

Vermeer®

Horizontal Directional
Drilling System

D24x40

Series II



NAVIGATOR®

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Midsized with Big Features.

Vermeer has taken the most popular drill in the world and made it even better. The new D24x40 Series II offers reduced maintenance through the innovative rack-and-pinion carriage and improved rod loader design.

The customer designed operator's station requires less hand movement from the operator. This new design helps reduce fatigue and increases efficiency on the job site.

The D24x40 Series II provides 4000 ft-lb (5423 Nm) of torque and 24,000 lb (10,886 kg) of thrust/pullback force to perform a wide range of bores in difficult ground conditions.

The high torque and pullback force is combined with a 50 gpm (189 L/min) variable flow onboard mud pump. The D24x40 Series II can be combined with the ST750A or MX250 mixing system. Both of these combinations provide a reliable supply of drilling fluid to the drill.

The D24x40 Series II features a simple and reliable design that includes manually controlled pumps and minimal electronics. A torque limiter and floating head design results in accurate torque which increases the life of the drill stem joint.

Other features include a drilling fluid flow indicator, drilling lights, breakout system, and stationary stakedowns. Steel or rubber tracks are optional.

**4 YEAR/
4000 HOUR
WARRANTY**



Protect your investment. The industry-exclusive Vermeer Equipment Limited Warranty offers you peace of mind by providing 4 years/4000 hours of warranty protection on all rack-and-pinion gears.



Built to succeed. The machine's ability to run an optional Air Impactor or RockFire® Rock Drilling System allows it to be utilized on a wide variety of installations. Universal transmitter housing features a side-load design that provides easy access to electronics and delivers unmatched ease and versatility.

HORIZONTAL DIRECTIONAL DRILLING SYSTEM



Improved torque curve. The D24x40 Series II features a larger displacement engine than its predecessor. The John Deere Tier 2 turbo diesel engine provides 125 gross hp for better lugging capabilities in tough drilling conditions.



A state-of-the-art operator's station, ergonomically designed for comfort and efficiency, offers an elevated swing-out seat and individual joystick controls. For added control, the individual thrust and rotation hydraulic pumps are manually controlled to give the operator good "feel" and reduce machine complexity.

More torque.



D24x40 Series II Specifications

General

Length: 233" (591 cm)
Width (fixed tracks): 82" (208 cm)
Height: 76" (193 cm)
Weight: 18,400 lb (8346 kg)

Operational

Max spindle torque:
@ 130 rpm: 4000 ft-lb (5423 Nm)
@ 175 rpm: 3000 ft-lb (4067 Nm)
@ 260 rpm: 2000 ft-lb (2711 Nm)
Max spindle torque: 4000 ft-lb (5423 Nm)
Max spindle speed: 260 rpm
Thrust (actual): 24,000 lb (10,886 kg)
Pullback (actual): 24,000 lb (10,886 kg)
Min bore diameter: 3.5" (9 cm)
Max ground drive speed: 1.5 mph (2.4 km/h)
Max carriage speed: 150 fpm (45.72 m/min)
Drill rack angle: 30 – 41°
Automated rod loader: Yes

Drilling Fluid System

Max flow: 50 gpm (189 L/min)
Max pressure: 1300 psi (90 bar)

Features

Breakout system: Power vise
Drilling lights
Flow indicator
Stakedown system

Drill Stem

Type: FIRESTICK I
Length: 10' (3.1 m)
Joint diameter: 2.63" (6.7 cm)
Pipe diameter: 2.375" (6 cm)
Weight: 75 lb (28 kg)
Min bend radius: 108' (32.9 m)
Rod carrying capacity: 500' (152.4 m)

Power

Engine: John Deere 4045H Tier 2
Gross power rating: 125 hp (93 kW)
Rated rpm: 2400

Fluid Capacities

Engine oil (including filter): 15.5 qt (14.7 L)
Fuel tank: 45 gal (170 L)
Hydraulic reservoir: 55 gal (208 L)



Measured to exacting tolerances. The D24x40 Series II carries 500' (152.4 m) of one-piece FIRESTICK® I drill stem in 10' (3.1 m) lengths designed to handle high torque while retaining a large inside diameter for superior drilling fluid flow.

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 machines. 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.**



Vermeer drilling fluid management systems provide the horizontal directional drill with quality mud mixing in a minimum amount of time. Smaller systems are self-contained on a mounting skid. Larger systems are available preassembled on mounting platforms to provide drilling operations with greater versatility.

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 job site 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®

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