/A
MAXIMUM COVER DEPTH* OPERATING HEIGHT	24 IN 51 IN	610 MM 1.30 M	18 IN 46 IN	340 MM 1.17 M	12 IN 40 IN	305 MM 1.02 M
WHEELBASE	46 IN	1.17 M	34 IN	860 MM	N/A	N/A
ANGLE OF APPROACH	36°	36°	53°	53°	37°	37°
W/TRENCHING ATTACHMENT	18°	18°	N/A	N/A	N/A	N/A
W/25-IN (635 MM) REEL	23°	23°	28°	28°	N/A	N/A
OPERATION						
MAXIMUM SPEED FORWARD						
26 X 12.00-12 TIRES	2.4 MPH	3.9 KM/H	N/A	N/A	N/A	N/A
23 X 10.50-12 TIRES MAXIMUM SPEED REVERSE	2.2 MPH	3.5 KM/H	215 FPM	65.5 M/MIN	N/A	N/A
26 X 12.00-12 TIRES	1.3 MPH	2.1 KM/H	N/A	N/A	N/A	N/A
23 X 10.50-12 TIRES	1.0 MPH	1.6 KM/H	215 FPM	65.5 M/MIN	N/A	N/A
MAXIMUM CROWD FORWARD	N/A	N/A	83 FPM	25.5 M/MIN	92 FPM 92 FPM	28.0 M/MIN
MAXIMUM CROWD REVERSE MAXIMUM PIPE OR CABLE DIAMETER	N/A	N/A	83 FPM	25.5 M/MIN	92 FFM	28.0 M/MIN
PULL-TYPE PLOW BLADE	3 IN	75 MM	3 IN	75 MM	0.75 IN	19 MM
FEED-TYPE PLOW BLADE	1 IN	25 MM	1 IN	25 MM	0.38 IN	9 MM
VEHICLE CLEARANCE CIRCLE,						
WALL-TO-WALL (SAE) AXLE LOCKED, DRIVE	N/A	N/A	26 FT	7.93 M	70 IN	1.79 M
AXLE UNLOCKED, DRIVE	N/A	N/A	16.5 FT	5.03 M	N/A	N/A
WITH TRENCHING ATTACHMENT						
AND 18" PLOW BLADE	04 FT	C (O M	AL /A	NI /A	NI /A	NI /A
26 X 12.00-12 TIRES 23 X 10.50-12 TIRES	21 FT 20 FT	6.40 M 6.10 M	N/A N/A	N/A N/A	N/A N/A	N/A N/A
OPERATING WEIGHT,			,	.,	.,	.,,
BASIC UNIT W/O PLOW BLADE	3310 LB	1501 KG	1650 LB	748 KG	720 LB	327 KG
H400 WEIGHT W/O BOOM, CHAIN, OR RESTRAINT BAR	310 LB	141 KG	N/A	N/A	N/A	N/A
REEL CARRIER WEIGHT W/O REEL	100 LB	45 KG	28 LB	13 KG	N/A	N/A
HYDRAULIC MOTOR, DRILLING					,	,
MAX TORQUE	450 FT∙LB	610 N•M	421 FT∙LB	571 N•M	N/A	N/A
MAX SPEED	235 RPM	235 RPM	139 RPM	139 RPM	N/A	N/A

SPECIFICATIONS	41USX	255SX	100SX	
POWER ENGINE FUEL COOLING MEDIUM INJECTION ASPIRATION NUMBER OF CYLINDERS	U.S. METRIC CATERPILLAR 3013C DIESEL LIQUID INDIRECT NATURAL 3	U.S. METRIC HONDA GX670 GASOLINE AIR N/A NATURAL 2	U.S. METRIC HONDA GX340 GASOLINE AIR N/A NATURAL 1	
DISPLACEMENT BORE STROKE MANUFACTURER'S GROSS POWER	91.5 IN ³ 1.5 L 3.31 IN 84 MM 3.54 IN 90 MM	40.9 IN ³ 670 CM ³ 3.03 IN 77 MM 2.83 IN 72 MM	20.6 IN ³ 337 CM ³ 3.23 IN 82 MM 2.52 IN 64 MM	
RATING (SAE J1995) RATED SPEED ESTIMATED NET POWER RATING (SAE J1349)	31.4 HP 23.4 KW 2600 RPM 2600 RPM 29 HP 22 KW	24 HP 17.6 KW 3600 RPM 3600 RPM N/A N/A	11 HP 8.2 KW 3600 RPM 3600 RPM N/A N/A	
POWER TRAIN GROUND DRIVE TRANSMISSION	HYDROSTATIC DRIVE, INFINITELY VARIABLE FROM ZERO TO MAXIMUM, LEVER-OPERATED SPEED/DIRECTION CONTROL	HYDROSTATIC DRIVE, INFINITELY VARIABLE FROM ZERO TO MAXIMUM, LEVER-OPERATED SPEED/DIRECTION CONTROL	HYDROSTATIC, INFINITELY VARIABLE FORWARD AND REVERSE, 3:1 CHAIN DRIVE FROM MOTOR TO AXLE	
DIFFERENTIALS BRAKE SERVICE	DANA 44, LIMITED SLIP GROUND DRIVE SPEED/DIRECTION CONTROL BRAKES MACHINE HYDRAULICALLY WHEN MOVED TO NEUTRAL POSITION	N/A GROUND DRIVE SPEED/DIRECTION CONTROL BRAKES MACHINE HYDRAULICALLY WHEN MOVED TO NEUTRAL POSITION	N/A	
PARKING TIRES	DISC, HAND-OPERATED	DISC, HAND-OPERATED	N/A	
23 X 10.50-12 26 X 12.00-12 16 X 6.50-8 18 X 11.00-8	20 PSI 138 KPA 20 PSI 138 KPA N/A N/A N/A N/A	20 PSI 138 KPA N/A N/A 28 PSI 193 KPA N/A N/A	N/A N/A N/A N/A 28 PSI 193 KPA 7 PSI 48 KPA	
HYDRAULIC SYSTEM GROUND DRIVE PUMP CAPACITY ATTACHMENT PUMP CAPACITY AUXILIARY PUMP CAPACITY AUXILIARY RELIEF VALVE GROUND DRIVE CAPACITY WHILE PLOWING GROUND DRIVE RELIEF VALVE ATTACHMENT RELIEF VALVE	17 GPM 64.4 L/MIN 19 GPM 71.9 L/MIN 8 GPM 30.3 L/MIN 2000 PSI 138 BAR N/A N/A 4000 PSI 276 BAR 3000 PSI 207 BAR	12.5 GPM 47.3 L/MIN 12.5 GPM 47.3 L/MIN 3.6 GPM 13.6 L/MIN 2000 PSI 138 BAR 6.7 GPM 25.4 L/MIN 2250 PSI 155 BAR 2000 PSI 138 BAR	2.2 GPM 8.3 L/MIN N/A 2000 PSI 138 BAR N/A N/A	
FLUID CAPACITIES FUEL TANK ENGINE OIL VIBRATOR OIL HYDRAULIC RESERVOIR	9 GAL 34 L 6.3 QT 6.0 L 38 OZ 1.1 L 14 GAL 53 L	9 GAL 34 L 2 QT 1.9 L 24 OZ 710 ML 11 GAL N/A	1.7 GAL 6.5 L 2.3 PT 1.1 L N/A N/A 3.5 GAL N/A	
BATTERY GROUP SAE RESERVE CAPACITY RATING SAE COLD CRANK RATING @ 0° F (-18° C)	26/26R/70 90 MIN 720 AMPS	U1 32 MIN 200 AMPS	N/A N/A N/A N/A N/A	
OPTIONAL EQUIPMENT H400 TRENCHER ATTACHMENT TRENCH DEPTH, MAXIMUM TRENCH WIDTH, MIN. TO MAX. BOOM TRAVEL UP BOOM TRAVEL DOWN CENTERLINE TRENCH TO OUTSIDE EDGE OF MACHINE, LEFT CENTERLINE TRENCH TO OUTSIDE EDGE	36 IN 910 MM 3.5 - 6 IN 90 - 150 MM 57° 57° 78° 78° 20 IN 510 MM	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	
OF MACHINE, RIGHT HEADSHAFT HEIGHT, DIGGING CHAIN UP DOWN	25 IN 630 MM 21 IN 535 MM 8 IN 200 MM	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	
HEADSHAFT SPEED DIGGING CHAIN SPEED REEL CARRIER MAXIMUM REEL DIAMETER	310 RPM 310 RPM 338 FPM 103 M/MIN 36 IN 914 MM	N/A N/A N/A N/A 25 IN 635 MM	N/A N/A N/A N/A N/A N/A	
MAXIMUM REEL WEIGHT DRILLING ATTACHMENT BORE DIAMETER	200 LB 91 KG 1.75 - 12 IN 45 - 305 MM	100 LB 45.4 KG 1.75 - 8 IN 45 - 205 MM	N/A N/A N/A N/A	



THE CHARLES MACHINE WORKS, INC. DITCH WITCH WORLDWIDE HEADQUARTERS PERRY, OK 73077-0066 U.S.A.

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