

Vermeer Navigator D500X500

Horizontal Directional Drilling Rig



Field-tested to prove it can handle the toughest large-diameter projects, the D500x500 is equipped with all the features HDD operators need to get the job done. It drills through almost any ground conditions with 50,000 ft-lb/68,000 Nm of rotational torque and 500,000 lbs/2,224 kN of thrust/pullback.

Key Features

- Operates efficiently with high-torque, low speed Hagglund hydraulic motors powering the rotary and carriage drives so you can run full torque and full rotary rpm simultaneously.
- Reduces stress on the motor, because the thrust box bearing-pack assembly is designed to absorb the axial load caused by thrust and pullback.
- Helps prevent rod wrap or wind-up because its floating vice allows the breakout system to clamp the full rod upsets during breakout of the lower and upper joints.
- Muscles through difficult ground formations with higher torque than other models.



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DRILL RACK

Min transport length:	50.3' (15.3 m)
Width:	8.5' (2.6 m)
Min transport height:	11.5' (3.5 m)
Weight:	84,800 lb (38,464.6 kg)
Suspension:	Dual axle with air ride suspension
Front base anchor length:	20' (6.1 m)
Front base anchor width:	6' (1.8 m)
Front base anchor height:	38.4" (97.5 cm)
Front small anchor length:	10.5' (3.2 m)
Front small anchor width:	5.5' (1.7 m)
Front small anchor height:	22.8" (57.9 cm)
Rear base anchor length:	16' (4.9 m)
Rear base anchor width:	7.8' (2.4 m)
Rear base anchor height:	15.6" (39.6 cm)
Drill rack angle:	10° - 15° (17.5% - 26.2%)

DRILLER'S CABIN

Length:	11.6' (3.5 m)
Width:	7.9' (2.4 m)
Height:	8' (2.4 m)
Weight:	7800 lb (3538 kg)
Heat and air conditioning:	3 ton (10.6 kW) in-wall combination unit

OPERATIONAL

Thrust/Pullback:	493,000 lb (2193 kN)
Max spindle torque:	52,900 ft-lb (71,722.8 Nm)
Max spindle speed	73 rpm
at max engine rpm (with PS800)	
Max carriage speed	71 fpm (21.6 m/min)
at max engine rpm:	
Number of rotation motors:	1
Number of drive motors:	2
Mud swivel:	3" (7.6 cm)

POWER PACK

Length:	24.4' (7.4 m)
Width:	8.1' (2.5 m)
Height:	10.3' (3.1 m)
Weight:	38,000 lb (17,236.5 kg)
Make and model:	(1) CAT C-27 ACERT
Fuel type:	Diesel
Fuel capacity:	500 gal (1892.7 L)
Hydraulic tank capacity:	720 gal (2725.5 L)
Max engine rpm:	2000 rpm
Gross horsepower:	800 hp (597 kW)
EPA certification family:	Tier 3 (EU Stage IIIA)

LOWER BREAKOUT VISE

Breakout torque:	147,500 ft-lb (199,983.1 Nm)
Configuration:	3-jaw clamp, 8" (20.3 cm)
Weight:	3800 lb (1723.7 kg)
Travel:	6' (1.8 m)
Inside diameter:	10" (25.4 cm)

UPPER BREAKOUT VISE

Clamp force:	176,000 lb (782.8 kN)
Configuration:	2-jaw clamp
Inside diameter:	10" (25.4 cm)

SAFETY

Remote lockout:	Yes
Strike alert:	Yes

