



**VIBES Corp.™** Est. 1967

**V**ibration **I**ndustrial **B**alancing & **E**quipment **S**ervices, **C**orporation

720 - 999 W. Broadway, Vancouver, BC V5Z 1K5

**www.vibescorp.ca** email: **info@vibescorp.ca**

Phone: 604-681-9444 Cell: 604-619-9381 Fax: 604-738-4080

# **VIBES Corp are Agents for Inpro/Seal**



**Contact VIBES Corp to purchase  
products in this catalogue**

**"Accurate Analysis, Diagnostic Evaluations, Corrections on All Types of Machinery"**  
**Vibrations, Noise, Dynamic Balance, Performance, Laser Shaft & Drive Alignment, Electro-Mechanical Repairs**  
**ACCU-GUARD PdM Program™ Monitoring Contracts, DUE DILIGENCE Verification Studies.**  
**Agents / Specialists: Industrial & Commercial Fans, Rotors, Blowers, Cooling Towers, Motors, Magnetic (ASD) Drives.**  
**24/7 SERVICES • SALES • TRAINING COURSES**



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## Introduction to VIBES Corp

### Why work with us?

VIBES Corp's reputation was built and established on thousands of promises fulfilled over 30 years in business across Canada. Superior quality service, sales and training courses provided on the intelligent specialist level has been the standard and always will be since our vibration and balancing business was formed in Calgary, AB, in 1982. In the final real-time analysis VIBES Corp will deliver more value and peace of mind.

### What do we do?

Factory trained and specialists on the following air movement fans, pressure blowers and motors:

FlaktWoods Varofoils and Aerofoils, Sheldons Axico, Aerovent, Novenco, New York Blower, Chicago Blower, Canadian/Buffalo Blower, CML Northern Blower, Joy Axivane, Twin City, Alphair, Allied Blower, Markhot Varivane, Loren Cook, BAC, Evapco, Marley, Hudson, Hoffman, Spencer, Baldor, Reliance, Trane, Carrier, Eng.Air, Haakon, Tri-Metal, Pace, WEG, Leeson, GEC, GE, Emerson, Westinghouse, Toshiba, Siemens, Delhi, Penn, Acme, and most other types of rotating machinery.

### What do we sell?

(Note: We can not produce a catalogue large enough to show all products so please see our home page at [www.vibescorp.ca](http://www.vibescorp.ca) for info on specific items)

- magnetic adjustable speed drives and soft starts - [Fluxdrive ASD couplings and sheaves](#)
- factory or OEM replacement [fans](#), [motors](#), custom rotor parts - new and re-manufacture
- [vibration measurement, monitoring, electronic stethoscope meters and protection instruments](#) - [Balmac vibration transmitters and sensors](#), [Balmac meters](#), [Balmac switches](#), [Murphy switches](#), SPM
- machinery vibration isolation products - [Lo-Rez](#), misc.
- portable and shop gantry cranes - [Spanco](#)
- specialty lubrication and synthetic bearing grease - [Metalon](#) and [Kluber](#)
- [hand held measurement instruments and tools](#) - Flir, TES, Easy-Laser, Accutrak, Hedland, Shimpo, NovaStrobe, Raytek, Dwyer, Extech, Reed, Airboxx, Bacharach, Check-line, Leica, Phase 2, Prova, Beta, misc.
- specialty seals - [Inpro-Seal](#)

The machinery under our professional PdM programs = ACCU-GUARD PdM Programs (TM) are treated as if our own. We use proven technologies and methodologies along with our multi-technical and electro-mechanical (VIV, VPM, CPM, VFD, EIBD, etc.) training, skills, and experiences for total overall analysis and evaluations. When the total analyzed facts about a machine, motor or engine are known we formulate a true condition report and recommend the best possible solutions. We work with clients to organize necessary actions in order of urgency or budgets.

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## Where do we work?

Our service area is mainly Southern BC mainland and the Vancouver Island. As requested we can service other areas in Western Canada. Sales territories are Canada and USA depending on the products.

## Who have we worked with?

VIBES Corp service capabilities have been used and accepted by high-ranking officials in:

- other service companies
- manufacturing and processing
- engineering firms
- universities
- colleges
- hospitals
- government agencies
- oil and gas
- transportation and construction
- commercial towers
- agricultural
- mining
- ski hills
- marine
- aircraft
- lumber
- pulp and paper
- research and development
- test equipment and military from Ontario to British Columbia

We take due diligence to the highest level on all projects regardless of size or budget.

## Do we offer training?

Yes. In the sales department VIBES Corp represents and offers training courses in technologies and quality products that we use, are industry-trusted and relate to improved machinery, engine, electric motors health and performance, energy savings and preventative maintenance. Examples:

- Vibration Monitoring & Trending
- Laser Shaft Alignment
- Fan & Motor Maintenance Training
- Bearing Maintenance & Precision Installation
- Accu-Guard PdM Program (™)
- Dynamic Balancing Agricultural Machinery ON-SITE

## Learn more

You can download all catalogues and educational articles from our home page at [www.vibescorp.ca](http://www.vibescorp.ca). Here are three recent articles:

- [Learn About Vibration, Volume 1: Basic Understanding of Machinery Vibration](http://www.vibescorp.ca/lav1) at [www.vibescorp.ca/lav1](http://www.vibescorp.ca/lav1)
- [Learn About Vibration, Volume 2: Advanced Vibration Analysis](http://www.vibescorp.ca/lav2) at [www.vibescorp.ca/lav2](http://www.vibescorp.ca/lav2)
- [Electrically Induced Bearing Damage & Shaft Currents](http://www.vibescorp.ca/eibd) at [www.vibescorp.ca/eibd](http://www.vibescorp.ca/eibd)

Please review our full range of services, sales and training courses information on our website at [www.vibescorp.ca](http://www.vibescorp.ca). We'd be please to provide additional detailed project references and user lists on request.

## Contact us

We look forward to your calls or emails at all times and offer 24/7 emergency service.

Yours in Serious Service,  
Garrett Sandwell, MET, CVA

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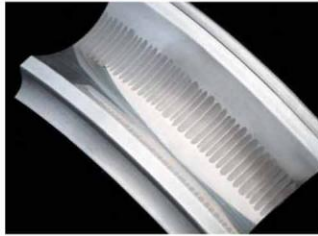
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## SAFEGUARD YOUR INVESTMENT FROM BEARING DAMAGE

### The VFD Challenge

Variable frequency drives (VFDs) are becoming the system of choice across a variety of industries because of their ability to reduce energy consumption – generating significant cost savings. However, these systems may also contribute to unplanned downtime.

VFDs induce high frequency voltages on the shaft that seek a path to ground through the motor's bearings or the bearings of the coupled equipment. When these voltages exceed the insulation breakdown of the lubricant, they discharge through the bearings to ground.



Stray shaft currents discharging through the bearings on rotating equipment can cause fluting on the bearing race, resulting in premature bearing failure.

### The Cost of Electrical Damage

This discharge, called electrical discharge machining (EDM), causes fusion craters, pitting, frosting, and fluting. These effects make EDM a leading cause of premature bearing failure in VFD-driven motors.

Even if the motor itself has insulated bearings, shaft currents can travel to the coupled equipment, such as pumps, pillow blocks and gearboxes, and damage those bearings. The results are costly and include reduced equipment reliability, increased maintenance costs, unscheduled downtime and lost revenue.

	SHAFT GROUNDING OPTIONS					
	CDR®	CERAMIC BEARING	COPPER METAL BRUSH	CARBON BRUSH	CONDUCTIVE GREASE	FILTERS ON VFD
EASY MOUNTING	✓					✓
MAINTENANCE FREE	✓	✓			✓	
HIGH ROI	✓					
LOW INITIAL COST	✓			✓	✓	
LONG LIFE	✓					
NO RPM LIMIT	✓	✓				✓

### Reducing Electrical Damage

Diverting shaft currents and controlling EDM needs to be a priority for your business. Various methods have been used over the years to mitigate shaft currents, but they have all had limitations...until now.



The Inpro/Seal® Current Diverter Ring™ and Motor Grounding Seal™ protect bearings from harmful stray shaft currents.

**SAME-DAY SHIPPING AVAILABLE**

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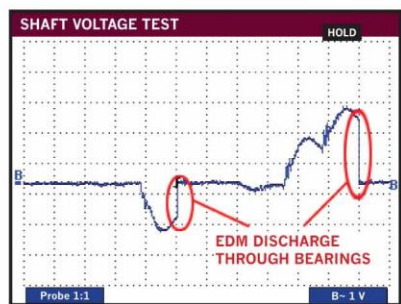
**The Inpro/Seal® Solution**

The Inpro/Seal Current Diverter Ring™ (CDR®) uses proprietary conductive filaments to protect bearings from stray shaft currents by providing a low impedance path to ground – drawing the currents safely away from the bearings.

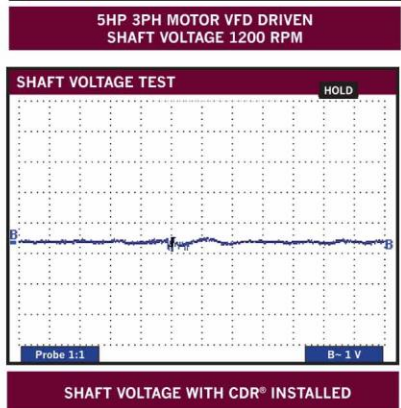
For severe duty applications, the Inpro/Seal Motor Grounding Seal™ (MGS®) combines proven shaft-grounding technology with the patented VBXX® Bearing Isolator to provide complete bearing protection against stray shaft currents and contamination ingress.

**Benefits:**

- Split designs available for easy installation
- Can be installed by OEMs or retrofitted on site
- Maintenance free at all RPMs
- Modular design allows for use with any size motor
- Multi-stage product can handle high shaft currents found in larger rotating equipment
- Can accommodate shaft sizes of 0.625 – 48.0 in. (1.59 – 121.92 cm)
- Manufactured in bronze, stainless steel and aluminum



Stray shaft currents discharging through the motor's bearings.



No discharges with the Inpro/Seal® CDR® installed.

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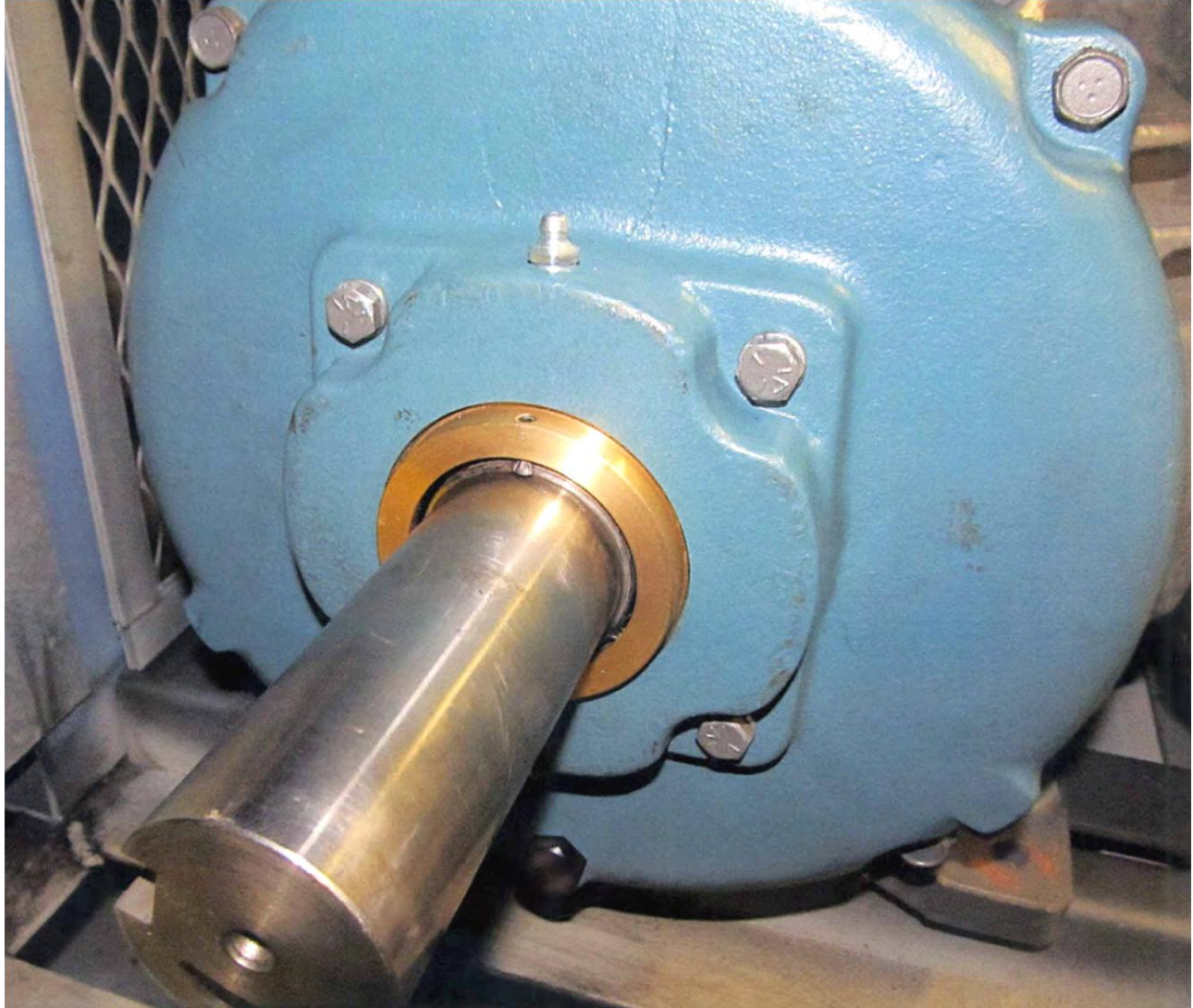
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INPRO-SEAL MGS SEAL INSTALLED ON A MOTOR DRIVE END

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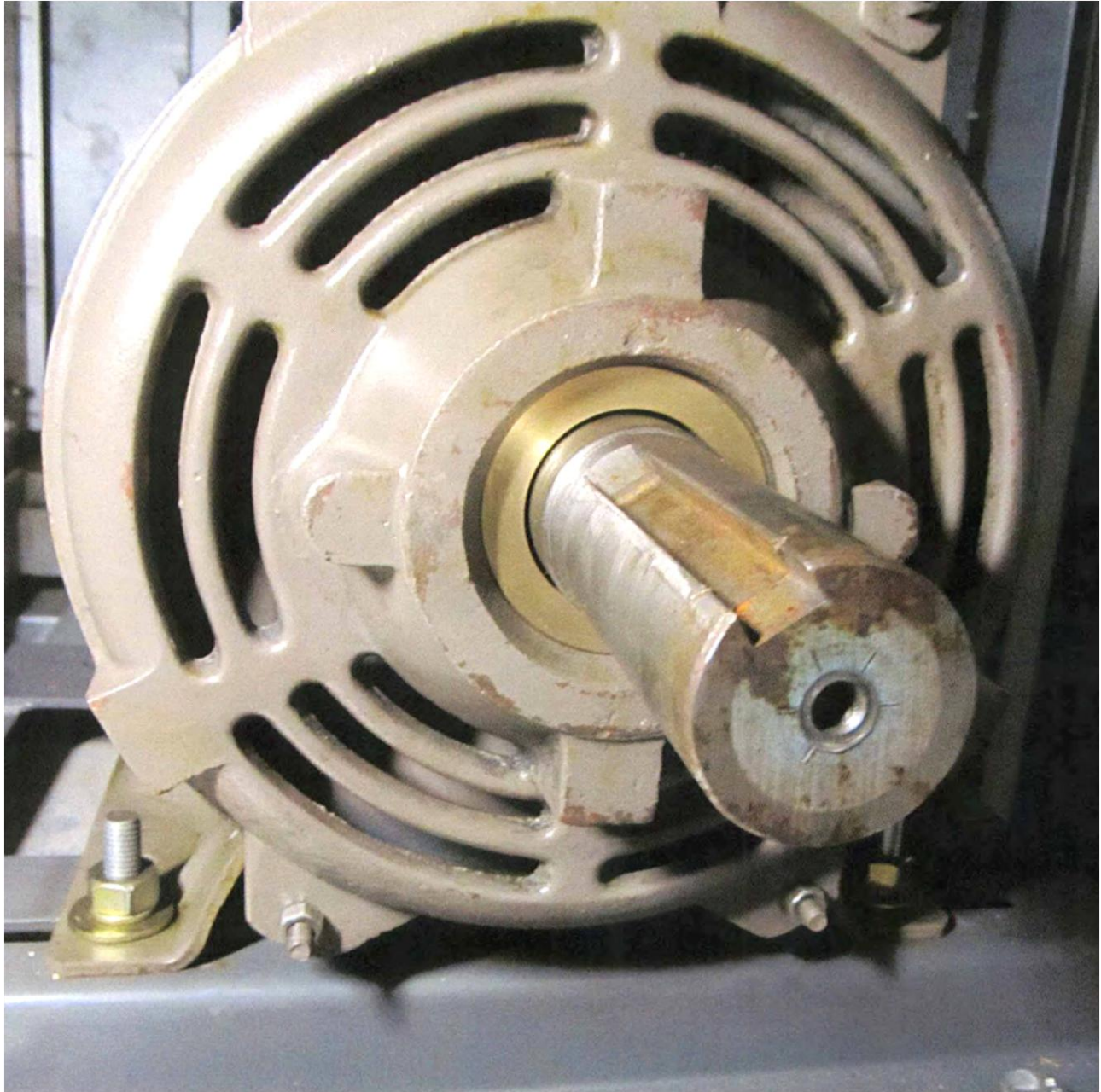
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## MGS\*



### Motor Grounding Seal (MGS\*) \*Patent Pending

**Electric motors** that are controlled by variable frequency drives (VFD) usually have destructive induced shaft currents that are discharged through the bearings, causing them to deteriorate and fail. The stray electrical currents can cause fusion craters, pitting, fluting and premature failure of the bearings.

**Now**, the Inpro/Seal® Company has combined with the Electro Static Technology – ITW Company to offer an innovative Bearing Isolator that directs the stray shaft currents away from the bearings while at the same time, permanently protects the bearings from environmental lubricant contamination.

The Bearing Isolator and the grounding ring are both absolutely maintenance-free and are designed to last as long as the normal design life of the motor.

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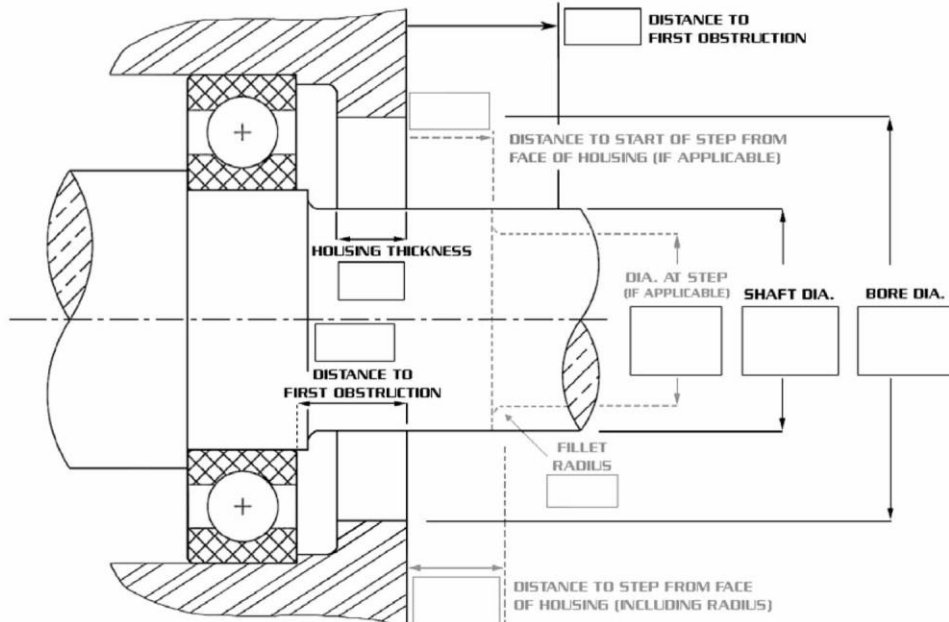
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## MGS\* Request For Quote



Please supply all dimensions to (3) decimal places

### DATA NEEDED FOR QUOTE

<p>1) Application: Motor</p> <p>2) Shaft Position: Horizontal Vertical Up Vertical Down</p> <p>3) Bearing Type: Ball Sleeve Roller</p> <p>4) Primary Dimensions: Shaft _____ Bore _____ Max OAL _____</p> <p>5) Mounting: Standard Press-Fit Flange Other _____</p> <p>6) First Obstruction: Outward Inward Step On Shaft</p> <p>7) Temperature At Seal Location: _____</p> <p>8) Environment: _____</p> <p>9) Total Pieces Of Equipment: _____</p> <p>10) Contact For Questions: _____</p>	<p><b><u>BRIEFLY DESCRIBE THE APPLICATION</u></b></p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>
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## GUARANTEED PERFORMANCE

All Inpro/Seal products are backed by an unconditional performance guarantee. See our website for complete details.

### Unmatched Customer Service

Inpro/Seal's responsive global sales network is committed to making sure you have the right technology for your application, right when you need it. We know that time means money for you. That's why we offer same-day shipping on most products, even new designs. No matter what your application, we can deliver a custom engineered solution designed to meet your specific needs.

**Technology you can rely on, supported by customer service you'll appreciate.**



Inpro/Seal multi-stage CDR® for high voltage systems.

### Experience You Can Trust

Reducing EDM damage requires a custom engineered solution that takes into account all these factors:

- Motor size
- Bearing type
- Bearing insulation
- Existing circulating currents
- Existing system grounding configuration
- Operating equipment
- Coupled equipment

You don't need to be an expert; our knowledgeable team will help. You can count on Inpro/Seal, the leader in bearing and system protection, to maximize the uptime of your rotating equipment. We've been the trusted source for bearing isolator technology for more than 30 years, and now we're expanding our product offerings to deliver protection from electrical damage. Inpro/Seal's line of complete shaft grounding solutions is ideal for HVAC, industrial, and wind energy applications.

### The Inpro/Seal Advantage

Inpro/Seal is committed to delivering innovative technology and superior customer support...standard with every solution. When you work with Inpro/Seal, you can expect:

- Same-day shipments available on most products, including new designs
- Custom engineered solutions for your application and operating environment
- Knowledgeable sales network providing localized support
- Unconditional performance guarantee on all products

### Engineering Specifications

To ensure that your equipment is protected by Inpro/Seal's shaft grounding technology, simply include the following with your specifications:

"All motors driven by variable frequency drives (VFD) shall include bearing protection in the form of a device to divert shaft currents to ground. The device shall be maintenance free and constructed of highly conductive bronze. Recommended device: Inpro/Seal Current Diverter Ring™ (CDR®)."

"All VFD driven motors operating in harsh environments shall employ complete bearing protection through the use of a non-contact or non-contacting-while-rotating type seal to obtain an IP55 degree of protection as well as an integrated device to divert shaft currents to ground. Recommended device: Inpro/Seal Motor Grounding Seal™ (MGS®)."

## READY TO GET STARTED?

Contact VIBES Corp:

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