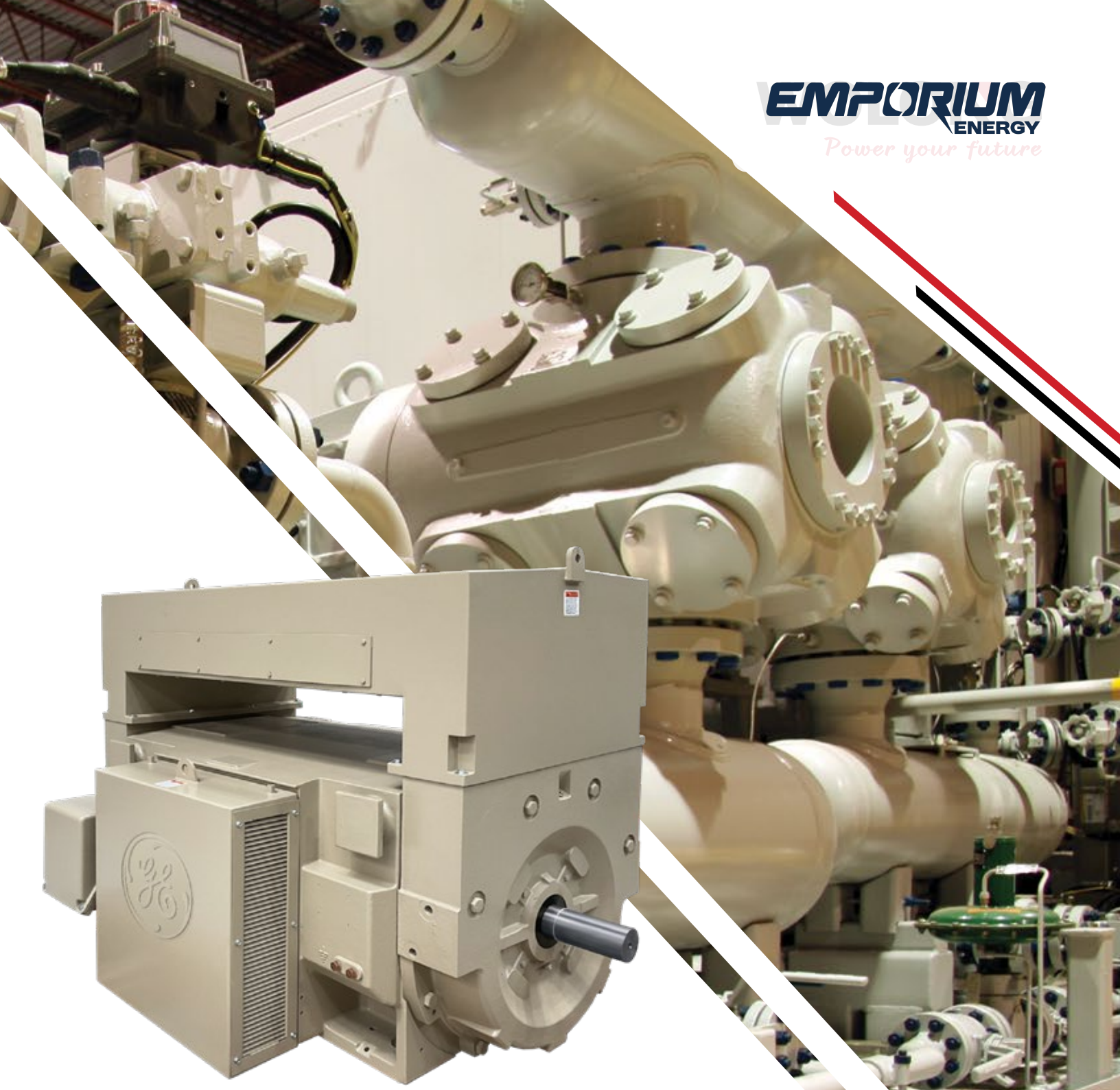
EMPORIUM ENERGY
Power your future



Quantum™ 500 Weather-Protected Horizontal Motors

2-12 Pole, 3 Phase, 60/50 Hz
460, 2300, 4000, 6600 V, 125-1250 HP

Quantum 500 WP - Improving on legacy designs!

Tough, versatile, efficient motors for replacements and new projects

Quantum Series Motors

Quantum motors have a long history of proven reliability. These new 500 frames are designed from advanced engineering techniques to deliver better efficiency, power density, and reliability through strength.

Industries & Applications

Quantum motors are commonly used in the petrochemical, power generation, data center, steel, and general process industries for various applications, including pumps, fans, blowers, and compressors.



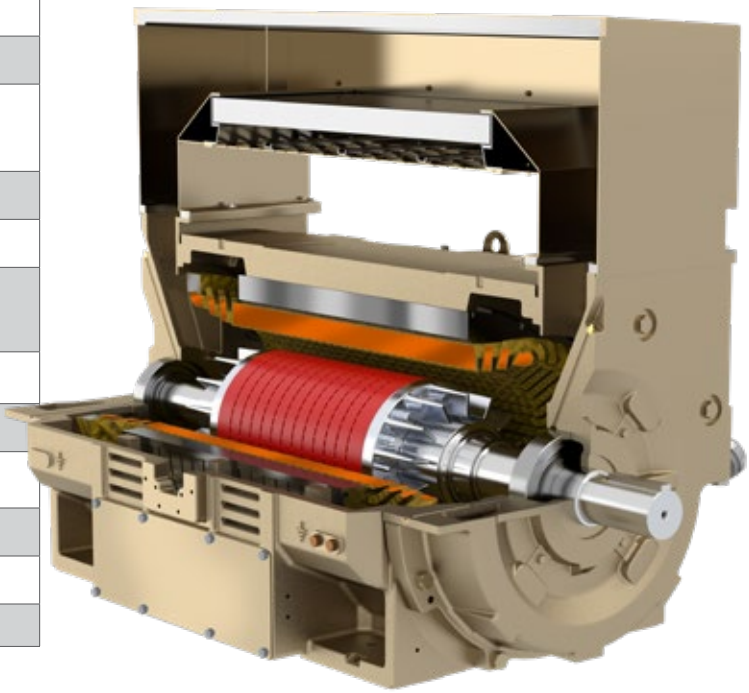
Technical Features

HP Range	125 - 1250
Poles	2, 4, 6, 8, 10, 12
Voltage	460, 2300, 4000, 6600
Rotor Bar Material	Die cast Aluminum standard Copper or copper alloy available
Bearing Types	Anti-Friction, Sleeve, and Roller
Efficiency	NEMA Premium
Enclosure	WPI, WPII, DPBV
Hardware	SAE Grade 5
Frame Sizes	505-506-507, 508-509, 5010-5011, 5012- 5013
Frequency	60 / 50 Hz
Insulation	Class F, Epoxy VPI
VFD Duty	Variable Torque 10:1 and Constant Torque 2:1
Service Factor	1.15
Shaft Material	AISI 1045
Space Heater	Leads to accessory box
Temp Rise	80°C @ 1.0 SF
Environment	Class I Div 2 Groups ABCD, T1-T3
Warranty	3 Year

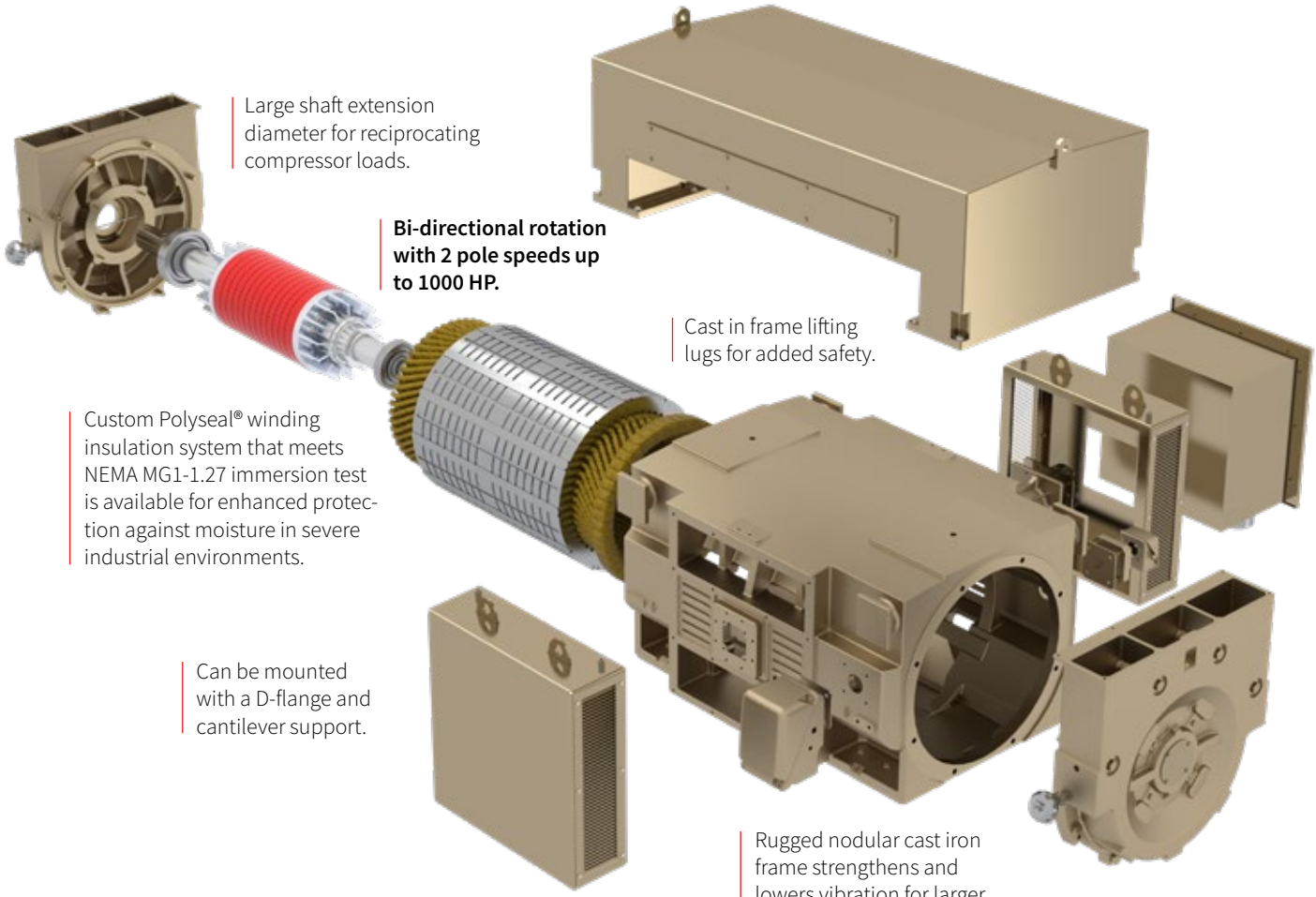
Standards & Requirements

These GE motors from Wolong are engineered, tested, and proven to meet or exceed all applicable requirements and standards.

UL
NEMA
API 541 and 547
Division 2



Features & Benefits



Large shaft extension diameter for reciprocating compressor loads.

Bi-directional rotation with 2 pole speeds up to 1000 HP.

Cast in frame lifting lugs for added safety.

Custom Polyseal® winding insulation system that meets NEMA MG1-1.27 immersion test is available for enhanced protection against moisture in severe industrial environments.

Can be mounted with a D-flange and cantilever support.

Rugged nodular cast iron frame strengthens and lowers vibration for larger 2-pole machines.

Superior Bearings

- Designed for 100,000 hrs. L10 life direct coupled.
- Provisions for bearing RTD's

Antifriction Bearings

- Oversized grease retainers on both ends.
- Insulated bearings on both ends available.

Roller Bearings

- Proven design for high belt load capacity.

Sleeve Bearings

- Robust insulated internal system with a babbitt liner alloy delivering high load capacity with minimal wear.
- Labyrinth seals on both ends.



WOLONG

Quantum 500 WP Standard Power / Speed Charts

Frames
507
509
5011
5013

Quantum 500 WP
460 V, 60 Hz, 1.0 SF

HP	2P	4P	6P	8P	10P	12P
125						
150						
200						
250						
300						
350						
400						
450						
500						
600						
700						
800						
900						

Quantum 500 WP
6600 V, 60 Hz, 1.0 SF

HP	2P	4P	6P	8P	10P	12P
125						
150						
200						
250						
300						
350						
400						
450						
500						
600						
700						
800						
900						
1000						

Quantum 500 WP
2300/4000 V, 60 Hz, 1.0 SF

HP	2P	4P	6P	8P	10P	12P
125						
150						
200						
250						
300						
350						
400						
450						
500						
600						
700						
800						
900						
1000						
1250						

With multiple mounting holes and shaft extensions these motors are suited for NEMA 505-506-507, 508-509, 5010-5011, 5012-5013 frame applications.

Optional Features
Custom Polyseal Winding Insulation System
Winding thermostats, thermistors, thermocouple, and resistance temperature detectors
Lightning arresters and surge suppressor capacitors
API 541 & 547 capability
Non-contacting vibration probes for sleeve bearings
AISI 4142 / 4140 steel shaft
C-face and D-flange endshields
Stainless steel screens and hardware
Air Filters and air pressure differential switch
Bearing RTD's and thermocouples
Constant level oilers

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