GEN-3 INNOVATIONS FOR SUPERIOR PERFORMANCE

CONSTANT FORCE BRUSH HOLDER & ARM ASSEMBLY

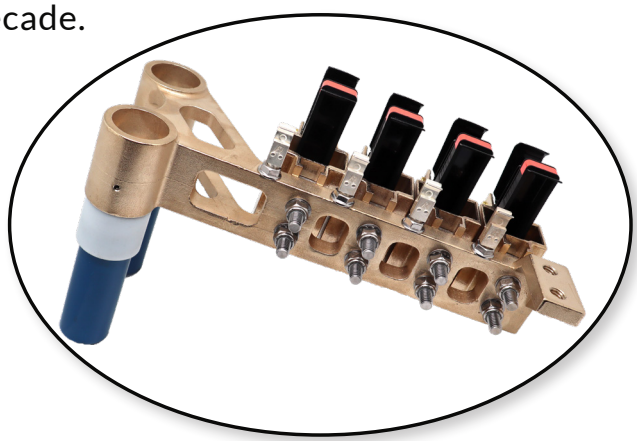
FOR EMD MODELS D12, D22, D32

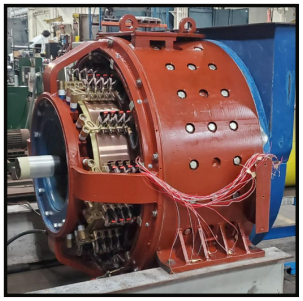
HELWIG® CARBON PRODUCTS, INC.

https://www.helwigcarbon.com/brush-holders/

Experience longer run times, less downtime, and reduced arc flash on your EMD Motors and Main Generator Models D12, D22, and D32 with the Helwig Constant Force Brush Holder & Arm Assembly. Enjoy increased performance, productivity, and profit. It's been tried, tested, and perfected for over a decade.

GEN-3 HOLDER
Result of Continual Innovation for
MAXIMUM EFFECTIVENESS





HELWIG CARBON HAS REVOLUTIONIZED THE INDUSTRY

Advantages Of Our Constant Force Brush Holder & Arm Assembly

Designed to Address Production Challenges

- Consistent Spring Force
- Faster Brush Changes
- Built-in Brush Wear Indicator
- Brushes Designed for the Application
- Individually Replaceable & Adjustable Boxes
- Low Cost Spring Assemblies - Easy to Change Out
- Helwig Quick Disconnect Terminals & Mounts
- Fewer Brushes (48 vs. 60)*

*Design with fewer brushes optimizes current density, resulting in longer brush life by reducing mechanical wear.

- Built and Designed in the U.S.

CONSTANT FORCE BRUSH HOLDER AND ARM ASSEMBLY

INCREASE PRODUCTIVITY & REDUCE DOWNTIME

Packaged for Performance

Helwig's brush holders are solid castings, made with the finest quality brass, and have constant force spring assemblies. They are designed specifically for your application and engineered with exclusive features that reduce maintenance costs, improve performance, and extend brush and commutator life.

Eliminate Tension Headaches

Heavy-duty integrated spring design with wear indicator. The brush holders provide more constant pressure throughout the life of the brush.

- Less risk of commutator damage
- Less chance springs will pop out or bind in brush box
- No older spring mechanism to bind up over time
- Basic maintenance schedule and daily pre-run motor inspections still apply

Order Your Gen-3 Holders Today!

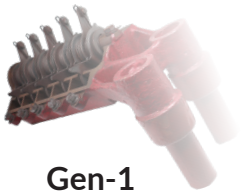
Gen-3 Holder with Constant Force Springs
Part # 70.871522.4.702

H50 Grade Brushes
Part # 10871527588101

H49 Grade Brushes
Part # 93871525588201

GEN-3 RESOLVES ISSUES FROM PAST GENERATIONS

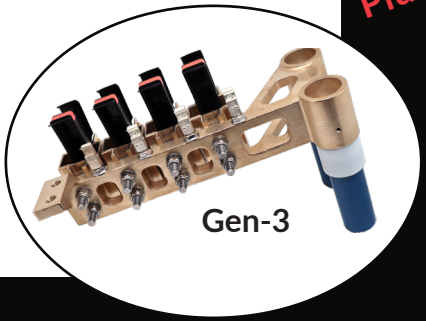
Gen 1 Issues	Gen 2 Issues
Finger Style Spring with Non-Constant Force	Double Coil Spring Design, Less Forgiving Spring Cells
Springs Get Weaker with Time	Spring Life is Lower
Time Consuming to Replace Brushes	Time Consuming to Replace Brushes
Have to Replace the Complete 4-Pocket Holder Casting	Have to Replace the Complete 4- Pocket Holder Casting



Gen-1

Gen-2

Plus



Gen-3

Gen 3 Solutions

- Consistent Spring Force
- Longer Spring Life
- Faster Brush Changes
- Individually Replaceable and Adjustable Boxes
- Built-in Brush Wear Indicator
- Low Cost Spring Assemblies That Are Easy to Change Out
- Helwig Quick Disconnect Terminals and Mounts

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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