

# D36x50DR SERIES II NAVIGATOR<sup>®</sup>

## 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.

# D36x50DR SERIES II NAVIGATOR® HORIZONTAL DIRECTIONAL DRILL

## 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)

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