

# D23x30DR S3 NAVIGATOR®

## HORIZONTAL DIRECTIONAL DRILL



### OPTIONAL COMFORTABLE CAB.

The excavator-style cab with heating and air conditioning provides operator comfort.



### WORTH ITS WEIGHT.

Weighing in at 16,900 lb (7,666 kg), the lightweight design helps keep your jobsite intact by decreasing potential disturbance to sidewalks, neighborhoods and landscapes.



### ROCK QUIETLY.

Following the reliable S3 sound badge, the D23x30DR S3 has an operator ear noise level of 80.3 dB(A) to help with operator comfort, crew communication and create a quiet working environment to reduce disturbance to neighborhoods and other populated urban areas.



**PREMIUM POWER.** A 100 hp (75 kW) Deutz TCD3.6L4 engine provides power to help drive the D23x30DR S3 to its peak performance, while a thrust/pullback of 24,000 lb (106.8 kN) combines with rotational torque of 3,000 ft-lb (4067.5 Nm) to help get the drill into tough ground.



**FAMILIAR FEATURES.** Building on the dependable legacy of the S3 badge combined with the latest advancements in dual rod technology, the D23x30DR S3 offers a familiar operator experience to help crews transition to rock drilling from a single rod machine and get in and out of tough ground with precision and power.



**TOUGH TOOLING.** With the 2-degree bend positioned in the forward section of the tool, the new greaseable RH10 drill head offers responsive steer on command for precise installations.

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## GENERAL WEIGHTS AND DIMENSIONS

Min transport length: 247 in (627.4 cm)

Max operational length: 278 in (706.1 cm)

Min transport width: 55.5 in (141 cm)

Max operational width: 85 in (215.9 cm)

Min transport height: 87.5 in (222.3 cm)

Max operational height: 108.4 in (275.3 cm)

Max weight: 16,900 lb (7,666 kg)

Angle of approach: 17.5 deg

Angle of departure: 17.5 deg

## ENGINE OPTION ONE

Make and model: Deutz TCD3.6L4

Fuel type: Diesel

Max engine rpm: 2000 rpm

Gross horsepower: 100 hp (75 kW)

Aspiration: Turbo

Max fuel consumption: 5.07 gph (19.2 lph)

Certification Family (EPA/EU): Tier 4F/Stage V

## OPERATIONAL

Thrust: 24,000 lb (106.8 kN)

Pullback: 24,000 lb (106.8 kN)

Max carriage speed at max engine rpm: 175 fpm (53.3 m/min)

Max spindle torque at max engine rpm: 3000 ft-lb (4068 Nm)

Max spindle speed at max engine rpm: 200 rpm

Max spindle torque inner rod: 800 lb-ft (1084.8 Nm)

Max spindle speed inner rod at max engine rpm: 260 rpm

Min bore diameter: 5.5 in (13.9 cm)

Max ground drive speed at max engine rpm (forward): 3.5 mph (5.6 kmh)

Noise level at operator's ear: 80.3 dB(A)

## FLUID CAPACITIES

Fuel tank: 35 gal (132.3 L)

Diesel exhaust fluid: 5.3 gal (20 L)

## DRILLING FLUID SYSTEM OPTION ONE

Max flow: 35 gpm (132.3 lpm)

Max pressure: 1,100 psi (73.6 bar)

## FEATURES

Breakout system: Sliding, open-top vise

Drilling lights: Standard

Flow indicator: Mud flow indicator

Stakedown system: Standard

Strike alert: Standard

Remote lockout: Standard

## DRILL PIPE - DUAL

Minimum bend radius: 142 ft (44 m)

Rod carrying capacity: 300 ft (91 m)

Length: 10 ft (3 m)

Drill rod (inner) - type: Hex driven connection

Drill rod (inner) - joint diameter: 1.6 in (4.1 cm)

Drill rod (inner) - pipe diameter: 1 in (2.5 cm)

Drill rod (inner) - weight: 27 lb (12.3 kg)

Drill rod (outer) - type: Firestick - #675 R & R

Drill rod (outer) - joint diameter: 2.75 in (7 cm)

Drill rod (outer) - pipe diameter: 2.38 in (6 cm)

Drill rod (outer) - weight : 75 lb (34.1 kg)

Drill rod (outer) - joint inside diameter: 1.33 in (3 cm)

## OPTIONAL CAB

Weight with cab: 17,328 lb (7.860 kg)

Width with cab: 72 in (183 cm)

Height with cab: 93.7 in (238 cm)

Heating/air conditioning

Radio

Adjustable seat