

# **REBUILD PERFORMANCE RETHINK SUSTAINABILITY**

SKF Industrial bearing remanufacturing

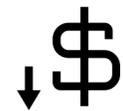




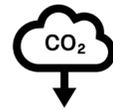
# Go further with what you already have

Be sustainable and shorten lead times. Remanufacturing restores the full useful life of your old bearings. It costs less, minimizes lead times and reduces your carbon footprint compared to buying new bearings. You get reliable remanufactured bearings according to SKF standards, documented CO<sub>2</sub> emissions reduction, and SKF Warranty with the same duration as for new bearings.

## Reduce:



Costs



CO<sub>2</sub> emissions



Lead times



# Who doesn't want to reduce costs?

Operation and maintenance costs. That's top of mind for most of our customers. But with the help of remanufactured bearings, you can save up to 75% on costs compared to a new bearing. How large depends on bearing size, complexity, bearing condition, and price.

It's clear, though that with remanufactured bearings, you can:

- reduce total cost of ownership
- extend bearing service life
- reduce machine downtime
- maintain stock value of spare bearings
- improve overall asset reliability

*"In SSAB we use remanufactured bearings in our steel machinery - reducing maintenance, energy, waste and cost."*

SSAB, Raahé Finland

*"Being able to remanufacture our sealed spherical roller bearings has made a huge impact on our business savings. A perfect match for our environmental ambitions."*

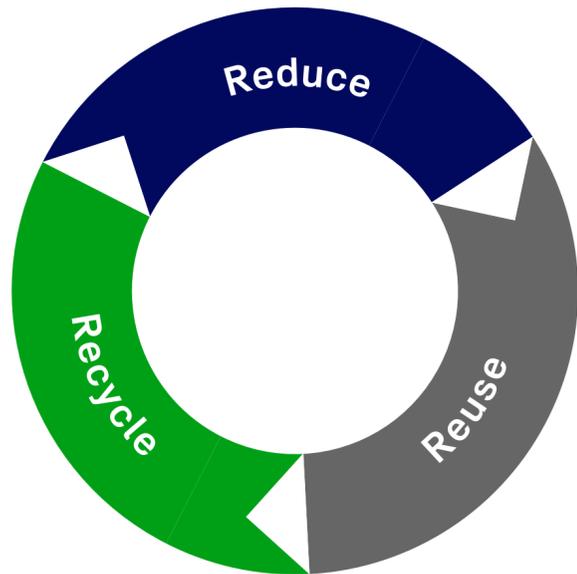
Mining customer, South America

*"Remanufacturing is more cost-effective than buying a new bearing, and SKF also calculates the carbon emission savings from remanufacturing, which our procurement and sustainability teams highly value."*

Zdenek Pedhorský, head of mechanical maintenance at the Mondi Stěti mill



# Break the line, go circular



Remanufacturing lets you take a step away from the traditional linear economy, where new resources are used to make products that are used once and then discarded or recycled. Instead, you join the circular SKF way: rebuilding a product to its original specifications using reused, repaired, and new parts. A way to use less new material, reuse old parts and recycle scrap material.

Remanufacturing means significant savings for the environment. Depending on the amount of remanufacturing required, a remanufactured bearing reduces the carbon footprint by up to 90% compared to a new one. Remanufacturing also consumes up to 90% less energy.

As part of the process, SKF uses environmentally responsible cleaning methods and ensures waste is handled and disposed of properly.

**Reduces the  
carbon footprint  
by up to**

**90%**

**compared to a new one.**

**We get**

**=**

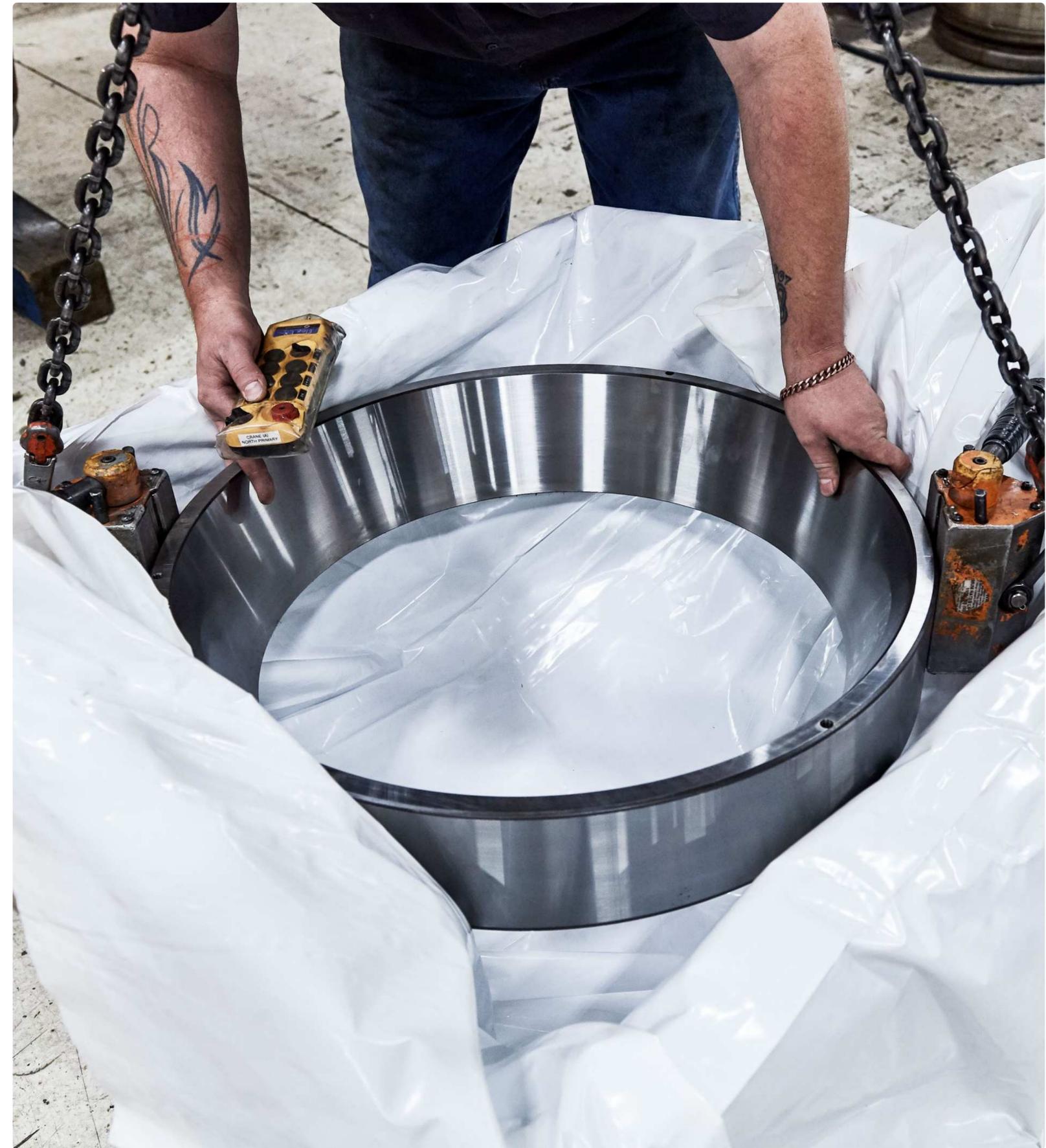
**You receive**



**SKF**

# Short lead times for fast repairs

The quickest way to replace a used or damaged bearing is often to remanufacture it, especially for bearings that are not in stock. The remanufacturing process is faster than the manufacturing process for new products and ensures the same quality.



Two real-life remanufacturing examples

# On the hunt to reduce every source of CO<sub>2</sub> emissions

In one large European company, maintenance personnel replace about 2 000 bearings each year. But since half of the replacements are remanufactured bearings instead of new ones, the plant prevents 30 tonnes of CO<sub>2</sub> emissions yearly – a step towards their challenging goal of reducing CO<sub>2</sub> emissions by a third.

Annual circular economy contributions:



10 tonnes of steel reused



62 000 kWh energy use avoided



Almost 30 tonnes of CO<sub>2</sub> emissions avoided



Two real-life remanufacturing examples

# Lower carbon footprint, shorter time, less money

One of our customers decided to let SKF remanufacture their existing bearings instead of ordering new ones for a broken-down critical piece of equipment. The bearings were sent to SKF for remanufacturing and returned in like-new condition but at a significantly lower cost than new ones and with a considerably lower carbon footprint.

Circular economy contributions:



Almost 4 tonnes of steel reused



More than 20 000 kWh energy use avoided



More than 10 tonnes of CO<sub>2</sub> emissions avoided



Click here to find out more.

# Remanufacturing is almost always the answer

Most types of bearings, housings, and units can be remanufactured. Here are just a few examples.

**We support customers in multiple industries, including:**

- Metal
- Pulp & Paper
- Energy
- Mining
- Marine
- Cement
- Food & beverage



Open spherical roller bearing



Sealed spherical roller bearing



Spherical roller thrust bearing



CARB toroidal roller bearing



Split spherical roller bearing Cooper



Railway bearing units



Tapered roller bearing



Deep groove ball bearing



Application specific bearing



Cylindrical roller bearing



Slewing bearings



Housings

# How we remanufacture bearings

**Wear, corrosion, indentations, microcracks. Certain application conditions – like contamination or sporadic metal-to-metal contact in the rolling contact zone – can cause all sorts of damage to your bearings.**

**A thorough analysis followed by appropriate remanufacturing steps restores them to their original performance level, with SKF-guaranteed quality.**

## **Meeting SKF standards**

SKF's experienced bearing analysts evaluate your bearing and define which remanufacturing process will be the most efficient for restoring your bearing to be compatible with the application requirements. Through SKF's remanufacturing operations, relevant functional surfaces are remanufactured, including, if necessary, the replacement of bearing components.

As the basis for our bearing remanufacturing, we use the same standards, dedicated processes, special equipment, quality assurance, knowledge, and competence as when we manufacture new bearings. This includes acceptance criteria that deliver high-quality results, even when extensive remanufacturing is needed.

## **Full traceability**

To provide full traceability, SKF uses an advanced management system. By uniquely marking each asset during the remanufacturing process, you will be able to trace your bearing through its future life cycle.

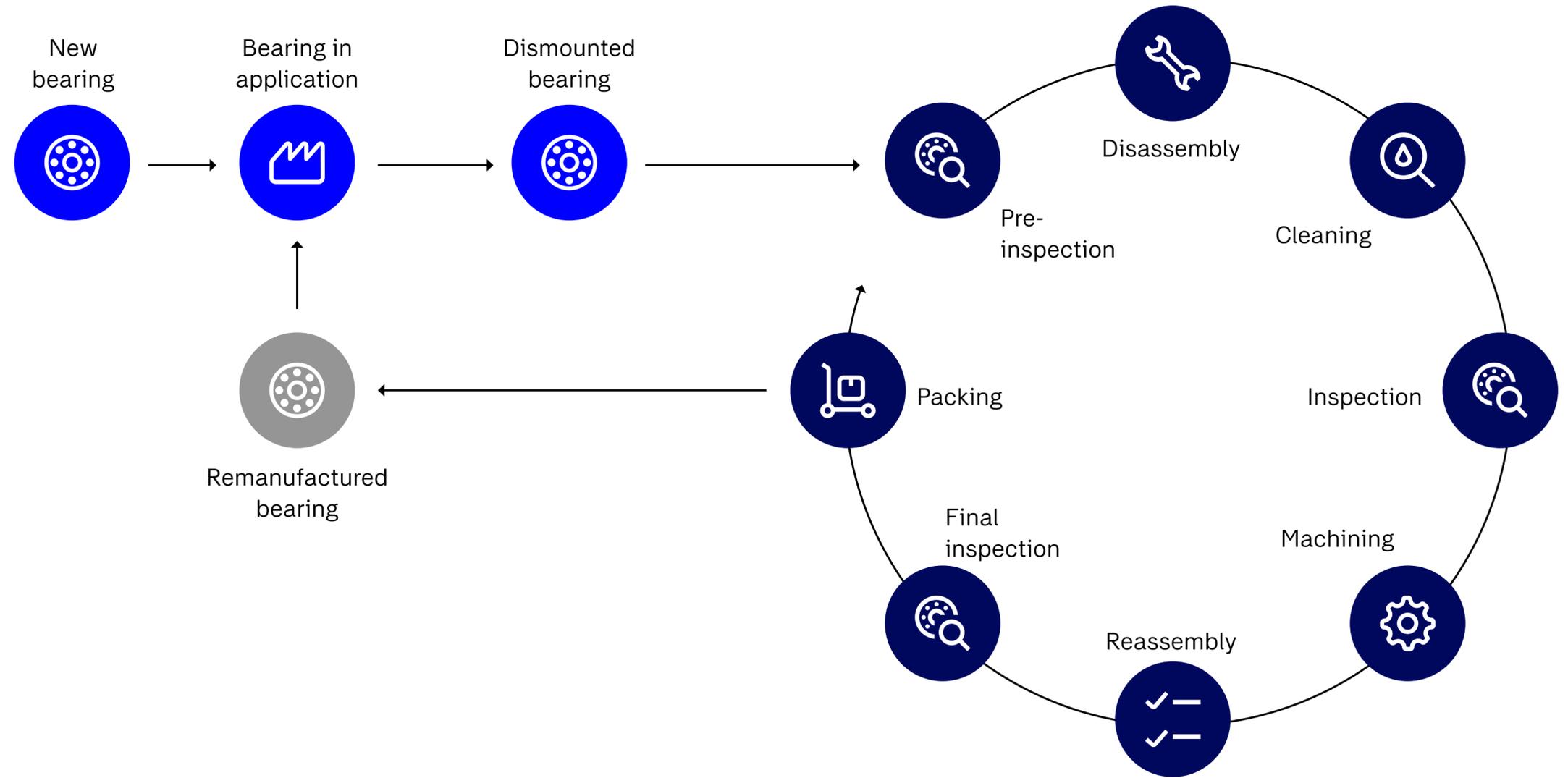
## **Tailored to your needs**

In addition to standard remanufacturing, we can also remanufacture your bearings to a new or higher specification, as well as application-specific requirements. This can include enhancements of the original product such as adding special coatings, improved sealing solutions or lubrication, remanufacturing to other specifications. We even remanufacture non-SKF bearings.

You decide what level of remanufacturing you want, depending on the needs of your application.



# The precision process that brings bearings back to life



# When to take out a bearing for remanufacturing

The correct timing for bearing removal and remanufacturing is essential to achieve the optimum balance of long service life and low operating costs.

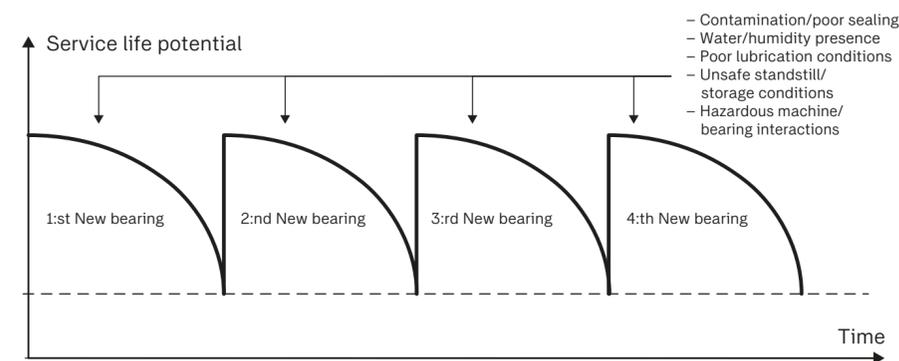
**Predictive maintenance helps you find the sweet spot**  
 The full benefits of using remanufactured bearings come when you also use SKF Predictive Maintenance to ensure that you always know the status of your plant machinery.

In addition, SKF's root cause failure analysis (RCFA) service can deliver a set of causes and effects, plus a comprehensive plan of corrective actions to prevent the recurrence of damages.

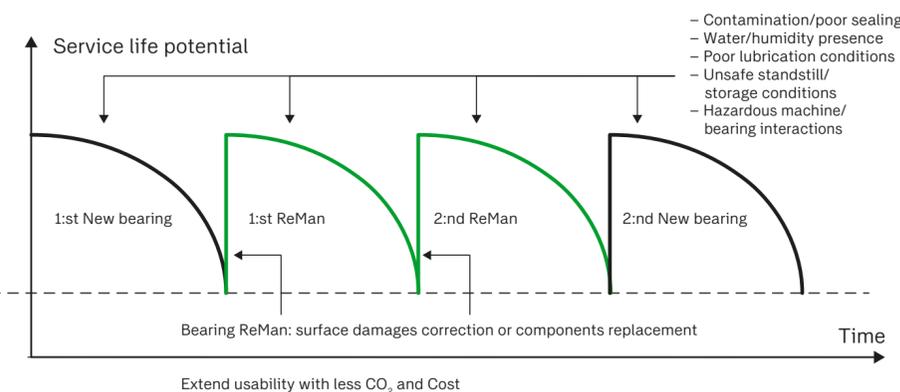
With remanufacturing, the service life of bearings can be extended, restoring the full useful life of the product, as illustrated in the diagram.

## Remanufacturing restores the full useful life of the product

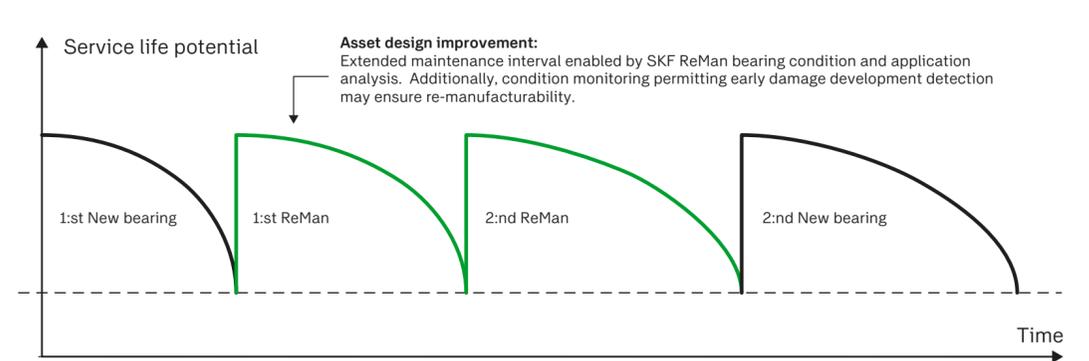
### Why we change bearings?



### Why not a more sustainable and cost-effective model?



### Why not an optimized maintenance model?

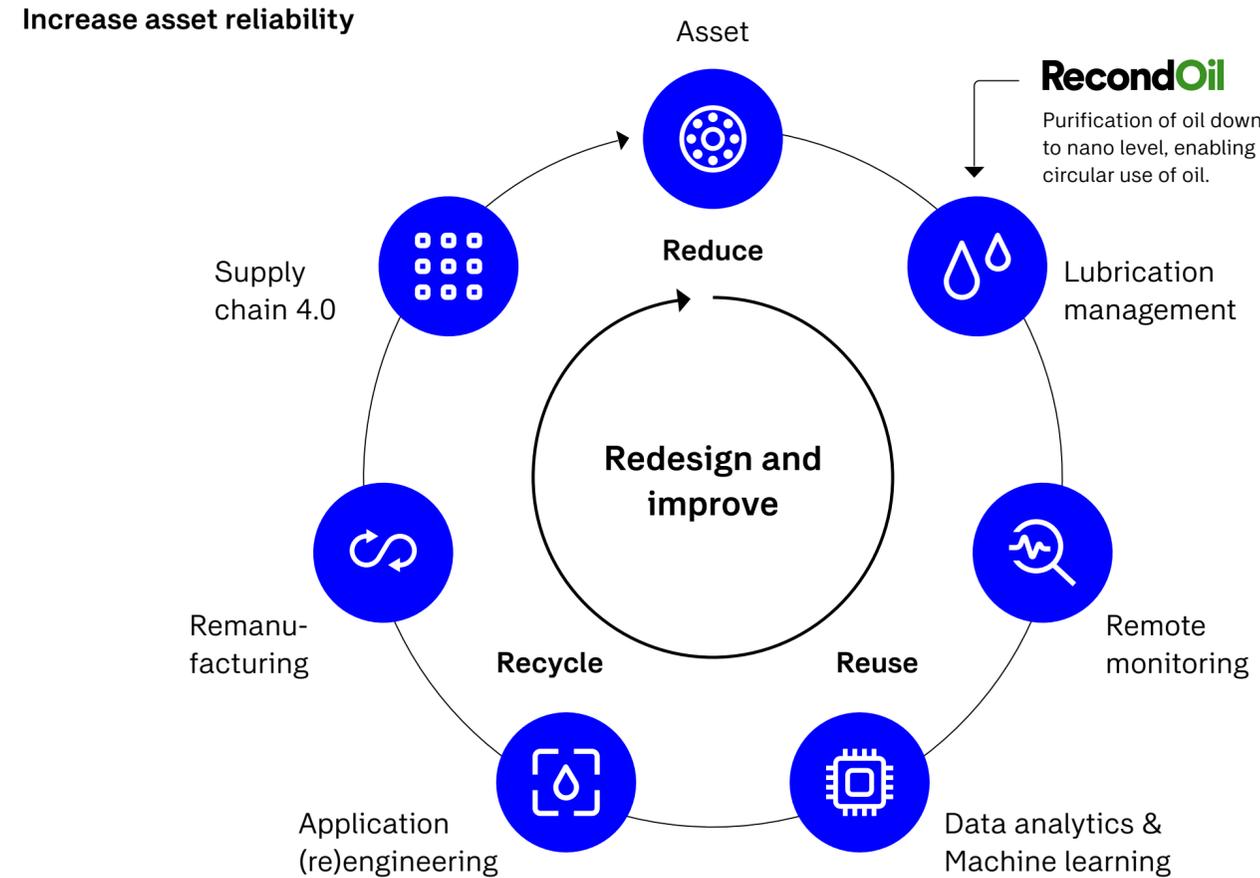


# Reliability to build your operations on

With SKF, you can combine world-class bearing technology, condition monitoring, and remanufacturing into one integrated package, giving you greater control over reliability, maintenance, and performance.

By improving the predictability of your equipment, you can reduce unplanned downtime, extend maintenance intervals, and lower the total cost of ownership. You make better use of your inventory, extend the life of critical assets, and create the conditions for smarter, more sustainable operations.

SKF brings over a century of experience in rotating equipment and a deep understanding of how components, systems, and industrial processes work together. That knowledge, combined with technologies like root cause failure analysis, predictive



maintenance, and advanced remanufacturing, enables you to move from reactive to proactive — and act before failure happens.

Whether your goal is to increase availability, optimize maintenance resources, or meet strict KPIs, SKF can deliver the insights, tools, and support you need.

Our technologies and services are available through flexible setups that fit your business and operational goals. Whatever the challenge, SKF helps you build reliability into the core of your operations for consistent performance and long-term success.

# A global network with more than 25 years of experience



**The SKF remanufacturing network combines the agility of a small service company with the expertise, resources, and reliability of an industry leader.**

You can find SKF Circular solution centres in most parts of the world, and our network is continuously expanding with new centres.

We operate as a global network and apply common processes, standards, and technology and share knowledge and capability development. All our teams are dedicated, highly specialized, and competent.

**[www.skf.com/remanufacturing](http://www.skf.com/remanufacturing)**



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