

D36x50DR SERIES II NAVIGATOR®

HORIZONTAL DIRECTIONAL DRILL



DUAL ROD TECHNOLOGY. Contractors can meet the challenges of their jobsite with Vermeer dual rod technology. Using a dual threaded joint, the inner rod provides torque to the drill head, while the outer rod offers steering capability to the drill head and additional rotational torque.



THREE'S COMPANY. Featuring an exclusive, patent-pending vise assembly consisting of three sets of vises coupled with a control system to optimize productivity and longevity of drill rod.



MAKEUP OR BREAKOUT. Controls provide options including automated sequence, partially automated sequence or manual sequence of the rod makeup/breakout process depending upon operator preference and level of expertise.



ROD CARRYING CAPACITY. The D36x50DR Series II carries up to 500' (152.4 m) of drill rod, reducing the need to load additional rod when performing extended bores.



CHOOSE YOUR CAB. Available with a climate-controlled cab or economical soft cab; both are designed to enhance operator comfort.



DRILL BIT OF CHOICE. Designed to optimize operation in a variety of conditions, choose from a wide range of drill bits and a specially designed dual rod drill head offered in three different bent sub arrangements.



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**EQUIPPED TO
DO MORE.™**

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GENERAL DIMENSIONS AND WEIGHTS

Transport length: 23.75' (7.2 m)

Transport width: 90" (228.6 cm)

Transport height: 90" (228.6 cm)

Weight [500' (152.4 m) drill rod]: 28,900 lb (13,108.8 kg)

Weight with cab [500' (152.4 m) drill rod]: 29,300 lb (13,290.3 kg)

ENGINE

Make and model: John Deere PowerTech 4045HF275

Fuel type: Diesel

Rated rpm: 2400

Gross horsepower: 140 hp (104 kW)

Cooling method: CAC, air-to-air

EPA certification family: Tier 3 (EU Stage IIIA)

OPERATIONAL

Thrust/Pullback: 38,000 lb (169 kN)

Max carriage speed: 116 ft/min (35.4 m/min)

Max spindle torque (low at max engine rpm): 5700 ft-lb (7728.2 Nm)

Max spindle speed at max engine rpm: 210 rpm

Inner rod max spindle speed: 225 rpm

Min bore diameter (dirt): 3.5" (8.9 cm)

Min bore diameter (rock): 5.75" (14.6 cm)

Max ground drive speed at max engine rpm (fwd): 2.1 mph (3.4 km/h)

Drill rack angle: 17.5°

FLUID CAPACITIES

Fuel tank: 45 gal (170.3 L)

Engine crankcase with filter: 15.5 qt (14.7 L)

Hydraulic tank: 45 gal (170.3 L)

Hydraulic system: 55 gal (208.2 L)

Engine cooling system: 8 qt (7.6 L)

Antifreeze tank for drilling fluid pump: 5 gal (18.9 L)

HYDRAULIC SYSTEM

Auxiliary pump flow at max engine rpm: 10.35 gpm (39.2 L/min)

Auxiliary pump relief pressure: 3000 psi (206.8 bar)

Thrust/Pullback pump flow at max engine rpm: 28.5 gpm (107.9 L/min)

Thrust/Pullback pump relief pressure: 6090 psi (419.9 bar)

Rotation pump flow at max engine rpm: 44 gpm (166.6 L/min)

Rotation pump relief pressure: 6090 psi (419.9 bar)

DRILLING FLUID SYSTEM

Max flow: 70 gpm (265.4 L/min)

Max pressure: 1100 psi (75.8 bar)

FEATURES

Drilling lights: Standard

Flow indicator: Standard

Stakedown system: Aggressive (optional)

Cab: Optional

Rubber tracks: Optional

Remote (and fixed) tracking: Standard

Strike alert: Standard

Remote lockout: Standard

DRILL PIPE – INNER

Type: Firestick drill rod

Length: 10' (3.1 m)

Rod diameter: 1.66" (4.2 cm)

Joint inside diameter: .75" (1.9 cm)

Joint diameter: 1.88" (4.8 cm)

Weight: 38 lb (17.2 kg)

DRILL PIPE – OUTER

Type: Firestick drill rod

Length: 10' (3 m)

Rod diameter: 2.625" (6.7 cm)

Joint inside diameter: 2.06" (5.2 cm)

Joint diameter: 3.313" (8.4 cm)

Weight: 83 lb (37.6 kg)

Min bend radius: 169' (51.5 m)

Max rod carrying capacity: 500' (152.4 m)

Clip weight [500' (152.4 m)]: 7080 lb (3211.4 kg)