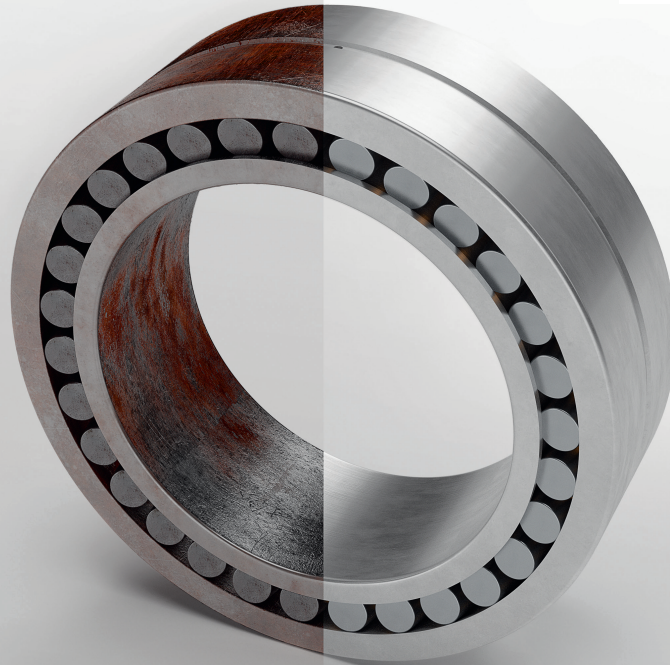


Find our Products and
Services at our Certified
Schaeffler Partner



Schaeffler Remanufacturing

Reconditioning and maintenance of rolling bearings

We pioneer motion

SCHAEFFLER

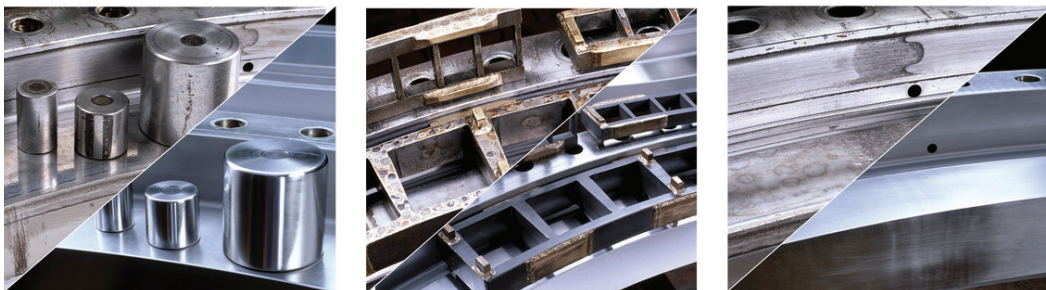
Just like new

Remanufacturing gets your bearings running again



What can you do if your bearing is damaged or has presumably reached the end of its operating life? A new rolling bearing can be expensive, and replacements aren't always available on short notice. Often, however, there's no need to buy a new one. Remanufacturing restores old or damaged bearings to a like-new condition. This process not only saves you money, but also quickly returns a fully functional bearing back to service.

Remanufacturing can be performed at any time and can also be scheduled as a fixed part of regularly scheduled maintenance. The service can even be contracted when the new bearing is purchased to extend its operating life right from the start. This allows any damage and wear to be detected and rectified quickly before it worsens and leads to unplanned downtime.



What you can achieve with remanufacturing: Before and after pictures

Your benefits with Schaeffler Remanufacturing

There are many reasons to have your used bearings remanufactured. It is not only cost-effective, but also sustainable. It also reduces downtime.

By using our remanufacturing service, you can achieve a longer operating life for your rolling bearings. This lowers your costs, because remanufacturing is often cheaper than a new bearing and reduces the total cost of ownership. Remanufacturing also contributes to greater sustainability, as the materials and energy required for new production are saved.

Because remanufacturing is often possible on short notice and only takes a few weeks, you'll receive a fully functional bearing faster – one that also meets the same requirements, undergoing the same tests and processes as a new bearing. Depending on their condition, rolling bearings can also be reconditioned several times and be used for much longer as a result. You also receive a 24-month warranty on the entire remanufactured Schaeffler rolling bearing.

Lower costs

Remanufacturing is often cheaper than buying new and reduces the total cost of ownership. Bearings with a bore diameter from 300 mm can be tested and evaluated free of charge under certain conditions.

Faster availability

Remanufacturing takes just a few weeks and can often be done on short notice.



Proven quality

A remanufactured bearing meets the same requirements, norms, and standards as a new bearing, including a 24-month warranty on the entire remanufactured Schaeffler rolling bearing.

Improved sustainability

Extending operating life saves material and energy and can reduce CO₂ emissions by up to 95%.

CUSTOMER TESTIMONIAL

“We are very satisfied with the preparation of our bearings and the all-round service. Short delivery times, good quality, competent contact partners – everything just fits.”

— Pierre Sülberg, BILSTEIN GROUP
Group Leader Work Preparation Maintenance

Remanufacturing at Schaeffler

Schaeffler is known as a rolling bearing manufacturer, but our portfolio also includes solutions for the entire lifecycle of the bearing. Our Schaeffler Lifetime Solutions are seamlessly coordinated and help maximize the operating life of your bearings, prevent downtime, and keep your machines running.



During reconditioning, we draw on our experience and expertise in bearing production, applications, care, and maintenance. We also don't limit ourselves to Schaeffler rolling bearings and remanufacture your bearings regardless of manufacturer, across all sectors, and worldwide.

Rolling Bearing Reconditioning made easy

When it comes to rolling bearing reconditioning, we distinguish between refurbishment (minor reconditioning) and remanufacturing (major reconditioning).

Your advantage: We offer a free evaluation and inspection for rolling bearings with a bore diameter of 300 mm or more.* You also receive a 2-year warranty on all reconditioned Schaeffler rolling bearings. This means you benefit from tested quality and reliable performance.

Refurbishment (minor rework)	Remanufacturing (major rework)
• Dismount roller bearings* • Clean components* • Inspect and assess components* • Measure and polish components • Replace seals • Prepare assessment report • Mount rolling bearings • Grease rolling bearings (optional) • Apply preservative and pack rolling-bearing	Activities from Refurbishment plus: • Regrind functional surfaces • Replace components (e.g. rolling elements, cages) and • Replace roller bearing rings • Mount rolling bearings • Grease rolling bearings (optional) • Apply preservative and pack rolling bearing

*Free of charge if the customer subsequently orders reworking, only for bearings with bore diameters from 300 mm

BENEFIT THREEFOLD



up to 70 %
cost savings*



up to 25 %
cost savings*



max. 4 weeks
delivery time



12-16 weeks
delivery time



up to 95 %
CO₂ emission savings*



up to 65 %
CO₂ emission savings*



For more on reducing
CO₂ emissions ›

*Im Vergleich zum Neulager

Our promise: Fully functional bearings

If you choose Schaeffler Remanufacturing, you'll receive a fully functional bearing back for every bearing that you send to us for reconditioning.

There are two options:

With Model 1.0, you'll get your own bearings back in like-new condition. If reconditioning isn't possible, you'll receive a replacement for the defective bearings.
Your benefit: There's no need to stock replacement bearings.

With Model 2.0, we supply you with identical, already reconditioned bearings from a pool at the same time as your bearings are sent to us. A new warranty can be supplied for the bearings you receive. This significantly reduces your waiting period.



100 % RETURN CONCEPT

Other services

We offer more services in addition to general bearing remanufacturing.

Mating tapered roller bearings / manufacturing intermediate rings

The bearings are measured by trained specialists. The intermediate ring is then manufactured by Schaeffler to precise dimensions, and the bearings are matched. You benefit from fast availability and flexibility with regard to the inner diameter and the quantity that can be ordered.



Inserting a retaining slot

As part of our remanufacturing service, a retaining slot can be added to the outer or inner ring to prevent the ring from moving inadvertently during operation. Once again, our service scores points by making the desired bearing available faster.

Reworking the internal clearance

In addition to reconditioning, rolling bearings can also be modified. By reworking the internal clearance, the bearing is also suitable for other types of use or temperatures.

Coatings for protection and performance

Special coatings can prevent corrosion, reduce wear, or decrease friction and thereby contribute to higher energy efficiency of the bearing during operation. Schaeffler selects the most appropriate coating depending on the area of application and the requirements.

Long-term packaging

Long-term packaging is available on request instead of standard packaging. Special preservatives and desiccants that are modified for a variety of climate zones facilitate storage for several years.

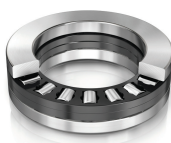


Changing the load zone of component bearings

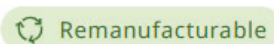
Component bearings are especially stressed in the load zone. As part of the reconditioning process, the load zone can be changed so you'll get the full benefit of the bearing's entire operating life.

These bearings can be remanufactured

Generally, rolling bearings with an inner diameter of 80 mm or more can be remanufactured. Bearings that have been remanufactured the maximum number of times, however, should be disposed of. How often a bearing can be reconditioned depends on factors like the load on the bearing in the respective application.

Spherical roller bearings, ID>80 	Cylindrical roller bearings, ID>100 	Double-row tapered roller bearings, ID>120 	Spherical plain bearings, ID>120 
Tapered roller bearings, ID>120 	Multi-row cylindrical roller bearings, ID>120 	Slewing rings, ID>180 	Axial spherical roller bearings, ID>360 
Crossed roller bearings, ID>420 	Ball bearings, ID>420 	Angular contact ball bearings, ID>460 	Four-point contact ball bearings, ID>460 
Bearings for screw drives, ID>460 	Deep groove ball bearings, ID>420 	Axial deep groove ball bearings, ID>400 	Axial cylindrical roller bearings, ID>80 

In addition to the roller bearings listed above, our [product shop](#) provides information on reconditioning options. This can be identified by the following label:



Special examples of bearing remanufacturing

Schaeffler offers remanufacturing services for more than just standard bearings. Reconditioning is often significantly cheaper, faster, and more sustainable, especially for bearings manufactured for a specific application, because production is complex and expensive and delivery can take longer.

TAROL units

TAROL units are used primarily as wheelset bearings in rail vehicles. Due to the harsh operating conditions, they suffer from corrosion, deposits, and wear. At Schaeffler, wheelset bearings are reconditioned in accordance with fixed cost rates and routines. Signs of surface wear are removed by polishing, and damaged components are disposed of and replaced at your request. The units are greased with a specified lubricant, assembled, and preserved and packaged based on your specifications. You'll benefit from established routines and receive your TAROL bearings back in full working order.

Tandem bearings for extruder screws

Tandem bearings consist of several axial cylindrical roller bearings arranged one behind the other that are custom-manufactured for each project. That's why remanufacturing them is usually the fastest and most economical alternative. During remanufacturing, the tolerances are precisely adhered to and the original production parameters are taken into account. We also ensure that the resilient system of precisely matched rings and washers is retained. This means that the bearings are optimally prepared for reuse.

YRTM axial-radial bearings

Precision bearings for combined loads have integrated measuring systems that include a hard magnetic layer that has to be protected from mechanical damage. To ensure safe dismounting and transportation, a protective tape needs to be applied to the dimensioning scale and the bearing must be shipped in special packaging: Schaeffler can manage both on request.

Assemblies

In the case of complex assemblies, we also prepare all components in addition to the bearings.

For example, in the case of multi-roll mills, we accept the fully assembled back-up rolls and return them overhauled and assembled in a very short time.



Combined axial-radial
super precision bearings

Examples of use and applications

What we offer rail operators

For wheelset bearings, which are often used in rail vehicles, the achievable mileage is limited by the lubricant's operating life. This requires regularly scheduled maintenance during which the bearings are replaced. However, instead of replacing the entire bearing, remanufacturing services can be performed as part of scheduled maintenance and the bearings can be relubricated.

Schaeffler has modified the process to meet the needs of rail operators. The reconditioning of bearings already in use is performed quickly, safely, and reliably. For an even shorter vehicle

downtime, operators can receive identical reconditioned bearings from a pool at the same time as their bearings are shipped, and these bearings can be installed immediately. This corresponds to Model 2.0 of our 100% Return Concept. Thanks to the data matrix code (DMC) on the bearings, you can easily and digitally track how often a bearing has been remanufactured and any damage detected in the process. If a bearing doesn't have a DMC, it can be retrofitted as part of the remanufacturing process.

CUSTOMER APPLICATIONS



Example: Rail

Swiss Federal Railways has worked with Schaeffler to digitalize the maintenance of its bearings with the help of the DMC. This has accelerated processes and made it easier to detect disproportionate wear. More than 2,500 bearings have already been reconditioned in accordance with Model 1.0 of the 100% Return Concept and over 500 metric tons of CO₂ have been saved in the process.



› Read the full success story



Example: Metal industry

Schaeffler reconditioned damaged spherical roller bearings in the continuous casting machines at a Belgian stainless steel plant. Slightly damaged bearings were serviced, while more heavily used bearings were repaired. The bearings were quickly back in service, and the customer saved approximately 50% of the costs that would have been incurred for the production of new bearings.



› Read the full success story



Example: Offshore

To maximize the service life of the heavily used spherical bearings in the lifting beams of the Pioneering Spirit and to ensure rapid availability, Allseas decided to have them remanufactured. This not only allowed Allseas to fully utilize the service life of the bearings, but also to have them available again quickly.



› Read the full success story

Closing remarks



Remanufacturing or new?

In a nutshell, remanufacturing offers numerous benefits compared to new bearing products. First and most important is the cost savings: remanufacturing rolling bearings is usually significantly more economical than manufacturing new bearing components, without compromising on quality or reliability. Customers also benefit from short delivery times, as existing components can be made available more quickly.

Remanufacturing also offers the added benefit of a warranty. Schaeffler provides a warranty for remanufactured products that is comparable to that for new products, which creates additional trust and security.

Last but not least, sustainability is a decisive advantage. Reusing existing components conserves resources, reduces waste, and lowers the ecological footprint. This approach is in line with the principle of the circular economy and is an

important step toward more environmentally friendly production.

Nevertheless, there are also good reasons for purchasing new bearings.

For example, when the latest technologies are required or special demands are placed on the parts. Therefore, both approaches are sensible options that should be considered individually depending on the application.

Overall, however, it is clear that remanufacturing can make an important contribution to sustainable business practices while also offering economic advantages, without having to compromise on quality or reliability.

CUSTOMER TESTIMONIAL

“The Schaeffler Remanufacturing Team impressed us not only with its precision and expertise, but also with its open and supportive approach—far beyond the actual remanufacturing order.”

—— Allseas

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Certified Schaeffler Partner



Die Messfeld GmbH in Klagenfurt ist offizieller Schaeffler-Partner für Remanufacturing. Gemeinsam bieten wir die professionelle Aufbereitung von Wälzlagern an. Dadurch lassen sich Kosten, Lieferzeiten und CO₂-Emissionen reduzieren sowie die Lebensdauer hochwertiger Lager deutlich verlängern. Remanufacturing ist eine nachhaltige und wirtschaftliche Alternative zum Neukauf.

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