MORGAN
INDUSTRIAL CARBON

AEGIS iPRO™
SHAFT GROUNDING TECHNOLOGY

AEGIS iPRO™ Shaft Grounding Ring
High Current Bearing Protection for Large Motors and Generators

PROBLEM:
High Shaft Currents Damage Large Motors and Generators

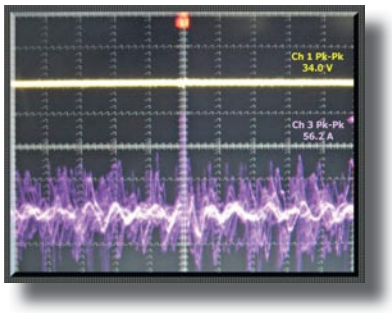
High frequency shaft voltages over 600 volts with currents over 60 amps cause motor and generator failures resulting in hundreds of thousands of dollars in system failure, maintenance and downtime. The use of variable frequency drives (VFD) with large AC motors induce high electrical voltages on the motor shaft. Once they exceed the resistance of the bearing lubricant, these voltages discharge to ground (typically the equipment housing), causing fusion craters in the bearings and motor failure.

SOLUTION:
AEGIS iPRO™ - Shaft Grounding Ring Technology

The new AEGIS iPRO Conductive MicroFiber™ Shaft Grounding Ring reduces maintenance and prevents catastrophic failure by safely channeling harmful shaft currents to ground. Using proprietary Electron Transport Technology, the conductive microfibers inside the AEGIS iPRO provide the path of least resistance for damaging bearing currents, preventing electrical damage to motor bearings and dramatically extending motor and generator life.

High Shaft Current Bearing Protection

- High amperage capability
  120 amp continuous
  3000 volts peak
- High current flow with no shaft arcing damage
- AEGIS iPRO shaft current monitoring compatible
- Long term reliable performance
- Maintenance free system



Voltage and current measurement with AEGIS iPRO installed

Contact

Morgan Industrial Carbon
AEGIS-SGR™ Products
T: +61 2 9772 5600
F: +61 2 9774 5677
AEGIS-SGR@morgancarbon.com.au

21 Amour Street
Revesby NSW 2212
Sydney Australia

www.morgancarbon.com.au

Patented Technology

AEGIS iPRO™
SHAFT GROUNDING TECHNOLOGY

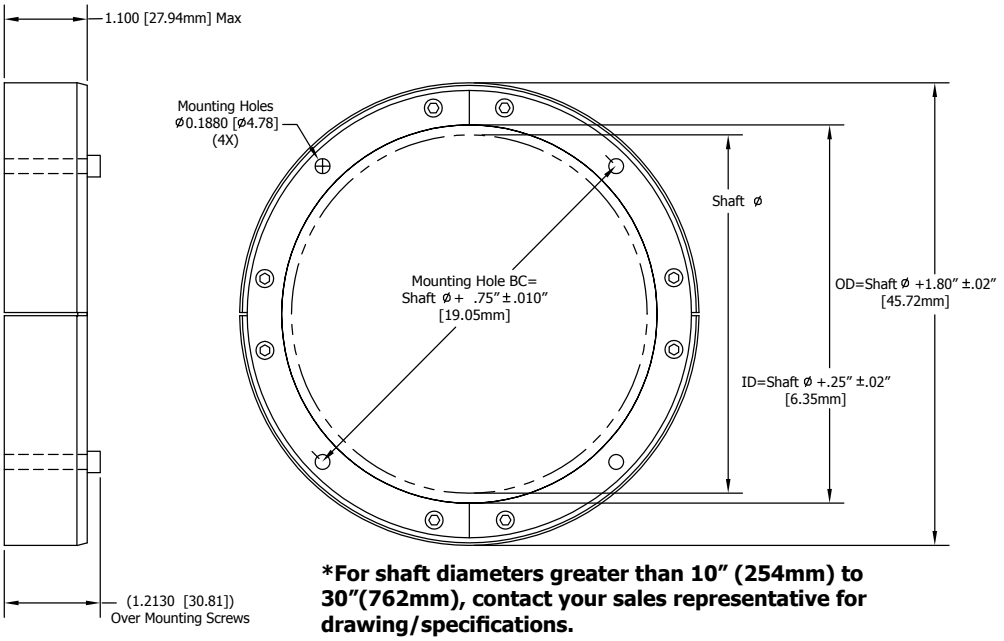
AEGIS iPRO™ HIGH CURRENT SHAFT GROUNDING TECHNOLOGY

Metric screws for standard mounting included

AEGIS iPRO™

- Engineered to 120 amps of continuous shaft current
- Rated to discharge 3000 volts peak
- High frequency shaft currents up to 13.5 MHz
- Available in sizes up to 30" (762mm) shaft diameter

Dimensions for maximum shaft diameter up to 10" (254mm)*



***For shaft diameters greater than 10" (254mm) to 30"(762mm), contact your sales representative for drawing/specifications.**

Applications:

Large AC Motors

Power Station Generators

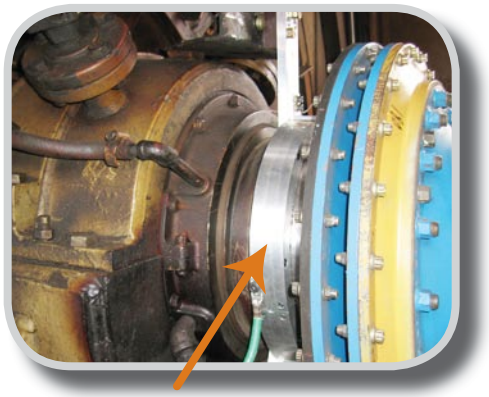
Gas Turbine Generators

Emergency Generators

Gear Boxes

Note:

1. Shaft must be clean & free of any coatings, paint, or other nonconductive material.
2. iPRO split ring is assembled around the shaft and is locked in place with the locking collar and mounting brackets. Custom mounting adaptors may be required depending on equipment.
3. iPRO should be installed by an authorized installer.



iPRO installed at a power station

Learn more about protecting motors and generators from VFD-induced bearing damage at:

www.morgancarbon.com

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