

# D200x300 NAVIGATOR®



## Horizontal Directional Drilling System



## Efficient Design, Mobility & Transportability

Meeting the needs of large drilling contractors for increased flexibility, serviceability and mobilization, the Vermeer D200x300 features an industry-exclusive attached climate controlled 2-man operator's station with fold-down surveyor's table. Vermeer also provides the industry's only global dealer network of large drill rigs. This means that wherever the job site is located, service and support are nearby and ready to help.

The self-contained D200x300 integrates the power pack, operator's station, and crane with a rack and pinion design to offer 30,000 ft-lbs (40,700 Nm) of rotary torque and 200,000 lbs. (90,700 kg) of thrust and pullback capability. The D200x300 was designed to minimize support equipment and maximize operator efficiency. All functions, including transport, drilling controls, crane, and drilling fluid controls, are operated from the operator's station. Operators can also find added convenience in the ease of transport and minimal amount of set-up time required by the machine.

To supply fluid needs, Vermeer also offers both stand alone fluid pumping systems and fluid recycling systems. The SA300 remote high pressure pumping station provides 300 or 470 gpm (1140 or 1780 L/min) of drilling fluid flow to the D200x300. On jobs requiring reclaimers, the Vermeer R300 processes up to 300 gpm (1140 L/min) of drilling fluid returns to a d50 20 micron cut.

The D200x300 rack will accept oil field drill stem up to 32' (9.75 m) in length and upset diameters up to 10 inches (25 cm). The D200x300's breakout wrench features a patent pending true open-top vise providing easy stem placement and removal from the rack. The vise also allows the use of wash over pipe up to 10" (25 cm) diameter. Serviceability is enhanced with engine bay doors that fully open on one side of the machine to provide easy access to engine service points, fuel, hydrostatic pumps and filters, and hydraulic diagnostic ports.

The D100x120 also features the patented Remote Lockout System, a two-way communication and control tool that allows workers to lockout drill stem rotation, thrust and fluid flow along the bore path or at the exit site. This system was designed to prevent injury that can occur as a result of unexpected drill string operation.

### Drill Unit

Length: 53.3' (16.25 m)  
Width (transport): 100" (254 cm)  
Height: 134" (340 cm)  
Weight: 76,000 lb (43,500 kg)

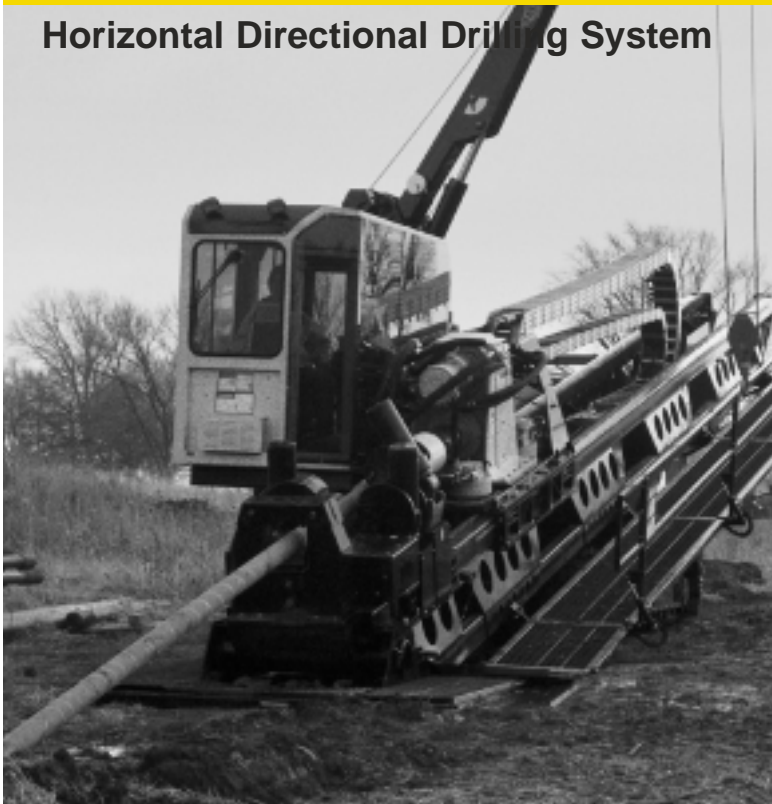
### Operational

Maximum spindle torque (Normal): 30,000 ft-lb @ 50 rpm  
(40,700 Nm @ 50 rpm)  
Maximum spindle torque (Medium): 22,700 ft-lb @ 70 rpm  
(30,800 Nm @ 70 rpm)  
Maximum spindle torque (High): 15,000 ft-lb @ 100 rpm  
(20,300 Nm @ 100 rpm)  
Actual Thrust: 200,000 lb (90,700 kg)  
Actual pullback: 200,000 lb (90,700 kg)  
Maximum spindle speed: 100 rpm  
Minimum bore diameter: 6.5" (17 cm)

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Maximum ground drive speed: 3 mph (4.8 km/h)  
Maximum carriage speed: 63 ft/min (19 m/min)  
Drill rack angle: 21%  
Breakout System: Vermeer open top-accepts up to 10" dia.  
Drilling Lights: Yes  
Flow Indicator: Yes  
Stakedown System: Pad Mount  
Cab: Integrated 2 Person All Climate  
Remote Lockout: Yes-Standard

## Drill Stem

Type: Firestick<sup>®</sup> or Oil Field  
Length: 30' (9.14 m)  
Joint Diameter: 5.875" (15 cm)  
Pipe Diameter: 5" (13 cm)  
Weight: 720 lb (327 kg)  
Minimum Bend Radius: 231' (70 m)  
% Pitch/Stem: 13%  
Joint Inside Diameter: 3.5" (9 cm)

## Power Source

Engine: Caterpillar C-12  
Gross Power Rating: 400 HP (300 kw)  
Net Power Rating: 360 HP (270 kw)  
Rated RPM: 2100 rpm

## Crane

Maximum Lifting Capacity: 14,000 lb (6350 kg)  
Maximum Lifting Capacity- Boom Horizontal/ Max Reach:  
2,600 lb (1180 kg)  
Rotation: 450 degrees  
Maximum Reach: 25' (7.62 m)

## Fluid Capacities

Fuel Capacity: 210 gal (800 L)  
Hydraulic Reservoir: 200 gal (760 L)

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