

# Vermeer<sup>®</sup>

Hydrostatic Trencher / Plow

# RT450





# RT450

## **A Winning Combination of Convenience and Performance**

With unmatched maneuverability, the RT450 is the equipment solution for rental customers, and gas, water / irrigation, cable and electrical contractors. Boasting the shortest turning radius in the industry with optional rear steer capabilities, this machine is capable of getting the job done.

Backed by a 46.3 hp (34.5 kW) Deutz engine, the RT450 delivers the power necessary to tackle tough jobs. In addition, the standard Operator Presence System automatically shuts down the engine when the operator leaves the seat. A set of LED lights, located on the dash, monitors air filter, engine, hydraulic system, and operator presence system allowing for reliable and efficient machine operation.

**Control at your fingertips.**  
Standard remote controls include blade lift, start, and stop. Creep control is optional.



### **Raising the standards.**

Available on both center-mount and sliding offset models, a radial piston trencher drive motor provides reliability and productivity.



### **Readily accessible.**

Color coded grouped controls, positioned to the right side of the operator station, contribute to ease of operation and boosting productivity.





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### Monitoring made easy.

The dash mounted LED display constantly monitors the air cleaner, hydraulic system, engine, battery, and operator presence system.

The filter minder reflects air filter status by becoming increasingly more yellow in color as the filter becomes more restricted.



## Reliable Trenching



## RT450 Specifications

### General

Weight (tractor only): 3380 lb (1533 kg)  
Length (tractor and 6-way backfill blade): 97" (246 cm)  
Width: 58" (147 cm)  
Height (w/ roll bar): 85" (216 cm)  
Wheel base: 46" (117 cm)  
Tread width: 46" (117 cm)  
Ground clearance: 7.5" (19 cm)  
ROPS: 2 post

### Capacities

Fuel tank: 14 gal (53 L)

### Engine

Make and model: Deutz F3L2011  
Horsepower at 2500 rpm (gross): 46.3 hp (34.5 kW)  
Horsepower at 2500 rpm (net): 41 hp (30.5 kW)  
Torque (max @ 1700 rpm): 101 ft-lb (137 Nm)  
Displacement: 142 cu in (2.3 L)  
Number of cylinders: 3  
Cooling medium: Air/oil  
Compression ratio: 19 to 1  
Max. engine operating angle (fore and aft): 25°  
Max. engine operating angle (left and right): 25°  
Fuel type: Diesel  
Air cleaner: Dry with safety element  
Oil filter: Full flow

### Hydraulics

Auxiliary gpm @ 2500 rpm: 11 gpm (40 L/min)  
Auxiliary pump relief: 3000 psi (206.8 bar)  
Ground drive gpm @ 2500 rpm: 30 gpm (115 L/min)  
Ground drive relief: 3625 psi (250 bar)  
Trencher pump relief: 4061 psi (280 bar)  
Trencher pump gpm @ 2500 rpm: 30 gpm (115 L/min)  
Hydraulic tank: 9 gal

### Ground Drive

Pump type: Hydrostatic  
Creep override: Yes  
Forward/reverse foot pedal control: Standard  
Tires considered with travel speed: 26 x 12 – 12 tires  
Travel speed auto/max transit: 4.2 mph (7 km/h)

### Axle

Front type: Dana 44  
Rear type: Dana 44  
Differential (front): With or without LS  
Differential (rear): Rigid with LS or steerable with LS  
Turning radius (front only): 12.75' (3.9 m)  
Turning radius (front & rear): 9.5' (3 m)

### Trencher Boom

Trencher weight: 1160 lb (526 kg)  
Trencher depth range: 0" – 60" (0 cm – 152 cm)  
Trencher width range: 5" – 12" (13 cm – 30 cm)

### Brakes

Service: Foot pedal – hydrostatic  
Parking: Hand lever – enclosed multi-disc wet

### Backfill Blade

Width: 54" (137 cm)  
Height: 15" (38 cm)  
Extension beyond tire (full angle): 7" (18 cm)

### Backhoe Operation

Backhoe: B450  
Weight: 1150 lb (522 kg)  
Bucket width option #1: 12" (30 cm)  
Bucket width option #2: 18" (46 cm)  
Maximum digging depth: 77" (196 cm)  
Swing arc: 170°  
Reach: 117" (297 cm)  
Standard remotes: Engine stop, engine start and blade lift

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*Vermeer offers factory programs to its dealer network to ensure that the most current service procedures are presented to the service personnel of your Vermeer dealer.*



*Genuine Vermeer parts are precision crafted to match your Vermeer equipment EXACTLY. This ensures that your system will run as smoothly as possible, with the least amount of service and maintenance.*



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