



BPK-Probe™

Shaft Voltage Detection Device

PATENT 10942203

MEASURE the shaft voltage of VFD and DC-PWM controlled motors

Features:

- Color Display (LCD) for enhanced viewing capabilities
- Durable silver graphite testing tips
- Thin, compact design for tight spaces
- Simple action test trigger
- Ground Error detection function prohibits inaccurate testing
- Micro SD Card for recording test data
- Rechargeable battery by Micro USB
- BNC output for oscilloscope recordings
- Embedded Bearing Protection Kit™ (BPK)

Description:

- An easy-to-use device used to determine if the bearings are at risk of damage from induced shaft currents
- The device will display a pass / fail test result. A higher risk or volts present on the shaft will trigger a *FAIL* result, meaning the motor bearings are at risk of damage
- An embedded Bearing Protection Kit™ (BPK) will depict the reduction of risk level or voltage if a Helwig BPK is installed

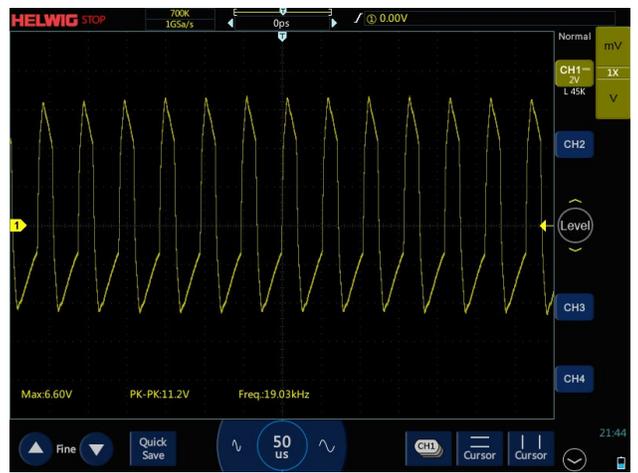


Diagnosing the Problem

AC motors with VFDs and DC motors with PWM drives produce induced electrical charges on the motor shaft. This current seeks the path of least resistance to ground, typically through the motor bearings. This leads to electrical discharge machining (EDM) of the motor bearings, causing fluting and pitting of the bearing and eventual bearing failure.



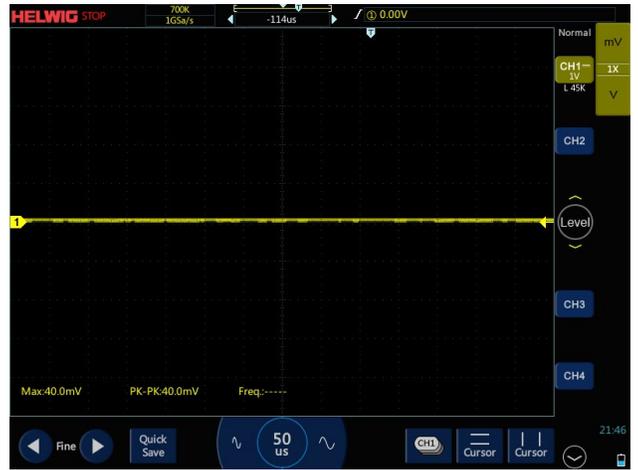
Without BPK protection



Helwig Carbon's Patented BPK-Probe™ is equipped with a micro SD card for internal test result storage and a BNC cable output to be used with the included oscilloscope. This high-quality tablet oscilloscope will allow a user to record and save the test results. The graphic visual is a powerful tool when promoting bearing protection to customers.



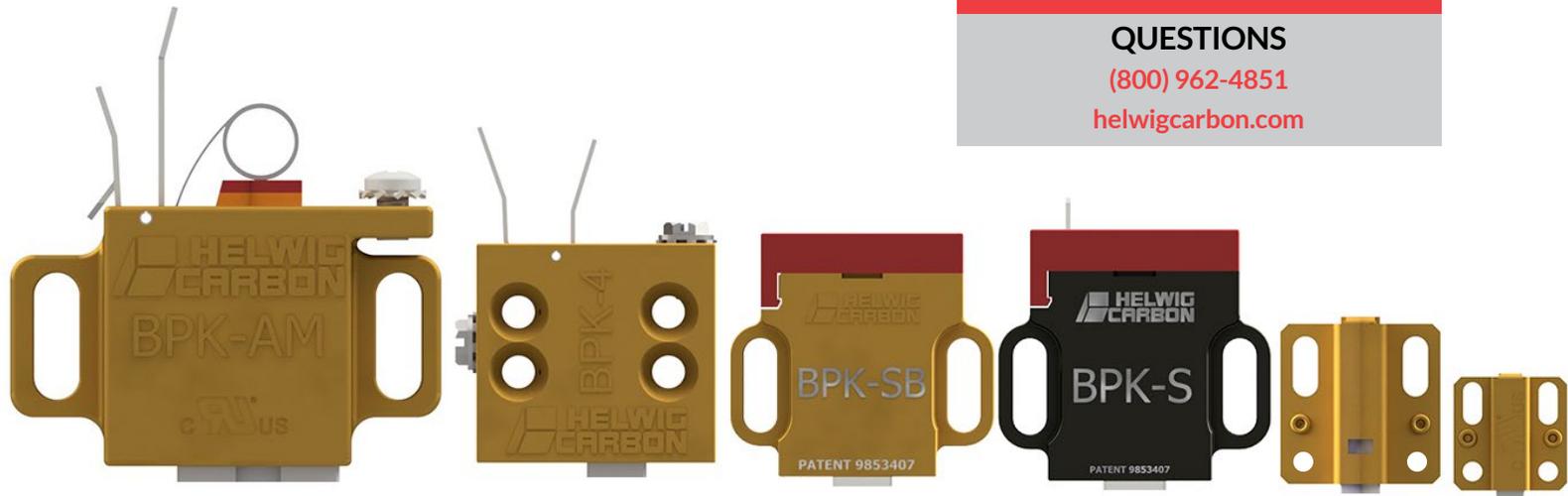
With BPK protection



The Solution

As a proven and reliable solution for decades, Helwig's BPKs™ are easy to install, fit a variety of motor shafts, offered with mounting options, and provide superior dependability.

QUESTIONS
(800) 962-4851
helwigcarbon.com



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!



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