

Wear sleeves

Wear sleeves – general

To seal efficiently, radial shaft seals must run against a smooth, round counterface. If the counterface becomes worn, the seals will no longer be able to fulfil their function, which is to retain lubricant and exclude contaminants.

Typically, the counterface becomes scored when a contaminant particle is caught under the sealing lip and abrades a track as the shaft rotates. As this continues, the seal will enable more particles to pass or get stuck, and seal efficiency deteriorates, eventually leading to malfunction of the component that the seal is meant to protect. To rectify the situation, it is necessary to repair the shaft surface since a seal replacement will not be sufficient. To repair the shaft, it is usually necessary to disassemble the machine in order to either replace the shaft or grind down the counterface until it is again within specification.

To overcome the problem of preparing the seal counterface to specification, without costly shaft treatments (machining, hardening and plunge grinding) and disassembly in case of worn shaft repair jobs, SKF has developed two kinds of sleeve: the SKF Speedi-Sleeve and LDSLV wear sleeves for heavy industrial applications.

The SKF Speedi-Sleeve is available for shaft diameters up to 203,33 mm (8 in) and when combined with an SKF radial shaft seal, will deliver a more consistent and durable sealing system.

For shaft diameters ranging from 211,15 to 1 143 mm (8.313 to 45 in), SKF's LDSLV4 design is recommended. They are made of SAE 1008 chromium-plated carbon steel to enhance wear and corrosion resistance (see **page 262** for more information).

Fig. 1

SKF Speedi-Sleeve

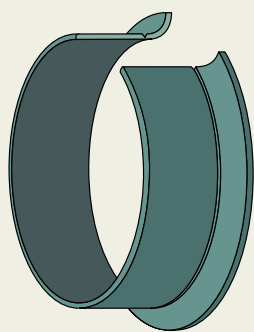


Fig. 2

LDSLV4 wear sleeve

