

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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