PMK

Repair and Rebuild of Spindle, Ballscrew, Rotary Table and Bearing









REBUILD / UPGRADE OF ANY SPINDLE / ANY BRAND / AND SIZE

THREE LEVELS OF SERVICE

REPAIR & RECONDITIONING



- Inspect spindle and system components
- Rework/ replace damaged components
- Replace precision bearing (with brand of your choice)
- Rebuild bearing housing
- Electrical checks and shaft balancing
- Complete run-in and bench testing to simulate field parameters under controlled conditions

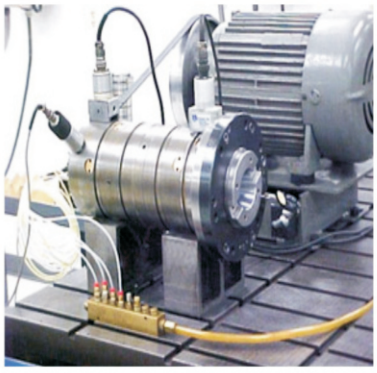
ADVANCE REBUILD



- All repair and reconditioning activities listed above
- Assess detailed failure mode analysis
- Modify standard bearing design to extend service life
- Optimize design to permit either higher turning speeds or improved shaft stiffness
- Recondition tapers and repair live tools
- Rewind electric motors
- Manage spare parts

ENGINEERED UPGRADE

Based on brand engineering experience in spindle design and components enhancement, there are a range of solutions to extend life and increase productivity.



- Conversion from journal to rolling element bearings
- Upgrade seals
- Mechanical modification, such as ends of shaft and clamping systems
- Improvements to increase power / speed and help the spindle meet production needs

Benefits for the Customer

- **Reduce Costs**
- **Raise Productivity**
- **Extend Machine Tool Life**

- All spindle types
- All Bearing types and brands
- 06 month warranty
- Engineering expertise, evaluation and consulting

- The right level of service to meet your needs
- Preventive maintenance contracts
- Customized training program
- Repair and manufacturing of parts and mechanical components
- Grinding up to 2000mm OD and 1950mm ID, max length 3000mm.
- Dynamic shaft balancing up to 150Kg

Repair and Rebuild of Rotary Table and Bearings

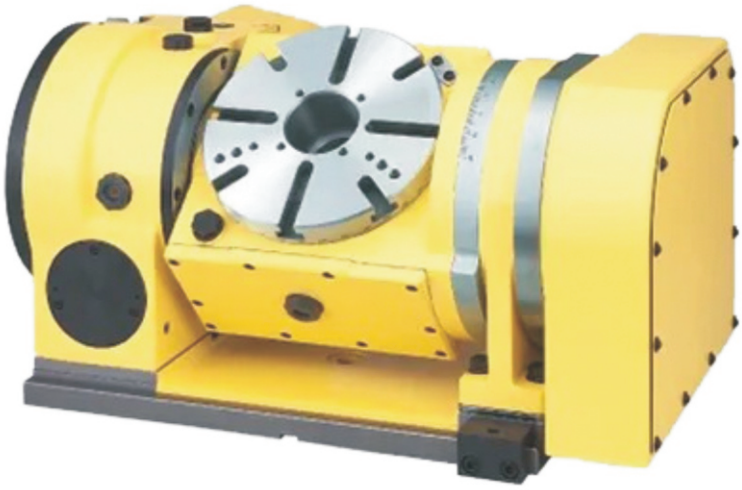
Complete overhauling and reconditioning of Bearings includes,

1. Bearing Inner ring raceway correction,
2. Bearings outer ring raceway correction,
3. Induction hardening of raceways to maintain hardness,
4. Correction on Bearing Roller / Ball cage.
5. Replacement / correction of ball or Roller separators.
6. Replacement of Hardened ground precision Balls.
7. Replacement of hardened ground precision Rollers.
8. Replacement of suitable seals,
9. Correction on Inner and Outter gears of the bearings.
10. Preloading the bearings as per ISO standard.
11. Complete inspection before dispatch.



Complete overhauling and reconditioning of Rotary table includes,

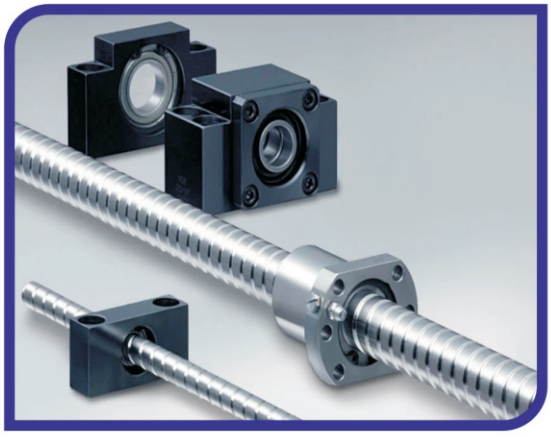
1. Replacement / correction of worm wheel cam follower,
2. Replacement/ correction of worm shaft,
3. Replacement of suitable bearings,
4. Replacement / correction of Encoders,
5. Replacement of suitable seals,
6. Backlash correction,
7. Runout correction.
8. Clamping / Declamping correction.



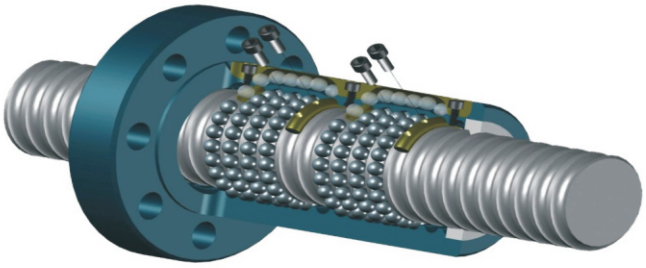
We can repair your ball screw in 12 to 24 hours !

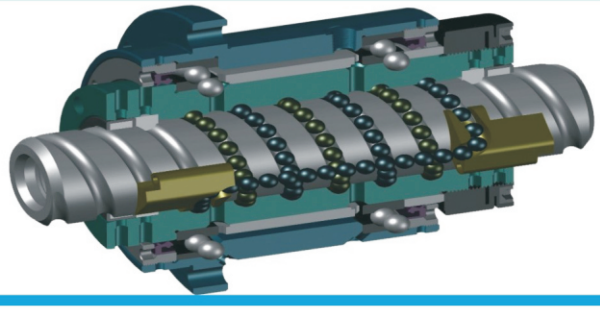
Lot of companies " Change Balls " of screw, which is fine, If you want it to last for a few months.
If you want it to last few years then you need to do a complete rebuild of the Ball Screw with us.











1. Check the load if the nut at each end of the screw & in the center locating any trouble spots.
2. Complete disassembly of the ball screw and nut, checking ball size, ball groove depth, returns etc.
3. Thread grinding (ball grooves) your screw and to end.
4. ID grind the nut (ball grooves) to the same size & tolerance as the screw & replace all tubes, returns
5. Precision ground & polished a new set of balls to match the newly ground ball grooves on your screw / nut
6. Final assembly to original preload, replacing all wipers & seals, inspection, testing & packaging .
7. If bearing seatings are damaged, we can OD grind and chrome plate to OEM specs.

The end result is a complete remanufactured ball screw that will last years instead of months.
We offer a 06 month warranty because we completely remanufacture your ball screw.