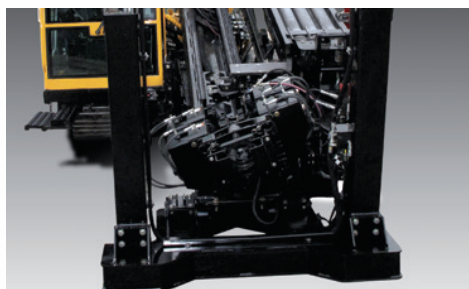


# D100x140 S3 NAVIGATOR<sup>®</sup>

## 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.



**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<sup>®</sup> DRILL ROD.** Experience the difference that has made one-piece, forged Firestick drill rod the industry benchmark.



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DO MORE.<sup>®</sup>

# D100x140 S3 NAVIGATOR<sup>®</sup> 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)