

D300x500 NAVIGATOR®



Horizontal Directional Drilling System



The D300x500 rack accepts drill stem up to 34 ft. (10 m) in length and upset diameters up to 10" (25 cm). Firestick® drill stem in 30 ft. (9 m) sections is optional with the unit.

With input from some large contractors in the industry, the D300x500 meets the needs of the industry for increased flexibility and ease of transport and is an ideal entry machine into larger drilling markets.



A hydraulically controlled platform allows access to the rack and gearbox and helps in the rod loading process.

A Power Packed Performer

Combining a powerful large rig with efficient design, mobility and transportability to serve a growing amount of larger utility work, the Vermeer D300x500 NAVIGATOR® HDD meets the needs of larger drilling contractors for increased flexibility, serviceability and mobilization.

The D300x500 integrates the power pack, operator's station, and crane with a rack and pinion design to offer 50,000 ft-lbs (67,791 Nm) of rotary torque and 300,000 lb (136,077 kg) of thrust and pullback capability. Designed to decrease support equipment and increase operator efficiency, all functions – including transport, drilling controls, crane and drilling fluid controls – are operated from the operator's station.



The fully integrated 2-person cab offers an excellent view of the operation and provides a high degree of comfort for the operator and a locator.

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Drill Unit

Length: 53.3' (16.3 m)
Width (transport): 100" (254 cm)
Height (transport): 134" (340 cm)
Weight: 90,000 lb (41,000 kg)
Drilling Lights: Yes
Cab: Integrated 2-person all climate

Operational

Spindle Torque (stall):
50,000 ft-lb (67,800 Nm) @ 44 RPM
37,500 ft-lb (50,800 Nm) @ 59 RPM
25,000 ft-lb (33,900 Nm) @ 88 RPM
Actual pullback: 300,000 lb (136,000 kg)
Actual thrust: 300,000 lb (136,000 kg)
Maximum spindle speed: 88 RPM
Maximum carriage speed: 56 fpm (17 m/min)
Minimum bore diameter: 6.5" (17 cm)
Maximum ground drive speed: 3 mph (4.8 km/h)
Drill rack angle: 22 - 32°
Remote Lockout: Standard

Hydraulic Breakout System

Open top with 10" (25 cm) of clearance
Breakout force: 90,000 ft-lb (122,000 Nm)
Breakout rotation: 42 degrees
Clamping force: 74,000 lb (33,560 kg)
Vise separation: 10" (25 cm)
Vise travel: 60" (152 cm)

Crane

Maximum lifting capacity: 14,000 lb (6350 kg)
Maximum lifting capacity – Boom horizontal/maximum reach:
2600 lb (1180 kg)
Maximum reach: 25' (7.6 m)
Rotation: 450 degrees

Power Source

Engine: Caterpillar C-15
Gross power rating: 525 HP (391 kw)
Net power rating: 470 HP (350 kw)
Rated RPM: 2100 rpm

Fluid Capacities

Hydraulic Reservoir: 210 gal (795 L)
Fuel Tank: 200 gal (757 L)

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