



SPECIFICATIONS, 1030

GENERAL

Ditch Witch model 1030 self-propelled walk-behind, manually steered, two-wheel drive, rigid-frame, chain-type trencher

DIMENSIONS

	U.S.	METRIC
Trench depth, max.	30 in	760 mm
Angle of approach: 35°		
Angle of departure: 65°		
Trench width	4.3 in - 6 in	110 mm - 150 mm
Boom travel, down: 60°		
Boom travel, up: 47°		
Centerline trench to outside edge of machine, left	15 in	381 mm
Centerline trench to outside edge of machine, right	17 in	432 mm
Headshaft height, digging chain	8.6 in	220 mm
Transport height	47 in	1.17 m
Transport length	88 in	2.24 m
Wheelbase	32 in	813 mm
Spoils discharge reach	10.6 in	270 mm
Width, transport	32 in	813 mm
Tread	26 in	660 mm

OPERATION

	U.S.	METRIC
Vehicle speeds	155 fpm	47 m/min
Digging chain speed	276 fpm	84 m/min
Spoils handling (single, open-end auger) auger-size		
Outer diameter	12 in	305 mm
Inner diameter	4 in	102 mm
Length	9 in	229 mm
Trencher cleaner type: Mechanical		
Trencher cleaner size	4 in - 6 in	100 mm - 152 mm
Operating weight (based on roller boom and narrow-width digging chain)	900 lb	408 kg

POWER

	U.S.	METRIC
Engine: Honda GX340		
Type: 4-stroke, overhead valve		
Fuel: Gasoline		
Cooling medium: Air		
Number of cylinders: 1		
Displacement	20.6 in ³	337 cm ³
Bore	3.2 in	82 mm
Stroke	2.5 in	64 mm
Manufacturer's power rating	11 hp	8.2 kW
Rated speed: 3400 rpm		

POWER TRAIN

Ground drive transmission: Hydrostatic, infinitely variable from zero to maximum, gearbox to axle, speed and direction controlled with single lever

Pump drive clutch: Mechanical, hand-operated, spring-loaded with tension roller for belt drive

Digging chain clutch: Mechanical, hand-operated, spring-loaded with tension roller for belt drive

Trencher drive: Mechanical; belt drive to reduction drive, headshaft

Belt: 2-groove power band

Digging chain: 33,000-lb (15 000 kg) or 35,000-lb (15 875 kg) test

Chain drive sprocket: Forged and tempered

Spoils handling drive: Mechanical, attached to and rotates with headshaft

TIRES/PRESSURE

	U.S.	METRIC
Drive, standard	16 x 6.50-8; 28 psi	193 kPa
Drive, optional	18 x 8.50-8; 22 psi	152 kPa
Trail	13 x 5.00-6; 20 psi	138 kPa

HYDRAULIC SYSTEM

	U.S.	METRIC
Drive pump capacity @ 2500 rpm	9.8 gpm	37.1 L/min
Filtration: Return flow, 10 micron nominal		
Hydraulic drive motor:		
Torque @ 1000 psi (69 bar) and 9.8 gpm (37 L/min)	643 in·lb	730 N·m
Speed @ 1000 psi (69 bar) and 9.8 (37 L/min): 410 rpm		
Displacement	5.4 in ³ /rev	88.5 cm ³ /rev
Type: Bi-directional		

FLUID CAPACITIES

	U.S.	METRIC
Fuel tank	1.7 gal	6.5 L
Engine oil	2.3 pt	1.1 L
Hydraulic reservoir	4.5 gal	17 L
Hydraulic system	5 gal	18.9 L
Axle oil	2.8 pt	1.3 L
Headshaft gearbox oil	2 pt	1 L

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.
*Dimensions are based on 16 x 6.50-8 tires and 24-inch (610 mm) depth boom.

©2011 The Charles Machine Works, Inc.