RT45

The Ditch Witch® RT45 is your go-to trencher for 4- to 5-foot trenches. With its high-torque digging chain motor and Tier 4 engine, the RT45 has plenty of power to muscle through the earth—with your choice of compatible attachments—and plenty of comfort in its spacious operator’s station. It’s no wonder the RT45 has been rental’s most in-demand trencher for the last 50 years.

1. Direct-coupled, high-torque digging chain motor designed for increased production and reliability.

2. User-friendly operator’s station with color-coded speed/direction and attachment controls; backfill blade controlled by a sensitive joystick.

3. Exhaust system is mounted under a composite hood with a horizontal exhaust pipe, diverting noise and hot air away from the operator.

4. Advanced air-filtration system designed to improve engine performance; air filter elements are easy to access and replace.

5. Tier 4, 49-hp (36.5-kW) Deutz® diesel engine is designed for minimal maintenance and maximum operator productivity.

6. Engine service points are easily accessible from one side, simplifying maintenance.

7. Easy-to-use foot pedal that controls infinitely variable ground drive in both forward and reverse.

8. Operator presence system stops the engine when the operator leaves the seat for greater safety.
### H314 TRENCHER
#### DIMENSIONS*
- **Angle of departure**: 35°
- **Trench depth, max**: 52 in (1.3 m)
- **Trench width, min to max**: Center 6-12 in (150-305 mm), Offset 6-8 in (150-200 mm)
- **Attachment weight**: 570 lb (260 kg)

*Dimensions are based on shortest roller boom, 26 x 12-12 standard tire and wheel, and 12-in (305-mm) pivot.

### H342 SAW
#### DIMENSIONS
- **Angle of departure**: 14°
- **Trench depth, max**: 18 in (455 mm)
- **Overall length, transport**: 162 in (4.1 m)
- **Number of teeth on saw wheel**: 36
- **Attachment weight**:
  - 2.5-in (65-mm) segments: 1,350 lb (700 kg)
  - 3.5-in (90-mm) segments: 1,610 lb (730 kg)
  - 5-in (130-mm) segments: 1,660 lb (755 kg)

### A323 BACKHOE
#### DIMENSIONS
- **Backhoe length, stowed**: 60 in (1.5 m)
- **Digging depth, max**: 72 in (1.8 m)
- **Reach from swing pivot**: 102 in (2.6 m)

**GENERAL**
- **Bucket width**: 12 in (305 mm)
- **Bucket capacity**: 1.1 ft³ (0.03 m³)
- **Backhoe weight w/bucket**: 1,125 lb (511 kg)
- **Swing arc**: 160°
- Features a remote blade lift and throttle. Maximum digging depth of 72 in (1.83 m).

### MT12 MICRO TRENCHER
#### DIMENSIONS, W/31 X 10 SOLID TIRES
- **Angle of departure**: 19°
- **Trench depth, 1-ft (30.5-mm) increments**: 6-5-12.5 in (165-318 mm)
- **Blade diameter**: 36 in (914 mm)
- **Trench width**: 0.50-1.5 in (13-38 mm)
- **Attachment weight (includes mount kit)**: 1,600 lb (726 kg)
RT45 RIDE-ON TRENCHER SPECIFICATIONS

DIMENSIONS* U.S. METRIC

Height (H1) 86 in 2.18 m
Length, transport (L2) 155 in 3.9 m
Width, transport (W2) 64 in 1.6 m
Basic unit weight 3,240 lb 1470 kg
Wheelbase (L4) 48 in 1.22 m
Spool discharge reach, min to max (N) 17-20 in 435-510 mm
Tread (MA) 66 in 1.77 m
Ground clearance, min (standard tire) 7 in 180 mm
Ground clearance, min (optional tire) 8.5 in 215 mm

POWER (TIER 4)

Engine Deutz® D2.9 L4
Fuel Diesel
Cooling medium Water
Injection Direct
Aspiration Natural
Number of cylinders 4
Displacement 177 in³ 2.9 L
Bore 3.6 in 92 mm
Stroke 4.3 in 110 mm
Manufacturer’s gross power rating 48.8 hp 36.4 kW
Rated speed 2,600 rpm
Emissions compliance EPA Tier 4 EU Stage IIIA

POWER (TIER 4I)

Engine Deutz D2011L3i
Fuel Diesel
Cooling medium Oil
Injection Direct
Aspiration Natural
Number of cylinders 3
Displacement 142 in³ 2.3 L
Bore 3.7 in 94 mm
Stroke 4.4 in 112 mm
Manufacturer’s gross power rating 42.2 hp 31.5 kW
Rated speed 2,300 rpm
Emissions compliance EPA Tier 4i EU Stage IIIA

POWER TRAIN

Ground drive transmission Hydrostatic drive, infinitely variable from zero to maximum, foot-pedal and hand-lever operated speed/direction control
Differential Dana Model 44, limited slip; Dana Model 60, limited slip
Parking brake Disc, hand-operated
Service brake Ground drive speed/direction control brakes machine hydraulically when moved to neutral position
Attachment drive transmission Hydrostatic, side-mounted, infinitely variable forward and reverse
Trencher drive transmission Hydrostatic

OPERATION

U.S. METRIC
Forward speed, max 4.7 mph 7.6 km/h
Reverse speed, max 2.7 mph 4.4 km/h
Vehicle clearance circle 8.5 ft 2.6 m
Front steer only 26 ft 8.0 m
Coordinated steer 20 ft 6.1 m
Digging chain speed, max 460 fpm 140 m/min
Hauling speed, max 220 rpm

HYDRAULIC SYSTEM @ 2,600 RPM (TIER 4)

Ground drive pump capacity 31.5 gpm 119 l/min
Ground drive pump relief pressure 3,650 psi 252 bar
Attachment drive Trencher 5,000 psi 345 bar
Plow/saw 3,750 psi 259 bar
Attachment pump capacity 31.5 gpm 119 l/min
Auxiliary pump capacity 2.393 psi 162 bar
Auxiliary pump relief pressure 2,100 psi 145 bar

HYDRAULIC SYSTEM @ 2,300 RPM (TIER 4I)

Ground drive pump capacity 29.3 gpm 111 l/min
Ground drive pump relief pressure 3,750 psi 258 bar
Attachment drive Trencher 5,000 psi 345 bar
Plow/saw 3,750 psi 259 bar
Attachment pump capacity 29.3 gpm 111 l/min
Auxiliary pump capacity 2.0 psi 14 bar
Auxiliary pump relief pressure 2,500 psi 172 bar

FLUID CAPACITIES

U.S. METRIC
Fuel tank 13 gal 49 L
Engine oil 6.4 qt 6.1 L
Hydraulic system 13 gal 49 L
Hydraulic reservoir 9.5 gal 36 L
Coolant 3 gal 11 L

BACKFILL BLADE

Blade width 44 in 1.1 m
Blade height 14 in 355 mm
Lift height, above ground 12 in 300 mm
Blade drop, below ground 8 in 200 mm
Swing angle, max 28°
Tilting angle 11°

TIRES/PRESSURE

26 x 12-12, 4-ply bar lug 1,780 lb @ 20 psi 807 kg @ 1.40 bar
29 x 12.50-15, 8-ply bar lug (optional) 2,150 lb @ 30 psi 975 kg @ 2.07 bar

NOISE LEVEL

Operator 96 dBA sound pressure per ISO 6394
Exterior 108 dBA sound power per ISO 6393

BATTERY

Group 26/26R/70
SAE reserve capacity rating 165 min
Cold cranking rating (B50°F (-15°C)) 450 amps
Auxiliary power outlet 12V, 5 amps

* Dimensions are based on H313 attachment and shortest roller boom length, 26 x 12-12 standard tire, and 12-inch pin.
** Operating weight based on H313 attachment, longest roller boom, heaviest chain, 176 lb operator, and 26 x 12-12 tires.

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.
SERVICE
Your Ditch Witch dealership offers professional service technicians who are extensively trained in every aspect of Ditch Witch equipment maintenance and repair. Ask a service representative about our Orange Armor® Planned Maintenance program, a schedule of maintenance at factory-suggested intervals that keeps your equipment in peak operating condition.

DIGGING SYSTEMS
Replacing worn digging system components is essential to maintaining maximum productivity from your trencher. See your dealer for genuine Ditch Witch chain, specially manufactured headshaft sprockets and digging teeth, which are designed to work together as a system to provide unparalleled trenching performance.

PARTS
Tires, O-ring kits, decals, paint, filters, hydraulic cylinder kits, belts, and many other accessories and replacement parts are available at your local Ditch Witch dealership, where you’ll also find expert advice that comes from years of experience in the underground construction industry.