



Oil & Gas

Trust the world-leader in synchronous motors to maintain your critical equipment.

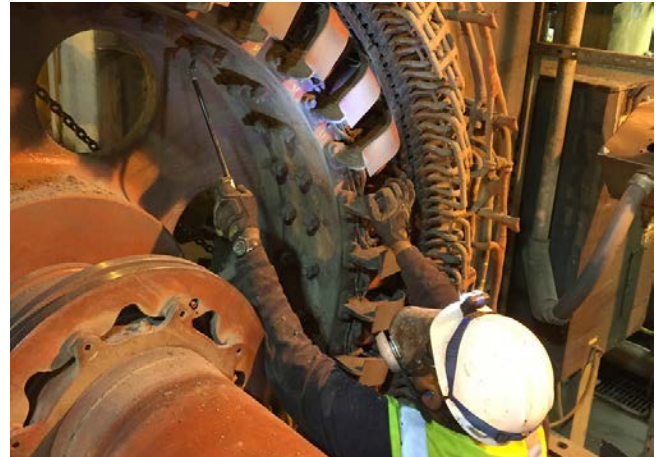


Turnkey Site Services

Trust the world-leader in synchronous motors to maintain your critical equipment and ensure greater reliability.

Maximize the in-service life of your most-valuable equipment with WEG Electric Machinery. Backed by a team of experienced engineers in Minneapolis, MN, our team will keep your equipment running longer.

- All of our technicians are specialists in synchronous motors and generators.
- We offer: installation, maintenance, alignment, repair, and testing. All backed by 125 years' of synchronous experience.
- Turnkey services include all manpower, tools, test-equipment, consumables and spares.
- Our testing capabilities include standard electrical and mechanical testing, plus: AC hi-pot, relay testing, wedge tightness, ELCID, and pole drop.
- We provide factory engineering support during your critical outage to create drawings, tooling, and interpret test results.
- We are always available for emergency and after-hours support for urgent failures or concerns.



Complete motor and generator cleaning



Major winding repairs completed at site by WEG EM technicians



Painting and varnish treatment to OEM specifications



Major stator rewinds, core repairs, and engineered upgrades



Trim balancing and advanced dynamic analysis performed by knowledgeable engineers

Controls, Protection, Engineering Support and Training

19 of the 20 largest refineries in the US trust WEG EM for their critical synchronous equipment.

Controls

- Replace your analog or obsolete equipment with digital while maintaining consistent interfaces for your operators.
- WEG EM engineers will match your legacy wiring system and enclosures to minimize interruption and operator error.
- Complete engineering drawings and interconnection with your existing system.
- Commissioning and site training offered with all of our control products, as well as on-site synchronous motor training.

Engineered Solutions

- Engineered rotor removal and inspection tools designed to reduce outage duration and minimize risk.
- Increase starting torque or overall rating of your synchronous motor.
- Improve net efficiency and electrical stability with digital power factor control.
- Protective relay settings reports to ensure your equipment is correctly protected.
- Perform a spare parts inventory to ensure maximum overlap of spares and reduce overhead.



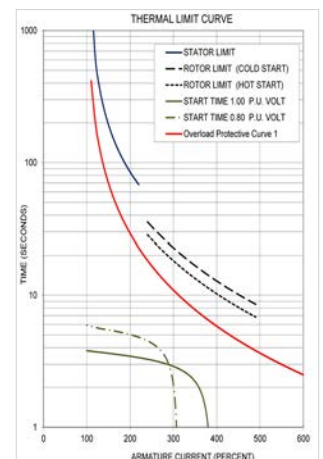
Complete motor excitation and protection cabinet suitable for Class 1, Div II areas



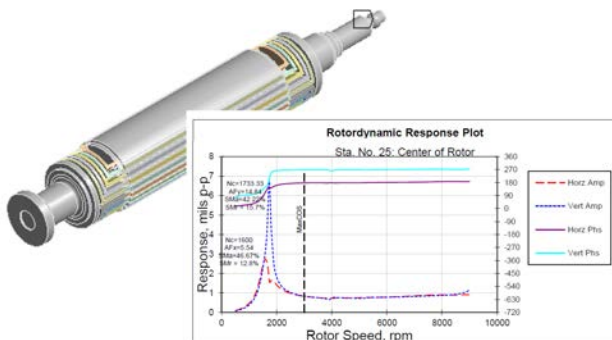
200-Amp digital excitation system for static motor or generator



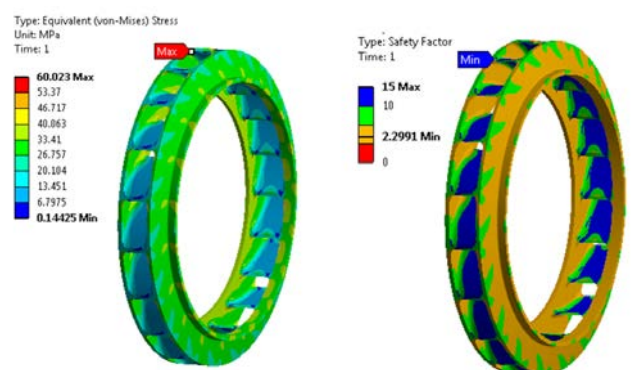
Redundant generator excitation and ground-detection system installed in major refinery



Thermal limit curve calculation to ensure adequate overload protection



Rotor-dynamic engineering and lateral stiffness calculations for equipment upgrades



Finite element modeling and advanced dynamic analysis performed by knowledgeable engineers



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