

# D60x90 S3 NAVIGATOR®

## HORIZONTAL DIRECTIONAL DRILL



### IMPRESSIVE SIZE-TO-POWER RATIO.

The D60x90 S3 boasts up to 60,000 lb (267 kN) thrust/pullback and 9,000 ft-lb (12,202.4 Nm) of rotational torque at just 100" (254 cm) wide and 26' long (7.9 m), so it's qualified for a range of installation specifications even in congested urban jobsites.



**INCREASED POWER.** The D60x90 S3 boasts a sizeable 17 hp (12.7 kW) increase over its predecessor, the D60x90, giving operators more power for drilling in difficult ground conditions.



**SIGNIFICANTLY QUIETER.** The D60x90 S3 has a guaranteed sound power rating of just 107 dBA – 12 dBA lower than its predecessor the D60x90 – resulting in reduced noise at operator's ear [83 dBA], increased operator comfort and less noise disturbance in residential or urban areas.



**LARGE OPEN-TOP VISE DESIGN.** The D60x90 S3 features a large open-top vise design for the purpose of removing and adding tooling.



**CONVENIENT ROD LOADING.** Easy-to-operate and reliable rod loader is inspired by the popular and proven D24x40 Series II design.



### AURORA™ TOUCHSCREEN DISPLAY.

Interactive, full-color display provides real-time location information plus tools to complete drilling activities more efficiently, and can replace the need for hard copy bore plans.



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## GENERAL WEIGHTS AND DIMENSIONS

Min transport length: 29.5' (9 m)

Min transport width: 100" (254 cm)

Min transport height: 104" (264.2 cm)

Weight: 39,000 lb (17,690.1 kg)

## ENGINE

Make/Model: CAT 7.1

Fuel type: Ultra low sulfur diesel

Max engine rpm: 2200 rpm

Gross horsepower: 202 hp (151 kW)

Max torque: 642 lb-ft (870 Nm)

Displacement: 433.3 cu-in (7.1 L)

Cooling method: Liquid

Aspiration: Turbo Charged

Emissions rating: Tier 4 Final (EU Stage IV)

## OPERATIONAL

Thrust/Pullback: 60,000 lb (266.9 kN)

Max carriage speed at max engine rpm: 175 fpm (53.34 m/min)

Max spindle torque (low at max engine rpm): 9000 ft-lb (12,204 Nm)

Max spindle speed at max engine rpm: 200 rpm

Min bore diameter: 6" (15 cm)

Max ground drive speed at max engine rpm (fwd): 3.7 mph (6 km/h)

Noise level at operator's ear: 83 dBA

Drill rack angle: 12°-15° (21.3%-26.8%)

## DRILLING FLUID SYSTEM

Max flow: 150 gpm (567 L/min)

Max pressure: 900 psi (6.2 MPa)

## FEATURES

Breakout system: Standard top load hydraulic vise

Drilling lights: Standard

Flow indicator: Standard

Stakedown system: Optional

Strike alert: Standard

Remote lockout: Standard

## DRILL PIPE OPTION ONE

Type: Firestick® drill rod

Length: 15' (4.6 m)

Rod diameter: 2.875" (7.3 cm)

Weight: 180 lb (81.7 kg)

Bend radius: 168.7' (51 m)

Onboard capacity: 600' (182.9 m)

## DRILL PIPE OPTION TWO

Type: Firestick drill rod

Length: 15' (4.6 m)

Rod diameter: 3.5" (8.9 cm)

Weight: 250 lb (113.5 kg)

Bend radius: 197.7' (60 m)

Onboard capacity: 360' (109.7 m)

## NOTES:

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