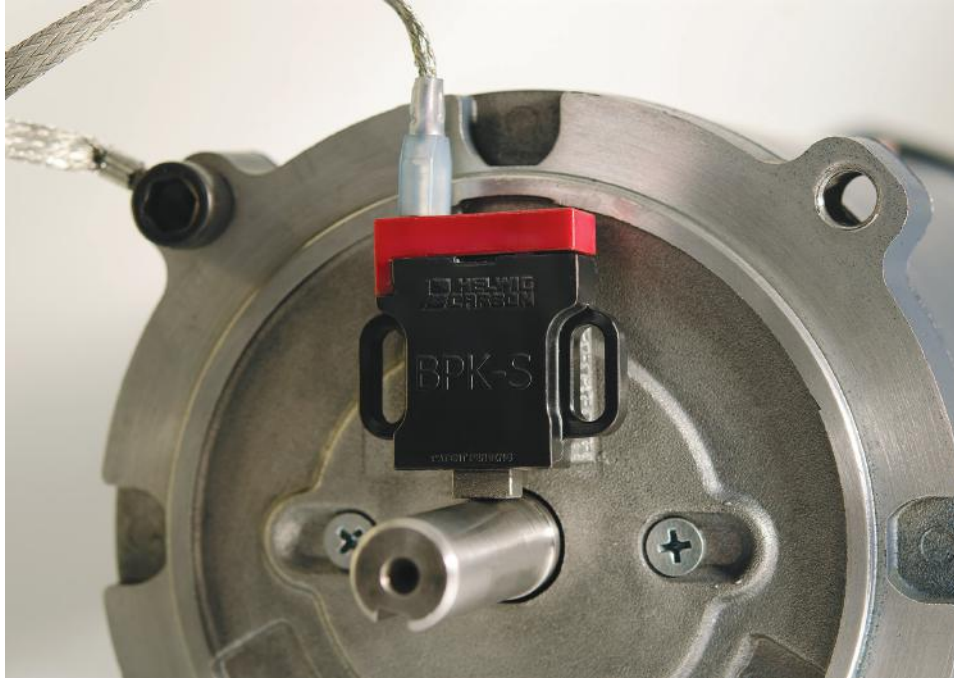



# Helwig Carbon

## New Bearing Protection Solution



Sealed Bearing Protection Kit - (Patent Pending)

- A proven solution to protect your motor bearings.
- Sealed and protected from outside elements and contamination.
- Most effective technology for minimizing shaft voltages & damaging currents.
- Very long life; typically exceeds 2.5 million miles (4 million km), of sliding contact.
- Constant force spring for consistent low resistance contact.
- Easy to install externally or internally; adjustable height slotted mounting holes.
- One size fits all motors. Large shaft diameters may need multiple kits.
- Quick disconnect grounding terminal.
- UL approved. 

For more information on your bearing protection needs,  
contact Helwig Carbon at **800-962-4851**.



# New Bearing Protection Solution

## Causes of Bearing Damage

AC and DC Motors with variable frequency drives (VFD) produce induced electrical currents on the motor shaft. This current seeks the path of least resistance to ground which is typically through the motor bearings. When current passes through the bearings electrical arcs take place leading to fluting, pitting, and bearing damage. The fluted or damaged bearing surface cause noise, vibration, and premature bearing failure. This can lead to costly downtime and lost revenue.

## Preventing Bearing Damage

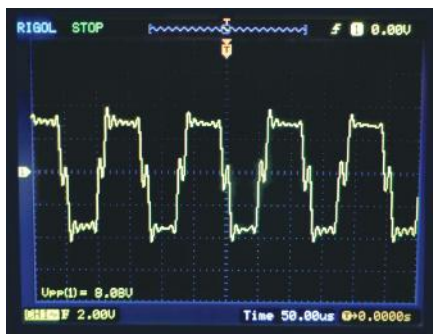
Helwig Carbon uses proven silver graphite brush technology in a variety of bearing protection kits (BPK) for motor shaft grounding. Our kits effectively divert induced electrical currents away from the bearings, protecting them from damage.



## Where Bearing Protection is needed:

- Motors with VFD
- HVAC Units
- Pump Motors
- Fans
- Air Handling
- Compressors
- Elevators
- Data Centers
- Chillers
- Conveyors
- Refrigeration
- Generators
- Drilling Rigs
- Propulsion Systems
- Cranes

## Most effective shaft voltage reduction:



Unprotected Motor



Protected with Helwig BPK



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