

# D220x300 S3 NAVIGATOR®

## HORIZONTAL DIRECTIONAL DRILL



**COMPACT FOOTPRINT.** The compact footprint of the D220x300 S3 is suited for hard-to-access, narrow jobsites, while its self-contained design lessens the need for cumbersome support equipment.



**WISE.** The sliding vise moves 35.4" (89.9 cm) to help operators position the vise for maximum efficiency when reaming or pulling product.



**COMMON CONTROLS.** The D220x300 S3 shares common controls with other drills in the Navigator lineup, which can decrease operator training time and allow faster startups.



**KNUCKLEBOOM CRANE.** The optional knuckleboom crane mounted on either side of the base anchor maneuvers heavy tooling, reducing the need for support equipment.



**POWER-TO-SIZE RATIO.** The power-to-size ratio allows for twice the pullback and rotation of similarly sized drills for versatile applications.



**ROD LOADER.** A single row, sliding arm rod loader allows for the staging of five rods at one time, increasing boring efficiency by minimizing rod loading time.

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## GENERAL DIMENSIONS AND WEIGHTS

Min transport length: 37' (11.3 m)

Min transport width: 100" (254 cm)

Min transport height: 11.3' (3.4 m)

Weight: 74,000 lb (33,565.84 kg)

## ENGINE

Make/Model: CAT C13 ACERT Tier 4 Final

Fuel type: Ultra-low sulfur diesel

Max engine rpm: 2150 rpm

Gross horsepower: 415 hp (309 kW)

Cooling method: Liquid

Aspiration: Turbocharged and after-cooled

Emissions rating: Tier 4 Final (EU Stage IV)

## OPERATIONAL

Thrust/Pullback: 242,100 lb (1076.9 kN)

Max carriage speed at max engine rpm: 120 fpm (36.6 m/min)

Max spindle torque (low at max engine rpm): 30,750 ft-lb (41,691.4 Nm)

Max spindle speed at max engine rpm: 164 rpm

Max ground drive speed at max engine rpm: 1.8 mph (2.9 km/h)

Noise level at operator's ear: 85 dB(A)

Drill rack angle: 10°-17° (17.6%-30.6%)

## FLUID CAPACITIES

Fuel tank: 134 gal (507.2 L)

Hydraulic tank: 166 gal (628.4 L)

## DRILLING FLUID SYSTEM

Make: Weatherford

Max flow: 345 gpm (1306 L/min)

Max pressure: 1200 psi (8.3 MPa) at 213 gpm (806.3 L/min)

## OPTIONAL CRANE

Weight: 2600 lb (1179.3 kg)

Max reach: 26.3' (8 m)

Max lifting capacity: 5950 lb (2698.9 kg)

Max lifting capacity at max reach: 2530 lb (1147.6 kg)

Rotation: 400°

Wireless remote: Yes

## FEATURES

Breakout system: Open-top, dual clamp, 10.2" (25.9 cm) diameter opening

Drilling lights: Yes

Flow indicator: Yes

Cab: Yes

Strike alert: Yes

Remote lockout: Yes

## DRILL PIPE

Thread type: NC50 DS [4.5" (11.4 cm) IF double shoulder]

Length: 20' (6.1 m)

Rod diameter: 5" (12.7 cm) at 19.5 lb/ft (29 kg/m)

Wall thickness: .362" (9.2 mm)

Joint inside diameter: 3.5" (8.9 cm)

Joint outside diameter: 6.63" (16.8 cm)

Weight per joint: 540 lb (244.9 kg)

**NOTES:**

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