

 **Ditch Witch®** RT12, RT16, RT20, RT24

WALK-BEHIND TRENCHERS



 **Ditch Witch®**
ditchwitch.com

DITCH WITCH® **WALK-BEHIND TRENCHERS:** **THE BEST OF EVERYTHING**



Of the leading compact walk-behind trenchers, the Ditch Witch walk-behind trencher family represents the industry's most solid investment:

SOLID STRUCTURE.

With heavy-duty frames and components, these trenchers are built to stand up to the toughest conditions. At the business end of the machine, where the main wear and tear takes place, genuine Ditch Witch digging systems provide unbeatable durability and performance.

SOLID RETURNS.

The Ditch Witch brand has become synonymous with the compact trencher because it has maintained a reputation of enduring quality and performance for more than 60 years. With every Ditch Witch trencher, the return on investment is second to none. Maintained properly, Ditch Witch walk-behind trenchers will provide reliable productivity—job after job, year after year.

SOLID SUPPORT.

The worldwide Ditch Witch dealership network is dedicated exclusively to sales and service of the Ditch Witch product line. Every dealer is extensively trained to provide superior customer support, including genuine Ditch Witch parts that extend the life of your equipment.

Ditch Witch® WALK-BEHIND TRENCHERS



KEY FEATURES

- 1** All controls—including engine throttle, chain engagement, and boom lift—are grouped conveniently at the operator's station.
- 2** Designed with more weight on the digging chain to put more product in the ground faster.
- 3** Digging systems feature the industry's longest-lasting cupped digging tooth, DuraTooth™, which improves productivity and reduces downtime.
- 4** Digging systems are made of genuine Ditch Witch® chains, teeth, and sprockets, which are specially manufactured to work together to last longer and provide greater performance than any other digging system.
- 5** Special trail wheel supports the tracks to increase stability over uneven and rough terrain and reduce breakover when loading and unloading.



- 6** RT12, RT20, and RT24 feature low-maintenance, long-lasting engines from Honda®, the world's leading manufacturer of small OHV engines; RT16 offers an economical, reliable Briggs & Stratton® Vanguard™ engine.
- 7** Heavy-duty tie-down points increase stability during transport.
- 8** Optional heavy-duty DuraTrak™ system provides outstanding stability and traction when traveling over trenches, curbs, and rough terrain.
- 9** Outboard bearing support stabilizes and supports the headshaft and auger for reliable productivity trench after trench.
- 10** Auger drive system eliminates need for sheer bolts on the auger and simplifies changing sprockets and digging chains.

SPECIFICATIONS	RT12		RT16	
DIMENSIONAL*	U.S.	METRIC	U.S.	METRIC
Headshaft Height	8.6 in	220 mm	8.6 in	220 mm
Length-transport	84 in	2.1 m	84 in	2.1 m
Width-transport	33 in	840 mm	33 in	840 mm
Height-transport	47 in	1.2 m	47 in	1.2 m
Centerline trench to outside edge machine, left	15 in	381 mm	15 in	381 mm
Centerline trench to outside edge machine, right	18 in	457 mm	18 in	457 mm
OPERATIONAL	U.S.	METRIC	U.S.	METRIC
Vehicle speeds with tires				
Maximum transit forward	280 fpm	85.3 mpm	280 fpm	85.3 mpm
Maximum transit reverse	114 fpm	34.7 mpm	114 fpm	34.7 mpm
Vehicle speeds with track				
Maximum transit forward	198 fpm	60 mpm	198 fpm	60 mpm
Maximum transit reverse	97 fpm	39.5 mpm	97 fpm	39.5 mpm
Digging chain speed @ 3600 rpm				
10 Tooth Sprocket	324 fpm	98.7 mpm	324 fpm	98.7 mpm
12 Tooth Sprocket	389 fpm	118.5 mpm	389 fpm	118.5 mpm
Spoil handling				
Auger-type	Single, open end		Single, open end	
Auger-size	12 in OD x 4 in ID x 9 in long	305 mm OD x 102 mm ID x 229 mm long	12 in OD x 4 in ID x 9 in long	305 mm OD x 102 mm ID x 229 mm long
Trench cleaner type	Mechanical		Mechanical	
Trench cleaner size	4-6 in	102-152 mm	4-6 in	102-152 mm
Operating Weight				
33,000-lb (14969 kg) test, two-pitch digging chain and 24" (610 mm) roller boom	1020 lb	463 kg	1020 lb	463 kg
TRENCH SIZE	U.S.	METRIC	U.S.	METRIC
Depth 1	36 in	914 mm	36 in	914 mm
Width 1	4-6 in	112-152 mm	4-6 in	112-152 mm
POWER OPTIONS	U.S.	METRIC	U.S.	METRIC
Engine	Honda® iGX390		Briggs & Stratton Vanguard™ V-Twin 4 stroke overhead valve	
Fuel	Gasoline		Gasoline	
Cooling Medium	Air		Air	
Number of Cylinders	One		Two	
Manufacturer's Net Horsepower Rating	11.7 hp	8.7 kw	13.7 hp	11.9 kW
Net Torque @2500 rpm	19.5 lb*ft	26.4 N*m	25 lb*ft	33.9 N*m
Rated speed	3600 rpm*		3600 rpm*	
Fuel consumption @ 3000 rpm	.89 gph	3.4 lph	1.2 gph	4.5 lph
POWER TRAIN	U.S.	METRIC	U.S.	METRIC
Ground drive transmission: hydrostatic, infinitely variable from zero to maximum, speed and direction controlled with dual levers.				
Digging chain drive: hydraulic direct drive, lever-operated, one speed forward and reverse				
Pump drive: direct drive from engine				
Tires-drive	18 x 9.5 x 8 bar lug / 12 psi / 83 kPa		18 x 9.5 x 8 bar lug / 12 psi / 83 kPa	
	18 x 9.5 x 8 turf NHS / 22 psi / 152 kPa		18 x 9.5 x 8 turf NHS / 22 psi / 152 kPa	
Tires-trail	3 x 5.00 x 6 / psi		3 x 5.00 x 6 / psi	
Trencher Drive				
Hydraulic	Direct Drive		Direct Drive	
Digging chain	N/A	N/A	N/A	N/A
HYDRAULIC SYSTEM	U.S.	METRIC	U.S.	METRIC
Digging drive pump capacity @ 3600 rpm	7.8 gpm	29.5 lpm	7.8 gpm	29.5 lpm
Ground drive dual hydrostat pump @ 3600 rpm	11.4 gpm total	43 lpm	11.4 gpm total	43 lpm
Filtration	Return flow, 10 micron nominal		Return flow, 10 micron nominal	
FLUID CAPACITIES	U.S.	METRIC	U.S.	METRIC
Fuel tank — Gasoline	1.6 gal	6.2 l	2.3 gal	6.5 l
Engine oil	1.6 qts	1.1 l	1.8 qts	1.7 l
Hydraulic reservoir	8 gal	30 l	8 gal	30 l
Hydraulic system	8.5 gal	32 l	8.5 gal	32 l
BATTERY				
12-volt, top-post				
SAE reserve capacity 41 min				
SAE cold crank 340 amps				
VIBRATION LEVEL				
Vibration at the operator's hand during normal operation is 6.639 m/s².				
NOISE LEVEL				
Operator 90 dbA sound pressure per ISO 6394				
Exterior 102 dbA sound power per ISO 6393				

Specifications are called out according to SAE recommended procedures. 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 described.
*Dimensions are based on narrow tread and 8in (203 mm) pivot.
**Standard boom: refer to chart for recommended depth/width combinations.

SPECIFICATIONS	RT20		RT24	
DIMENSIONAL*	U.S.	METRIC	U.S.	METRIC
Headshaft Height	8.6 in	220 mm	8.6 in	220 mm
Length-transport	84 in	2.1 mm	84 in	2.1 mm
Width-transport	33 in	840 mm	33 in	840 mm
Height-transport	47 in	1.2 m	47 in	1.2 m
Centerline trench to outside edge machine, left	15 in	381 mm	15 in	381 mm
Centerline trench to outside edge machine, right	18 in	457 mm	18 in	457 mm
OPERATIONAL	U.S.	METRIC	U.S.	METRIC
Vehicle speeds with tires				
Maximum transit forward	243 fpm	74 mpm	243 fpm	74 mpm
Maximum transit reverse	97 fpm	30 mpm	97 fpm	30 mpm
Vehicle speeds with track				
Maximum transit forward	169 fpm	51 mpm	169 fpm	51 mpm
Maximum transit reverse	68 fpm	21 mpm	68 fpm	21 mpm
Digging chain speed @ 3600 rpm	420 fpm	128 mpm	420 fpm	128 mpm
Spoil handling				
Auger-type	Single, open end		Single, open end	
Auger-size	15 in OD x 1.5 in ID x 8.75 in long	381 mm OD x 40 mm ID x 222 mm long	15 in OD x 1.5 in ID x 8.75 in long	381 mm OD x 40 mm ID x 222 mm long
Trench cleaner type	Mechanical		Mechanical	
Trench cleaner size	4-8 in	100-203 mm	4-8 in	100-203 mm
Operating Weight				
33,000-lb (14969-kg) test, two-pitch digging chain and 24" (610-mm) roller boom	N/A		N/A	
TRENCH SIZE	U.S.	METRIC	U.S.	METRIC
Depth 1	36 in	914 mm	48 in	1219.2 mm
Width 1	4-6 in	112-152 mm	4-6 in	112-152 mm
POWER OPTIONS	U.S.	METRIC	U.S.	METRIC
Engine	Honda GX630		Honda GX690	
Fuel	Gasoline		Gasoline	
Cooling Medium	Air		Air	
Number of Cylinders	Two		Two	
Manufacturer's Net Horsepower Rating	20.8 hp	15.5 kW	22.3 hp	16.6 kW
Net Torque @2500 rpm	35.6 lb*ft	48.3 N*m	35.6 lb*ft	48.3 N*m
Rated speed	3600 rpm*		3600 rpm*	
Fuel consumption @ 3000 rpm	1.77 gph	6.7 lph	1.77 gph	6.7 lph
POWER TRAIN	U.S.	METRIC	U.S.	METRIC
Ground drive transmission: hydrostatic, infinitely variable from zero to maximum, speed and direction controlled with dual levers.				
Digging chain drive: hydraulic direct drive, lever-operated, one speed forward and reverse				
Pump drive: direct drive from engine				
Tires-drive	18 x 9.5 x 8 bar lug / 12 psi / 83 kPa		18 x 9.5 x 8 bar lug / 12 psi / 83 kPa	
	18 x 9.5 x 8 turf NHS / 22 psi / 152 kPa		18 x 9.5 x 8 turf NHS / 22 psi / 152 kPa	
Tires-trail	13 x 5.00 x 6 / psi		13 x 5.00 x 6 / psi	
Trencher Drive				
Hydraulic	Direct Drive		Direct Drive	
Digging chain	33,000 lb (15000 kg) test		33,000 lb (15000 kg) test	
HYDRAULIC SYSTEM	U.S.	METRIC	U.S.	METRIC
Digging drive pump capacity @ 3600 rpm	12 gpm	45 lpm	12 gpm	45 lpm
Ground drive dual hydrostat pump @ 3600 rpm	11.4 gpm	43 lpm	11.4 gpm	43 lpm
Filtration	Return flow, 10 micron nominal		Return flow, 10 micron nominal	
FLUID CAPACITIES	U.S.	METRIC	U.S.	METRIC
Fuel tank — Gasoline	3.5 gal	13 l	3.5 gal	13 l
Engine oil	2.1 qts	2.0 l	1.8 qts	2.0 l
Hydraulic reservoir	8 gal	30 l	8 gal	30 l
Hydraulic system	8.5 gal	32 l	8.5 gal	32 l
BATTERY				
12-volt, top-post				
SAE Reserve Capacity 41 min				
SAE cold crank 340 amps				
VIBRATION LEVEL				
Vibration at the operator's hand during normal operation is 5.82 m/s².				
NOISE LEVEL				
Operator 90 dbA sound pressure per ISO 6394				
Exterior 102 dbA sound power per ISO 6393				

Specifications are called out according to SAE recommended procedures. 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 described.
*Dimensions are based on narrow tread and 8in (203 mm) pivot.
**Standard boom: refer to chart for recommended depth/width combinations.

COMPLETE SPECIFICATIONS AVAILABLE ON DITCHWITCH.COM.

PARTS, ACCESSORIES, AND SUPPORT.

The Ditch Witch® organization has everything you need to successfully complete the task with your walk-behind trencher, including:



CUSTOM TRAILER

Featuring a durable, high-strength axle and a steel deck, the Ditch Witch S2B single-axle trailer is designed specifically for our walk-behind trenchers. Standard features include ramps for easy loading and unloading, tie-down points, tongue safety chains, and a complete lighting system.

www.ditchwitch.com/trailers



ELECTRONICS

Before you dig, you must know what's below. Buried telephone, CATV, power, gas or water lines—there's a Ditch Witch locating system to help you identify what and where they are. From our lightweight, hand-held units to our sophisticated ground penetrating radar, Ditch Witch locating systems help improve your efficiency and, more importantly, your safety.

www.ditchwitch.com/electronic-guidance



DEALER SERVICE AND SUPPORT

Whether it's new or used equipment, parts, service, financing, or all of the above, your Ditch Witch dealer is prepared to offer you the best of everything. Ditch Witch dealers are chosen for their commitment to the underground construction profession, and they are thoroughly trained to represent the highest standards in the industry.

www.ditchwitch.com/parts/resources/service



GENUINE DITCH WITCH PARTS

Your Ditch Witch dealer is your single source for all of the parts you need, including superior-quality digging systems. Ditch Witch chains, specially manufactured headshaft sprockets, and digging teeth are designed to work together as a system to provide unparalleled trenching performance.

www.ditchwitch.com/parts



THE CHARLES MACHINE WORKS, INC. | DITCH WITCH® WORLDWIDE HEADQUARTERS | PERRY, OK 73077-0066 U.S.A. | TOLL FREE 800 654 6481
PHONE 580 336 4402 | FAX 580 336 3458 | INTERNATIONAL FAX 580 572 3561

FOR INFORMATION ABOUT EASY FINANCING AND TO FIND THE DEALER NEAREST YOU, VISIT DITCHWITCH.COM.

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