

Why SKF?

SONL housings for oil lubrication



SKF SONL housings have a stiff and robust design and are accurately machined to protect and support the SKF bearings fitted in them. Combining minimal deflection under load with good lubricant retention and high resistance to the ingress of contaminants, these housings optimize the performance and extend the service life of the bearing and lubricant. A deep sump and internal oil circulating system enable very high bearing speeds without excessive operating temperature. SONL bearing housings are available for shafts diameters ranging from 75 to 240 mm and 2.15/16 to 8.15/16 in. SONL supersedes SOFN housings in the 2(00) and 5(00) series (222 series bearings). SOFN housings are still available for 3(00) and 6(00) series (223 series bearings).

Product features

- Standard housings have a deep sump and an internal oil circulation system that uses an oil pick-up ring
- Possible to use with an external circulating oil system
- Stiff and robust design made of high grade grey cast iron
- Machined to tight tolerances
- Marks on the base indicate the centre of the bearing seat to facilitate accurate alignment when mounting
- Identification marks on caps and bases help to provide mismatches during assembly
- Possible to provide additional cooling as water can be circulated through cooling tubes that can be fitted in the sump of oil bath applications
- Housing designed for good heat dissipation
- Drilled and tapped hole (M 8) for condition monitoring as standard
- Comprehensive seal kit
- Dimples indicate positions for dowel pins if required
- Optimized for SKF bearings

User benefits

- Standard internal oil circulation system allows high speed bearing operation without external oil circulation or cooling
- An external circulating oil system permits very high bearing speed without excessive operating temperature
- Low maintenance costs
- Optimizes the performance and extends the service life of the bearing and lubricant
- Virtually eliminates any distortion of the base and bearing seat when tightening the attachment bolts
- Simplified mounting and alignment of housing
- Reduced risk of mixing caps and bases during mounting
- Additional cooling possible with oil pick-up ring lubrication by adding cooling tubes
- Good heat dissipation reduces operating temperatures
- Simple mounting with fewer components than earlier SOFN housings
- Seal kit supplied with an oil level gauge to visually check the level and condition of the oil
- Easy and quick to locate positions for condition monitoring sensors and dowel pins if required
- Possible to purchase all items from one supplier

Common applications

- Fans
- Flywheels
- Paper machines
- Emergency power generators



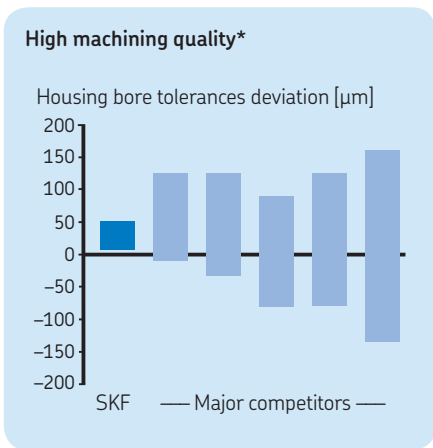
Industry leading performance

High machining quality

Tight manufacturing housing bore tolerances reduce operating temperatures to extend the service life of the bearing and lubricant.

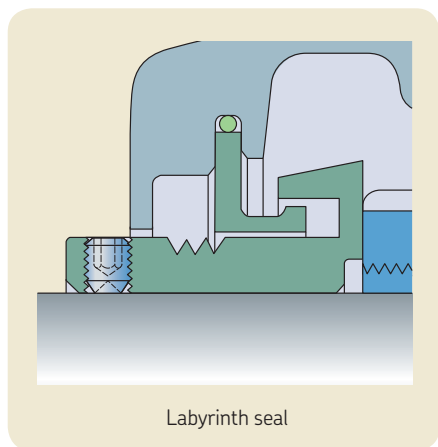
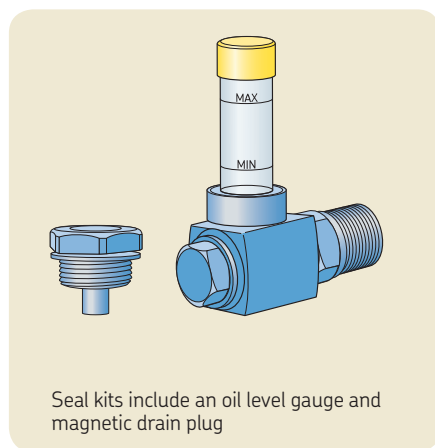
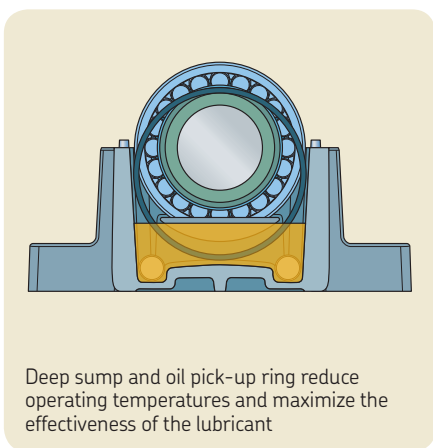
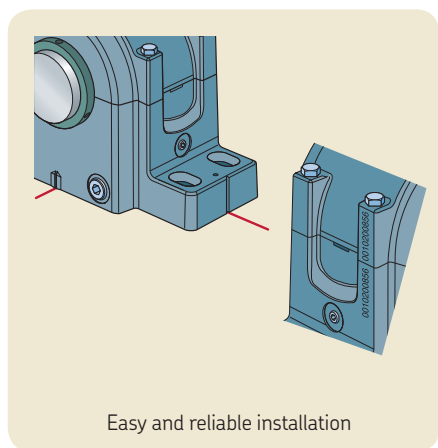
High strength material

High grade cast iron accommodates heavy loads. Spheroidal graphite cast iron housings are an option for applications where there are shock loads.



* Competitor comparisons are based on measurements taken in SKF laboratories.

Housing designed for easier installation and maintenance and to enable high-speed bearing operation

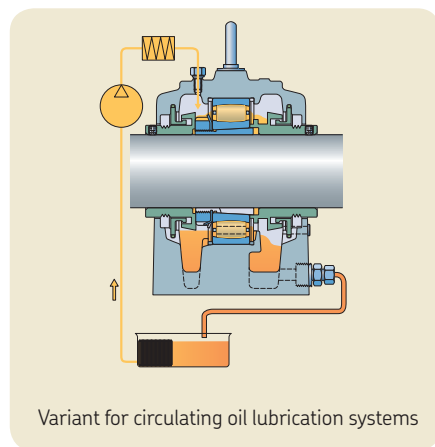


Sealing solution

SONL housings are equipped with non-contact labyrinth seals. The seals are supplied as kits, one for use with bearings mounted on an adapter sleeve (TSO 5..) and one for use with bearings directly mounted to the shaft (TSO 2..).

Variant for circulating oil lubrication systems

Where spherical roller bearings are used SKF standard SONL housings are suitable for oil circulation lubrication systems. However where CARB toroidal roller bearings or self-aligning ball bearings are used, SONL housings with an RA suffix must be specified to provide oil delivery to the side of the bearing at a slightly higher oil level.



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