

We pioneer motion

Cost-effective. Efficient. Ecological.

Railway Bearing Reconditioning and Digitalization





RECONDITIONING OF ROLLING BEARINGS WORLDWIDE FOR THE LAST 20 YEARS

Are you using your railway bearings to their full performance capacity?

Are you yet to opt for reconditioned bearings in the maintenance of your rail vehicles? Reconditioned bearings demonstrate the same reliability, in every respect, as new bearings. Guaranteed. This is due, in part, to the fact that railway bearings are always designed with a very high safety reserve. In contrast to other rolling bearings, railway bearings do not normally fail as a result of fatigue or wear but reach their lubricant life limit much sooner than conventional bearings, which requires the lubricant to be replaced after a specified mileage. Under favorable operating conditions, railway bearings can achieve a multiple of their basic rating life. Depending on the application, these rolling bearings can be reconditioned three to five times, without any detrimental effect on operational safety.

Your online access to our offer

Contact us: rail_transport@schaeffler.com

Further information: www.medias.schaeffler.de/en/rail

▶ To learn more, watch our video [“Reconditioning of railway bearings”](#)



Improve your carbon-footprint! Achieve a CO₂ reduction of 133 tons with just one train!

A reduction in CO₂ emissions of around 96 % can be achieved by reconditioning railway bearings over new rolling bearing production.

More specifically, this means that for a freight train comprising 80 coaches and two locomotives, i.e. 1296 axlebox bearings in total, the resulting saving amounts to 133 tons of CO₂, 481 MWh of energy and 1767 m³ of water.

Surely a saving which is not to be missed?

1767 m³ of water

481 MWh of energy

133 t of CO₂

Savings achieved in the reconditioning of railway bearings for

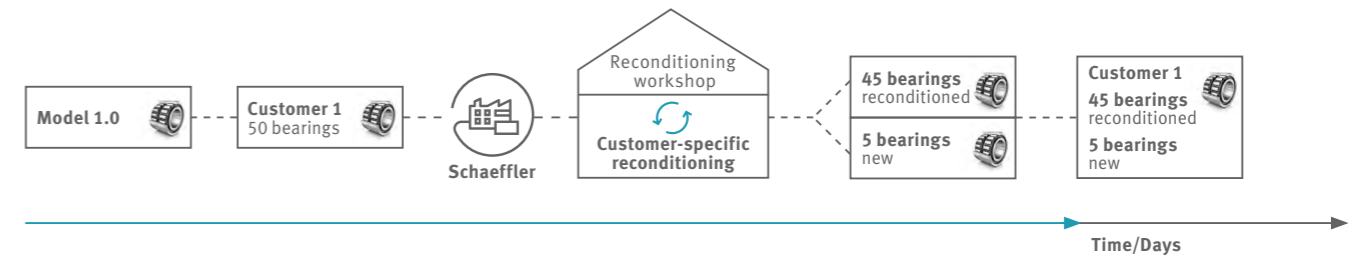
2 locomotives (each with 8 rail bearings) = 16 bearings
80 coaches (each with 16 rail bearings) = 1280 bearings

Recondition in-house or outsource? Wait or fit immediately?

Place the reconditioning of your railway bearings in the reliable hands of our specialists, who possess the expertise and the production capacity of a rolling bearing manufacturer. And why not go one step further and opt for our 100 % return service package for axlebox bearings? Choose from one of the following two models:

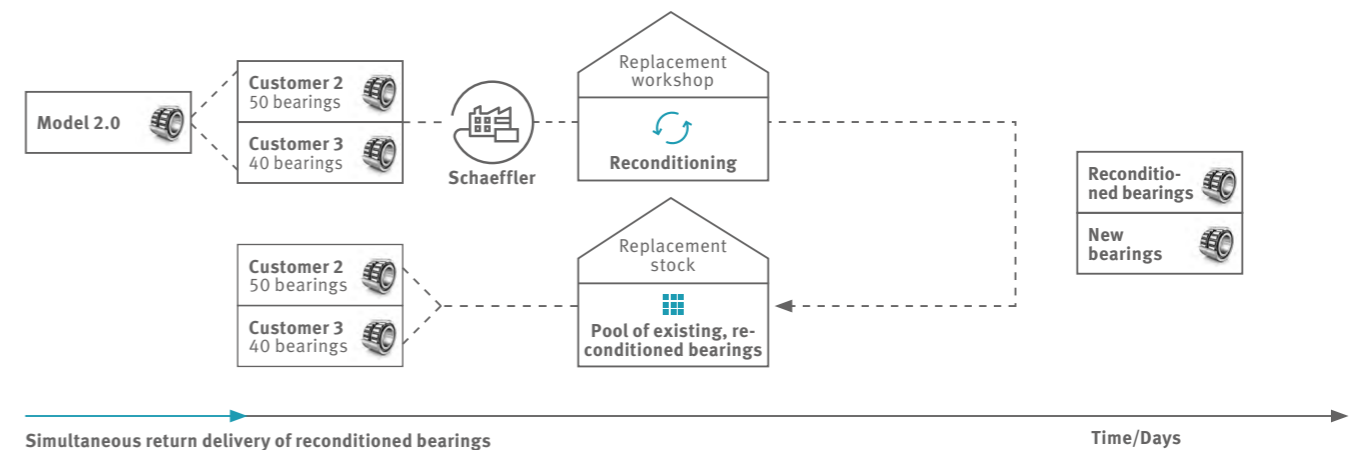
Model 1.0

With Model 1.0, you send your railway bearings to us and receive your bearings back after reconditioning. We automatically replace any defective bearings with new ones. As a result, you do not need to have replacement bearings in stock.



Model 2.0

You register your railway bearings with us for reconditioning. We will immediately send you the same number of reconditioned or new bearings from a rolling bearing pool. There are no waiting times for processing and you shorten the downtimes of your vehicles drastically. But best of all: You receive a warranty on all rolling bearings as with new bearings.



▶ To learn more, watch our video [“Schaeffler’s 100 % return models”](#)

Digital documentation: Scan, easy, fast and error-free.

The inclusion of our Data Matrix Code (DMC) on a railway bearing lays the foundation for its digital twin. The code includes the component designation to GS1 standard and a serialized part number. Operators, employees involved in reconditioning, and Schaeffler use the DMC to record all relevant data and to exchange this information, error-free, in accordance with the EPCIS standard. With just one scan of the code, all parties have full visibility of the order status as well as complete access to information on the reconditioning process and on the life cycle of each individual bearing.

In this way, your documentation requirement does not become a burden, but is the starting point for your digitized maintenance with minimal maintenance times for your fleet.

▶ To learn more, watch our video [“Why do you need a DMC on railway bearings”](#)

A visual representation of the digital twin.

Discover for yourself just how easy our DMC is to use:

1. Scan the QR code using your smartphone.
2. Start the camera [📷].
3. Scan the sample DMC code in the image below.
4. View the information on the data linked to the DMC code.



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