

D40x55DR S3 NAVIGATOR®

HORIZONTAL DIRECTIONAL DRILL



BUILDING ON GREATNESS. Incorporating dependability and performance of the D40x55 S3 Navigator® horizontal directional drill with the latest advancements in dual rod technology create a familiar operator experience that will outperform many other rock drilling solutions.



REDUCED STEPS. The time and steps required to add or remove a rod on the D40x55DR S3 is significantly less than previous Vermeer models due to an enhanced dual drill rod design that quickly and easily makes up the inner and outer rod connections.



ADDED COMFORT. Install with added comfort of climate control, weatherproofing and reduced noise levels of 80 dBA at the operator's ear in a standard operator's cab.



IMPRESSIVE POWER. Powered by a 140 hp (104 kW) John Deere® diesel engine, this drill serves up 40,000 lb (177.9 kN) of thrust/pullback and 5,500 ft-lb (7,457 Nm) of rotational torque.



MORE FEET ONBOARD. Install more feet and save time with an impressive 500 ft (152.4 m) of drill rod on-board.



LESS RESTRICTIONS. A hollow inner rod design results in more air and drilling fluid flow to the drill head on pilot bores and the hole opener during pullback, providing contractors the ability to select from a more diverse range of tooling options, including air hammers and larger hole openers.

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GENERAL WEIGHTS AND DIMENSIONS

Minimum transport length: 24.6 ft (7.5 m)

Minimum transport width: 7.4 ft (2.26 m)

Maximum operational width: 10 ft (3 m)

Minimum transport height: 9.16 ft (2.8 m)

Maximum weight: 31,500 lb (14288 kg)

Angle of approach: 23°

Angle of departure: 19°

ENGINE OPTION ONE

Make and model: John Deere

Fuel type: Diesel

Maximum engine rpm: 2,400 rpm

Gross horsepower: 140 hp (104 kW)

Maximum fuel consumption: 7.56 gph (28.6 lph)

Emissions rating: Tier 4 Final (EU Stage V)

ENGINE OPTION TWO

Make and model: John Deere

Fuel type: Diesel

Maximum engine rpm: 2,400 rpm

Gross horsepower: 140 hp (104 kW)

Maximum fuel consumption: 7.56 gph (28.6 lph)

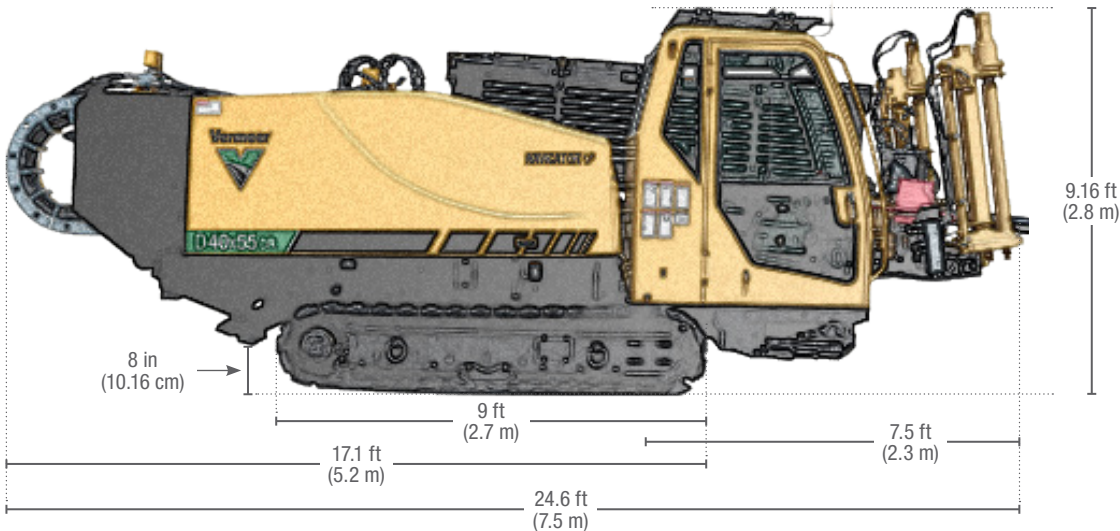
Emissions rating: Tier 3 (EU Stage IIIA)

DRILLING FLUID SYSTEM ONE

Maximum flow: 70 gpm (264.6 lpm)

Maximum pressure: 900 psi (6.2 MPa)

TRANSPORT DIMENSIONS



DRILL PIPE - DUAL

Minimum bend radius: 169 ft (52 m)

Rod carrying capacity: 500 ft (152 m)

Length: 10 ft (3 m)

Inner drill rod: Forged, hex connection

Inner drill rod joint diameter: 1.88 in (4.8 cm)

Inner drill rod pipe diameter: 1.66 in (4.2 cm)

Inner drill rod weight: 40 lb (18.2 kg)

Inner drill rod joint inside diameter: .75 in (1.9 cm)

Outer drill rod: Firestick® drill rod #750

Outer drill rod joint diameter: 3.31 in (8.4 cm)

Outer drill rod pipe diameter: 2.63 in (6.7 cm)

Outer drill rod weight: 86 lb (39 kg)

Outer drill rod joint inside diameter: 2.06 in (5.2 cm)

OPERATIONAL

Thrust rod: 40,000 lb (177.9 kN)

Maximum carriage speed at maximum engine rpm: 115 fpm (35.1 m/min)

Maximum spindle torque (low and maximum engine rpm):
5500 ft-lb (7458 Nm)

Maximum spindle speed at maximum engine rpm: 199 rpm

Minimum bore diameter: 6.25 in (15.9 cm)

Maximum ground drive speed at maximum engine rpm (fwd):
2.7 mph (4.3 km/h)

Noise level at operator's ear: 80 dB(A)

Guaranteed sound power engine: 104 dB(A)