

# RT12, RT16, RT20, RT24 TRENCHERS

 **Ditch Witch®**

**WALK-BEHIND**



# WALK-BEHIND TRENCHERS

1

Ditch Witch® trenchers feature the industry's longest-lasting cupped digging tooth, DuraTooth™, which improves productivity and reduces downtime.

13

Special trail wheel supports the tracks to increase stability over uneven and rough terrain and reduce breakover when loading and unloading; trail wheel is designed with more weight on the digging chain to put more product in the ground faster.

12

Auger drive system eliminates need for sheer bolts on the auger and simplifies changing sprockets and digging chain.

2

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.

3

Tiedown points increase stability during transport.

4

Optional heavy-duty DuraTrak™ system provides outstanding stability and traction when traveling over trenches, curbs and rough terrain.

5

Outboard bearing support stabilizes and supports the headshaft and auger, for reliable productivity trench after trench.

9

Heavy-duty components include a drive linkage that is built to last and designed to simplify operation and maintenance.

8

Hydraulic oil cooler helps keep your engine running at optimal temperature for better performance.

11

Hydraulically driven, with all controls—including engine throttle, chain-engagement and boom lift—grouped conveniently at the operator's station.

6

Digging systems are made of genuine Ditch Witch chain, teeth and sprockets, which are specially manufactured to work together to last longer and provide greater performance than any other digging system.

10

Easy access to all service points for routine maintenance.

7

Optional, affordable backfill blade is easy to install and reduces cleanup time and manual labor.



Both structurally and financially, **Ditch Witch® Walk-Behind Trenchers** are as solid as they come. They're built with heavy-duty frames and components, so they 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. And they're backed by the solid support of the worldwide Ditch Witch dealer organization. Add it all up and you'll see that Ditch Witch walk-behind trenchers are your best financial investment.

**WE'RE IN THIS TOGETHER.**



# WALK-BEHIND TRENCHERS SPECIFICATIONS

RT20	U.S.	METRIC	RT24	U.S.	METRIC
<b>DIMENSIONS*</b>					
Headshaft height	8.6 in	220 mm	Headshaft height	8.6 in	220 mm
Length, transport	84 in	2.1 m	Length, transport	84 in	2.1 m
Width, transport	33 in	840 mm	Width, transport	33 in	840 mm
Height, transport	47 in	1.2 m	Height, transport	47 in	1.2 m
Centerline trench to outside edge machine					
Left	15 in	381 mm	Left	15 in	381 mm
Right	18 in	457 mm	Right	18 in	457 mm
<b>POWER</b>					
Engine	Honda® GX630		Engine	Honda GX690	
Fuel	Gasoline		Fuel	Gasoline	
Cooling medium	Air		Cooling medium	Air	
Number of cylinders	2		Number of cylinders	2	
Manufacturer's net horsepower rating	20.8 hp	15.5 kW	Manufacturer's net horsepower rating	22.3 hp	16.6 kW
Net torque @ 2,500 rpm	35.6 lb-ft	48.3 N-m	Net torque @ 2,500 rpm	35.6 lb-ft	48.3 N-m
Rated speed	3,600 rpm*		Rated speed	3,600 rpm*	
Fuel consumption @ 3,000 rpm	1.77 gph	6.7 lph	Fuel consumption @ 3,000 rpm	1.77 gph	6.7 lph
<b>POWER TRAIN</b>					
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		Tires, drive	18 x 9.5 x 8 bar lug / 12 psi / 83 kPa	
Tires, trail	13 x 5 x 6		Tires, trail	13 x 5 x 6	
Trencher drive					
Hydraulic	Direct drive		Hydraulic	Direct drive	
Digging chain	33K and 35K		Digging chain	33K and 35K	
Ground pressure	4.4 psi		Ground pressure	4.4 psi	
<b>OPERATION</b>					
Vehicle speeds with tires, max					
Transit forward	243 fpm	74 m/min	Transit forward	243 fpm	74 m/min
Transit reverse	97 fpm	30 m/min	Transit reverse	97 fpm	30 m/min
Vehicle speeds with track, max					
Transit forward	169 fpm	51 m/min	Transit forward	169 fpm	51 m/min
Transit reverse	68 fpm	21 m/min	Transit reverse	68 fpm	21 m/min
Digging chain speed @ 3,600 rpm	420 fpm	12 m/min	Digging chain speed @ 3,600 rpm	420 fpm	12 m/min
Spoil handling					
Auger, type	Single, open end		Auger, type	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	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
Trench cleaner type	Mechanical		Trench cleaner type	Mechanical	
Trench cleaner size	4-6 in		Trench cleaner size	4-8 in	
Operating weight					
33,000-lb (14969-kg) test, 2-pitch digging chain and 24-in (610 mm) roller boom	1,120 lb	508 kg	33,000-lb (14969-kg) test, 2-pitch digging chain and 24-in (610 mm) roller boom	1,120 lb	508 kg
<b>HYDRAULIC SYSTEM @ 3,600 RPM</b>					
Digging drive pump capacity	12 gpm	45 l/min	Digging drive pump capacity	12 gpm	45 l/min
Ground drive dual hydrostat pump	11.4 gpm total	43 l/min	Ground drive dual hydrostat pump	11.4 gpm total	43 l/min
Filtration	Return flow, 10 micron nominal		Filtration	Return flow, 10 micron nominal	
<b>FLUID CAPACITIES</b>					
Fuel	Gasoline		Fuel	Gasoline	
Tank	3.5 gal	13 L	Tank	3.5 gal	13 L
Engine oil	2.1 qt	2 L	Engine oil	1.8 qt	2 L
Hydraulic reservoir	8 gal	30 L	Hydraulic reservoir	8 gal	30 L
Hydraulic system	8.5 gal	32 L	Hydraulic system	8.5 gal	32 L
<b>TRENCH SIZE, MAX</b>					
Depth	36 in	914 mm	Depth	36 in	914 mm
Width	4-6 in	112-152 mm	Width	4-8 in	112-203 mm
<b>NOISE LEVEL</b>					
Operator	93 dBA sound pressure per ISO 6394		Operator	93 dBA sound pressure per ISO 6394	
Exterior	102 dBA sound power per ISO 6393		Exterior	102 dBA sound power per ISO 6393	
<b>VIBRATION LEVEL</b>					
Vibration at the operator's hand during normal operation is 5.82 m/s <sup>2</sup> .					
<b>BATTERY</b>					
Auxiliary power outlet	12V, top-post		Auxiliary power outlet	12V, top-post	
SAE reserve capacity	41 min		SAE reserve capacity	41 min	
SAE cold crank	340 amps		SAE cold crank	340 amps	

\* Dimensions are based on narrow tread and 8-in (203-mm) pivot. 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.

# WALK-BEHIND TRENCHERS SPECIFICATIONS

RT12	U.S.	METRIC	RT16	U.S.	METRIC
<b>DIMENSIONS*</b>					
Headshaft height	8.6 in	220 mm	Headshaft height	8.6 in	220 mm
Length, transport	84 in	2.1 m	Length, transport	84 in	2.1 m
Width, transport	33 in	840 mm	Width, transport	33 in	840 mm
Height, transport	47 in	1.2 m	Height, transport	47 in	1.2 m
Centerline trench to outside edge machine					
Left	15 in	381 mm	Left	15 in	381 mm
Right	18 in	457 mm	Right	18 in	457 mm
<b>POWER</b>					
Engine	Honda® iGX390		Engine	Briggs & Stratton® Vanguard™ 16	
Fuel	Gasoline		Fuel	Gasoline	
Cooling medium	Air		Cooling medium	Air	
Number of cylinders	1		Number of cylinders	2	
Manufacturer's net horsepower rating	11.7 hp	8.7 kW	Manufacturer's net horsepower rating	13.7 hp	11.9 kW
Net torque @ 2,500 rpm	19.5 lb-ft	26.4 N-m	Net torque @ 2,500 rpm	25 lb-ft	33.9 N-m
Rated speed	3,600 rpm*		Rated speed	3,600 rpm*	
Fuel consumption @ 3,000 rpm	0.89 gph	3.4 lph	Fuel consumption @ 3,000 rpm	1.2 gph	4.5 lph
<b>POWER TRAIN</b>					
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		Tires, drive	18 x 9.5 x 8 bar lug / 12 psi / 83 kPa	
Tires, trail	13 x 5 x 6		Tires, trail	13 x 5 x 6	
Trencher drive					
Hydraulic	Direct drive		Hydraulic	Direct drive	
Digging chain	33K and 35K		Digging chain	33K and 35K	
Ground pressure	4.1 psi		Ground pressure	3.9 psi	
<b>OPERATION</b>					
Vehicle speeds with tires, max					
Transit forward	280 fpm	85.3 m/min	Transit forward	280 fpm	85.3 m/min
Transit reverse	114 fpm	34.7 m/min	Transit reverse	114 fpm	34.7 m/min
Vehicle speeds with track, max					
Transit forward	198 fpm	60 m/min	Transit forward	198 fpm	60 m/min
Transit reverse	97 fpm	39.5 m/min	Transit reverse	97 fpm	39.5 m/min
Digging chain speed @ 3,600 rpm			Digging chain speed @ 3,600 rpm		
10-tooth sprocket	324 fpm	98.7 m/min	10-tooth sprocket	324 fpm	98.7 m/min
12-tooth sprocket	389 fpm	118.5 m/min	12-tooth sprocket	389 fpm	118.5 m/min
Spoil handling					
Auger, type	Single, open end		Auger, type	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	Auger, size	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		Trench cleaner type	Mechanical	
Trench cleaner size	4-6 in		Trench cleaner size	4-6 in	
Operating weight					
33,000-lb (14969-kg) test, 2-pitch digging chain and 24-in (610-mm) roller boom	1,020 lb	463 kg	33,000-lb (14969-kg) test, 2-pitch digging chain and 24-in (610-mm) roller boom	1,020 lb	463 kg
<b>HYDRAULIC SYSTEM @ 3,600 RPM</b>					
Digging drive pump capacity	7.8 gpm	29.5 l/min	Digging drive pump capacity	7.8 gpm	29.5 l/min
Ground drive dual hydrostat pump	11.4 gpm total	43 l/min	Ground drive dual hydrostat pump	11.4 gpm total	43 l/min
Filtration	Return flow, 10 micron nominal		Filtration	Return flow, 10 micron nominal	
<b>FLUID CAPACITIES</b>					
Fuel	Gasoline		Fuel	Gasoline	
Tank	1.6 gal	6.2 L	Tank	2.3 gal	6.5 L
Engine oil	1.6 qt	1.1 L	Engine oil	1.8 qt	1.7 L
Hydraulic reservoir	8 gal	30 L	Hydraulic reservoir	8 gal	30 L
Hydraulic system	8.5 gal	32 L	Hydraulic system	8.5 gal	32 L
<b>TRENCH SIZE, MAX</b>					
Depth	36 in	914 mm	Depth	36 in	914 mm
Width	4-6 in	112-152 mm	Width	4-6 in	112-152 mm
<b>NOISE LEVEL</b>					
Operator	93 dBA sound pressure per ISO 6394		Operator	96 dBA sound pressure per ISO 6394	
Exterior	102 dBA sound power per ISO 6393		Exterior	100 dBA sound power per ISO 6393	
<b>VIBRATION LEVEL</b>					
Vibration at the operator's hand during normal operation is 6.639 m/s <sup>2</sup> .					
<b>BATTERY</b>					
Auxiliary power outlet	12V, top-post		Auxiliary power outlet	12V, top-post	
SAE reserve capacity	41 min		SAE reserve capacity	41 min	
SAE cold crank	340 amps		SAE cold crank	340 amps	

\* Dimensions are based on narrow tread and 8-in (203-mm) pivot. 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.



## WALK-BEHIND TRENCHER PARTS, ACCESSORIES AND SUPPORT:



### 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 chain, and a complete lighting system.



### ELECTRONICS

Before you dig, you must know what's below. After you call 811 to locate buried telephone, CATV, power, gas, or water lines, there's a Ditch Witch locating system to help you verify the locates. From our lightweight, hand-held units to the exceptionally versatile and accurate UtiliGuard™ locating system, Ditch Witch locating systems help improve your efficiency and, more importantly, your safety.



### 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.



### 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 chain, specially manufactured headshaft sprockets and digging teeth are designed to work together as a system to provide unparalleled trenching performance.

