HELWIG CARBON PRODUCTS, INC.

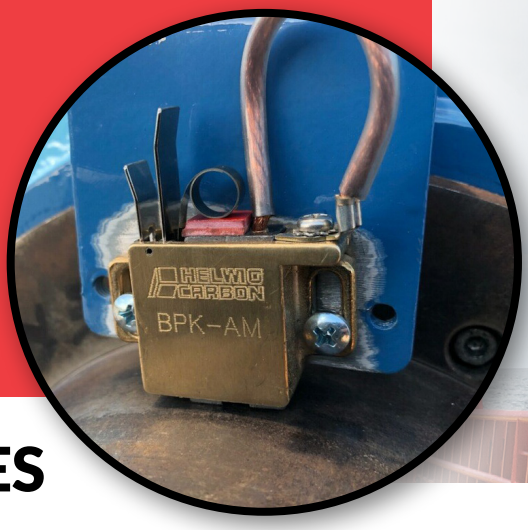
Bearing Protection Kits
Large Motor Applications

HELWIG'S **BPK** SOLUTION

Industries with large, critical application motors recognize the need for a shaft grounding solution to prevent VFD induced bearing failure. Helwig Carbon uses proven silver graphite technology to effectively divert electrical currents away from the bearings, protecting them from damage and premature failure. Helwig BPKs are the best choice for preventing motor downtime and costly repairs.

BPK's Protect Motors From Bearing Failure Across Large Motor Industries

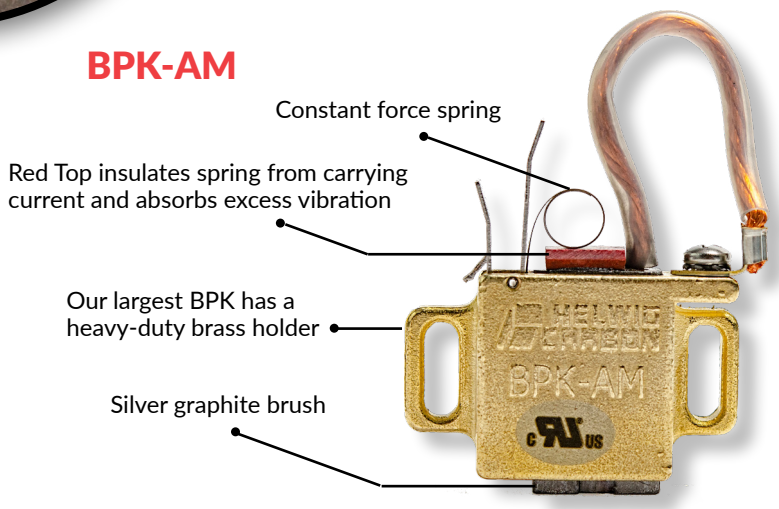
- Oil & Gas
- Maritime
- Mining
- Steel Mills
- Other Heavy Industrial Applications



BPK **ADVANTAGES**

- High current carrying capacity
- Effective at high & low frequencies
- Proprietary silver graphite technology
- Optional remote monitoring for preventative maintenance
- Effective in contaminated environments
- Easily installed, one size fits all
- Extremely long life (typically 10+ years)
- Maintenance-Free

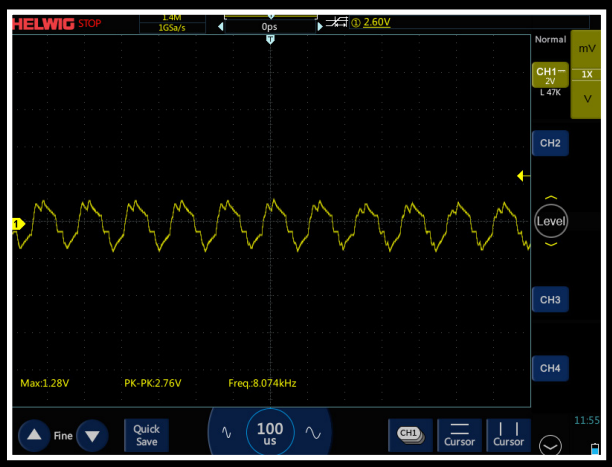
BPK-AM



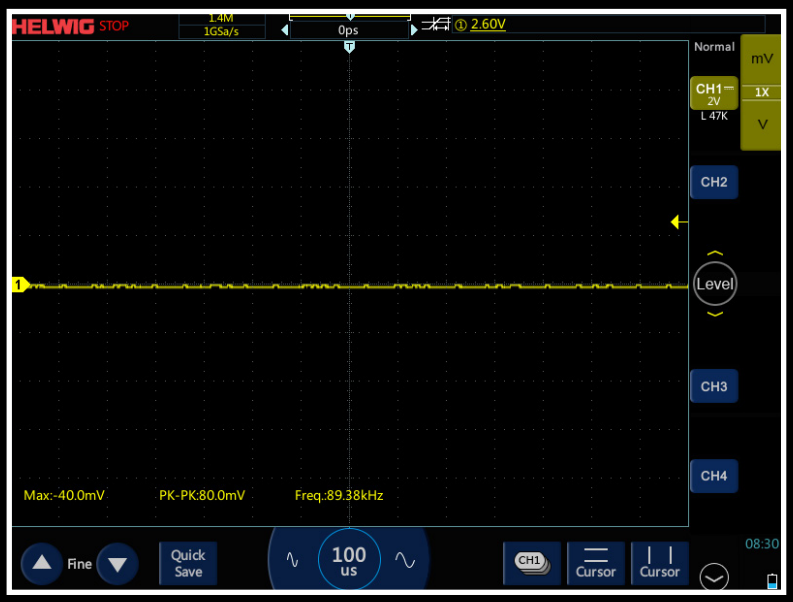
MORE EFFECTIVE THAN THE CARBON-FIBER RING

Bearing Protection Kits™ mitigate shaft voltage and other electrical noise. The following oscilloscope screenshots compare induced shaft voltage with our BPK-4 vs. a carbon-fiber ring.

UNPROTECTED MOTOR SHAFT (13.5V)



CARBON-FIBER RING (2.76V)



HELWIG BPK-4 (80.0mV)

Silver graphite is more than **5X lower** in resistance than carbon-fiber, which significantly reduces the risk of induced shaft currents flowing through the bearings.

HELWIG'S **PREMIUM** CUSTOMER SERVICE

Local Field Support Around the U.S.

On-Site Engineering Services Available

ABOUT HELWIG CARBON

Helwig Carbon Products, Inc. is the premier, family-owned, American manufacturer of carbon brushes, brush holders, spring assemblies, bearing protection kits, metal graphite brushes, and mechanical carbons. Since 1928, we have forged innovations that have since become industry standards and requirements. We pride ourselves on manufacturing all of our products to the highest standard and performance because we know your application depends on it!

HELWIG CARBON PRODUCTS, INC.

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MADE IN USA