



In Situ Turbine Journal Repairs

Nicol & Andrew repair turbine journals that have suffered a failure in-situ using our patented "Orbitool" turning and grinding equipment.

Journals Repaired "On Site" to the OEM Standard

Referencing the radii or parallel shaft at either end of the damaged journal we machine and polish the bearing area back to the OEM's original specification. The most critical tolerance in such high speed shafts is the concentricity which is usually required within .013 mm TIR.

How You Benefit By In-Situ Journal Repairs

- **Fast response (often same 1day)**
- **Downtime reduced (as little as 24 hours)**
- **Always available, 24/7 service**
- **No need to fully strip the machine**
- **No need to rotate the shaft**
- **Restored to original OEM specification**
- **Guaranteed and verifiable results**
- **Comprehensive technical backup**

Large or Small Diameters

We repair turbine journals with diameters ranging from 150mm up to 900mm with lengths up to 1400mm.

Scored or Damaged Turbine Shafts Restored to Original Size

In certain situations we can selectively electroplate to fill scored areas and even bring your journal back to original size in-situ. Your damaged shaft can be restored to an as new condition.

Hydrogen Seals Machined In-Situ

Machining and grinding of Hydrogen seal faces is performed in-situ to repair scoring and any swash present in the face. We have designed equipment over the years to cope with almost any configuration and size of face. Flatness will be held within .025 mm TIR (with respect to datum's provided) with a measurable surface finish of 0.3pM Ra.

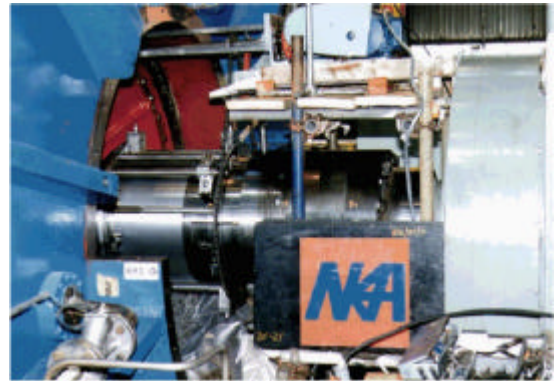


To contact us:

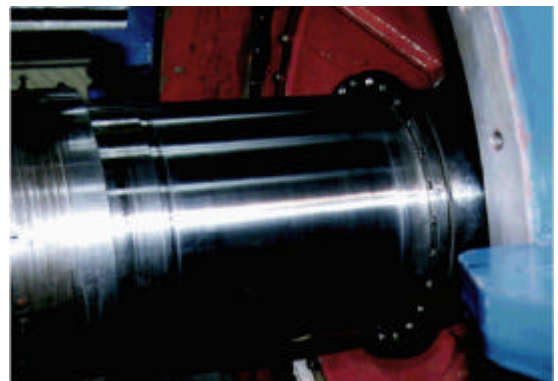
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Web site: <http://www.nicolandandrew.com>

Over 50 years in the in-situ repair business

Repair Examples from UK Power Stations



Machining and Polishing a 533 mm Ø Turbine Journal



A 533 mm Ø Turbine Journal AFTER Machining and Polishing



Machining and Polishing of a 610 mm Ø Hydrogen Seal Face

UK sole agents for

TriTool Inc.

Portable Machine Tools



Nicol & Andrew Plc

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