

GE
Transportation

50 years strong.

AC and DC motor solutions for your toughest drilling applications.





Drillship



Semisubmersible

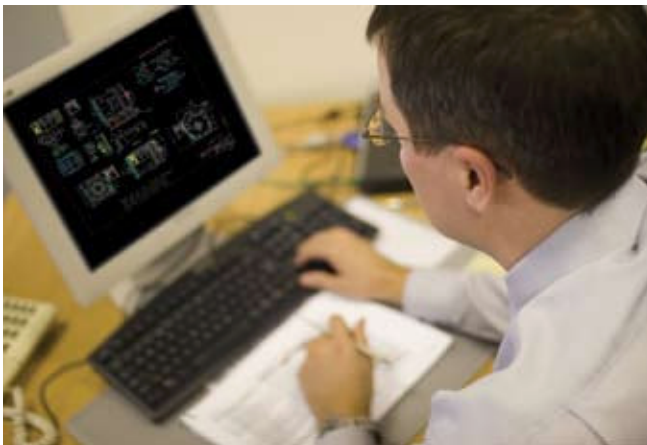


Jackup Rig



Land Rig

Thousands of GE's AC and DC drilling motors are used to drive drawworks, mud pumps, rotary tables, top drives and anchor-handling winches on all types of drilling rigs, all over the world. Request GE's original AC and DC drilling motors for your next drilling equipment requirements.



Engineered and time-tested for dependable operation.

Year after year, GE builds thousands of AC and DC traction motors in its Erie, Pa., manufacturing facility. For decades, these motors have been engineered, manufactured and tested to withstand the harshest requirements of drilling rigs, locomotives and mining trucks.



Worldwide parts & service.

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

GE's AC drilling motors

GE manufactures rugged AC drilling motors for the toughest applications in the oil and gas industry. Since 1997, GE has supplied more than 1,000 AC traction motors for land and offshore drilling rigs worldwide...and thousands more for the high-stress applications experienced by locomotives and mining trucks. Offered in horizontal and vertical configurations, the 1150 hp or 1500 hp AC motor will meet the most stringent requirements of your drilling equipment.

Rugged locomotive designs.

GE's 1150 hp and 1500 hp AC drilling motors were engineered from the same rugged design concepts required for GE's transit and freight locomotive traction motors. Designs include heavy-duty frames, form-wound stator windings and high-strength rotor assemblies.

Broad, constant power range.

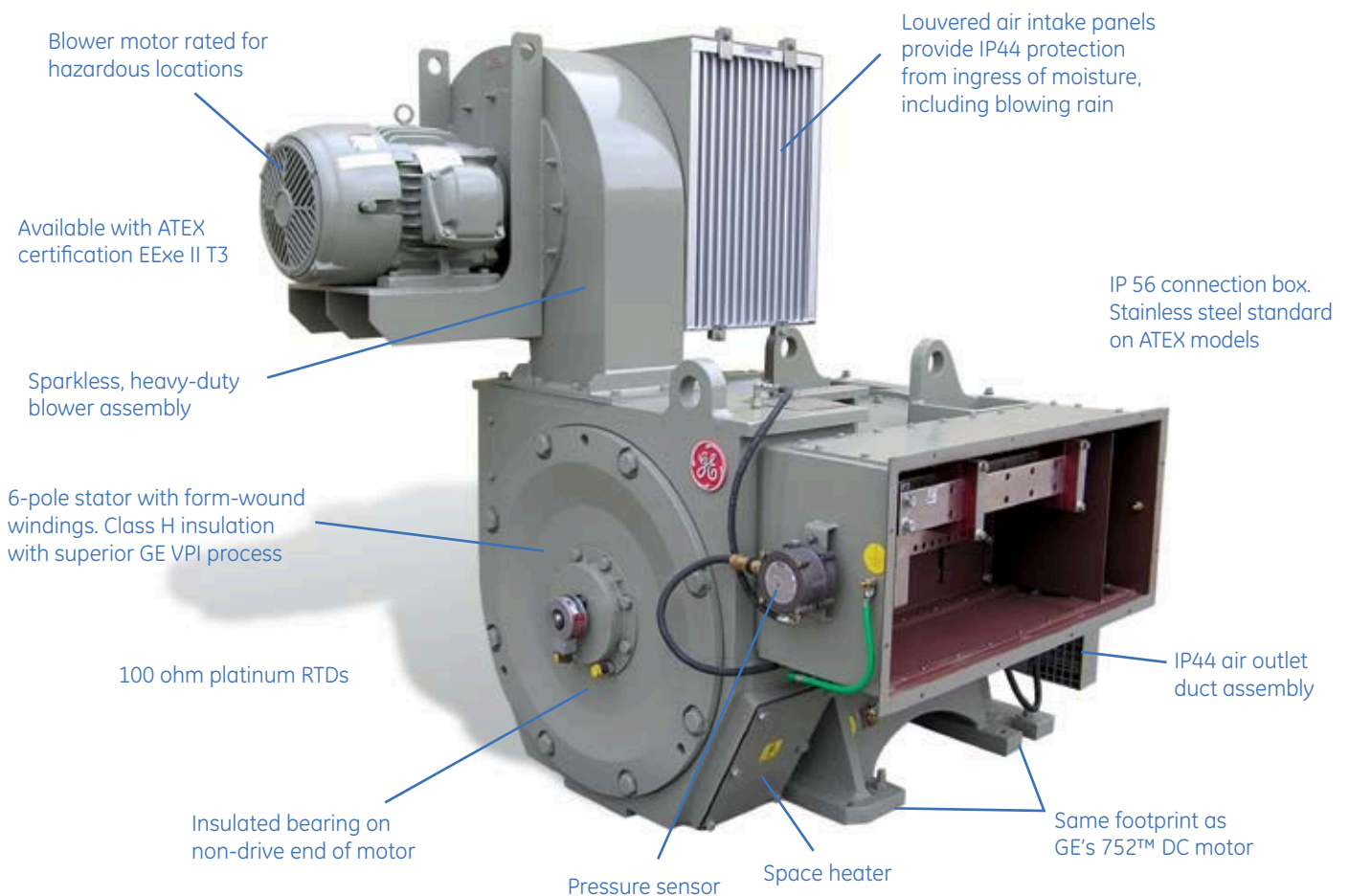
GE's AC drilling motors maintain horsepower at a broader speed range than its DC counterparts, eliminating the need for costly gearboxes and creating a more reliable direct drive system.

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.

Greater torque and speed.

GE's AC drilling motors produce more torque at both low and high speeds than its DC counterparts. Maximum speed for GE's horizontal AC motors is 3000 rpm.



GEB22 1150 hp horizontal AC drilling motor

GE's DC drilling motors

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

Proven performance.

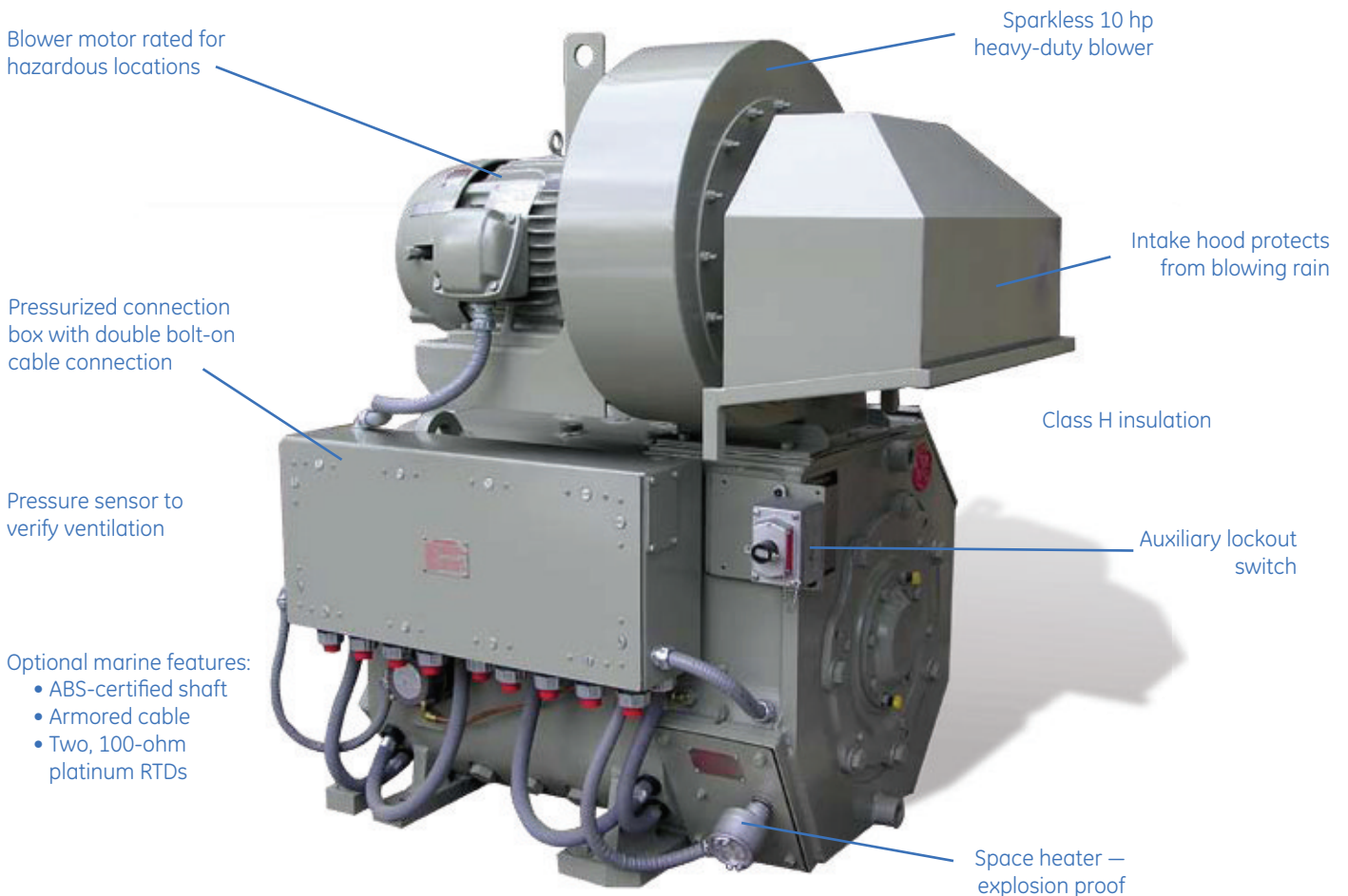
No guesswork required. The performance characteristics of GE's original 752 DC drilling motors have been proven time and time again on all major drill rig operations. The motor performance on GE's original 752 DC drilling motors has continually met or exceeded customer requirements.

Dependable operation.

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 by rig operators to run for years without service or failure.

Backed by GE.

GE has supported the drilling industry for more than 50 years and will be there to support your future needs.



GE's 752™ DC horizontal drilling motor

AC Design Highlights



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

Form-wound windings with Class H insulation and double VPI application provide superior protection from winding failures because of voltage spikes.



High-strength rotor assembly, copper chromium alloy rotor bars and brazen end turns increase the reliability and life of the rotor assembly.

4340 alloy steel shaft is standard on all horizontal AC motors. Optional oversized shaft extension and hub are available for belt-driven applications.



Optional TEWAC closed cooling system provides IP56 protection certified to ATEX standards by SIRA. Closed cooling system provides maximum protection to motor windings from airborne contaminants and moisture.

DC 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 original GE frames and coils. Do not accept imposters.



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 used armatures can increase maintenance expense by shortening brush life and increasing the risk of flashover.

4340 alloy steel shafts have been provided on all horizontal DC motors since 2002. Today's demanding applications with high-tension belted loads require strengthened shafts. Beware of used 752 and locomotive armatures equipped with standard carbon steel shafts.

AC Models

Model	GEB22A	GEB22D	GEB20B	GEB28A	GEB29A	GEB27A
Type	Horizontal	Horizontal	Vertical	Horizontal	Horizontal	Vertical
Application	Drawworks Mud Pump	Belt-Driven Mud Pump	Top Drive	Axial Load Drawworks	Side-Load Mud Pump	Top Drive
Available Certifications	ATEX, ABS	ATEX, ABS	ATEX, ABS	ATEX, ABS	ATEX, ABS	ATEX, ABS
Max. Continuous HP	1150	1150	1150	1500	1500	1500
Full Load RPM	800-1800	800-1800	800-1800	900-1200	900-1200	900-1200
Maximum RPM	3000	3000	2300	3000	3000	2300
Full Load Current	1120	1120	1120	1360	1360	1360
Torque (at base rpm)	7550	7550	7550	8750	8750	8750
Voltage	600-690 vac	600-690 vac	600-690 vac	600-690 vac	600-690 vac	600-690 vac
Inertia (ftlb ²)	429	429	429	767	767	767
Approximate Weight (lbs)	6500	6500	6000	8500	8500	7878

DC Models

Model	GE752ARB1	GE752ARB3	GE752RB1	GE752RB3	GE752AUT2	GE752US2
Type	Horizontal Series Wound	Horizontal Series Wound	Horizontal Shunt Wound	Horizontal Shunt Wound	Vertical Series Wound	Vertical Shunt Wound
Application	Mud Pump Drawworks	Mud Pump Drawworks	Mud Pump Drawworks	Mud Pump Drawworks	Top Drive	Top Drive
Available Certifications	ABS		ABS		ABS	ABS
Max. Continuous HP	1085	1085	1130	1130	1085	1130
Full Load RPM	965	965	1040	1040	965	1040
Maximum RPM	2300	2300	2300	2300	2300	2300
Full Load Current	1150	1150	1185 (60 amp field)	1185 (60 amp field)	1150	1185 (60 amp field)
Torque (at base rpm)	5900	5900	5705	5705	5900	5705
Voltage	750 vdc	750 vdc	750 vdc	750 vdc	750 vdc	750 vdc
Inertia (ftlb ²)	552	552	552	552	552	552
Approximate Weight (lbs)	7200	7200	7200	7200	6720	6720



imagination at work

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