

D23x30DR S3 NAVIGATOR®

HORIZONTAL DIRECTIONAL DRILL



COMPACT CONTROL. A width of 55.5 in (141 cm) makes the D23x30DR S3 drill 24.5 in (62.2 cm) narrower than its closest competitor, offering efficient maneuverability of the machine into compact urban areas or busy neighborhoods, and convenient transportation on a trailer with other equipment.



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 83 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: 83 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)

NOTES:
