



**CLIMATE-CONTROLLED CAB.** Enhances operator comfort and provides protection from the weather, which reduces operator fatigue and discomfort, helping increase productivity.



**OPEN-TOP VISE DESIGN.** Features an open-top vise design for the purpose of removing and adding tooling.



**DUAL-PIVOT RACK.** Allows for rack entry angles from 10 degrees to 24 degrees to help maximize the versatility of the rig for various product pipes and jobsite terrains.



**OPTIONAL ROD LOADER.** A single-row, sliding-arm rod loader allows for the staging of five rods, helping increase boring efficiency by minimizing rod-loading time.



**OPTIONAL CRANE.** Choose the optional telescoping crane to help reduce the amount of support equipment needed onsite.



**OPTIONAL ONBOARD DRILLING FLUID PUMP.** 1136 L/min (300 gpm) for a self-contained drilling system. For larger projects, the onboard pump can be used in combination with a stand-alone pump if additional fluid flow is required.



# **D220x300s NAVIGATOR**<sup>®</sup> HORIZONTAL DIRECTIONAL DRILL Available only through select Vermeer dealers for sale into less emission-regulated countries.

# **GENERAL WEIGHT AND DIMENSIONS**

Length: 11.8 m (38.5') Width: 2.3 m (7.5') Height: 3 m (9.7') Weight (basic unit): 29,000 kg (63,900 lb) Weight (full featured): 31,200 kg (68,784 lb)

### **OPERATIONAL**

Max thrust/pullback in low speed: 100,000 kg (220,000 lb) Max thrust/pullback in high speed: 50,000 kg (110,000 lb) Max rotational torque in low speed: 40,675 Nm (30,000 ft-lb) Max rotational torque in medium speed: 30,896 Nm (22,788 ft-lb) Max rotational torque in high speed: 22,951 Nm (16,928 ft-lb) Max rotation speed (low): 79 rpm Max rotation speed (medium): 104 rpm Max rotation speed (high): 140 rpm Max ground drive speed: 2.5 km/h (1.6 mph)

# ENGINE

Make and model: Xi'an Cummins QSM11-400 Engine tier: Tier 2 Manufacturer's rated power: 298 kW (400 hp) Rated rpm: 2100

# DRILL PIPE

Type: NC46 API/NC50 API 11.4 cm (4.5"), 12.7 cm (5") Length: 6.1 m (20') Diameter: 11.4 cm (4.5"), 12.7 cm (5") Entry angle: 10-24 degrees

### **OPTIONAL CRANE**

Capacity: 2000 kg (4410 lb) Lifting capacity at max reach: 500 kg at 6.2 m (1102 lb at 20') Rotation: 360 degrees

# **DRILLING FLUID SYSTEM**

Max pressure: 110 bar (1650 psi) Max flow: 76 bar (1100 psi)

# FLUID CAPACITIES

Hydraulic tank: 800 L (211 gal) Fuel tank: 590 L (156 gal)

# FEATURES

Breakout system (vise): Standard Stakedown (base anchor): Optional Drilling lights: Standard Mud flow status: Standard Cab: Standard Rod Loader: Optional Electric Strike Alert: Standard Remote Lockout: Standard

#### NOTES:



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