Antifriction
PREMIUM ORIGINAL COMPONENTS

SKF Authorized Distributor

SKF Maintenance Product Equipment Hire

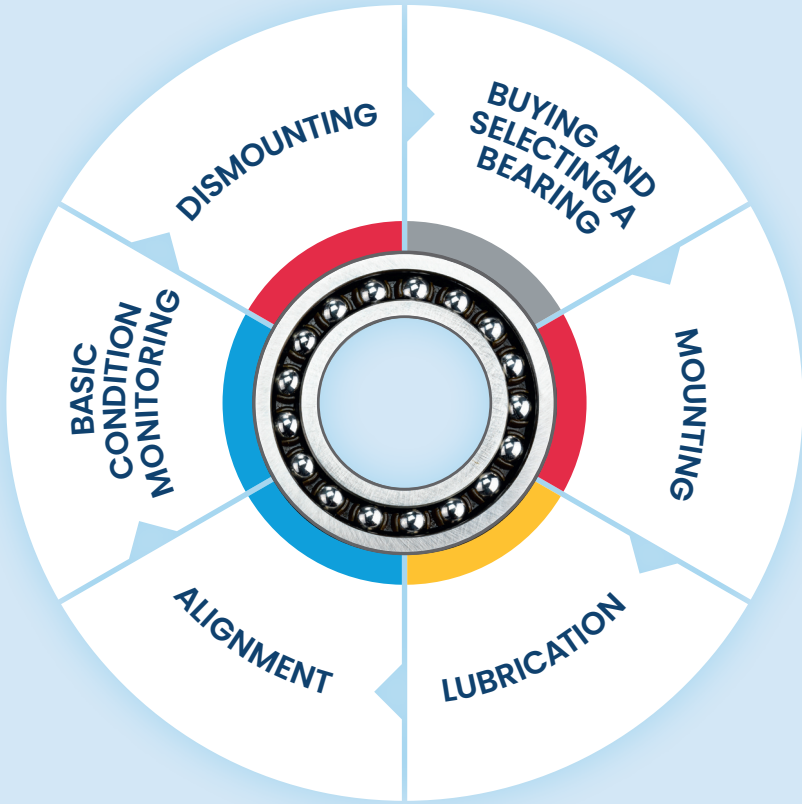
Maximize machinery life without the cost of purchasing expensive equipment

Help bearings achieve maximum service life

Bearings have a certain service life potential. Research shows that not every bearing achieves it. There are stages that have a major impact on the service life of a bearing during its lifecycle.

These are mounting, lubrication, alignment, basic condition monitoring and dismounting. The stages are extremely important for achieving the maximum service life.

The right maintenance practices using the correct tools means bearing service life can be considerably extended, increasing productivity and efficiency.



How the Antifriction hire scheme works

The essential maintenance tools listed in this rental brochure are designed to help engineers to extend the life of bearings and machinery.

Antifriction, as official SKF Maintenance Partners has made them available for hire or for purchase to suit the different budgets and requirements of our customers.

Hire items will be costed on a weekly basis, they will be sent by overnight courier following the return of a signed Antifriction Hire Agreement. A demo can be arranged if necessary with a member of our technical services team subject to availability.

The purchase items will be subject to manufacturer lead times and will be supplied directly from SKF factories in Europe. To find out more about any of these products, please contact your local branch using the contact information on the 'Our Branches' page towards the back of the brochure.

Current pricing can be found in the fold in the back cover.

Heaters

Portable Bearing Heater

TWIM 15/230V

The SKF portable bearing heater is used to heat up and expand roller bearings in order to install them on a shaft with ease. The lightweight construction and handle make it easy to transport. Dual-power settings allow sensitive components to be heated more slowly, avoiding the risk of structural damage. For convenience, the software will detect the bearing's size and position. The inner and outer rings are heated independently, reducing the risk of internal tensions.

- Portable and convenient
- Automatic temperature monitoring
- Maximum bore size 320mm, Minimum bore size 20mm
- Temperature control range 20˚C-200˚C
- Supply voltage 230V
- No support yokes required
- Automatic bearing size detection
- Dual power levels
- User-friendly LED control panel
- Quiet operation

Small Bearing Heater

TIH 030M/230V

The SKF small bearing heater enables the user to easily manipulate bearings that are a challenge to mount. The device features a temperature control that lets you select a desired level of heat. Once heated and in place, the bearing cools down, resulting in a strong interference fit. Another feature is its time-management option, meaning it can be programmed for up to an hour of work. An intuitive control panel and LCD screen on the remote control mean the user can easily cycle between settings, making maintenance more manageable.

- Steel and glass-filled polyamide housing
- Compact dimensions 450(W) x 195(D) x 210mm(H)
- Broad temperature control from 0°C - +250°C
- Carrying handle for portability
- Internal storage capacity

Medium Bearing Heater

TIH 100M/230V

The SKF Medium Bearing Heater uses a special method of heating based on high-frequency induction to deliver maximum efficiency. The bearings are heated to a set temperature, making them easier to mount. This means they can be installed without using hand tools, which could cause damage to the bearing or shaft. Once mounted, the bearing cools down, resulting in a strong interference fit.

- External coil to optimise efficiency
- Remote control panel for increased user safety
- Capable of heating a 28kg bearing in under 20 minutes
- Supply voltage of 230V
- Total weight (including yokes) 42kg
- Dimensions 570 (W) x 230 (D) x 350mm (H)

Large Bearing Heater

TIH 220M/230v

The SKF Large Bearing Heater is a 220m large induction heater which is reliable and robust heater from the TIH range. Foldable bearing support arms allow larger diameter bearings to be heated. Integrated handles for easy movement of the heater in the workshop. This heater is suitable for heating bearings up to a maximum weight of 300kg (660 lb) and solid components up to a maximum weight of 150kg (330 lb).

- Induction coil enables a shorter heating time
- Low energy consumption
- Foldable bearing support arms
- Remote control with operating display and control panel
- Integrated carrying handles
- Sliding or swivel arm for easy and quick bearing replacement.

Mechanical Tools

EasyPull Lever Press Bearing Puller

TMMA 80

The SKF EasyPull Lever Press Bearing Puller helps remove or install bearings in rotating machine shafts or blind bearing holes. The patented EasyPull tool comes with a spring-operated arm and solid frame, making it both safe and simple to use. The puller can be positioned behind the chosen component with a single movement, saving time and effort. Use this tool to safely dismount tight applications in domestic and commercial equipment.

- Self-locking arm reduces the risk of injury to the operator
- Double hexagonal heads minimise the effort needed to operate the tool
- Self-centring capability and nosepiece help avoid damage to the shaft
- Maximum withdrawal force of 80kN

Hydraulic EasyPull Bearing Puller

TMMA 100H/SET

The SKF Hydraulic EasyPull Bearing Puller is an integrated hydraulic cylinder, pump and puller equipped with spring-operated arms and a solid design. It has a maximum withdrawal force of 100 kN and a long stroke of 80 mm which facilitates most dismounting jobs in just one operation.

- Assembly free and ready to use
- Spring-operated arms enable the user to position the puller behind the component with just one movement
- Safety valve prevents spindles and pullers overloading
- Spring-loaded centre point on the hydraulic spindle allows easy centring of the puller on the shaft without damaging it

Reversible Jaw Puller

TMMR 8F/SET

The SKF Reversible Jaw Puller is capable of handling a wide range of bearing sizes, with eight reversible pullers suitable for the internal and external extraction of bearings and components. Its self-locking arms make it easy to adjust the width of its grip, while the spindle-tip cone reduces the risk of shaft damage. There's an option to test the full load capacity without risk of damage to its arms.

- 10-piece bearing puller set containing LGEV 2/0.035, TMMR 120F, TMMR 16/35 XL-5, TMMR 160F, TMMR 200F, TMMR 250F, TMMR 350F, TMMR 40F, TMMR 60F and TMMR 80F
- Capacity of 23mm to 350mm
- Corrosion resistant chrome-plated arms and beam
- Maximum withdrawal force of 40kN,
- Effective arm length 98mm

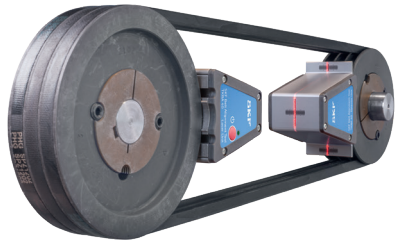
Alignment Tools

Belt Alignment Tool

TKBA 20

The SKF belt alignment tool easily checks to see if pulleys, conveyors and belt drives are properly aligned. This means the costs of machinery downtime, maintenance and repair that come with belt misalignment can be avoided. This laser alignment tool is quick and accurate, delivering precise measurements that will help reduce friction, energy consumption and noise from unnecessary vibration in machinery. Powerful magnets allow quick attachment to the pulley side. The tool projects a visible green laser to the receiver mounted on the opposite pulley, meaning both alignment and belt tension can be adjusted.

- Class 2 laser
- Laser wavelength of 532Nm
- Accuracy level of ±0.5mm/m
- Weight of 1.4kg
- Battery-operated



Belt Alignment Tool

TKBA 40

The SKF Belt Alignment Tool allows pin-sharp accuracy to be achieved. It's a class 2 type, so it's safe for general use and won't cause harm to the human eye under normal conditions, enhancing workplace safety. The unit is precise to ±0.5mm/m, ensuring accurate measurements every time. A maximum operating distance of six metres gives the flexibility to work with larger pieces of machinery, making this a versatile choice for industrial applications.

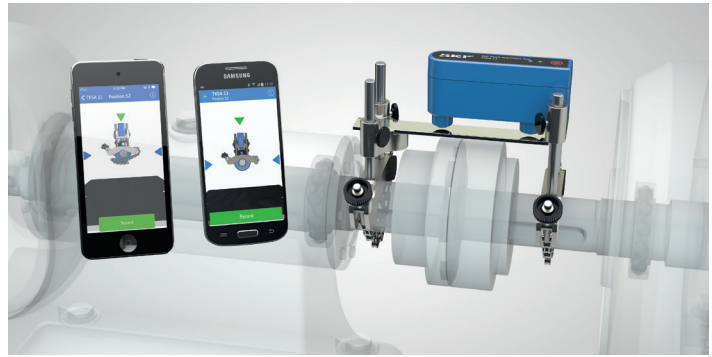
- V-guides provide a reference point for the laser
- Quick and simple alignment
- Precise to ±0.5mm/m
- Maximum operating distance of 6m
- Battery-powered
- Easily portable
- Weight of 1.3kg for comfortable handling and manoeuvrability
- Safe for the operator

Belt Frequency Meter

PHL FM10/400

The SKF Belt Frequency Meter is a two component system consisting of a hand-held meter attached to an optical sensor via an electronic cable. The sensor uses an infrared beam to detect the vibration of a belt strand and sends a signal to the meter. (The sensor includes an LED that produces a light beam to help aim the infrared ray.) Comparing this input to the vibration of a quartz crystal, the meter computes the natural frequency of the belt. The result is shown in the display window as hertz.

- Easy to use; no training required
- Lightweight, handheld device
- Capable frequencies range: 10Hz to 400Hz
- Precision mechanical resonator (tuning fork) included
- Visible and audible operator communication

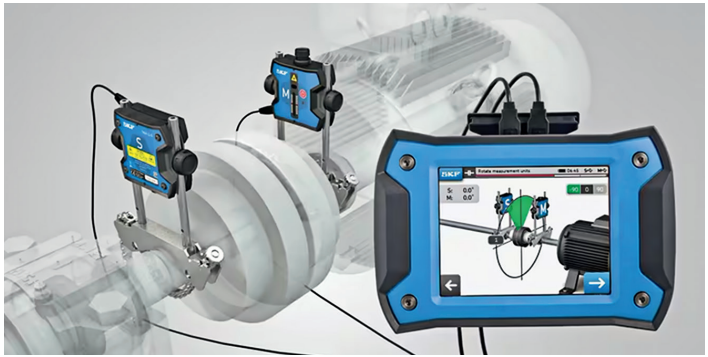


Laser Alignment Tool

TKSA 11

The SKF Laser Alignment Tool makes alignment simple when setting up shafts and maintaining machinery. It has inductive proximity sensors that provide accurate and reliable alignments, making it a dependable tool. Automatic alignment reporting makes it easy to document tasks and share the results wirelessly. It is battery-powered and chargeable by USB, making it portable, so alignment tasks can be carried out anywhere without needing a power source. Its compact design and low weight make it easy to carry and use in tight spaces.

- Compact design
- Measurement range from 0mm to 185mm
- Dimensions 105(L) x 55(W) x 55mm(D)
- Weight 2.1kg
- Automatic alignment reporting
- High-resolution graphics
- Micro USB to USB connector



Shaft Alignment Tool

TKSA 31

The SKF shaft alignment tool is used to precisely line up machinery into the correct positions. The unit features an easy-to-use LCD display and a touchscreen to ensure simple monitoring of operations. For convenience, the automatic measurement system offers hands-free alignment when the heads are in the right position. The alignment tool's compact dimensions of 120 (H) x 90 (W) x 36mm (D), make it very easy to handle.

- 9-12-3 method for quick and effective alignment
- Automatic measurement system
- Built-in machine library to easily store reports
- Battery operated with 7 hours of continuous use for reliability
- Carrying case included for protection and easy portability
- Live view allows horizontal and vertical machine positioning

Laser Shaft Alignment Tool

TKSA 51

The SKF Laser Shaft Alignment Tool provides high measurement flexibility and performance suitability. The accompanying TKSA 51 app has been designed to work on a tablet or smartphone and requires no specialist training. The mobile app includes tutorial videos clearly showing how the Laser Shaft Alignment Tool can be operated and how it can provide accurate measurements. Three-position measurement system enables alignment applications within a limited space.

- For use even in limited spaces
- Automatic alignment reports
- Compact, lightweight and easy to carry
- 3D live view
- Disturbance compensation
- App available at Apple AppStore or Google Play Store
- Minimum operating system iOS 8 or Android 4.4.2

Instruments

Handheld Stroboscope

TKRS 31

The SKF Handheld Stroboscope is used for visual inspection of running machines in challenging industrial environments. It provides early detection of abnormalities to help schedule maintenance tasks on rotating equipment. Designed for ease of use, the stroboscope features a large screen and multifunctional selector switch to help navigate easily to the correct menu. Brightness and performance levels are adjustable.

- Quick speed selection
- High luminescence
- Intuitive operation
- Ergonomic and robust design
- Ideal for portable usage
- Tripod for stationary inspection
- Multi-line backlit TFT
- Built-in laser tachometer with flash synchronization
- Slow motion phase shift
- Trigger input and output with signal modification
- Supplied with 3 x AA batteries

Ultrasonic Leak Detector

TKSU 10

The SKF ultrasonic leak detector that helps find leakages in compressed air or vacuum systems. The simple to use instrument has adjustable sensitivity and intuitive guidance for superior leak detection results. It can easily find leaks from a distance, even in noisy industrial environments, via its ultrasound measurement sensor. It is designed for use in all industries utilizing compressed air, as well as workshops with air-driven power tools.

- Easy to use no training required
- Leak detection from a distance
- Lightweight and handheld
- Independently adjustable sensitivity and headset volume
- industrial headset included
- Flexible probe helps find leaks in difficult-to-access locations
- Headset features neck-band wear with protective helmet

Electrical Discharge Pen

TKED 1

The SKF Electrical Discharge Pen manages the service life of bearings by monitoring their electrical discharge levels. It indicates which bearing has been weakened by heavy voltage so they can be replaced quickly. This is a non-contact device, meaning it can be used from a maximum measuring distance of 300mm with accurate results. The LED screen displays the data and is easy to read in low light.

- Weighs 104g, Measures 250(L) x 210(W) x 60mm(H)
- Powered by standard AAA batteries
- Broad 50 to 200MHz frequency range for reliable measurement
- Fits easily in your hand
- Multiple time base options for flexible setting
- IP55 (ingress protection) rating indicates it won't be damaged by low-pressure water impact

Endoscope

TKES 10A

The SKF Endoscope allows the user to inspect mechanical components in restricted locations. Its 1 metre camera probe transmits data to a handheld display, allowing for the scanning of machinery without having to dismantle parts. The probe is fitted with a light emitting diode (LED) for a clear image display on the unit's high-resolution screen. The display screen is backlit for easy viewing in the dark. Magnets on its body means it can be mounted on to machinery to ensure its safety.

- Field of view of 55º, LED illumination type
- Maximum bending radius of 50mm
- Minimum focus distance of 20mm
- 1m camera probe
- Magnetic mounting

Infrared Thermometer

TKTL 40

The SKF Infrared Thermometer is used to detect temperature differences in technical and non-technical applications in order to record information on abnormalities in operating. For example helping to prevent high costs of losses in equipment, prevent unplanned stops and to meet food safety requirements. The thermometer is fitted with multiple lasers which enables the user to more easily and accurately target the object.

- 2.2" TFT LCD display
- 640 x 480 pixel digital camera
- Internal memory expandable to 8 GB with micro SD card
- Image (JPEG) and video (MP4)
- Humidity and air temperature
- Dual laser targeting
- Type-K thermocouple probe
- Adjustable emissivity
- High accuracy
- Fast response time
- Dew point temperature and wet bulb temperature

Tachometer TKRT 31

The SKF Tachometer has large colour screen provides easy reading. The easy-button control allows the user to quickly scroll through the menu and start operating. The TKRT uses laser or contact measurement to determine rotational speed, linear speed and distances. The device enables easy, quick measurement at a safe distance from rotational machinery. It has a wide speed range and a number of measurement modes. Aimed at users in maintenance jobs, the device brings preventive maintenance to inspection of rotating equipment.

- Functions include rpm, Hz, m, feet/inches per minute or second, and length
- Large colour-backlit TFT display
- Powered by rechargeable or standard batteries
- Operational using one hand
- Large angular range
- Wide speed range
- Operational at a safe distance from machinery.

Ultrasound Lubrication Checker TLGU 10

The SKF ultrasound lubrication checker with ultrasonic sensor improves maintenance practices when re-lubricating bearings. Designed for maintenance technicians, the TLGU 10 uses ultrasonic technology to improve manual re-lubrication. When connected to a grease gun, the intuitive device helps a technician to dispense the correct amount of lubricant into a bearing, increasing reliability and accuracy.

- Easy to use and reduces costs
- Extends bearing life
- Total weight 3kg (including case, sensor and batteries)
- Battery operated (AA batteries)
- Clear LED display
- Carrying case dimensions - 530 × 110 × 360 mm

Applying the right maintenance practices using the correct tools, the service life of your equipment and bearings can be considerably extended, increasing plant productivity and efficiency.

Call your local Antifriction branch to find out how we can help you become more profitable with our SKF Maintenance Product hire scheme.

Find branch contacts at **antifriction.co.uk/contacts**

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PREMIUM ORIGINAL COMPONENTS

Making industry more profitable

antifriction.co.uk