



DITCH WITCH 1820, 1330, 1230, 1030

PEDESTRIAN TRENCHERS



 **Ditch Witch**
GROUNDBREAKING™

GET WHAT YOU ASK FOR. **DITCH WITCH.**





DITCH WITCH 1820

Featuring a powerful 18hp (13.4 kW) engine, rugged components and straightforward operation, the Ditch Witch 1820 is a compact pedestrian trencher that helps you install underground service lines at residential and commercial sites with equal ease. The operator's station features quick-reference controls and color-coded levers, so reliable performance is always within reach. On the business end, a strengthened sprocket hub and variety of digging chains keep the 1820 going even on those marathon workdays.





KEY FEATURES

Drive wheels can be locked for straight-line trenching or one wheel freed for maneuverability.

Hydraulically steerable axle; one lever moves wheels.

Mechanical digging drive requires less horsepower to do the same amount of work.

DETAILS

Operator presence system is standard equipment on all units.

Strengthened digging chain sprocket hub means great long-term performance.

Spoils auger attaches to and rotates with the headshaft.

Larger sheaves on headshaft drive provide longer belt life.

Weather resistant electrical connectors and an automotive-type fuse enhance reliability.

Minimal service points and convenient access to service areas make the 1820 easy to keep running.

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.

DITCH WITCH 1330

The 1330 is a compact walk-behind that is clearly in front of the 13-horsepower (9.7 kW) trencher field. Built for low maintenance and high reliability, the 1330 features an innovative hydraulic oil cooling system that keeps the trencher humming even on the hottest days. And its reversible digging chain easily dislodges rocks and soil, helping you keep your cool by minimizing your stop-and-start time.





KEY FEATURES

Easy-to-understand, easily accessible, color-coded controls help new operators quickly become proficient.

Compact enough to fit through a standard yard gate.

DETAILS

Hydraulic oil cooler uses less fluid while providing longer pump life and maximum cooling efficiency; direct-drive fan helps the system run cooler and work more efficiently.

High-performance Ditch Witch digging chain systems available for trenching in most soil conditions; reversible digging chain easily dislodges rocks and soil.

Two-speed hydraulic ground drive provides high speed for maneuvering around the jobsite and low speed for excellent control while trenching.

Standard axle lock can engage both drive wheels for straight line trenching, or free one wheel for added maneuverability.

DITCH WITCH 1230, 1030

Do you want a good reason why Ditch Witch pedestrian machines have been the best-selling trenchers in the world? Here are two. The Ditch Witch 1030 and 1230 feature rugged mechanical digging drives and hydrostatic ground drives that never let you down. Their compact size lets you take them anywhere, while their solid frames and variety of digging chains let you take on any type of dirt.





KEY FEATURES

Unique, greasable bronze pivot bushing increases reliability.

Quiet, fuel-efficient Honda overhead-valve gasoline engine provides plenty of power.

Equipped for multiple sizes and types of digging chains, from standard cup-tooth to maximum-strength Shark Chain II.

DETAILS

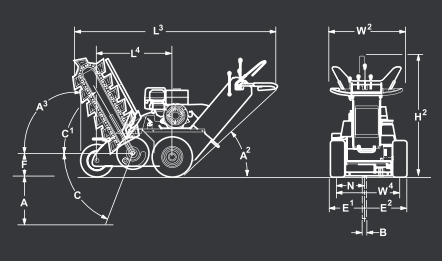
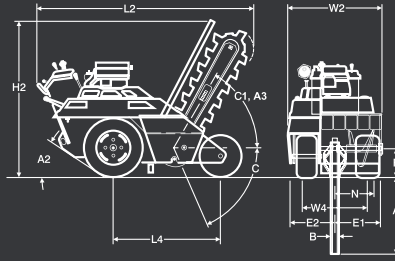
Mechanical digging drive, hydrostatic ground drive; operator can stop the digging chain and ground drive but keep the engine running by releasing the handlebar bail.

Easily accessible, easy-to-use color-coded controls.

Closed-loop hydraulic ground drive system allows infinitely variable speeds to better match digging conditions.

Axle lock engages both drive wheels to put more power to the ground while trenching, or frees one wheel for easy maneuvering around the jobsite.

Compact enough to fit through a standard yard gate.



SPECIFICATIONS

1820

1330

GENERAL

DIMENSIONS*

A TRENCH DEPTH, MAXIMUM
A° ANGLE OF APPROACH
A° ANGLE OF DEPARTURE
B TRENCH WIDTH, MIN. TO MAX
C BOOM TRAVEL, DOWN
C° BOOM TRAVEL, UP
E° CENTERLINE TRENCH TO OUTSIDE EDGE OF MACHINE, LEFT
E° CENTERLINE TRENCH TO OUTSIDE EDGE OF MACHINE, RIGHT
F HEADSHAFT HEIGHT
H° TRANSPORT HEIGHT
L° TRANSPORT LENGTH
L° WHEELBASE
N SPOILS DISCHARGE REACH
W° WIDTH, TRANSPORT
W° TREAD

OPERATION

VEHICLE SPEEDS
MAXIMUM TRANSIT FORWARD
MAXIMUM TRANSIT REVERSE
DIGGING CHAIN SPEED, MAX.
SPOILS HANDLING (SINGLE, OPEN-END AUGER) AUGER-SIZE
OUTER DIAMETER
INNER DIAMETER
LENGTH
TRENCHER CLEANER TYPE
TRENCHER CLEANER SIZE
OPERATING WEIGHT (BASED ON ROLLER BOOM AND NARROW-WIDTH DIGGING CHAIN)

POWER

ENGINE
TYPE
FUEL
COOLING MEDIUM
NUMBER OF CYLINDERS
DISPLACEMENT
BORE
STROKE
MANUFACTURER'S POWER RATING
RATED SPEED

POWER TRAIN

GROUND DRIVE TRANSMISSION
CLUTCH
BELT
PUMP DRIVE
DIGGING CHAIN DRIVE
TRENCHER DRIVE
BELT
DIGGING CHAIN
CHAIN DRIVE SPROCKET
SPOILS HANDLING DRIVE

TIRES/PRESSURE

DRIVE, STANDARD
DRIVE, OPTIONAL
TRAIL

HYDRAULIC SYSTEM

DRIVE PUMP CAPACITY
FILTRATION
HYDRAULIC CYLINDERS
FUNCTION
TYPE

STEERING

TYPE

FLUID CAPACITIES

FUEL TANK
ENGINE OIL
HYDRAULIC RESERVOIR
HYDRAULIC SYSTEM
AXLE OIL
HEADSHAFT GEARBOX OIL

BATTERY

GROUP
SAE RESERVE CAPACITY
SAE COLD CRANK @ 0° F (-18° C)

DITCH WITCH MODEL 1820 SELF-PROPELLED, WALK-BEHIND, HYDRAULICALLY STEERED, TWO-WHEEL DRIVE, RIGID-FRAME, CHAIN-TYPE TRENCHER

U.S.	METRIC
48 IN	1.22 M
32°	32°
84°	84°
3.3-16 IN	85-405 MM
66°	66°
60°	60°
16.3 IN	415 MM
19.3 IN	490 MM
11.1 IN	280 MM
63 IN	1.6 M
81 IN	2.06 M
43 IN	1.09 M
13.2 IN	335 MM
35.6 IN	905 MM
27 IN	685 MM

142 FPM	43 M/MIN
86 FPM	26 M/MIN
290 FPM	88 M/MIN

18.8 IN	476 MM
1.5 IN	40 MM
11.5 IN	290 MM
MECHANICAL	
4-16 IN	100-405 MM

1300 LB	590 KG
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HONDA GX610	
4-STROKE, OVERHEAD VALVE	
GASOLINE	
AIR	
2	
37.5 IN³	614 CM³
3.03 IN	77 MM
2.6 IN	66 MM
18 HP	13.4 KW
3600 RPM	3600 RPM

(DRIVE AND DIG) INFINITELY VARIABLE FROM ZERO TO MAXIMUM, ENCLOSED GEARBOX TO AXLE, SPEED AND DIRECTION CONTROLLED WITH SINGLE LEVER
MECHANICAL, HAND-OPERATED, SPRING-LOADED
WITH TENSION ROLLER FOR BELT DRIVE
2-GROOVE, 3V POWER BAND
BELT
LEVER-OPERATED
MECHANICAL
3-GROOVE POWER BAND
33,000-LB (15 000 KG) OR 35,000-LB (15 875 KG) TEST
FORGED AND TEMPERED
MECHANICAL, ATTACHED TO AND ROTATES WITH HEADSHAFT

23 X 8.50-12; 22 PSI	152 KPA
23 X 10.50-12; 22 PSI	152 KPA
16 X 6.50-8; 14 PSI	96 KPA

12.6 GPM	48 L/MIN
RETURN FLOW, 10 MICRON NOMINAL	
BOOM LIFT, STEERING	
DOUBLE ACTING	

POWER ON DRIVE AXLE, LEVER-CONTROLLED

5.4 GAL	20.4 L
2.6 PT	1.2 L
5.5 GAL	20.8 L
6.3 GAL	23.7 L
2.5 PT	1.2 L
2.5 PT	1.2 L

26R
60-80 MIN
450 AMPS

DITCH WITCH MODEL 1330, SELF-PROPELLED, HYDRAULIC, WALK-BEHIND, MANUALLY STEERED, TWO-WHEEL DRIVE, RIGID FRAME, CHAIN-TYPE TRENCHER

U.S.	METRIC
36 IN	915 MM
32°	32°
85°	85°
4.3-6 IN	110-150 MM
60°	60°
60°	60°
15 IN	381 MM
18 IN	457 MM
8.6 IN	220 MM
47 IN	1.22 M
84 IN	2.13 M
32 IN	810 MM
10.6 IN	270 MM
33 IN	840 MM
26 IN	660 MM

120 FPM	37 M/MIN
96 FPM	29 M/MIN
275 FPM	84 M/MIN

12 IN	305 MM
4 IN	102 MM
9 IN	229 MM
MECHANICAL	
4-6 IN	100-152 MM

920 LB	417 KG
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HONDA GX390	
4-STROKE, OVERHEAD VALVE	
GASOLINE	
AIR	
1	
23.7 IN³	389 CM³
3.5 IN	88 MM
2.5 IN	64 MM
13 HP	9.7 KW
3600 RPM	3600 RPM

HYDRAULIC TWO SPEEDS, INFINITELY VARIABLE FROM ZERO TO MAXIMUM, GEARBOX TO AXLE, SPEED AND DIRECTION CONTROLLED WITH SINGLE LEVER
N/A
N/A
DIRECT DRIVE FROM ENGINE
LEVER-OPERATED, ONE SPEED FORWARD AND REVERSE
HYDRAULIC DIRECT DRIVE
N/A
33,000-LB (15 000 KG) OR 35,000-LB (15 875 KG) TEST
FORGED AND TEMPERED
MECHANICAL, ATTACHED TO AND ROTATES WITH HEADSHAFT

16 X 6.50-8; 28 PSI	193 KPA
18 X 8.50-8; 22 PSI	152 KPA
13 X 5.00-6; 20 PSI	138 KPA

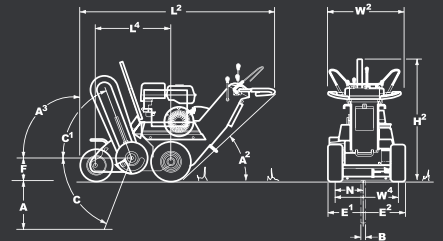
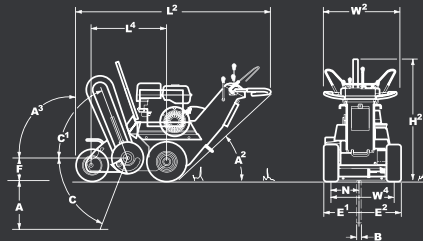
7.1 GPM	26.9 L/MIN
RETURN FLOW, 10 MICRON NOMINAL	
BOOM LIFT	
DOUBLE ACTING	

N/A

1.7 GAL	6.5 L
2.3 PT	1.1 L
4.5 GAL	17 L
5 GAL	19 L
2.8 PT	1.3 L
N/A	N/A

N/A
N/A
210 AMPS

*DIMENSIONS ARE BASED ON STANDARD TIRES AND STANDARD BOOM, UNLESS OTHERWISE NOTED.



SPECIFICATIONS

GENERAL

DIMENSIONS*

A TRENCH DEPTH, MAXIMUM*
A³ ANGLE OF APPROACH
A¹ ANGLE OF DEPARTURE
B TRENCH WIDTH*
C BOOM TRAVEL, DOWN
C¹ BOOM TRAVEL, UP
E¹ CENTERLINE TRENCH TO OUTSIDE EDGE OF MACHINE, LEFT
E² CENTERLINE TRENCH TO OUTSIDE EDGE OF MACHINE, RIGHT
F HEADSHAFT HEIGHT, DIGGING CHAIN
H² TRANSPORT HEIGHT
L² TRANSPORT LENGTH
L¹ WHEELBASE
N SPOILS DISCHARGE REACH
W² WIDTH, TRANSPORT
W¹ TREAD

OPERATION

VEHICLE SPEEDS
DIGGING CHAIN SPEED
SPOILS HANDLING (SINGLE, OPEN-END AUGER) AUGER-SIZE
OUTER DIAMETER
INNER DIAMETER
LENGTH
TRENCHER CLEANER TYPE
TRENCHER CLEANER SIZE
OPERATING WEIGHT (BASED ON ROLLER BOOM AND NARROW-WIDTH DIGGING CHAIN)

POWER

ENGINE
TYPE
FUEL
COOLING MEDIUM
NUMBER OF CYLINDERS
DISPLACEMENT
BORE
STROKE
MANUFACTURER'S POWER RATING
RATED SPEED

POWER TRAIN

GROUND DRIVE TRANSMISSION
PUMP DRIVE CLUTCH
DIGGING CHAIN CLUTCH
TRENCHER DRIVE
BELT
DIGGING CHAIN
CHAIN DRIVE SPROCKET
SPOILS HANDLING DRIVE

TIRES/PRESSURE

DRIVE, STANDARD
DRIVE, OPTIONAL
TRAIL

HYDRAULIC SYSTEM

DRIVE PUMP CAPACITY @ 2500 RPM
FILTRATION
HYDRAULIC DRIVE MOTOR
TORQUE @ 1000 PSI (69 BAR) AND 9.8 GPM (37 L/MIN)
SPEED @ 1000 PSI (69 BAR) AND 9.8 GPM (37 L/MIN)
DISPLACEMENT
TYPE

FLUID CAPACITIES

FUEL TANK
ENGINE OIL
HYDRAULIC RESERVOIR
HYDRAULIC SYSTEM
AXLE OIL
HEADSHAFT GEARBOX OIL

1230

DITCH WITCH MODEL 1230 SELF-PROPELLED WALK-BEHIND,
MANUALLY STEERED, TWO-WHEEL DRIVE, RIGID-FRAME,
CHAIN-TYPE TRENCHER

U.S.	METRIC
36 IN	910 MM
35°	35°
65°	65°
4.3-6 IN	110-150 MM
60°	60°
47°	47°
15 IN	381 MM
17 IN	432 MM
8.6 IN	220 MM
47 IN	1.17 M
88 IN	2.24 M
32 IN	810 MM
10.6 IN	270 MM
32 IN	800 MM
26 IN	660 MM

155 FPM	47 M/MIN
276 FPM	84 M/MIN

12 IN	305 MM
4 IN	102 MM
9 IN	229 MM
MECHANICAL	
4-6 IN	100-152 MM

905 LB	410.5 KG
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HONDA GX390
4-STROKE, OVERHEAD VALVE
GASOLINE
AIR
1
23.7 IN³
3.5 IN
2.5 IN
13 HP
3600 RPM

389 CM³
88 MM
64 MM
9.7 KW
3600 RPM

HYDROSTATIC, INFINITELY VARIABLE FROM ZERO TO MAXIMUM,
GEARBOX TO AXLE, SPEED AND DIRECTION CONTROLLED WITH SINGLE LEVER
MECHANICAL, HAND-OPERATED, SPRING-LOADED
WITH TENSION ROLLER FOR BELT DRIVE
MECHANICAL, HAND-OPERATED, SPRING-LOADED
WITH TENSION ROLLER FOR BELT DRIVE
MECHANICAL; BELT DRIVE TO REDUCTION DRIVE, HEADSHAFT
2-GROOVE POWER BAND
33,000-LB (15 000 KG) OR 35,000-LB (15 875 KG) TEST
FORGED AND TEMPERED
MECHANICAL, ATTACHED TO AND ROTATES WITH HEADSHAFT

16 X 6.50-8; 28 PSI	193 KPA
18 X 8.50-8; 22 PSI	152 KPA
13 X 5.00-6; 20 PSI	138 KPA

9.8 GPM	37.1 L/MIN
RETURN FLOW, 10 MICRON NOMINAL	

714 IN•LB	81 N•M
369 RPM	369 RPM
6 IN ³ /REV	98 CM ³ /REV
BI-DIRECTIONAL	

1.7 GAL	6.5 L
2.3 PT	1.1 L
4.5 GAL	17 L
5 GAL	18.9 L
2.8 PT	1.3 L
2 PT	1 L

1030

DITCH WITCH MODEL 1030 SELF-PROPELLED WALK-BEHIND,
MANUALLY STEERED, TWO-WHEEL DRIVE, RIGID-FRAME,
CHAIN-TYPE TRENCHER

U.S.	METRIC
30 IN	760 MM
35°	35°
65°	65°
4.3-6 IN	110-150 MM
60°	60°
47°	47°
15 IN	381 MM
17 IN	432 MM
8.6 IN	220 MM
47 IN	1.17 M
88 IN	2.24 M
32 IN	813 MM
10.6 IN	270 MM
32 IN	813 MM
26 IN	660 MM

155 FPM	47 M/MIN
276 FPM	84 M/MIN

12 IN	305 MM
4 IN	102 MM
9 IN	229 MM
MECHANICAL	
4-6 IN	100-152 MM

900 LB	408 KG
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HONDA GX340
4-STROKE, OVERHEAD VALVE
GASOLINE
AIR
1
20.6 IN³
3.2 IN
2.5 IN
11 HP
3400 RPM

337 CM³
82 MM
64 MM
8.2 KW
3400 RPM

HYDROSTATIC, INFINITELY VARIABLE FROM ZERO TO MAXIMUM,
GEARBOX TO AXLE, SPEED AND DIRECTION CONTROLLED WITH SINGLE LEVER
MECHANICAL, HAND-OPERATED, SPRING-LOADED
WITH TENSION ROLLER FOR BELT DRIVE
MECHANICAL, HAND-OPERATED, SPRING-LOADED
WITH TENSION ROLLER FOR BELT DRIVE
MECHANICAL; BELT DRIVE TO REDUCTION DRIVE, HEADSHAFT
2-GROOVE POWER BAND
33,000-LB (15 000 KG) OR 35,000-LB (15 875 KG) TEST
FORGED AND TEMPERED
MECHANICAL, ATTACHED TO AND ROTATES WITH HEADSHAFT

16 X 6.50-8; 28 PSI	193 KPA
18 X 8.50-8; 22 PSI	152 KPA
13 X 5.00-6; 20 PSI	138 KPA

9.8 GPM	37.1 L/MIN
RETURN FLOW, 10 MICRON NOMINAL	

643 IN•LB	73 N•M
410 RPM	410 RPM
5.4 IN ³ /REV	88.5 CM ³ /REV
BI-DIRECTIONAL	

1.7 GAL	6.5 L
2.3 PT	1.1 L
4.5 GAL	17 L
5 GAL	18.9 L
2.8 PT	1.3 L
2 PT	1 L



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

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