

# In-Situ Slipping & Commutator Repairs

Nicol & Andrew can repair your worn or damaged slippings and commutators using our innovative, in-situ "orbitool" equipment. This rotates around the stationary shaft and avoids the need for shaft rotation. If needs dictate we can also rotate the shaft and use special purpose machine tools to cut, grind or finish the damaged surface.

## How You Benefit By In-Situ Slipping Repairs

- **No need to strip out the Slipping or Commutator, (remove brushgear only)**
- **Downtime reduced (as little as 24 hours)**
- **Restored to original OEM specification**
- **Fast response**
- **Always available, 24/7 service**
- **Comprehensive technical backup**

## Worn Cooling Grooves Repaired

We re-groove or deepen grooves in worn slippings where the depth of groove has fallen below a predefined minimum limit. This work can be carried out using our "Orbitool" equipment or by rotating the shaft and using a precision machine slide and grooving attachment.

## Slippings Returned To Original Diameter In-Situ

Our Lloyds approved portable electroplating service can be used to build back up worn copper slippings. This can avoid the usual delays in waiting for a new slipping.

## Commutators Refurbished In-Situ

We can machine and polish your commutators in-situ using our existing "Orbitool" techniques plus many other techniques including grinding and finishing.

## Mica Insulators Relieved

The mica insulator can be relieved back below the surface of the Commutator and any Commutator edges profiled smooth. All swarf created during this operation is carefully removed to avoid shorting problems.

**Call 07000 667483  
ONSITE**

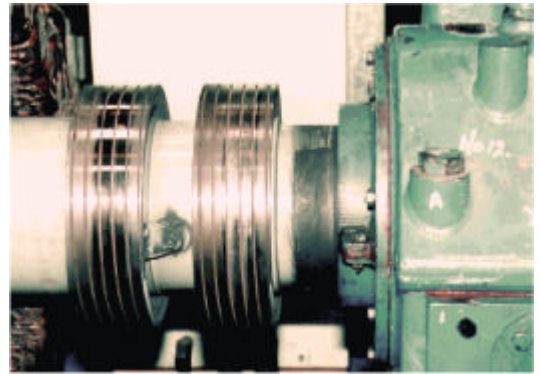


### To contact us:

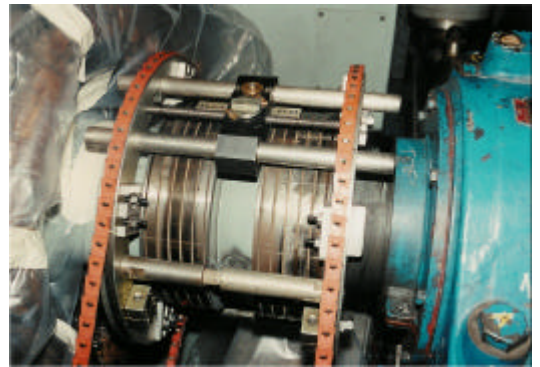
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Web site: <http://www.nicolandandrew.com>

**Over 50 years in the in-situ repair business**

## Repair Examples from the Power Generation World



Damaged Slippings in a UK Power Station



Old Style "Orbitool" set up on a Slipping



An Example of a Machined Commutator

UK sole agents for  
**TriTool Inc.**  
Portable Machine Tools



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