# D100x140 S3 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.



**DRILL EFFICIENTLY.** The D100x140 S3 features the DigiTrak<sup>®</sup> Aurora<sup>™</sup> full-color touchscreen display, delivering an engaging experience, which helps make a driller's day more productive.



**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 of 11°– 24° — 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 S3 NAVIGATOR® HORIZONTAL DIRECTIONAL DRILL

# **GENERAL WEIGHTS AND DIMENSIONS**

Min transport length (15 ft [4.6 m] rod option): 31.4 ft (9.5 m) Min transport length (20 ft [6.1 m] rod option): 36.4 ft (11.1 m) Min transport width: 102 in (254 cm) Min transport height: 11.5 ft (3.4 m) Min weight (15 ft [4.6 m] rod option): 50,300 lb (22,815.7 kg) Min weight (20 ft [6.1 m] rod option): 52,500 lb (23,813.6 kg)

#### ENGINE

Make/Model: Caterpillar Fuel type: Ultra-low sulfur diesel Max engine rpm: 2200 rpm Gross horsepower: 275 hp (205 kW) Cooling method: Liquid Aspiration: Turbocharged Emissions rating: Tier 4 Final (EU Stage V)

#### **OPERATIONAL**

Thrust/Pullback: 100,000 lb (444.8 kN) Max carriage speed: 205 fpm (62.5 m/min) Max spindle torque (low at max engine rpm): 14,000 ft-lb (18,981.5 Nm) Max spindle speed: 230 rpm Max ground drive speed: 1.7 mph (2.7 km/h) Noise level at operator's ear: 82 dB(A)

# **FLUID CAPACITIES**

Fuel tank: 115 gal (435 L) Hydraulic tank: 80 gal (302.8 L)

# **DRILLING FLUID OPTION ONE (APLEX)**

Max flow: 230 gpm (870.6 L/min) Max pressure: 1,000 psi (6.9 MPa)

#### **DRILLING FLUID OPTION TWO (KERR)**

Max flow: 230 gpm (870.6 L/min) Max pressure: 1,100 psi (7.6 MPa)

# **OPTIONAL CRANE**

Weight: 2,600 lb (1,179.3 kg) Max lifting capacity at 13 ft (3.95 m): 5,070 lb (2,300 kg) Max lifting capacity at 19.5 ft (5.95 m): 3,970 lb (1,800 kg) Rotation: 360° Max reach: 19.5 ft (5.95 m)

## **FEATURES**

Drilling lights: Standard Stakedown system: Optional Remote ground drive control: Standard Strike alert: Standard Remote lockout: Standard

#### **DRILL PIPE OPTION ONE**

Type: Firestick drill rod Length: 15 ft (4.6 m) Joint diameter: 4.375 in (11.1 cm) Pipe diameter: 3.5 in (8.9 cm) Weight: 261 lb (118.4 kg) Min bend radius: 197 ft (60 m) Rod carrying capacity: 135 ft (41.1 m) with permanent rod box, 270 ft (82.3 m) with stacked box

# **DRILL PIPE OPTION TWO**

Type: Firestick drill rod Length: 20 ft (6.1 m) Joint diameter: 4.375 in (11.2 cm) Pipe diameter: 3.5 in (8.9 cm) Weight: 374 lb (169.6 kg) Min bend radius: 197 ft (60 m) Rod carrying capacity: 180 ft (54.9 m) with permanent rod box, 360 ft (109.7 m) with stacked box

#### **OPTIONAL STAKE DOWN**

Spade Stakedown Aggressive Rotary Stakedown Weight: 1,000 lb (454 kg)



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