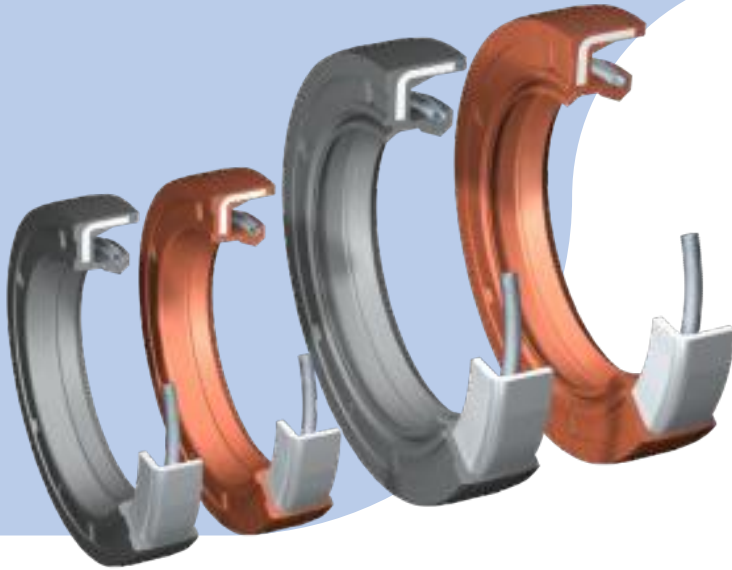


# Why SKF?

## Radial shaft seals HMS5 and HMSA10



Bearing performance relies largely on the ability of the sealing system to retain lubricant and prevent aggressive contaminants from entering. Often the seals are expected to fulfill these tasks while withstanding tough operating conditions, including considerable thermal expansion, high dynamic runout and shaft-to-bore misalignment.

The metric SKF rubber outside diameter radial shaft seals, HMS5 and HMSA10, are designed to provide optimized performance under such operating conditions. Designed in accordance with ISO 6194 and DIN 3760, they can be used in a wide range of applications within all industrial areas.

### Common applications

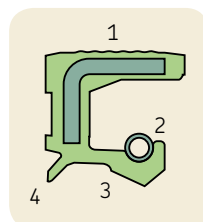
- Gearboxes
- Pumps
- Axles

### Features – material

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

### Features – design

- Beaded outside diameter (1)
- Spring-loaded sealing lip (2)
- Optimally balanced sealing lip and flex section (3)
- Auxiliary lip, HMSA10 seals only (4)



### User benefits

#### Operation

- Improved sealing performance
- Extended system service life
- Withstands considerable dynamic runout and shaft-to-bore misalignment
- Easy installation, reduced risk of spring-back
- Additional exclusion ability without significantly increased torque and underlip temperature (HMSA10 seals)
- SKF technical support for bearings, seals and lubricants

#### Purchasing

- Single source for bearings and seals
- Reduced overall indirect costs thanks to
  - fewer purchase orders
  - facilitated logistics
- Easy to order – clear designation system
- Good availability

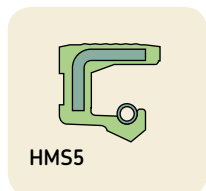
#### Storage

- Easy to store and handle – single-package
- Packaging prevents seal contamination during storage and handling
- Fast retrieval – identification on package



## High-performing, simple to order and easy to handle

The HMS5 and HMSA10 seals are designed and developed to provide a high-performing and efficient sealing solution, offering a wide range of user benefits from operation, purchasing and storage perspectives.



### Size range

The available size range covers ISO and DIN dimensions up to 250 mm shaft diameter as well as an extensive range of dimensions commonly used in the market. New sizes are continuously added. Please contact your SKF sales representative for updated availability information.

### Single-packages

The HMS5 and HMSA10 seals are supplied in special single-packages, providing several important advantages:

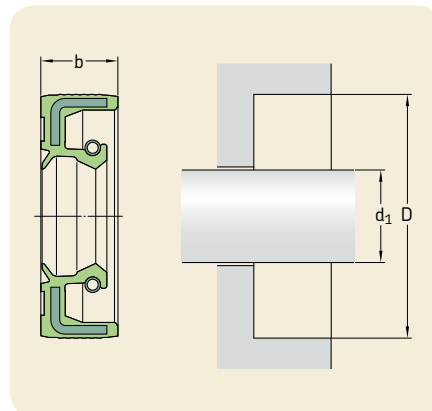
- Plastic blister pack prevents contamination
- Bar coding enables quick and easy identification and registration
- Clear description helps with identification
- Transparent plastic – no need to open until seal installation

### Clear designation system

The designations of HMS5 and HMSA10 seals consist of the shaft diameter ( $d_1$ ), housing bore diameter ( $D$ ), nominal seal width ( $b$ ), design and sealing lip material code:

Example: 45x62x10 HMS5 RG

The nitrile rubber compound used for the HMS5 and HMSA10 seals has the designation suffix RG. On request, the seals are also available in a fluoro rubber compound with the suffix V.



An SKF Documented Solution specialist can calculate for you the approximate return on investment (ROI) you can expect to receive by using this product in your application. Ask your SKF Authorized Distributor or SKF representative for more details.

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