





Linear ball bearings, housings and units.









SKF

SKF shaft guidings

SKF linear ball bearings, housings, units and accessories are mechanical components with which it is possible to construct economic linear guides, of particularly simple design, for a wide variety of applications.

The SKF linear bearing series offer distinct advantages over competitor solutions currently available in the market.

SKF expertise keeps the world in motion.

Wide range of applications

Many manufacturers of packaging machines, automatic handling systems, paper processing machines, printing presses, medical technology and machinery for the food industry have already specified SKF linear ball bearings. As far as compliance with standards is concerned, tests have shown that these bearings by far exceed the service life required by DIN.

The industrial trend is moving towards a new focus: microsystems technology, mechatronics and nanotechnology.

The LBB range fully fits with this trend, designed to be more compact and featuring many new characteristics.

Design improvements, the use of high-performance materials and new manufacturing methods allow them to meet their objectives.

Strong advantages

It therefore comes as no surprise that SKF linear ball bearings are often considered as a benchmark in the market of linear guidance systems. In particular with regards to technology, quality, range of products, reliability, service life, cost-effectiveness, consulting and service – they optimize the users solutions.

Their winning features include excellent running performance, high guiding accuracy, high load ratings and reduced noise development in dynamic applications; they are available in corrosion-resistant models, with misalignment compensation, lifetime lubrication (one- or two-sided double lipped seals) and with the possibility of further greasing (for use in unfavourable conditions); they offer excellent sealing against dirt and they are fully interchangeable with other SKF products and also with competitors' products.



The SKF offer doesn't stop here

Thanks to the integration of bearings and housings, a comprehensive range of cost effective, space-saving linear bearing units has become available.

In addition to the basic design with one bearing, flanged units can be supplied as well as duo, tandem and quadro units, both in closed or open versions.

In order to keep inertia to a minimum, housings are made of cast or extruded light aluminium alloy. When fitted with the appropriate bearing, they are also the right solution for applications where corrosion resistance is needed.

A wide range of precision shafts, supports and shaft blocks complete the SKF offer; the units can be used to make compact, simple table configurations and the systems are available in the length required by the customer.

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Product values

LBB compact series

Features	Benefits
- Hardened steel raceways	- High load bearing capacity
- Plastic cage	- Smooth ball recirculation
- No resulting cage loads	- High running quality
- Double-lip seal available (➔ **Fig 1**)	- High level of protection against contamination
- Improved seal design available	- Long service life
- Corrosion resistant version available	- Ideal choice for food industry and medical engineering applications
- Downsized to 3 mm shaft diameter	- Ready for miniaturized design



LBC standard series

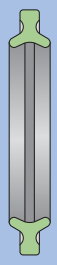
Features	Benefits
- Corrosion resistant raceway inserts with integral ball recirculation made from injection-moulded plastic (➔ **Fig 3**)	- Lower weight enables higher accelerations - Distinct noise reduction
- Optimised raceway geometry	- Life expectancy exceed DIN 636
- More even load distribution on the cage	- Improved running behaviour
- Double-lip seal with improved seal design available (➔ **Fig 1**)	- High level of protection against contamination
- Self aligning version available (➔ **Fig 2**)	- Compensation of shaft misalignment - Shaft bending effect can be ruled out
- Corrosion resistant version	- Ideal choice for food industry and medical engineering applications
- Prelubricated fully sealed solution available	- Maintenance free operation
- Heavy load version available	- Extend the limits of applications
- Closed or open versions	- Enable operation with shaft support





Double-lip seal

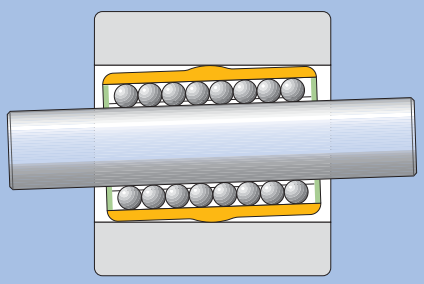
Fig 1



The double-lip seal ensures maintenance-free life for pre-greased bearings that operate under standard conditions.

Self-alignment feature of the LBC series

Fig 2

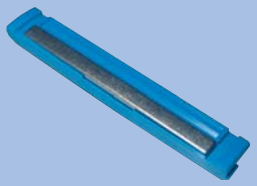


Shaft misalignment is compensated thanks to crowned raceway plates.

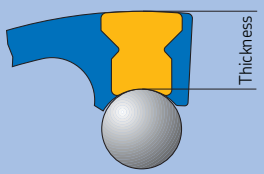
Advantage: favourable running characteristics in spite of misalignment and shaft bending.

Raceway plates of the LBC series

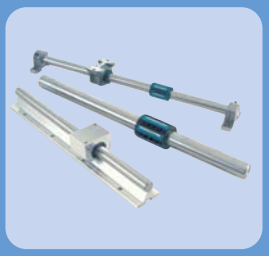
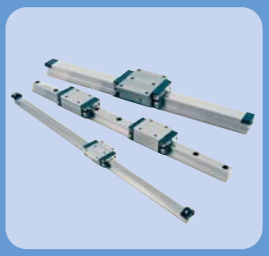
Fig 3







Conventional raceway plate is replaced by new corrosion-resistant raceway plate with integral ball recirculation made from injection-moulded plastic.



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