

Vermeer®

Horizontal Directional
Drilling System

D36x50

Series II



NAVIGATOR®

Midsized with Big Features.

When horizontal directional drill operators talk, Vermeer listens. That approach has helped make the Vermeer line of Navigator® horizontal directional drills an industry leader. Equipped with innovative features and options, Vermeer offers the D36x50 Series II.

Powered by a John Deere 4045 Tier 3 diesel engine providing 36,000 lb (16,329 kN) of thrust/pullback force and 4,995 ft-lb (6,772 NM) of torque, the D36x50 Series II is ready for a wide range of bores, even in some of the most difficult ground conditions.

An ergonomically designed operator's station features the Vermeer-exclusive Multi-Function Display (MFD), an integrated remote display that is compatible with select DCI drill head locator systems. For precise fingertip control of key machine operations, the D36x50 Series II is equipped with dual electronic joysticks.

With the highest power-to-size ratio in its class and a narrow rack and pinion design for a small footprint, the D36x50 Series II is built to perform.



Climate-controlled cab. The climate-controlled cab option provides 360-degree visibility, allowing the operator to easily monitor all machine operations for enhanced operator efficiency and comfort on the jobsite.

Protect your investment.

The industry-exclusive Vermeer Equipment Limited Warranty offers you peace of mind by providing additional lifetime warranty protection on all rack-and-pinion gears.



Operator's station. As a standard component mounted on the ergonomically designed operator's station, Multi-Function Display (MFD) is an integrated remote display that offers operators the ability to use with select DCI drill head locator systems which enhances flexibility and ease of operation.

Horizontal Directional Drilling System



Versatility.

The Rock Adaptable Terrain Tool (R.A.T.T.) offers operators the ability to drill and steer through varying soil conditions – including soft soil, gravel, cobblestone and solid rock.



AutoDrill

allows the operator to set the rotation and thrust/pullback pressure while drilling in changing soil conditions. The patent-pending Auto Resume function allows slurry/cuttings to mix before thrust/pullback resumes.



Measured to exact tolerances. Firestick® drill stem from Vermeer is designed to handle high-torque drilling situations while retaining a large inside diameter for superior drilling fluid flow. Constructed of Vermeer specified high carbon alloy steel, Firestick drill stem features one-piece, forged rods that have been heat-treated for uniform strength and consistent quality.

D36x50 Series II Specifications

General

- Length with 10' (3 m) rod: 19' (5.8 m)
- Length with 15' (4.6 m) rod: 23.2' (7.1 m)
- Width (transport, no cab): 83" (210 cm)
- Width (transport, cab): 90" (229 cm)
- Height: 75" (191 cm)
- Height (with cab): 89" (226 cm)
- Weight [with 10' (3 m) drill rod]: 19,800 lb (8981 kg)
- Weight [with 10' (3 m) drill rod and cab]: 20,550 (9321 kg)
- Weight [with 15' (4.6 m) drill rod]: 21,850 lb (9910 kg)
- Weight [with 15' (4.6 m) drill rod and cab]: 22,600 lb (10,251 kg)

Power

- Engine: John Deere Diesel 4045 Tier 3 Turbo
- Gross power rating: 140 hp (104 kW)
- Rated rpm: 2400

Fluid Capacities

- Engine oil (including filter): 15.5 qt (14.7 L)
- Fuel tank: 45 gal (170 L)
- Hydraulic tank: 45 gal (208 L)

Operational

- Max spindle torque:
 - Low: 4995 ft-lb (6772 Nm)
 - Medium: 3746 ft-lb (5078 Nm)
 - High: 2498 ft-lb (3385 Nm)
- Max spindle speed: 227 rpm
- Thrust: 36,000 lb (16,329 kN)
- Pullback: 36,000 lbs (16,329 kN)
- Min bore diameter: 3.5" (9 cm)
- Max ground drive speed: 1.5 mph (2.4 km/h)
- Max carriage speed: 175 fpm (53 m/min)
- Drill rack angle: 0-20 degrees
- Angle of approach: 15 degrees
- Automated rod loader: Yes
- Electrical Strike Alert: Yes

Drilling Fluid System

- Max flow: 50 gpm (189 L/min) or 70 gpm (265 L/min)
- Max pressure: 1300 psi (89.6 bar)

Options

- Rubber or steel tracks
- Climate-controlled cab
- Drilling lights
- Bucket greaser: 1 gal (4 L)
- Mud Pump: 50 or 70 gal (189 or 265 L)

Drill Stem 10' (3 m)

- Type: Firestick
- Length: 10' (3 m)
- Pipe diameter option: 2.375" (6 cm) or 2.625" (6.7 cm)
- Minimum bend radius [2.375" (6 cm)]: 108' (33 m)
- Minimum bend radius [2.625" (6.6 cm)]: 145' (44 m)
- Weight [2.375" (6 cm)]: 81 lb (37 kg)
- Weight [2.625" (6.6 cm)]: 117 lb (53 kg)
- Rod carrying capacity [2.375" (6 cm)]: 500' (152 m)
- Rod carrying capacity [2.625" (6.6 cm)]: 450' (137 m)

Drill Stem 15' (4.6 m)

- Type: Firestick
- Length: 15' (4.6 m)
- Pipe diameter option: 2.375" (6 cm) or 2.625" (6.7 cm)
- Minimum bend radius [2.375" (6 cm)]: 108' (33 m)
- Minimum bend radius [2.625" (6.6 cm)]: 145' (44 m)
- Weight [2.375" (6 cm)]: 120 lb (54 kg)
- Weight [2.625" (6.6 cm)]: 165 lb (75 kg)
- Rod carrying capacity [2.375" (6 cm)]: 600' (183 m)
- Rod carrying capacity [2.625" (6.6 cm)]: 525' (160 m)

Vermeer offers everything from specialty tooling to training and technology.

At any given time, more than half of all horizontal directional drilling units in the world are Vermeer Navigator horizontal directional drills. To help ensure smooth-running operations, Vermeer offers everything you need — from one-day training seminars to computer software — for more efficient bore planning and performance.



The Vermeer Cutting Edge Group produces some of the world's most popular HDD tooling, specialty tooling and custom-made tooling. Call for a **FREE** HDD accessories catalog! **Call 1-866-VERMEER or view online at www.vermeer.com.**



High volume. The MX240 Modular Drilling Fluid System is designed to deliver fast mixing of drilling fluid for larger-diameter and long-distance HDD applications.



Wetting agents, polymers and bentonites — you need the right mix to get through the tough bores. Vermeer offers specially formulated nontoxic polymer and bentonite drilling fluids to get the job done.



Locating systems are developed by working closely with the world's premier locating companies. Vermeer helps keep you on the leading edge of technology by offering a variety of options designed to meet the needs of varying applications.



Vermeer features a global team of Navigator HDD solutions specialists that provide localized training and operation expertise designed for the conditions in your area.



One-day horizontal directional drilling seminars offered by industry experts at a Vermeer dealership near you focus on current issues in the horizontal directional drilling industry.



The efficient, economical way to plan a bore. Vermeer ATLAS BORE PLANNER® software heightens professionalism by aiding the operator in preplanning the bore and comparing the planned bore path with the actual bore path. The Vermeer FieldCalc™ system combines software and a hand-held computer to provide jobsite calculations, including setback distance, pullback time and point-to-point calculations.

Your Complete Global Service Provider for Quality Parts and Service.



Get the parts and service edge. In addition to providing quality equipment, Vermeer delivers top-quality parts and superior services. Vermeer parts are manufactured to exacting specifications to help keep your Vermeer equipment running trouble-free and at OEM specifications.



Vermeer offers factory-certified training 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.



Vermeer EMEA
(Europe, Middle East, Africa and CIS)
P.O. Box 323
4460 AS Goes
the Netherlands
Phone: +31 113 272700
Fax: +31 113 272727

Vermeer Corporation
1210 Vermeer Road East
P.O. Box 200
Pella, Iowa 50219 U.S.A.
Phone: (641) 628-3141
Fax: (641) 621-7773
International fax: +1 (641) 621-7730
www.vermeer.com

Vermeer Asia Pacific
48 Toh Guan Road East
#01-105 Enterprise Hub
Singapore 608586
Phone: +65 6516 9560
Fax: +65 6515 9218

Call toll-free 1-888-VERMEER
1-888-837-6337 (U.S.A. only))

Equipment shown is for illustrative purposes only and may display optional accessories or components. Please contact your local Vermeer dealer for more information about machine specifications. Vermeer Corporation reserves the right to make changes in engineering, design and specifications; add improvements; or discontinue manufacturing at any time without notice or obligation. VERMEER, VERMEER LOGO, NAVIGATOR, ATLAS BORE PLANNER, FIELD CALC and FIRESTICK are trademarks of Vermeer Manufacturing Company in the U.S. and/or other countries. JOHN DEERE is a registered trademark of John Deere & Co. © 2009 Vermeer Corporation. All Rights Reserved