

EM Brushless Exciter Conversions



Bringing New Life to Your Critical Equipment

Convert your static excitation (collector ring) system to a state-of-the-art brushless excitation system. Converting to an Electric Machinery brushless exciter will bring you decades of durability and reliable starts; any time and every time.

Advantages

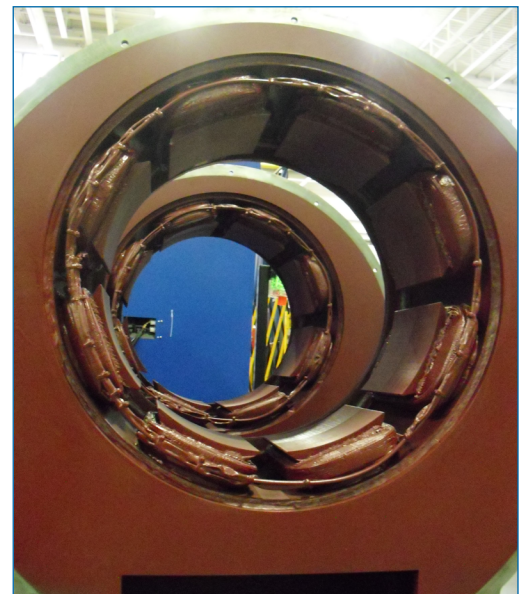
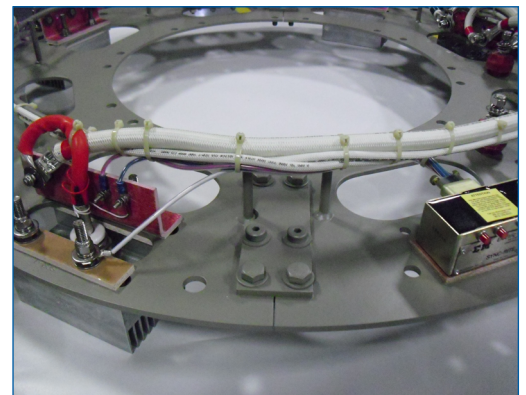
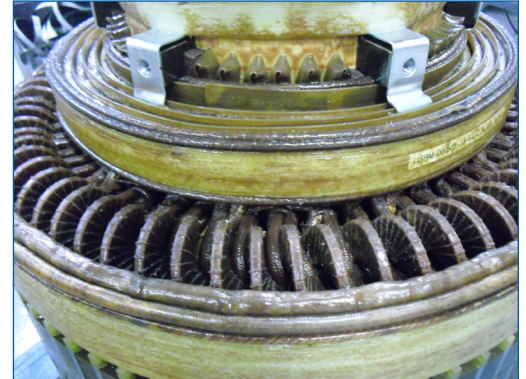
- No carbon brushes
- Shaft mounted exciter
- Reduced maintenance
- Non-sparking (can be used in hazardous areas)
- Increased excitation system diagnostic capabilities
- No field cubicle with FDR and contactor to maintain
- No collector rings or brushes for increased reliability
- Digital systems provide automatic Power Factor control
- Redesigns to upgrade existing diode wheels (all manufacturers)
- Field application occurs at the best angle for accurate synchronization
- Eliminates hazardous carbon dust build-up on sensitive components

For Generator Applications:

- PMG provides reliable power to exciter field
- Series redundant diode system (100% redundancy) with telemetry signal interface, or
- Parallel redundant diode system (100% redundancy) with indicating fuses

Features that Make a Difference

- More than 500 units installed worldwide
- VPI-treated rotor with cast spider
- Adaptors fabricated to suit your installation
- Form-wound rotor coils on high-speed exciters
- Any speed of machine may be converted (500 – 50,000HP)
- Fully-VPI treated exciter stator designed for decades of use



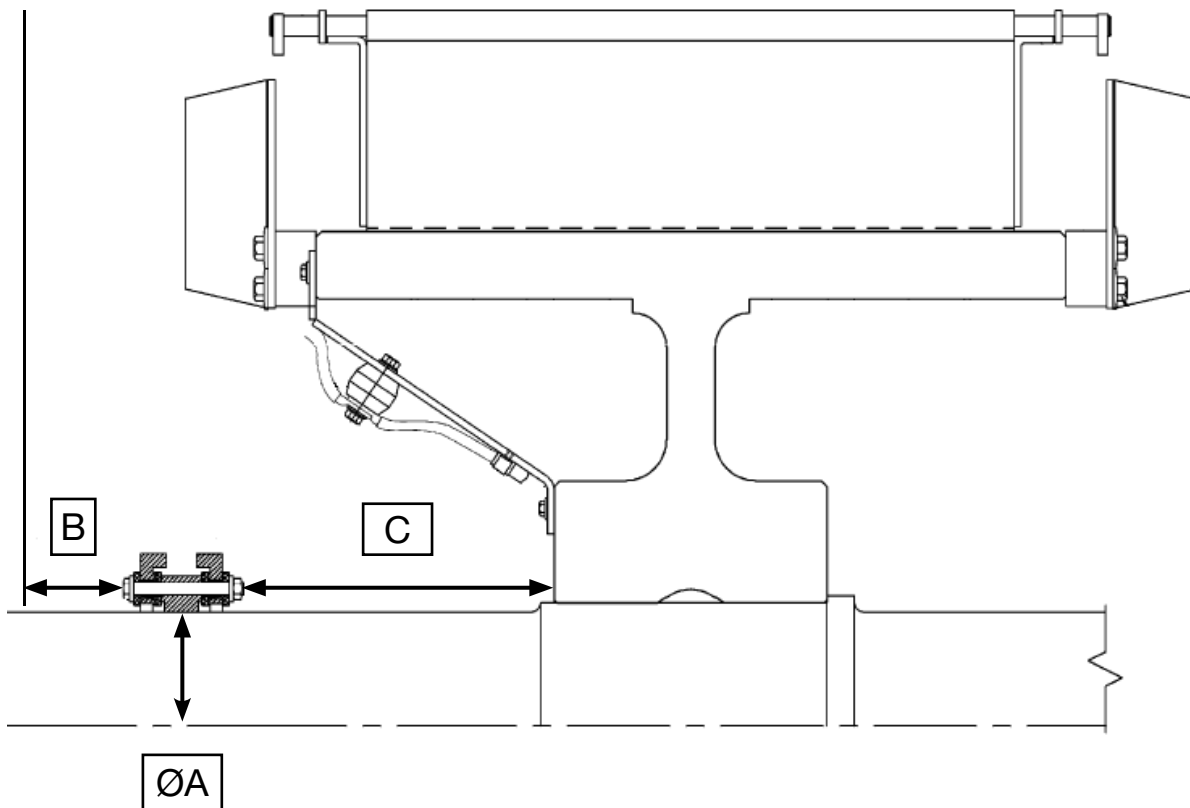
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WEG Electric Machinery requires the following information to properly retrofit existing equipment with a new brushless exciter:



Make of Machine(s) _____
 Horsepower/kVA _____
 Application _____
 Power Factor _____
 RPM _____
 Full-Load Field Amp _____
 Full-Load Field Volts _____
 Machine Outline (Attach if available)

Field Discharge Amps _____
 Field Resistance _____
 The Following Measurements in Inches:
 Diameter of Shaft where Exciter
 is to be Mounted [ØA] _____
 Distance to First Outboard
 Obstruction [B] _____
 Distance to Rotor Spider [C] _____



For more information, please contact:
 E-mail: service-em@weg.net
 Phone: 24 Hour Customer Support: +1 (612) 247-9232

ELECTRIC MACHINERY COMPANY

800 Central Avenue NE
 Minneapolis, MN 55413
 United States
 Tel: +1 (612) 378-8000
 Fax: +1 (612) 378-8051

www.electricmachinery.com

