

SKF remanufacturing services











Overview

How can you improve productivity and meet increasing demands without driving up costs?

You're under constant pressure to run machines at higher speeds for greater throughput, which pushes production lines past their limits. Your purchasing department is directed to choose lower-price replacement parts, and even OEM-specified parts are often designed to be 'just good enough.'

In this vicious cycle, maintenance downtime creates higher repair costs and makes it harder to meet output targets. Running machinery to failure leads to reactive maintenance, which is the highest-cost approach in the long run.

There's an alternative. SKF Remanufacturing Services help you achieve significant cost savings and reduced downtime. SKF remanufactured parts perform as well as or better than brandnew OEM replacement parts and increase the ultimate life of the parts.

SKF Remanufacturing Services

- Bearings and bearing housings
- Machine tool spindles
- Rope sheaves

Dedicated SKF remanufacturing facilities and staff are located around the world, providing unmatched expertise and quality to a wide variety of industries. SKF is your partner in taking your machinery to new levels of productivity.

Industries served

- Automotive
- Bulk handling
- Chemical
- Construction
- Food and beverage
- Machine tool
- Marine
- Metals
- Mining, mineral process, cement
- Oil and gas
- Packaging
- Printing
- Pulp and paper
- Railroad
- Renewable energy
- Utilities, municipalities, government

Canada

North American remanufacturing locations

Cambridge

Avon • Cleveland

USA

Birmingham

Bearing remanufacturing

Replacing bearings can be an expensive proposition, both in new bearing cost and lost productivity. At SKF, we take bearings that were slated for scrapping and expertly remanufacture them to like-new condition for extended service.

All ball and roller bearings — regardless of OEM —10" to 315" in diameter

- Slewing ring bearings
- Ball and roller: thrust, radial, multi-row
- Roller: cross, three-row, cylindrical
- Contact ball: four- and eight-point
- Thin section ball and roller
- Caster bearings
- Backing bearings
- Bearings smaller than 10" may be remanufactured as well

Benefits of SKF bearing remanufacturing

- Extend bearing life cycle by 50% or more
- Save up to 75% of the cost of a new bearing
- Increase bearing in-service life by 100% or more
- Reduce total life cycle costs
- Improve uptime by increasing machine availability

Remanufacturing process

- 1 Disassemble, wash, inspect, and measure components
- 2 Repairability review and report
- 3 Polish and grind rings; polish rolling elements
- 4 Replace components; clean and inspect cage
- 5 Clean, measure, and inspect components
- 6 Assemble and add corrosion protection
- 7 Inspect and document all critical features







Bearing remanufacturing options

We can also remanufacture your bearings to a new or higher specification, by mounting sensors or providing integrated lubrication, sealing solutions, and rework to other specifications.

If your bearing is beyond repair, choose SKF's new replacement bearings, which meet or exceed OEM standards at a lower cost than an OEM replacement bearing.

Housing remanufacturing

Why replace a bearing housing if you don't need to? Whether minimal repairs or an extensive rebuild is required, SKF lets you return to operation quickly and extend the operational life of your equipment.

Remanufacturing process

- 1 Inspection and report
- 2 Polish housing bore, split planes, and seal grooves
- 3 Replace all hardware
- 4 Repair bore, split, and base as needed
- 5 Repair seal grooves and threads as needed
- 6 Repaint and preserve
- 7 Return with as-new warranty

Upgrade options available

- Sealing, including bolt-on covers and taconite seals
- Housing bore width modification
- Machining to accept temperature and condition monitoring sensors
- Fitting sight glasses and oil fillers
- Cross-drilling sump or extra lubrication holes





Machine tool spindle remanufacturing

At SKF, we know how important spindle reliability is to keeping production targets. We've been operating machine tools in our own facilities for more than 100 years, and we manufacture super-precision bearings for spindles.

We service thousands of machine tools spindles annually through our global network of service centers. SKF local spindle hotels provide proper storage and condition testing of your refurbished replacement spindles to guarantee readiness, functionality, and instant shipment.

Benefits of SKF spindle remanufacturing

- Upgrade spindles to better-thannew capabilities
- Faster turnaround, lower cost than ordering new OEM-specified parts

- Lower spare parts inventory needed
- Increase reliability, speed, precision, and efficiency
- Produce more without incurring higher maintenance costs and downtime

Remanufacturing process

- 1 Disassembly and condition evaluation
- 2 Corrective actions plan
- 3 Dynamic balancing
- 4 Motor and sensors validation
- 5 Testing and run-in
- 6 Service reporting

Spindle upgrade

When returning a spindle to its original operating condition, SKF can also provide spindle upgrades and improvements such as:

- Upgraded precision bearings
- Optimized sealing solutions
- Advanced lubrication options
- New arrangements
- Condition Monitoring reliability systems and remote diagnostics
- Re-engineering based on the specific needs of your equipment





Rope sheave remanufacturing

The rope sheave is a key element in the paper-making process. If sheaves are not running properly, the rope can slip, resulting in rope wear, paper tail tears, and broken ropes, requiring unscheduled shut-downs. Lubricant leakage damages the paper, and the need to access hazardous locations puts maintenance personnel at risk. SKF replacement rope sheaves operate maintenance-free for two years or more, and are an excellent solution for the 'wet end' of paper mills where humidity is an issue.

Lost production hours and labor were costing one SKF customer—a well-known board mill—almost \$1,000,000 per year as they replaced 30 failed sheaves annually. SKF engineers found that sheave bearings were failing due to inadequate lubrication and corrosion damage. By replacing

the bad performers with rope sheaves rebuilt by SKF, unplanned downtime was significantly reduced.

Benefits of rope sheave remanufacturing

- Maintenance-free for two+ years
- Reduced rope wear and chance of paper breaks
- Reduced risk of sheaves falling off
- Increase reliability, speed, precision, and efficiency
- Eliminated grease leakage
- Ideal for difficult-to-access locations
- Ideal for applications where lubrication, humidity, and contamination are issues
- Rope sheaves with minimum 6" root diameter are candidates

Remanufacturing process

- 1 Bore out sheave, equip with new SKF bearing hub, shaft assembly, and special grease
- 2 Unit and bearings are sealed for life, eliminating the need for grease nipples or lubrication ducts
- 3 Units are black-chromed to resist corrosion (other coatings also available)
- 4 Patented security device locks the unit firmly in place and prevents it from falling off the shaft
- 5 Alignment during installation (optional)
- 6 SKF hub bearings can be provided so the sheave does not need to be returned again for remanufacturing

In cases where rebuilding is not an option, an SKF Authorized Distributor can provide a completely new unit.





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