

D100x140 NAVIGATOR[®]

HORIZONTAL DIRECTIONAL DRILL



OPEN-TOP VISE. An angled, open-top vise allows for the passage of larger tooling. Because of the large opening, operators can also use it to break out tooling.



STACKABLE ROD BOXES. Stackable rod boxes are easy to use with a single pin and patent-pending auto lock.



MONITOR YOUR DRILLING ACTIVITY. Standard dual large, color LCD monitors offer visibility to machine information and DCI locator information.



OPTIONAL ONBOARD CRANE. Choose the optional onboard knuckleboom style crane to reduce the amount of support equipment needed onsite.



INCREASE YOUR RANGE. Unique four-bar linkage rack and additional pads allow operators to set up entry angles ranging from 12 - 24° (15' rod option) and 8 - 24° (20' rod option) increasing range attainable with tracks fully on ground.



FIRESTICK[®] DRILL ROD. Experience the difference that has made one-piece, forged Firestick drill rod the industry benchmark.

D100x140 NAVIGATOR® HORIZONTAL DIRECTIONAL DRILL

GENERAL WEIGHTS AND DIMENSIONS

Transport length (15' rod option): 29.8' (9.1 m)

Transport length (20' rod option): 37.8' (11.5 m)

Transport width: 100" (254 cm)

Min transport height: 11.3' (3.45 m)

Weight (15' rod option): 50,500 lb (22,906.4 kg)

Weight (20' rod option): 57,220 lb (25,954.6 kg)

ENGINE

Make: CAT

Fuel type: Diesel

Gross power rating: 275 hp (205.1 kW)

Max engine rpm: 2200 rpm

Cooling method: Water

Aspiration: Turbo

Emissions compliance: Tier 4i (EU Stage IIIB)

OPERATIONAL

Thrust/Pullback: 100,000 lb (444.8 kN)

Max carriage speed: 175 ft/min (53.3 m/min)

Max spindle torque (low at max engine rpm): 14,000 ft-lb
(18,981.45 Nm)

Max ground drive speed: 2.8 mph (4.5 km/h)

Noise level: 84 dB(a)

FLUID CAPACITIES

Fuel tank: 120 gal (454.3 L)

Engine crankcase with filter: 4.4 gal (16.7 L)

Hydraulic tank: 90 gal (340.7 L)

HYDRAULIC SYSTEM

Auxiliary pump flow at max engine rpm: 13.4 gpm (50.7 L/min)

Auxiliary pump relief pressure: 3000 psi (206.8 bar)

Thrust/Pullback pump flow at max engine rpm: 53 gpm (200.6 L/min)

Thrust/Pullback pump relief pressure: 6000 psi (413.7 bar)

Rotation pump flow at max engine rpm: 96 gpm (363.4 L/min)

Rotation pump relief pressure: 5400 psi (372.3 bar)

DRILLING FLUID SYSTEM

Max flow: 230 gpm (870.6 L/min)

Max pressure: 1100 psi (75.8 bar)

OPTIONAL CRANE

Weight: 2800 lb (1270.1 kg)

Max lifting capacity at 13' (4 m): 5070 lb (2299.7 kg)

Max lifting capacity at 19.5' (5.9 m): 4200 lb (1800.8 kg)

Rotation: 400°

Max reach: 19.5' (5.9 m)

Remote: Radio

FEATURES

Drilling lights: Standard

Stakedown system: Optional

Remote ground drive control: Optional

Strike alert: Standard

Remote lockout: Standard

DRILL PIPE OPTION ONE

Type: Firestick drill rod

Length: 15' (4.6 m)

Joint diameter: 4.375" (11.1 cm)

Pipe diameter: 3.5" (8.9 cm)

Weight: 261 lb (118.4 kg)

Min bend radius: 197' (60 m)

Rod carrying capacity: 135' (41.15 m) with permanent rod box,
270' (82.3 m) with stacked box

DRILL PIPE OPTION TWO

Type: Firestick drill rod

Length: 20' (6.1 m)

Joint diameter: 4.4" (11.2 cm)

Pipe diameter: 3.5" (8.9 cm)

Weight: 360 lb (163.3 kg)

Min bend radius: 197' (60 m)

Rod carrying capacity: 180' (54.9 m) with permanent rod box,
360' (109.7 m) with stacked box

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