# 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 D23x30pr S3 has an operator ear noise level of 80.3 dB(A) to help with operator comfort, crew communication and create a guiet 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 D23x30pr 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 D23x30pr 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.











# D23x30dr S3 NAVIGATOR® HORIZONTAL DIRECTIONAL DRILL

#### **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 (unter) - 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

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