The Ultimate Moisture and Corrosion Protection.

GE’s water-cooled motor is completely enclosed and protected, to IP54 standards, against moisture, exerts or dirt from being sucked into the motor – especially in harsh, offshore environments. These elements can cause corrosion, wear down windings, and even shut down the motor.

A safer more cost-efficient motor, GE’s water-cooled drill motor has no blower. No blower means one less power supply and far less rig noise. Less noise on the rig floor, means a safer environment for those working on the rig.

Rated at 1150HP, the GE water-cooled motor has a small envelope. And, because it cools through the shaft as well as the frame, it maintains the same footprint as our AC cooled models, and can be easily incorporated onto the rig.

GE’s water-cooled motors were engineered to withstand the most strenuous environments. These motors have Class H insulation; auxiliary lockout switch; space heater; optional marine features (ABS-certified shaft; armored cables; two 100-ohm platinum RTDs).

A safer more cost-efficient motor, GE’s water-cooled drill motor has no blower. No blower means one less power supply and far less rig noise. Less noise on the rig floor, means a safer environment for those working on the rig.

For decades, these motors have been engineered, manufactured and tested to GE’s most stringent standards in the harshest drilling environments.

GE has established a worldwide network of authorized service facilities for both AC and DC drilling motors. These service facilities are audited and GE’s personnel have been trained to assure that they meet the quality standards required to repair GE drilling motors.

GE Transportation

**Experience and Reliability**

AC and DC Drilling Motor Solutions for the Future

To learn more: Visit us online at gedrillingpower.com

GE imagination at work

GE imagination at work
GE Drilling Motors – Choose an Industry Leader

GE manufactures rugged electric motors for the toughest applications in the oil and gas industry. Since shipping its first DC drilling motor in 1955, GE has pioneered the electrification of the drilling rig and continues today to lead the way in manufacturing DC and AC drilling motors for land and offshore drilling rigs.

Engineered, manufactured and tested to withstand the harshest requirements, you can't go wrong choosing a GE drilling motor. Thousands of GE motors in use today have proven time and again their ability to continually meet or exceed customer expectations driving drawworks, mud pumps, cement pumps, rotary tables, top drives, and anchor-handling winches on all types of drilling rigs, all over the world.

More Advantages from the Industry’s Leader in Powering the Drilling Industry.

Working to meet our customers’ requirements, GE’s ongoing research and development efforts to provide innovative and increasingly efficient technology continue to produce electric motors that are more reliable and efficient power supply – especially in extreme weather conditions – and able to decrease noise on the rig, making a safer working environment. Combined with a potentially efficient power supply – especially in extreme weather conditions – and able to decrease noise on the rig, making a safer working environment. Combined with a potentially efficient power supply – especially in extreme weather conditions – and able to decrease noise on the rig, making a safer working environment. Combined with a potentially efficient power supply – especially in extreme weather conditions – and able to decrease noise on the rig, making a safer working environment. Combined with a potentially efficient power supply – especially in extreme weather conditions – and able to decrease noise on the rig, making a safer working environment. Combined

AC Drilling Motor Design Highlights

- Rugged, heavy-duty frame absorbs the high torque and pounding conditions present in drilling applications.
- Form-wound windings, GE’s superior Class C insulation and vacuum impregnation process provide superior protection from winding failures because of voltage spikes.
- Copper chrome alloy rotor bars and braided end turn increase the reliability and life of the rotor assembly.
- AC motors provided with slot windings to help remove moisture. This method of winding is especially effective in areas where water is most susceptible (most susceptible place for moisture)
- Reduced braking time and increased energy efficiency on the lower weight and inertia of the rotor is achieved through a design that optimizes current and flux densities.

DC Drilling Motor Design Highlights

- GE’s 752 DC horizontal drilling motor has been proven time and time again on all major drill rig operations. The motor performance on GE’s original 752 DC drilling-motors has continually met or exceeded customer requirements.

GE’s AC Motors

Now for more than two decades, GE has supplied thousands of AC inverter motors for torque and high-speed applications worldwide. Offered in both horizontal and vertical configurations, the 1150 HP and 1500 HP AC motors will meet the most stringent requirements of your drilling equipment. Design features include heavy-duty frames, form-wound stator windings, high-strength rotor assemblers; and GE’s low-inertia rotor.

GE AC Motor Advantages

- Greater torque and speed.
- GE’s AC drilling motors produce more torque at both low and high speeds than a DC counterpart. Maximum speed for a GE horizontal AC motor is 1,000 rpm.
- Low inertia rotor.
- A low inertia rotor enhances the drawworks performance by providing highly responsive acceleration, reduced braking time and less wasted energy. The lower weight and inertia of the rotor is achieved through a design that optimizes current and flux densities.

GE’s DC Motors

GE shipped the first 752 DC motor for a drilling rig in 1955. For more than 55 years, GE has provided dependable 752 DC drilling-motors for the toughest drilling applications. GE continues its tradition of providing high-quality, reliable drilling-motors for land and offshore drilling rigs worldwide.

GE DC Motor Advantages

- Proven performance.
- Thousands of GE’s original 752 DC drilling motors are performing worldwide on all types of drill rigs, providing dependable operations of the rig’s primary equipment. The 752 DC drilling motors have been reported to run for years without service or failure.

GE’s original 752 drilling frames and coils are built to last for years. No other manufacturer is built to last. GE’s original 752 DC motors, coils and cables do not accept imitations.

GE’s original 752 high torque armature and commutator were designed exclusively for 752 high torque motors to reduce heat and increase torque. Excessively worn and smaller commutators found on many armatures can increase maintenance expenses by shortening brush life and increasing the risk of flashovers.

Numerous DC motors have been provided on all horizontal DC motors since 2002. Today, demanding applications with high tension side-leads require strengthened shafts. Aware of this, GE and locomotive armatures equipped with standard cast-iron shafts.
GE Transportation

Experience and Reliability

AC and DC Drilling Motor Solutions for the Future

**AC Models**

<table>
<thead>
<tr>
<th>Model</th>
<th>AC Motor Offshore</th>
<th>DC Motor Offshore</th>
<th>DC Motor Land</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td><strong>Application</strong></td>
<td><strong>Available Certifications</strong></td>
<td><strong>Application</strong></td>
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<tr>
<td>Horizontal</td>
<td>Mud Pump</td>
<td>38 HP</td>
<td>Series Wound</td>
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<tr>
<td>Vertical</td>
<td>Shunt Wound</td>
<td>50 HP</td>
<td>Series Wound</td>
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<tr>
<td><strong>Max. Continuous HP</strong></td>
<td>50 HP</td>
<td>50 HP</td>
<td>Series Wound</td>
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<td>6.2</td>
<td>Series Wound</td>
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</table>

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<td>50 HP</td>
<td>50 HP</td>
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<tr>
<td><strong>Full Load RPM</strong></td>
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</tr>
<tr>
<td><strong>Inertia (lbft)</strong></td>
<td>6.2</td>
<td>6.2</td>
</tr>
</tbody>
</table>

**Application**

- **Horizontal**: For horizontal drilling, where space is limited and a smaller, more efficient motor is needed.
- **Vertical**: For vertical drilling, where the motor is aligned vertically to maximize space utilization.

**Available Certifications**

- **ATEX, ABS Certified**: Certification for hazardous locations, ensuring safety and reliability in potentially explosive environments.
- **IP56 Protection**: IP56 protects the motor from dust and water ingress, maintaining performance in harsh conditions.

**Experience and Reliability**

GE Transportation is committed to providing reliable and efficient motor solutions for the drilling industry. Our motors are engineered to meet the demanding needs of offshore and land drilling operations, ensuring safety, efficiency, and durability. With a focus on innovation and quality, GE Transportation offers a comprehensive range of AC and DC motors tailored to meet the specific requirements of the drilling sector, backed by extensive experience and reliability across the industry.

**To learn more:**

Visit us online at gedrillingpower.com

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**GE imagination at work**

*Visit us online at gedrillingpower.com*
GE Drilling Motors – Choose an Industry Leader

GE manufactures rugged electric motors for the toughest applications in the oil and gas industry. Since shipping its first DC drilling motor in 1955, GE has pioneered the electrification of the drilling rig and continues today to lead the way in manufacturing DC and AC drilling motors for land and offshore drilling rigs.

Engineered, manufactured and tested to withstand the harshest requirements, you can’t go wrong choosing a GE drilling motor. Thousands of GE motors are in use today, having proven time and again their ability to continually meet or exceed customer expectations. Drilling, mud pumps, cement pumps, rotary tables, top drives, and anchor-handling vessels on all types of drilling rigs, all over the world.

More Advantages from the Industry’s Leader in Powering the Drilling Industry.

Working to meet our customers’ requirements, GE’s ongoing research and development efforts provide innovative and increasingly efficient technology to produce electric motors that are more reliable and efficient power supply—especially in extreme weather conditions—and able to decrease noise on the rig, making a safer working environment. Combined with a potentially more efficient power supply, you can’t go wrong choosing a GE motor. GE’s AC motors continue to lead the way in manufacturing DC and AC drilling motors for land and offshore drilling rigs worldwide.

Engineered and Time-Tested for Dependable Operation Around the World.

How important is your rig’s continued operation? What is the cost of your operations shutting down for a day? On land or offshore, that’s a cost you can’t afford.

GE’s AC Motors

Now for more than two decades, GE has supplied thousands of AC motors to land and offshore drilling rigs worldwide. Offered in both horizontal and vertical configurations, the 1150-P and 1500-P AC motors will meet all stringent requirements of your drilling equipment. Design features include: heavy-duty frame, form wound stator windings; high-strength rotor assemblies; and GE’s low-inertia rotor.

GE AC Motor Advantages

Greater torque and speed. GE’s AC drilling motors produce more torque at both low and high speeds than a DC counterpart. Maximum speed for a GE horizontal AC motor is 1,100 rpm.

Low inertia rotor. A low inertia rotor enhances the drawworks performance by providing highly responsive acceleration, reduced braking time and less wasted energy. The lower weight and inertia of the rotor is achieved through a design that optimizes current and flux densities.

AC Drilling Motor Design Highlights

Rugged, heavy-duty frame absorbs the high torque and pounding conditions present in drilling applications.

Form wound windings. GE’s super Class I insulations and vulcanized impregnation provide superior protection from winding failures because of voltage spikes.

GB622 1150 HP horizontal AC drilling motor

GE’s DC Motors

GE shipped the first 752 DC motor for a drilling rig in 1955. For more than 55 years, GE has provided dependable 752 DC drilling motors for the toughest drilling applications. GE is continuing its tradition of providing high-quality, reliable drilling motors for land and offshore drilling rigs worldwide.

Proven performance. A century of successful performance characteristics of GE’s original 752 DC drilling motors have been proven time and time again on all major drilling rig operations. The motor performance on GE’s original 752 DC drilling motors has continually met or exceeded customer requirements.

Dependable operation, backed by GE. Thousands of GE’s original 752 DC drilling motors are performing worldwide on all types of rigs, providing dependable operations of the rig’s primary equipment. The 752 DC drilling motors have been reported to run for years without service or failure.

GE DC Motor Advantages

GE’s 752 DC horizontal drilling motor

All GE’s original 752 DC motors and frames are available from GE for years. No other manufacturer is licensed to build the GE’s original 752 DC motors. Do not accept imitations. GE’s original 752 DC motors and frames are available from GE for years. No other manufacturer is licensed to build the GE’s original 752 DC motors. Do not accept imitations.

DC Drilling Motor Design Highlights

GE’s original 752 drilling frames and coils are built to last for years. No other manufacturer is licensed to build the GE’s original 752 DC motors and frames. Do not accept imitations.

GE’s original 752 high torque armature and commutator were designed exclusively for 752 high torque motors to reduce heat and increase torque. Excessively worn and smaller commutators found on many armatures can increase maintenance expense by shortening brush life and increasing the risk of flashover.
GE Drilling Motors – Choose an Industry Leader

GE manufactures rugged electric motors for the toughest applications in the oil and gas industry. Since shipping its first DC drilling motor in 1955, GE has pioneered the electrification of the drilling rig and continues today to lead the way in manufacturing DC and AC drilling motors for land and offshore drilling rigs.

Engineered, manufactured and tested to withstand the harshest requirements, you can’t go wrong choosing a GE drilling motor. Thousands of GE motors in use today have proven time and again their ability to continually meet or exceed customer expectations. Driving drawworks, mud pumps, cement pumps, rotary tables, top drives, and anchor-handling winches on all types of drilling rigs, all over the world.

More Advantages from the Industry’s Leader in Powering the Drilling Industry.

Working to meet our customers’ requirements, GE’s ongoing research and development efforts provide innovative and increasingly efficient technology to continuously produce electric motors that are more reliable and efficient power supplies – especially in extreme weather conditions – and to decrease on the rig, making a safer working environment. Combined with a potentially lower weight and inertia of the rotor is achieved through a design that optimizes current and flux densities.

GE’s AC Motors

Now for more than two decades, GE has supplied thousands of AC traction motors for land and offshore drilling rigs worldwide. Offered in both horizontal and vertical configurations, the 1150 HP and 1500 HP AC motors will meet the most stringent requirements of your drilling equipment. Design features include heavy-duty frames, form wound stator windings, high-strength rotor assemblies; and GE’s low-inertia rotor.

GE AC Motor Advantages

Greater torque and speed.
GE’s AC drilling motors produce more torque at both low and high speeds than a DC counterpart. Maximum speed for a GE horizontal AC motor is 1,000 rpm.

Low inertia rotor.
A low inertia rotor enhances the drawworks performance by providing highly responsive acceleration, reduced braking time and less wasted energy. The lower weight and inertia of the rotor is achieved through a design that optimizes current and flux densities.

AC Drilling Motor Design Highlights

Rugged, heavy-duty frame absorbs the high torque and pounding conditions present in drilling applications.
Form-wound windings, GE’s superior Class IX insulation and VH application process provides superior protection from winding failures because of voltage spikes, copper chromium alloy rotor bars, and braided end turns increase the reliability and life of the rotor assembly.

GE’s DC Motors

GE shipped the first 752 DC motor for a drilling rig in 1955. For more than 50 years, GE has provided dependable 752 DC drilling motors for the toughest drilling applications. GE is continuing its tradition of providing high-quality, reliable drilling motors for land and offshore drilling rigs worldwide.

GE DC Motor Advantages

Proven performance.
Almost 25,000 units of performance characteristics of GE’s original 752 DC drilling motors have been proven time and time again on all major drill rig operations. The motor performance on GE’s original 752 DC drilling-motors has continually met or exceeded customer requirements.

GE’s 752 DC horizontal drilling motor

Dependable operation, backed by GE.
Thousands of GE’s original 752 DC drilling motors are performing worldwide on all types of DR rigs, providing dependable operations of the rig’s primary equipment. The 752 DC drilling motors have been reported by customers to run for years without service or failure.

DC Drilling Motor Design Highlights

GE’s original 752 drilling frames and coils are built to last for years. No other manufacturing is licensed by GE. Ask for GE’s original 752 frames and coils. Do not accept imitations.

GE’s original 752 high torque armature and commutator were designed exclusively for 752 high torque motors to reduce heat and increase torque. Excessively worn and smaller commutators found in many armature style motors can increase maintenance expenses by shortening brush life and increasing the risk of flashovers. 45,000 silver steel shafts have been provided on all horizontal DC motors since 1955. Today demanding applications with high tension and loads require strengthened shafts. Beware of used 752 DC armatures, armatures equipped with standard carbon steel shafts.
### GE Transportation

#### AC and DC Drilling Motor Solutions for the Future

**Experience and Reliability**

GE Transportation has built thousands of AC and DC induction motors for the drilling industry. For decades, these motors have been designed, manufactured, and tested to meet the most stringent standards for both AC and DC drilling motors. These service facilities are staffed and GE's personnel have been trained to assure that the motors meet the quality standards required to keep GE's drilling motors running smoothly.

- **GE's water-cooled motor is completely enclosed and protected, to IP56 standards, against moisture, insects or dirt from being sucked into the motor – especially in harsh, offshore environments.** These elements can cause corrosion, wear down windings, and even shut down the motor.
- **A safer more cost-efficient motor, GE's water-cooled drill motor has no blower. No blower means one less power connection box and IP23 motor rating.**
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<tr>
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<th>Type</th>
<th>Voltage</th>
<th>Torque (at base rpm)</th>
<th>Full Load Current</th>
<th>Inertia (lbft)</th>
<th>Max. Continuous HP</th>
<th>Full Load RPM</th>
<th>Maximum RPM</th>
<th>Inertial (lbft²)</th>
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<td>5GEB20A</td>
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<td>577 vac</td>
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**Motor not available with ABS or ATEX certification. Includes hood style blower or inline, painted carbon steel can with louvered and IP23 motor rating.**

For more information, visit us online at gedrillingpower.com.