SKF Speedi-Sleeve and SKF shaft seals:

The perfect system for protecting your machine

50% of bearing failures are connected to sealing conditions. The seal is the critical element in the system that ensures that the unit is optimally lubricated and prevents contamination from outside.

A shaft in poor condition is the first symptom of damage that can end up being very costly.

Do you want to avoid unpleasant surprises?
Find out how.

SKF Speedi-Sleeve

Repair your worn-out shaft in 30 minutes

Quick, easy and with proven effectiveness. Normally, the contact surface of a seal becomes scratched when a contaminant particle is trapped under the lip, creating a groove through erosion as the shaft rotates. To fix this situation, the surface of the shaft needs to be repaired; simply replacing the seal is not enough.

Removing the shaft from the machine also means removing other high-cost components, such as bearings and gears, as well as lubricants. Once the shaft has been removed and sent away for repair, the machine can no longer be used in production, leading to costly unanticipated down time.

Using SKF Speedi-Sleeves does not require machining of any kind. The sleeve is simply placed in position over the worn-out area of the shaft, creating an excellent sealing surface for the sealing lip in minutes.

Range of sizes

The standard range of sizes consists of stainless steel sleeves for shafts with diameters from 12 to 203 mm *(0.472 to 8 in.)*, with a superfine wall thickness of just 0,28 mm *(0.011 in.)*, allowing the seal to retain its original dimensions.

The new generation of SKF Speedi-Sleeve wear sleeves is available in two versions: the standard version for general use, and the SKF Speedi-Sleeve Gold version, which has a fine gold -coloured metallic coating for use in highly abrasive conditions.

- No need to take apart the shaft or to machine it again.
- Reduces maintenance and repair costs.
- Fixes problems in minutes and reduces environmental impact.
- Allows manufacturers of machinery to avoid costly superficial and finishing treatments on the shaft.

SKF radial shaft seals

The performance of the bearings depends to a large extent on the sealing system's capacity to retain lubricant and prevent contaminants from getting in. Seals are often expected to meet these demands while operating in difficult environments, undergoing considerable thermal expansion, and experiencing dynamic loads and misalignments.

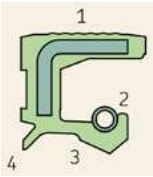
The SKF HMS5 and HMSA 10 radial shaft seals, with their beaded outside diameter, are designed for optimum performance in these types of operating conditions.

Material

- Excellent compatibility with synthetic oils.
- Increased pumping ability.
- Improved resistance to wear and ageing.

Design

- Beaded outside diameter for better sealing and retention in the housing (1).
- Improved spring-loaded sealing lip design (2).
- Optimal balance sealing lip and flex section (3).
- Auxiliary lip, for HMSA10 only (4).



Designation system

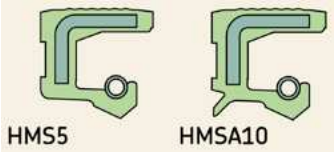
The designations for the HMS5 (single lip) and HMSA10 (with auxiliary lip) seals are identified by the diameter of the shaft, the diameter of the housing bore, the nominal width of the seal, and the design code for the sealing lip material.

Example: 45X62X10 HMS5 RG

RG: Nitrile rubber

V: Fluororubber

Materials RG and V are available for both the HMS5 and the HMSA10 design.



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