

D36X50DR SERIES II NAVIGATOR HDD



**D36X50DR SERIES II NAVIGATOR®
HORIZONTAL DIRECTIONAL DRILL**



Ready for Rock?

Featuring dual rod technology, the D36x50DR Series II just won't quit, whether you are facing dirt or the challenge of rock.

A class-leading inner rod torque of 1500 ft-lb (2033.7 Nm) allows for slower turning of drill bits, increasing bit life and lowering cost of operation. A maximum fluid flow of 70 gpm (265 L) and 500 psi (34.5 bar) is achieved due to fluid flowing both through and around the inner rod, allowing for the use of hole openers to enlarge the bore hole with the dual rod system.

And, best of all, switching between rock and dirt applications is a simple, operator-friendly process. There's no extra cost or hassle for operators because there's no need to change out rods or drive chucks when going from application to application. The D36x50DR can carry up to 500' (152.4 m) of drill rod too, so operators can avoid loading additional rod when performing extended bores.

Why does Vermeer offer the best solution to your rock drilling needs? It's more than just our superior product – it's also our worldwide dealer network. A dealer network deeply attuned to the needs of their customers, ready to go the extra mile with product expertise, along with parts and service knowledge.





1: 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.

2: Three's company. Featuring an exclusive, patent-pending vise assembly consisting of three sets of vises coupled with control system to optimize productivity and longevity of drill rod.

3: 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.





4: 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.

5: Choose your cab. Available with a climate-controlled cab or economical soft cab; both are designed to enhance operator comfort.



Dual rod technology. Contractors can meet the challenges of their jobsite with Vermeer dual rod technology. With an industry-exclusive 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.

D36X50DR SERIES II NAVIGATOR® HDD SPECIFICATIONS

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]: 29,300 lb (13,290.3 kg)
Cab weight: 400 lb (181.4 kg)

OPERATIONAL

Thrust/Pullback: 38,000 lb (169 kN)
Max carriage speed: 116 ft/min (35.4 m/min)
Max spindle torque (low speed at max pressure): 6000 ft-lb (8134.9 Nm)
Max spindle torque (medium speed at max pressure): 4500 ft-lb (6101.2 Nm)
Max spindle torque (high speed at max pressure): 3000 ft-lb (4067.5 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 (forward): 2.1 mph (3.4 km/h)
Automated rod loader: Yes
Max drill rack angle: 17.5°

ENGINE

Make and model: John Deere PowerTech™ 4045HF275
Fuel type: Diesel
Fuel tank capacity: 45 gal (170.3 L)
Max fuel consumption: 7.6 gph (28.6 L/hr)
Manufacturers gross hp rating: 140 hp (103 kW)
Engine crankcase with filter: 3.9 gal (14.8 L)
Engine cooling system: 2 gal (7.6 L)
Rated engine speed: 2400 rpm
Displacement: 276 cu in (4.5 L)
Number of cylinders: 4
Cooling medium: CAC, Air-to-Air
Aspiration: Turbocharged
Max operating angle (fore/aft): 30°
Max operating angle (left/right): 30°
Air cleaner: Donaldson
Emissions compliance: Tier 3 (EU Stage IIIA)

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)
Hydraulic supply filter rating: 5 microns
Hydraulic return filter rating: 200 microns
Hydraulic tank capacity: 45 gal (170.3 L)
Hydraulic system capacity: 55 gal (208.2 L)

DRILLING FLUID SYSTEM (OPTION 1)

Max flow: 50 gpm (189.3 L/min)
Max pressure: 1300 psi (89.6 bar)
Drilling fluid pump antifreeze tank capacity: 5 gal (18.9 L)

DRILLING FLUID SYSTEM (OPTION 2)

Max flow: 70 gpm (265 L/min)
Max pressure: 1100 psi (75.8 bar)
Drilling fluid pump antifreeze tank capacity: 5 gal (18.9 L)

DRILL ROD (INNER)

Type: Firestick drill rod
Length: 10' (3 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 ROD (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: 136.5' (41.6 m)

Max rod carrying capacity: 500' (152.4 m)

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

FEATURES

Drilling lights: Standard

Aggressive stakedowns: Optional

Cab: Optional

Rubber track: Optional

Remote (and fixed) tracking: Standard

Remote lockout: Standard

Electric strike alert: Standard

To help ensure smooth-running operations, your local Vermeer dealer offers everything from training and tooling, to electronics and software.



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It's in the mix. Select Vermeer drilling fluid systems feature a modular design for flexible mounting options.



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