

Why SKF?

SKF Linear ball bearings



SKF linear ball bearings, housings, units and accessories are mechanical components that can be used to construct economical and simple linear guides for a wide variety of applications.

The SKF linear bearing series offers recognized advantages over competitor's solutions, and is often considered a benchmark among linear guidance systems users. SKF technology innovations, product quality, wide range availability, reliability and service life all contribute to efficient and cost-effective solutions.

Product features

- Interchangeability according to DIN ISO 1 and ISO 3
- Factory pre-lubrication
- High load carrying capacity
- Excellent sealing solution
- No stick-slip effect
- Low noise level
- Available in corrosion-resistant material
- Compensation for shaft misalignment

User benefits

- Increased uptime and productivity
- Lower maintenance and operating costs
- High repeatability of production processes
- Noise reduction

Common applications

- Factory automation
- Automatic handling systems
- Medical technology
- Machinery for the food industry
- Pneumatic guide units
- Woodworking machinery

SKF linear ball bearings in general

Features

- Factory pre-lubrication
- Double-lip seal available
- Corrosion resistant version available
- No stick-slip effect
- High acceleration up to 100 m/s²

Benefits

- Maintenance free operation
- High level of protection against contamination
- Ideal choice for food industry and medical applications
- High repeatability in production processes
- Allows faster product cycles

LBB Compact series



Features

- Hardened steel raceways
- Plastic cage
- No resulting cage loads
- Available from 3 mm shaft diameter
- Easy mounting without additional tools

Benefits

- High load carrying capacity
- Smooth ball recirculation
- High running quality
- Ready for miniaturized design
- Reduced mounting time

LCB Standard series



Features

- Raceway inserts with integral ball recirculation made from light injection-moulded polymer
- Optimised raceway geometry
- Heavy load version available
- Closed and open versions available
- Lubrication port

Benefits

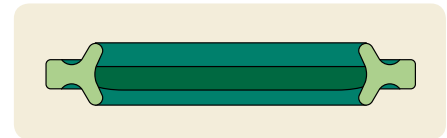
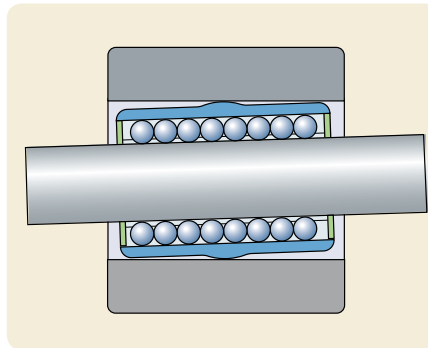
- Lower weight enables higher accelerations and reduces noise reduction
- Life expectancy exceeds DIN 636
- Extend the limits of applications
- Enable operation with shaft support
- Reduce maintenance costs

Self-alignment feature of the LBC series

Shaft misalignment is compensated for thanks to crowned raceway plates.

Advantage:

- Favourable running characteristics in spite of misalignment due to shaft bending
- The tilting of the whole bearing concentric to the shaft enables the sealing to obtain its full sealing capacity.



A perfect team: factory pre-lubrication and double-lip sealing

The double-lip seal helps to ensure a maintenance free life time for pre-greased bearings that operate under standard conditions.

The SKF offer doesn't stop here

- Wide range of units (flange, duo, tandem and quadro)
- Housings made of light aluminum
- Wide range of precision shafts, shaft supports and shaft blocks
- Complete linear ball bearing tables, both supported and unsupported
- All accessories available in corrosion resistant versions
- Development of special solutions possible



An SKF Documented Solution specialist can show 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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