AEGIS® iPRO: Designed and Built for Maximum Bearing Protection and Long Life

The AEGIS® iPRO is a larger, beefier version of the AEGIS® Bearing Protection Ring with the greater current-carrying capacity required for larger motors and generators. Through revolutionary AEGIS® Nanogap Technology, it ensures effective electrical contact whether in physical contact with the motor shaft or not. Maintenance-free, it provides superior bearing protection for the normal service life of the motor’s bearings.

6 rows of conductive microfibers provide greater current-carrying capacity for larger motors

Specially engineered microfibers flex without breaking, protect bearings for the life of motor

Patented FiberLock™ Channel secures fibers and protects them from contamination

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Shaft

AEGIS® Ring

FiberLock™ Channel

Bearing Cap Mounting

iPROSL Universal Brackets

Custom Mounting Plate with tie bars

Philadelphia, PA
(800) 523-3382

Gastonia, NC
(888) 456-6233

Hebron, KY
(866) 598-5773

Pelham, AL
(866) 987-1915

Tampa, FL
(866) 839-4848

www.bartlettbearing.com

“Full Circle Solutions”

Bartlett Bearing Company, Inc.
A “Full Circle” Solution

Problem: VFD-Induced Shaft Voltages and Circulating Currents

When not properly mitigated, VFD-induced shaft voltages and circulating currents in large motors and generators, including
- Low-voltage motors: 500 HP or greater
- Medium-voltage motors
- DC motors: 300 HP or greater
cause electrical damage in bearings, resulting in motor failure and downtime.

Solution: Install an AEGIS® Ring on the motor shaft’s drive end...

Installing an AEGIS® iPRO Ring on the motor’s drive end will provide a path of least resistance, channeling damaging VFD-induced currents away from bearings and safely to ground. Apply AEGIS® Colloidal Silver Coating to the shaft (where the ring’s microrollers will make contact) to improve conductivity and prevent oxidation.

and insulate the shaft’s non-drive end

To interrupt the path of high-frequency circulating currents (common in large motors), install insulated bearings or sleeves on the non-drive end of the motor shaft. For vertical pump motors, insulate the bearing carrier.

Hybrid Ceramic Bearings

Unique ceramic material insulates bearings against electrical currents, extends grease life, and reduces lifecycle costs.
- Silicone nitride nonconductive rolling elements
- Insulate the bearing against damaging currents
- Extend grease life
- Reduce operating temperatures
- Available with shields and seals
- Available from stock in sizes 6203 – 6332

Coated Bearings

These bearings are coated with insulation to protect against electrical current damage.
- SKF Insocoat
- FAG Insutect
- NKE electrically insulated roller bearings
- Available from stock in sizes 6212 – 6332

Insulated Carriers

A quick and inexpensive solution to prevent VFD-driven currents from damaging vertical pump motors.
- Documented tolerances
- Ground finish
- Inspected for radial and axial runout
- 50 Rockwell C hardness
- Electrical integrity tested: Standard 1 GΩ at 1033V
- Can be applied to any OEM carrier
- Fast turnaround time

Insulated Sleeves

Thermoplastic polymer coated steel sleeves isolate bearing surfaces from electrical currents.
- Manufactured in SAE 1026 steel
- Coated with thermoplastic polymer alloy
- Dielectric strength of 1000V per mil.
- Supplied with insulating G10 epoxy glass washers
- Available from stock in sizes 6202 – 6240