

SKF insert bearing units UC range



SKF UC range, designed for JIS* equipment

You need a robust and reliable insert bearing unit solution, one that's easy to install, simple to order and improves productivity. SKF now offers a product that matches your operational and application requirements.

At SKF, we have developed a range of insert bearing units, called "UC range", designed to be interchangeable with JIS* equipment. These SKF UC bearing units are designed with a set screw locking feature, to operate in environments where systemic vibrations are characteristic application conditions.

* JIS: Japanese Industrial Standards

Easy to order, easy to replace

You want a solution that makes your life easy – A solution with the same boundary dimensions, housing configurations and part numbers as many other products available today on the market.

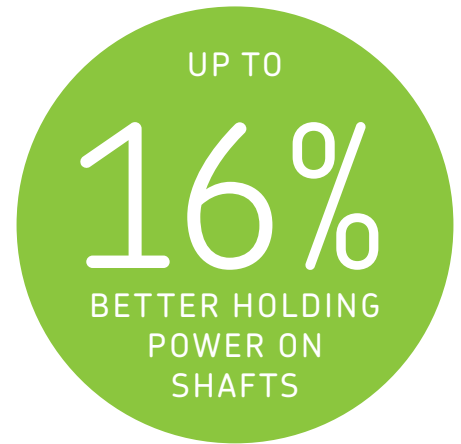
The SKF insert bearing units - UC range achieves this and more. It's an interchangeable solution with JIS* housings available today on the market with an enhanced locking design insert bearing that helps provide more productive, more reliable, and smoother running rotating equipment.

What's more, no modification of your machine is needed. The dimensions meet most of the current UC designated bearing unit fitting requirements, enhancing interchangeability. And whatever product you need, with SKF you know it will be easy to obtain and straightforward to install.



Applications include

- Parcel and baggage handling conveyors
- Material handling conveyors
- Food process machinery
- Packaging equipment
- HVAC equipment
- Agriculture machinery
- Construction machinery
- Textile machinery
- Fitness equipment
- Escalators
- Metals industry
- Industrial fans



Combining JIS* compatibility with SKF reliability

With over 100 years of experience, SKF understands machine and plant productivity and the need to deliver high rotating equipment performance.

The SKF UC range has been designed to provide reliable performance as well and reduce machine downtime. It includes specific features that can make the difference in your equipment.

An enhanced set screw locking system

One of the reasons for failure in a low speed, highly loaded conveyor applications is machine vibration loosening the locking systems.

SKF has overcome this problem by using an enhanced set screw locking design. At its heart is a nylon patch that creates extra resistance to screw loosening. A simple, solution which eliminates the labour associated with the use of messy liquid locking compounds that have no removal or reinstallation options.

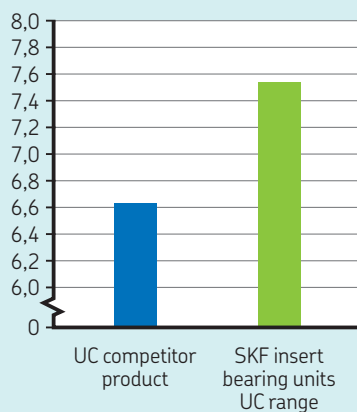
The locking device on the SKF UC range increases the axial holding power by up to 16% (→ **Diagram 1**), so there is greater grip between the shaft and bearing. This is a big advantage for units operating in systemic vibrating applications, such as conveyors.

A solid base and solid feet for increased cleanliness and better bearing unit support

The solid base design of SKF insert bearing units – UC range provides a cleaner surface with less contaminant ingress for improved bearing unit support, especially the often heavily contaminated conveyor operating environment. A solid base design is now standard on our two bolt flanged housings as well as a solid feet on our pillow block housings (→ **fig. 1**). This limits the opportunity for dirt to collect underneath the housing support – another step forward for better bearing unit hygiene.

Diagram 1

Shaft holding power [kN]



Note: testing results based on two 1/4 in shaft set screws, individual results may vary depending on shaft material and hardness, and other factors.

Fig. 1

