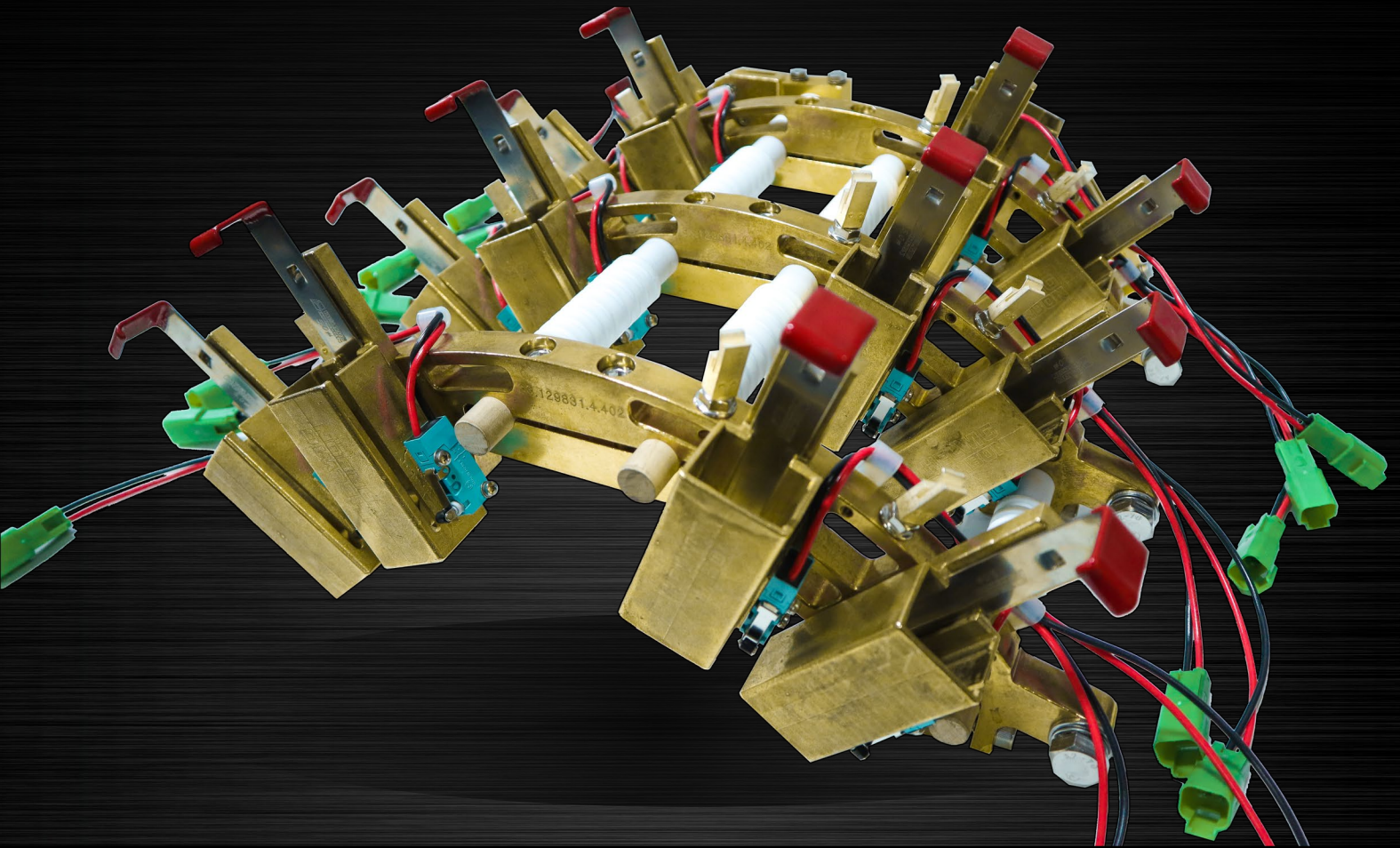




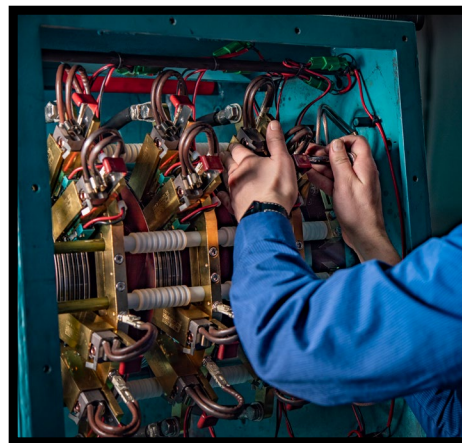
Hitachi 1.5-1.7kW Wind Kit Upgrade

Custom engineered to outperform the OEM



Premier Retrofit Features

- Robust, precision machined brass brush holder for years of durability in tough environments
- Longer brush boxes for increased brush support
- Teflon™ spacers to protect against flashovers



- Durable wiring harness for reliable operation of brush wear switches
- Replaceable and adjustable brush boxes for installation flexibility
- Stable and radial holder design with replaceable spring clips

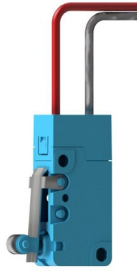
Patented
**HELWIG QUICK
DISCONNECTS
(HQDs)**

- No screws to remove, tighten, lose or replace!
- HQDs lock together with a tight, positive locking action even under rough conditions
- Increased maintenance safety



**BRUSH WEAR
SWITCHES**

- Improved switches provide accurate brush wear monitoring
- Wire harness comes fully assembled with switch and high quality easy-snap plugs



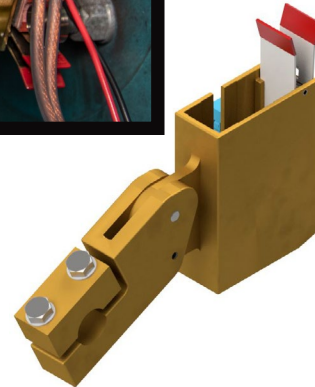
**CONSTANT FORCE
SPRINGS**

- Improved replacement springs to maintain better contact and sustain up-tower vibrations
- Enhanced spring design extends brush life by applying constant pressure at the brush face



**ADJUSTABLE
GROUNDING HOLDERS**

- Adjusts to multiple ring diameters, post diameters and positions to provide proper holder height
- Ideal for multiple applications and is optimal for electrical contact for the brushes



Helwig's Wind Team

Our Wind Team provides wind farms with problem diagnosis, installation assistance, part maintenance recommendations and industry-leading brush & holder knowledge. Helwig's superior power and grounding solutions are customized to meet desired outcomes and risk profiles to provide world-class field service expertise and service performance excellence.



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