

Vermeer®



5.5" SWB

Mud Motor



and lowers fluid loss. A specially-designed sealing system allows the use of larger thrust bearings permitting greater thrust pressures up to 36,000 lb (16,300 kg) further increasing performance and service life.

The 5.5" SWB supports a variety of larger Vermeer Navigator® HDDs including:

- D50x100A
- D55x100
- D80x100
- D80x120
- D100x120

The 5.5" SWB Mud Motor is compatible with other competitive drill models. This Vermeer rock drilling system, which is available for purchase or rental, is the only mud motor in the industry supported by a global dealership network.

Up Front Rock Cutting System Drills The Competition

The patented Vermeer® 5.5" (14 cm) Survey While Boring (SWB) Mud Motor can give horizontal directional drilling (HDD) contractors the competitive edge in rock drilling performance. Featuring the exclusive SWB rock drilling technology, this motor's unique "near bit" transmitter provides the operator a more accurate reading of the bit's current location, rather than where it has been. The Vermeer motor's sonde unit is located less than 3 feet (.9 m) from the cutting bit compared to other manufacturers whose sonde location is up to 20 feet (6.1 m) away from the bit. This innovative feature also makes training new operators a much quicker process.

The 5.5" SWB low-flow, high-torque Mud Motor has a 1-to-1 ratio of flow to RPMs increasing bit life and penetration rates. The proprietary motor design means contractors get more foot pounds of torque per gallon of flow than other like-sized unit on the market. The lower flow rate also minimizes frac outs

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Mud Motor



Features:

- *The sonde housing is located less than 3 feet (.9 m) from the cutting bit, providing a more accurate reading of the location of the bit along the bore path.*
- *The low-flow, high-torque design creates more foot pounds of torque per gallon than any other like-sized unit on the market.*
- *Hard banding wear pads and rings in critical areas reduce casing wear and decrease maintenance costs.*
- *An anti-fishing device allows the complete motor to be retrieved from the hole if the motor breaks or backs off.*
- *Direct connection of the motor to the drill rod eliminates the need for any adapters.*
- *A 2-degree bent sub allows the operator to make quicker direction changes, which allows more rotating time which increases penetration rate.*

General

Housing Diameter: 5.5" (14 cm)
Length with Transmitter Housing: 17' (5.2 m)
Weight with Transmitter Housing: 1175 lb (533 kg)

Operational

Maximum Operating Differential Pressure: 600 psi (41 bar)
Operating Torque: 1800 ft-lb (2440 Nm)
Stall Torque: 2600 ft-lb (3525 Nm)
Power Section-Diameter: 4.75" (12 cm)
Bit Diameter-Minimum: 6.5" (17 cm)
Bit Diameter-Maximum: 7.9" (20 cm)
Minimum Rotation Speed: 40 rpm
Maximum Rotation Speed: 170 rpm

Fluid Flow

Minimum Flow: 40 gpm (150 L/min)
Maximum Flow: 170 gpm (640 L/min)

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