

Vermeer®

Horizontal Directional Drill

D 80x100

Series II



NAVIGATOR®

Efficiency at its Best.

The Vermeer® D80x100 Series II Navigator® horizontal directional drill (HDD) was designed with the operator in mind. A climate-controlled cab with 360-degree visibility, a state-of-the-art operator's station and dual joystick controls all help to increase operator efficiency in the field.

The D80x100 Series II delivers 10,000 ft-lb (13,558.2 Nm) of rotational torque and 80,000 lb (36,287.4 kg) of thrust/pullback force to perform a wide range of bores in difficult ground conditions. Equipped with a 200 hp (149.1 kW) John Deere diesel engine, the D80x100 Series II offers a 150 gpm (567.8 L/min) or 200 gpm (757.1 L/min) onboard pump for increased back-reaming efficiency and power to downhole mud motors.

For increased strength, the D80x100 Series II is equipped with a pre-heat-treated alloy steel rack-and-pinion carriage drive. Bolt-on gear rack sections make replacement easy when compared to welded gear rack sections.

An optional telescopic crane allows the drill operator to change out rod boxes without the use of an excavator or backhoe. The remote-controlled crane gives the operator freedom to move around the drill for improved visibility when replacing rod boxes. The crane has a lift capacity of 7530 lb (3415.6 kg) and a maximum reach of over 20' (6.1 m).



Climate-controlled cab. The standard cab provides 360-degree visibility for easy monitoring of all machine operations. Independent heating and air-conditioning controls allow the operator to control the cab climate and enhance comfort in all weather conditions, including snow, rain and summer heat. A full-size hinged door provides easy access to the operator's station, while tinted glass windows help reduce glare and heat from the sun.



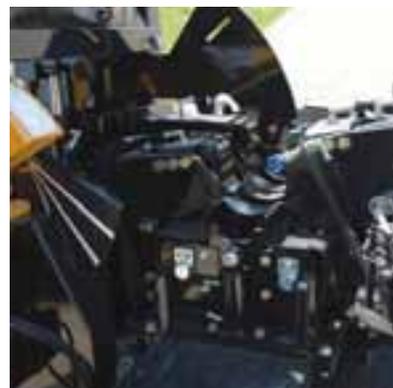
State-of-the-art operator's station. Dual joysticks control functions for drilling fluid flow, breakout vise and throttle, and are integrated into the thrust and rotation controls. This feature provides the operator fingertip control over repetitive drill functions.



Horizontal Directional Drill



Rack-and-pinion drive. This system provides for smooth operation. The rack is sectionalized and bolts on for easy repair or replacement.



The floating vise feature allows the breakout system to clamp the full rod upsets during breakout of the lower and upper joints. The D80x100 Series II uses replaceable breakout dies.



Protect your investment. In addition to the Vermeer Equipment Limited Warranty, Vermeer offers you peace of mind by providing additional lifetime limited warranty protection on all rack gears and pinion gears.*

* Covered components: all rack gears and pinion gears. Excludes carriage, carriage rollers and guide rollers. See policy for details.



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.



D80x100 Series II Specifications

General

Length (transport): 29.8' (9.1 m)
Width (transport): 93" (236.2 cm)
Height: 118" (299.7 cm)
Height (with crane option): 11' (3.4 m)
Weight (24-rod box): 42,500 lb (19,277.7 kg)
Weight (12-rod box, crane): 43,000 lb (19,504.5 kg)

Power

Engine: John Deere 6068 Tier 3
Gross power rating: 200 hp (149.1 kW)
Rated rpm: 2400

Fluid Capacities

Engine oil (including filter): 5 gal (18.9 L)
Fuel tank: 75 gal (283.9 L)
Hydraulic tank: 85 gal (321.8 L)

Operational

Max spindle torque:
Low: 10,000 ft-lb (13,558.2 Nm)
Medium: 6700 ft-lb (9084 Nm)
High: 5000 ft-lb (6779.1 Nm)
Max spindle speed: 180 rpm
Thrust: 80,000 lb (36,287.4 kg)
Pullback: 80,000 lb (36,287.4 kg)
Min bore diameter: 5" (12.7 cm)
Max ground drive speed: 3.2 mph (5.1 km/h)
Max carriage speed: 175 fpm (53.3 m/min)
Drill rack angle: 33°
Remote lockout: Yes
Electrical strike alert: Yes

Drilling Fluid System

Max flow: 150 or 200 gpm (567.8 or 757.1 L/min)
Max pressure: 1100 psi (75.8 bar)

Features

Breakout system: Power vise
Drilling lights
Flow indicator

Crane

Weight: 2500 lb (1134 kg)
Max lifting capacity: 7530 lb (3415.6 kg)
Max lifting capacity (at full reach): 2350 lb (1065.9 kg)
Rotation: 200°
Max reach: 20.6' (6.3 m)

Drill Rod

Type: Firestick
Length: 15' (4.6 m)
Joint diameter: 3.625" (9.2 cm)
Pipe diameter: 3.5" (8.9 cm)
Weight: 250 lb (113.4 kg)
Clip weight (12-rod box): 3550 lb (1610.3 kg);
(24-rod box): 6550 lb (2971 kg)
Min bend radius: 197.4' (60.2 m)
Rod carrying capacity (24-rod box): 360' (109.7 m)

Vermeer offers everything from specialty tooling to training and technology.



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

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.



Vermeer drilling fluid management systems, including the MX240 (shown), provide the horizontal directional drill with quality mud mixing in a minimum amount of time.



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.



Position HDD as green with e-CALC by Vermeer, a software tool developed to help estimate and compare the carbon emissions of various underground installation methods, including horizontal directional drilling and open-cut with excavators.



The efficient, economical way to plan a bore. Vermeer software heightens professionalism by aiding the operator in preplanning the bore and comparing the planned bore path with the actual bore path.

The Vermeer dealer network: Reliable support, all over the world.



With nearly 200 locations across the globe - you're never far from an independent, authorized Vermeer dealer. Our dealers are in place to support your success with product expertise that's second to none.



When you need service, you can count on your local Vermeer dealer. With multiple locations, remote service trucks, and factory-offered technician training, your local Vermeer dealer offers reliable service that keeps your equipment running.



Vermeer parts are designed and manufactured to original specifications, so whether they're new parts or replacement parts, they'll live up to the Vermeer name.



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