

Vermeer®

Hydrostatic Trencher

RT100



Vermeer®

RT100

A Fully Hydrostatic Unit With Dependable Ground Drive.

The Vermeer RT100 is a compact pedestrian trencher that includes a hydrostatic trencher drive motor and hydrostatic twin wheel motors. More maintenance-friendly than conventional mechanical trenchers, the RT100 features a host of productivity-enhancing features to increase efficiency at the job site.

Greaseless composite headshaft pivot bushings provide a cost-effective alternative to oil/grease seals, gearboxes, and machined surfaces. Steel shielding offers increased durability. A hydraulic oil cooler helps maintain production by controlling oil viscosity. Operator presence levers help position the operator at the controls.

With your choice of three engines ranging from 13 HP – 15 HP (10 kw – 11 kw), a reversible boom that offers double the life of conventional booms, convenient service points that eliminate removing shielding for changing fluids or filters, and a large 16" (41 cm) tapered auger that gives more effective spoil removal with less spoil recycling, the RT100 is your complete rental, cable/telephone and irrigation solution.

Higher Reliability, Lower Maintenance.



Maintenance time and cost is reduced through the use of a fully hydrostatic trencher drive that eliminates all belts, pulleys and gears.



Mechanical moving parts are reduced with a hydrostatic ground drive and twin wheel motors. A hydraulic differential lock bypass increases unit maneuverability.

HYDROSTATIC TRENCHER



RT100 operation is enhanced through color-coded controls that assist operators by improving control recognition.

Increased life of the headshaft, bearings, frame and auger is attained through efficient outboard bearing support. This feature is standard on all RT100 units.



RT100 Specifications

General (basic unit with 13 hp Kohler, 16x6.5-8 tires, 24"x4" partial cup trencher and restraint bar)

Weight: 1030 lb (467 kg)
Length (transport): 86" (218 cm)
Width (overall): 34.5" (87.6 cm)
Height: 46.3" (118 cm) (transport);
45.5" (116 cm) (basic unit)
Wheel Base: 33" (84 cm)
Tread Width: 27.5" (70 cm)
Tire Width (overall): 34" (86 cm)

Trencher

Trench width: 4" – 6" (10 cm – 15 cm)
Trench depth: 24", 30", 36"
(61 cm, 76 cm, 91 cm)

Cutters: Cup, tiger, shark, rotary
Digging chain tensile strength: 34,000 lb (15,422 kg)

Engine

Model:

Option 1 – Kohler Command CH-13 (gas);
Option 2 – Kohler Command CH-15 (gas);
Option 3 – Honda GX390 (gas)

Number of cylinders: 1 (all)

Cooling medium: Air (all)

Bore x Stroke:

Option 1 – 3.43" (8.7 cm) x 2.64" (6.7 cm)
Option 2 – 3.55" (9.0 cm) x 2.64" (6.7 cm)
Option 3 – 3.22" (8.2 cm) x 2.52" (6.4 cm)

Displacement:

Option 1 – 24.3 cu. in. (398 cc)
Option 2 – 26.0 cu. in. (426 cc)
Option 3 – 20.6 cu. in. (337 cc)

Gross HP:

Option 1 – 13 HP (10 kw)
Option 2 – 15 HP (11 kw)
Option 3 – 13 HP (10 kw)

Max. Torque:

Option 1 – 21.2 lb-ft (9.6 kg-m) @ 2400 rpm
Option 2 – 25.3 lb-ft (11.4 kg-m) @ 2400 rpm
Option 3 – 19.5 lb-ft (8.8 kg-m) @ 2400 rpm

Air cleaner: Dry (all)

Max. engine operating angle: 20°

(not a machine stability specification;
do not use to determine safe machine
operating angle)

Fuel tank capacity:

Option 1 – 1.25 gal (4.7 L)
Option 2 – 1.25 gal (4.7 L)
Option 3 – 1.7 gal (6.4 L)

Fuel consumption (@ max load):

Option 1 – 1.21 gph (2.8 L/hr)
Option 2 – 1.3 gph (4.9 L/hr)
Option 3 – 1.08 gph (4.1 L/hr)

Engine oil capacity:

Option 1 – 4 pt. (1.9 L)
Option 2 – 4 pt. (1.9 L)
Option 3 – 2.3 pt. (1.1 L)

Hydraulic System

Oil tank capacity: 11.6 gal (43.9 L)
Oil system capacity: 12 gal (45 L)

Ground Drive

Pump type: Hydrostatic

Pump flow: 9.50 gpm (36.0 L/min.) @ 3600 RPM

Filtration 10-micron

Tire size:

16" x 6.5" – 8 (41 cm x 16.5 cm) lug (standard)
18" x 9.5" – 8 (46 cm x 24.1 cm) lug (optional)
18" x 8.5" – 8 (46 cm x 21.6 cm) turf (optional)

Transport speed @ 3600 RPM std. tire

Fwd: 188 fpm (57.3 m/min)

Rev: 88 fpm (26.8 m/min)

