

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 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

Minimum transport length: 247 in (627.4 cm)

Minimum transport width: 55.5 in (141 cm)

Maximum operational width: 85 in (215.9 cm)

Minimum transport height: 6.5 ft (1.9 m)

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

Angle of approach: 17.5°

Angle of departure: 17.5°

ENGINE

Make and model: Deutz TCD3.6L4

Fuel type: Diesel

Maximum engine rpm: 2000 rpm

Gross horsepower: 100 hp (75 kW)

Maximum fuel consumption: 5.07 gph (19.2 lph)

Emissions rating: Tier 4F/Stage V

OPERATIONAL

Thrust/pullback: 24,000 lb (106.8 kN)

Maximum carriage speed at maximum engine rpm: 175 fpm (53.3 m/min)

Maximum spindle torque at maximum engine rpm: 3000 ft-lb (4068 Nm)

Maximum spindle speed at maximum engine rpm: 200 rpm

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

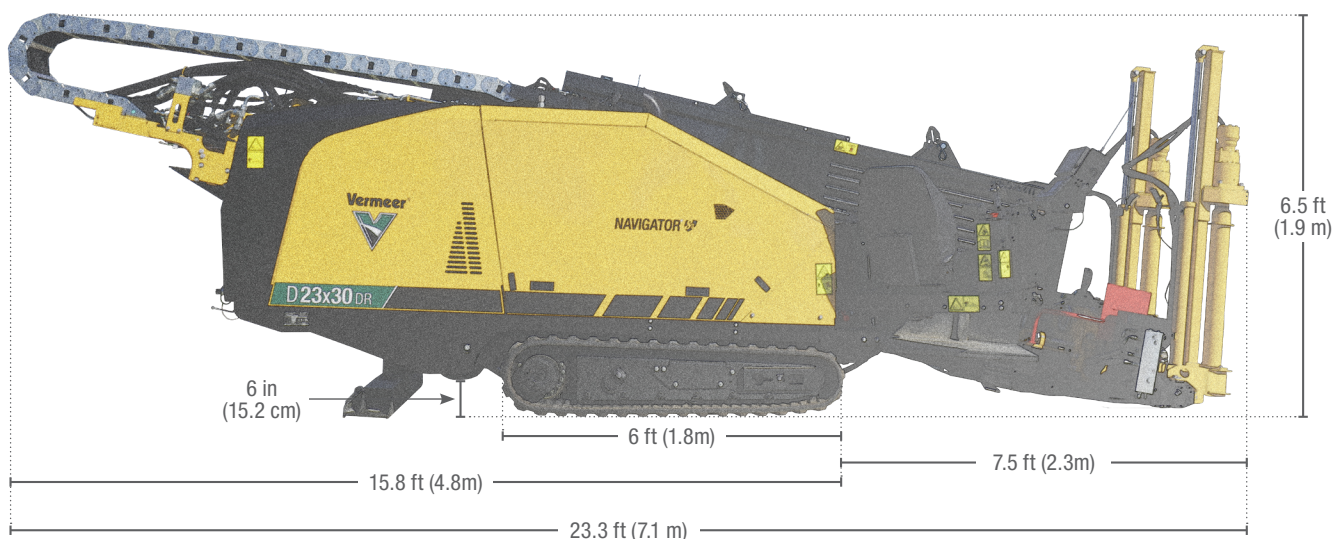
Maximum spindle speed inner rod at maximum engine rpm: 260 rpm

Minimum bore diameter: 5.5 in (13.9 cm)

Maximum ground drive speed at maximum engine rpm (forward):
3.5 mph (5.6 kmh)

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

TRANSPORT DIMENSIONS



DRILLING FLUID SYSTEM OPTION ONE

Maximum flow: 35 gpm (132.3 lpm)

Maximum pressure: 1,100 psi (7.58 MPA)

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)

Inner drill rod: Hex driven connection

Inner drill rod joint diameter: 1.6 in (4.1 cm)

Inner drill rod pipe diameter: 1 in (2.5 cm)

Inner drill rod weight: 27 lb (12.3 kg)

Outer drill rod: Firestick® drill rod #675 R & R

Outer drill rod joint diameter: 2.75 in (7 cm)

Outer drill rod pipe diameter: 2.38 in (6 cm)

Outer drill rod weight : 75 lb (34.1 kg)

Outer drill rod joint inside diameter: 1.33 in (3 cm)