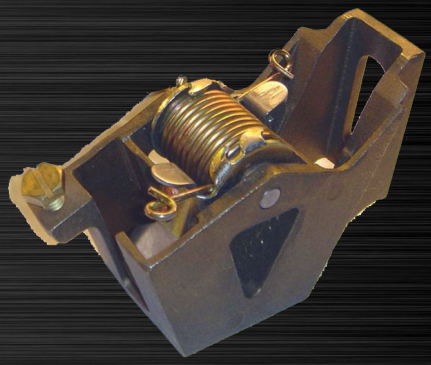
HELWIG CARBON PRODUCTS, INC.

GE Toe-to-Toe Brush Holder Upgrades

Helwig Carbon Upgrade Advantages:

- Single brush design - longer brush than the GE original
- Quick and easy brush changes
- Constant Force Springs provide increaded pressure and longer brush life
- Easily change springs without having to remove the holders



- Add value to your repairs with our improved replacements for industry popular GE Toe-to-Toe Brush Holders

Constant Force Springs

- Better Performance
- Decreased Brush Wear
- Replaceable Spring Clips
- Consistent Spring Force

ADVANTAGES OF CONSTANCE FORCE SRPINGS

- Provides consistent force throughout the life of brush.
- Results in better brush performance, and improved brush life.
- Springs are replaceable. Other springs may require replacing the entire holder assembly to replace the spring.
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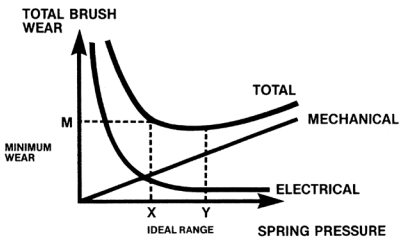


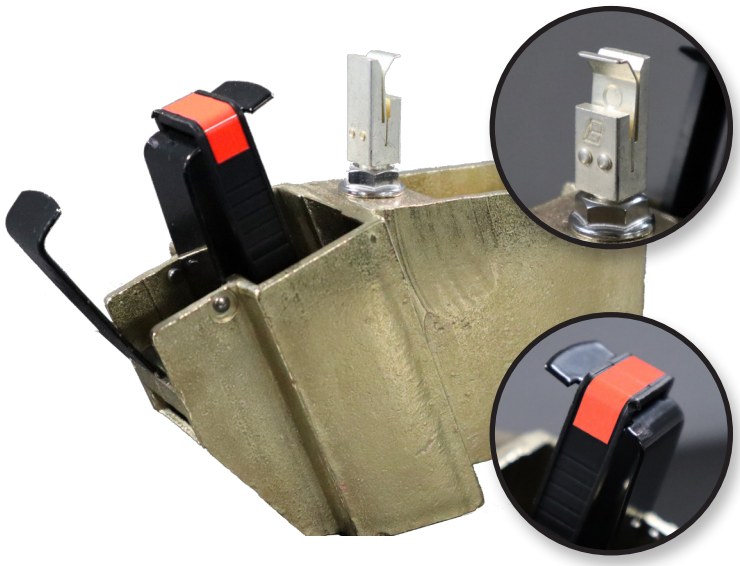
FIGURE 4

helwigcarbon.com/brush-holders

Comparison

"Original" GE Toe-to-Toe Brush Holder vs. Helwig Constant Force Brush Holder

	ORIGINAL TOE-TO-TOE	HELWIG CONSTANT FORCE
Brush Wear Rate	Dramatic loss of spring tension on wafer when one brush wears more than the other.	With only one spring to apply force, pressure is evenly distributed. Also, equipped with wear indicators.
Commutator Distance	If not adjusted properly, wafers can make contact with each other before or at the surface of the commutator.	Allows height adjustment to maintain stable brush support.
Tension Adjustment	Tension Spring Holders must be adjusted as the brush wears.	Adjustments are not needed becasue the spring maintains constant force on the brush at all times.
Changing Brushes	Awkward spring clips with carbons and springs to change, as well as adjusters, and terminals to install.	Helwig Quick Disconnect (HQD) facilitates a swift and easy disconnection.
Cost	Needs twice as many brushes that need more frequent replacements.	A single, longer brush can be used to extend time between brush changes.



HQD Terminals
(Helwig Quick Disconnect)

- Impressively fast and easy way to change brushes
- No screws to remove, lose or replace!
- HQDs lock together with a tight, positive locking action even under rough conditions

Brush Wear Indicator

- Optional brush wear indicator is the industry's most convenient way to monitor brush wear.
- Red "danger strip" informs you the brush is worn out and should be replaced.
- Preventative maintenance's dream accessory

QUICK TURNAROUND TIME | COMPETITIVE PRICING | QUANTITY BREAKS

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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