

# SKF Reliability Systems

## Bearing refurbishment for railway taper bearing units

SKF Reliability Systems provides a dedicated TBU refurbishment facility that meets the stringent Railtrack Group standards.



The Taper Bearing Units (TBUs), used on railway rolling stock are critical to the smooth running of any rail system. The refurbishment of railway bearings is a specialised task requiring expertise and specialised equipment. The quality of our workmanship is guaranteed and all refurbished TBU bearings leave the SKF Reliability Systems service centre fit for further service and carrying a full warranty.

The work is carried out by experienced and qualified SKF Technicians, using the correct tools, lubricants and seals, using the following process:

- All TBUs are thoroughly cleaned using a water based, environmentally friendly cleaning process.
- Dismantling is completed with care and using the correct tools. All TBUs are held as individual sets to avoid the possibility of components from one bearing being installed in a different one.
- All parts are visually inspected and, if any critical component is found to be faulty, they are rejected for replacement with brand new bearings.
- Critical components are checked for dimensional accuracy using

purpose made fixtures and measuring gauges. This includes the bore, outside diameter, cage clearance and ovality in the bearings rings.

- Bearings are checked for axial clearance (end float) and, where necessary, an appropriately sized new spacer is fitted.
- The correct grade of high quality grease is applied in the optimum quantity in three places: under each set of rollers and between the roller sets.
- Brand new SKF seals are fitted using the correct tools to avoid damage.
- Every bearing is permanently marked with its refurbishment date and details, enabling the service history of every TBU to be identified.
- Refurbishment details are stored in an SKF database against the TBU serial number, together with service details supplied by the customer. This is a requirement of the train owners specification IB/TS0801.

SKF Reliability Systems' expertise does not end with bearing refurbishment. SKF can also design, manufacture and assemble special bearing and axlebox housing units to customer specification, with parts being inspected to appropriate quality standards.

When failure is not an option, SKF Reliability Systems delivers complete peace of mind for the railway industry.

For further information on how the SKF TBU refurbishment service can benefit your company, contact your SKF Reliability Systems representative or visit us on-line at [www.skf.co.uk/reliability](http://www.skf.co.uk/reliability)

### Refurbishment services

Proactive Reliability Maintenance (PRM)

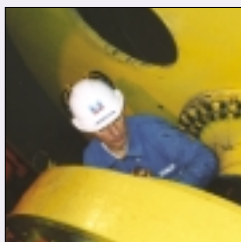
Integrated Maintenance Solutions (IMS)

Conditioning monitoring services

Maintenance services

Engineering solutions

Training courses



### ■ Proactive Reliability Maintenance (PRM)

- Proactive Reliability Maintenance™
- Fan reliability programme

### ■ Integrated Maintenance Solutions (IMS)

- Integrated Maintenance Solution™
- Integrated Maintenance Solutions for the paper industry

### ■ Condition monitoring services

- On-site condition monitoring services
- CoMo-Link remote diagnostics
- Lubrication analysis service
- Keeping the power flowing

### ■ Maintenance services

- Precision mechanical services
- Bearing installation
- Bearing failure analysis

### ■ Refurbishment services

- Bearing refurbishment service
- Bearing refurbishment for railway taper bearing units
- The vital link in clip chain refurbishment

### ■ Engineering solutions

- Getting bearings on the London Eye
- SKF on board the world's largest pipeline laying ship
- Where there's a wheel there's a way
- An open and shut case for SKF
- Customised housings solution
- SKF bearings can stand the heat
- SKF bearing solution gets many fans
- Where there is muck, there is brass
- Design and project engineering
- Technical consultancy

### ■ Training courses

- Industrial bearing maintenance and service
- Balancing with Microlog™
- Machinery Analysis I
- Machinery Analysis II
- Fundamentals of machine condition
- Intro to PRISM<sup>4</sup> for Windows™
- Intro to Microlog™ system
- Intro to PRISM<sup>4</sup> on-line systems
- Intro to Machine Analyst™
- Intro to the MARLIN® system

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