



ACORN[®]
industrial services limited

**Maintenance
equipment hire**



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Benefits of hiring

Hiring maintenance equipment can be a low-cost way of ensuring your machine's components are fitted, aligned and monitored correctly.

The initial cost outlay of hiring is offset by the benefits of following best practices for mounting and dismantling components. These include prolonging the life of components, reducing machine downtime due to early component failure and minimising routine maintenance.

The use of correct maintenance tools ensures you maximise the life of your assets. By optimising component potential, you can improve productivity, reduce energy and become more efficient whilst reducing costs in the long run.

Try before investing.

Many customers use our hire service to 'try out' maintenance equipment. Most are so impressed with the results that they purchase the hire equipment on the spot or invest in the same model.

Our approach to hiring is highly flexible. Hire equipment for one day, a week or even a few weeks; the choice is yours. Should you need the equipment for longer, simply call our sales team and extend your hire term.

If you have any other questions, please do not hesitate to contact our sales team, who will be happy to help with your requirements.



SKF Maintenance Product Partner

Why choose Acorn?

Acorn is Europe's largest SKF approved Maintenance Product Partner. With over twenty years of experience in supplying SKF bearings, power transmission products and maintenance equipment to industry, our team are experienced, knowledgeable and always helpful. We are confident that we can assist you in becoming more efficient and productive.

In addition to the seven million items held in stock, ACORN also provides services, including:

- **RecondOil.** A truly circular use of oil with Double Separation Technology.
- **Remanufacturing.** Refurbish, recondition or upgrade your key components and systems to reduce the life cycle cost of your industrial equipment.
- **Repair and calibration.** Maintenance equipment can be repaired and/or recalibrated.
- **Training solutions.** Training tailored to your specific requirements (See back page for further details).
- **Connected technologies.** Maximise reliability and output from your machinery and your production process while driving down the total cost of ownership. Whether solving a specific rotating equipment problem, increasing your plant performance or improving your overall maintenance efficiency, ACORN is your partner. With access to application insights, and the right products, connected technologies and solutions, we can help you get the performance you're looking for from your rotating equipment.

How to hire equipment

Hiring maintenance equipment from Acorn is easy. Simply follow these steps:

STEP 1. Select the equipment required. Our product specialist are on hand to offer assistance if you have any questions.

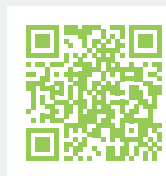
STEP 2. Decide the duration. Hire from one day, a week or more. We're very flexible, and should you decide that you require the equipment for longer, simply give us a call to extend the hire period.

STEP 3. Call 0800 8766 441 to arrange your hire. Our friendly sales team will be happy to arrange everything.

STEP 4. Choose whether to collect the equipment or have it dispatched by our team.

STEP 5. Return the equipment, or we can arrange the collection for you.

A NOTE ABOUT QR CODES



Throughout this brochure we have included QR code links to product pages on our website where you can find more information such as data sheets and informative videos. You can also purchase the items online rather than hire equipment if preferred.

Bearing heaters



TWIM 15

Small, portable and lightweight induction heater

A support yoke is not required for this heater, due to the induction plate's flat shape. Not only does this increase the variety of components that can be heated on the plate, but it reduces the number of accessories needed to use the heater.

Product features

Bearing weight range: 0.5Kg - 20Kg
Min. bearing bore diameter: 30mm
Max. bearing outer diameter: 320mm
Max. bearing width: 85mm

SKF Induction heaters with supporting yoke



TIH 030m

Product features

Max. bearing weight: 40Kg
Bore diameters: 20 - 300mm



TIH 100m

Product features

Max. bearing weight: 120Kg
Bore diameters: 20 - 400mm



TIH 220m

Product features

Max. bearing weight: 300Kg
Bore diameters: 60 - 600mm

Heating services

Mobile heating service

Acorn can offer a full heating and mounting service. Save precious time while ensuring bearings are mounted safely and securely and all for a fraction of the cost of an induction heater.

This service can also be used for mounting other components, such as gears, couplings and spacers etc.

Heater details

SKF TIH 220m

- Capable of heating a 220Kg (480lb) bearing in just 20 minutes.
- Two yokes, allowing bearings with a bore diameter from 60mm (2.3in) up to a maximum weight of 300Kg (660lb) to be heated.
- Sliding arm for large size yoke.
- *415v twin phase 32A supply required.



Shaft alignment



TKSA 51

Product features

- Sensors and communication: 20mm.
- System measuring distance 0.07 to 5Mtr (1.23 to 16.4ft).
- Measuring errors: $<1\% \pm 10 \mu\text{m}$
- Operating time: Up to 8 hours, rechargeable Li-ion battery fast charging: 10 min. charging for 1h usage.
- Operating device: Samsung Galaxy Tab Active 2 and iPad Mini (recommended) iPad, iPod Touch, iPhone SE, Galaxy S6 or above (all not included).
- Alignment method: Alignment of horizontal and vertical shafts, 3 position measurement 9 -12 -3, automatic measurement, measurement (with min. 40° rotation), soft foot.
- Shaft diameters: 20 to 150mm (0.8 to 5.9in) 450mm (17.7in) with extension chains (included).
- Max. coupling height: 45mm (1.8in) with standard rods plus 170mm (6.7in) per set of extension rods.



TKSA 41

Product features

- System measuring distance: 0 to 185mm (0 to 7.3in).
- Measuring errors: $<2\%$.
- Operating time: Up to 18 hours, rechargeable LiPo battery.
- Alignment method: Alignment of horizontal shafts, 3 position measurement 9 -12 -3.
- Shaft diameters: 20 to 150mm (0.8 to 5.9in).
- Max. coupling height: 55mm (2.2in) with standard 80mm rods.



TKSA 11

Product features

- System measuring distance: 29mm (1.1in).
- Measuring errors: $<0.5\%$.
- Operating time: Up to 16 hours, rechargeable LiPo battery.
- Alignment method: Alignment of horizontal shafts, 3 position measurement 9 -12 -3.
- Shaft diameters: 20 to 160mm (0.8 to 6.3in)/300mm (11.8in).
- Max. coupling height: 105mm (4.2in) or 195mm (7.7in) with extension rods (included).

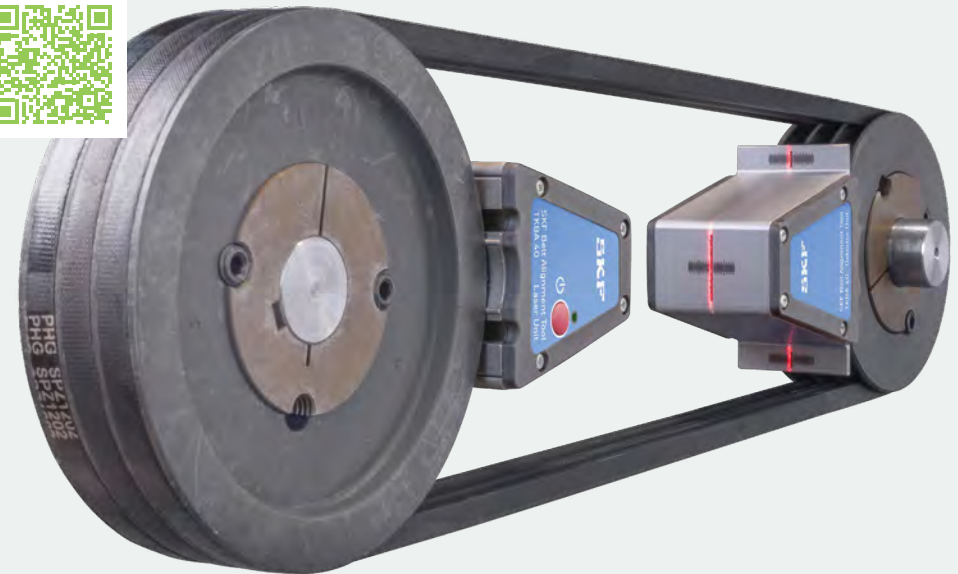
Belt alignment

Belt Frequency Meter

PHL FM 10/400

*Shims available with this hire

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 an orange light beam to help aim the invisible 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 (oscillations per second). The internal programming of the meter is also able to report the belt tension in units of force (either newton or pounds-force) provided the operator has entered the belt mass and span length using the manually operated key pad.

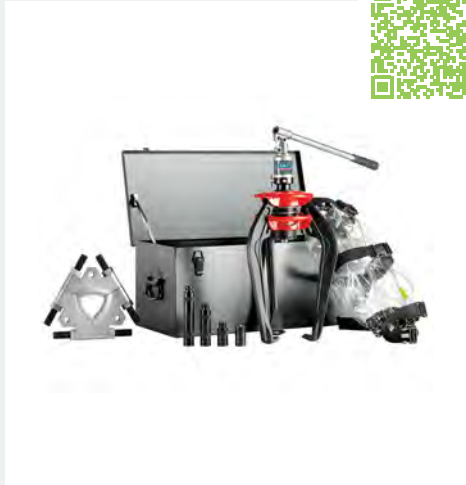


TKBA 40

Product features

- Powerful magnets allow fast and easy attachment.
- Three-dimensional target area simplifies the alignment process.
- Facilitates simultaneous adjustment of tension and alignment.
- V-guides facilitate the alignment of a wide range of V-belt pulleys.
- Laser line length 3Mtr at 12Mtr (9.8ft at 6.6ft).
- Measurement accuracy angular: Better than 0.2°.
- Measurement accuracy offset: Better than 0.5mm (0.02in)
- Measurement distance: 50mm to 6000mm (2in to 20ft)
- Mounting: Magnetic, groove mounted (Optional side adapter TMEB A2)

Hydraulic pullers



TMMA 75H/SET

Product features

- Puller: TMMA 75
- Trisection pulling plate: TMMS 100
- Width of grip shaft, min: 26mm
- Width of grip shaft max: 100mm
- Effective arm length: 200mm
- Puller protection blanket: TMMX 280
- Max. diameter: 280mm



TMMA 100H/SET

Product features

- Puller: TMMA 100H
- Trisection pulling plate: TMMS 160
- Width of grip shaft, min: 50mm
- Width of grip shaft max: 160mm
- Effective arm length: 250mm
- Puller protection blanket: TMMX 350
- Max. diameter: 350mm



Mechanical pullers



Contents

- 1 Separator set.
- 2 Main rods.
- 2 Extension rods - 125mm.
- 4 Extension rods - 285mm.
- 1 Beam.
- 1 Hydraulic spindle TMHS 100.
- 2 Extension pieces for hydraulic spindle - 50 & 100mm.
- 1 Nose piece with centre point.

Suitable for

- Shaft diameter: 35-150mm.
- Max. Bearing outer diameter: 215mm.
- Max. Reach: 120-816mm.

TMBS 150E

Product features

- The SKF TMBS E strong back pullers facilitate dismantling of bearings in applications.
- Where the use of traditional jaw pullers is restricted due to lack of space or where the application demands a long reach.
- Special separator design allows the puller to be easily inserted between the bearing and the shoulder on the shaft.
- The spring loaded centre point of the hydraulic spindle allows easy puller centring minimising the risk of shaft damage.
- The firm grip behind the bearing's inner ring reduces the force required to dismantle the bearing.
- The hydraulic spindle is equipped with a safety valve, which minimises the risk of puller overload.



Internal pullers

TMMD 100 KIT

Product features

- Bearing bore diameter: 10-100mm
- Effective arm length: 135-170mm



TMIP 30-60 KIT

Product features

- Bearing bore diameter: 30-60mm
- Total sliding hammer length: 557mm



Condition monitoring



Vibration monitoring

Quick collect

The SKF Quick Collect takes velocity, acceleration enveloping, and temperature measurements.

- Bluetooth communication with tablets, smart phones and smart watches.
- Easy to understand indications of machine condition.
- A rugged industrial design - drop test of 1.8m, water and dust resistant (IP65).
- Rechargeable lithium battery (full working day normal usage).
- Option to connect, store and share data on the cloud
- Can connect directly to SKF Remote Diagnostic Services.
- Apps for both iOS and Android devices.



Thermal inspection

Infrared thermometer

The Infrared Thermometer has a wide range of features, which include:

- LCD colour display.
- 8 laser targeting.
- High accuracy.
- Fast response time.
- Can be used with any SKF temperature probe.
- User selectable, multiple temperature measurement
- Modes including: maximum, minimum, average,
- Differential, probe/infrared dual display scan function.

Temperature range using infrared: -60 to +760°C
Temperature range using probe: -64 to +1400°C



Visual inspection

Endoscope

The visual inspection Endoscope is high resolution miniature camera, with up to 27M digital zoom, that gives a clear and sharp full screen image.

- Available with a 1 metre insertion tube in three different variants; flexible, semi-rigid, or with a semi-articulating tip. Longer flexible and semi-rigid insertion tubes are available as accessories.
- The small tip diameter (5.8mm), allows easy access to most applications.
- The Endoscope is supplied with a side view adapter allowing inspection of applications such as pipe walls.

Learn more about the safe and correct use of maintenance equipment

Our maintenance specialists can provide demonstrations and training days tailored to your specific requirements.

Call: 0800 8766 441
Email: enquiries@acorn-ind.co.uk
Visit: www.acorn-ind.co.uk



Maintenance equipment demonstrations

BOOK NOW

Using the correct maintenance equipment is safer and more efficient and will ensure the correct mounting, dismantling and monitoring of your components.

Our product specialists are available for on-site or off-site demonstrations and will showcase a range of maintenance products that can help you reduce downtime and increase efficiency.

Engineers will gain useful insight into the equipment available and best practices for use.

Products available for demonstrations include:

Products available for demonstrations include:

- Alignment tools
- Heating equipment
- Mechanical mounting and dismantling tools
- Basic condition monitoring tools



Tailored product training days

BOOK NOW

Our product training days can be tailored to your specific requirements. Learn the bearing basics, from the different bearing types and product theory/terminology through to the more advanced technical sessions and hands-on training. Training sessions can be carried out at your facility or off-site at our training centre.

Product training areas include:

- Bearings
- Power Transmission
- Maintenance equipment
- Lubrication

- 2003 Authorised SKF Distributor.
- 2023 UK's first approved SKF Maintenance Product Partner.



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