

# Why SKF?

# Self-aligning ball bearings



Optimal for applications prone to misalignment or shaft deflection, SKF self-aligning ball bearings perform at higher speeds and lower temperatures than other rolling bearings. The self-aligning ball bearing was invented by SKF in 1907 and has been refined continuously to the current design featuring two rows of balls with a common sphered raceway in the outer ring.

The result is excellent accommodation of misalignment, the lowest operational friction of all rolling bearings, and a significantly longer service life. Basic types include open and sealed designs; custom designs can be developed for particular application requirements.

## Product features

- Extremely low friction
- Lower operating temperatures
- Reduced vibration levels
- Lower noise levels
- Low requirements on lubrication

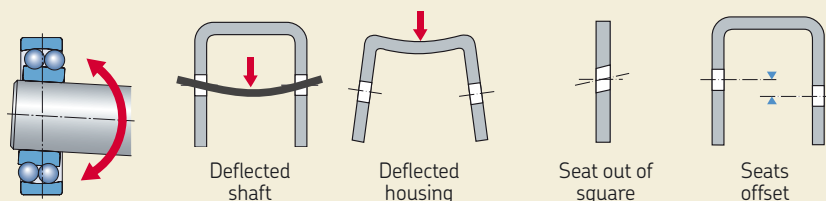
## User benefits

- Excellent high-speed performance
- Increased uptime and productivity
- Lower maintenance and operating costs
- Significantly longer lubricant life
- Increased energy efficiency
- Environmentally friendly

## Common applications

- Conveyors
- Elevators and escalators
- Fans and blowers
- Pulp and paper processing equipment
- Textile machinery
- Agricultural harvesters and mills
- Construction equipment
- Food and marine industry separators

### Typical misalignment situations



Self-aligning ball bearings accommodate misalignment without increasing friction and heat.



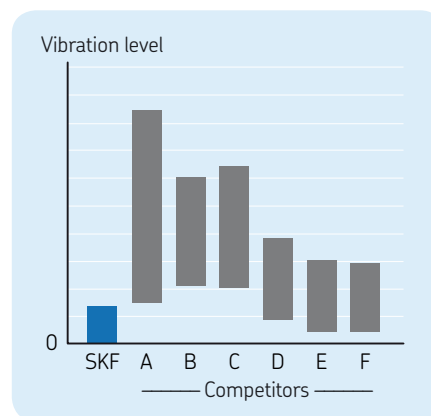
## Superior performance and selection

### Outperform other bearing types

Characteristics	Self-aligning ball bearings	Spherical roller bearings	Y-bearing units	Deep groove ball bearings
High-speed performance	+++	+	+	+++
Low friction performance	+++	+	++	++
Energy savings	+++	+	++	++
Long relubrication intervals	+++	+	++	+++
Self-aligning performance	+++	++	+1	-

<sup>1)</sup> Initial misalignment

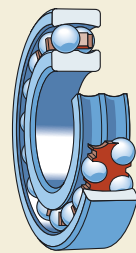
### Lowest vibration levels



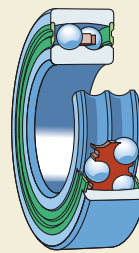
### Widest assortment



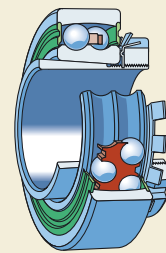
### Several designs to meet specific needs



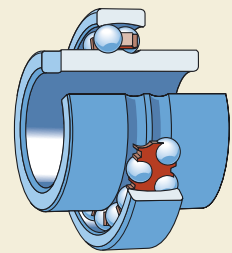
Open design



Sealed design



Bearing with a tapered bore and adapter sleeve for easy mounting and dismantling



Extended inner ring with special bore tolerance for applications employing commercial ground shafting



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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