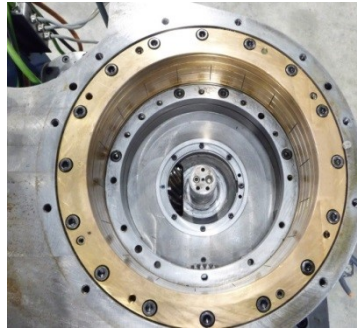
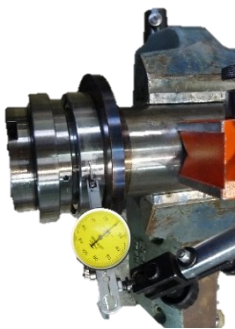




• **SPINDLE RENOVATION IN OUR WORKSHOPS**

- Inspection and repair, cone grinding.
- Tool clamping check, replacement of wear parts (bearings, seals).
- Passage in test bench.
- Installation on site.

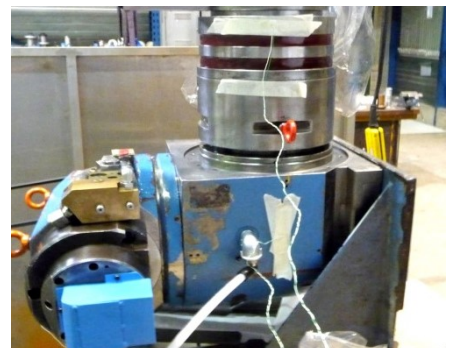


• **SUB-ASSEMBLY REVISION : Mechanical machining head (universal head, 5-axis head, angle head, extension head), ram, positioner, gearbox, reducers...**

- Replacement of wear parts (bearings, seals).
- Resumption of sprocket sets.
- Repair of tool clamps.
- Run-in in test bench.

• **REPLACEMENT UNIVERSAL ANGLE HEAD (machine Forest Seramill)**

- **Complete renovation** with installation of a replacement head.
- **Removal of the head** to be renovated, **control/adjustment** of head geometry.
- **Features** : A and C axis, indexable 2.5° ISO50 cone, 2500 tr/min.





• **MACHINE MOVING / TRANSFER**

• **GENERAL MACHINE MAINTENANCE : TROUBLESHOOTING, EXPERT**

- **Mechanical** : ball screws, ways, bearing block, bearings replacement, geometry control & setting : axis adjustment, levelling, scraping, laser, tool clamping check.
- **Hydraulics** : cylinder revision, hydraulic tank, pumps.
- **Electric** : measurement system (scales, encoders), motors, variators, power supply.
- **Automation** : numerical control (**NUM, FANUC, Siemens, Heidenhain**).
- **Vibratory** (monitoring during machining with SURVITRACE software) :
 - **Vibration detection** in 3 directions x y z.
 - **Full traceability** of the machine status **at each fault identifies**.
 - **Quick installation** on existing or new machine (**radio link**).
 - **Parameter setting** of thresholds by specific software installed on computer.
 - **Integration on NC** : NUM, SIEMENS, others (to be checked).

