

# D100x140 NAVIGATOR<sup>®</sup>

## 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<sup>®</sup> 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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