SKF Shaft Alignment Systems

**Built-in SKF alignment expertise**

Designed to manage alignment for any rotating machinery, the new SKF Shaft Alignment Systems, TKSA 60 and TKSA 80, provide a complete built-in alignment process that takes users from preparation and evaluation all the way through to correction and documenting the results achieved. These sophisticated alignment systems provide comprehensive data that can help operators extend operating lifespans and reduce energy consumption.

**Two alignment solutions for both novices and experienced users**

The SKF TKSA 60 is designed for individuals with fundamental alignment knowledge, but without extensive experience. It offers a color screen with detailed graphics, and has a measuring distance of up to 10 meters.

A more advanced unit, the SKF TKSA 80, includes a comprehensive database structure to store OEM specifications for a wide range of rotating equipment. The system enables users to create and store templates for plant machinery, building an alignment sequence history that optimizes management of the alignment process.

Both units cover a complete spectrum of alignment needs for rotating machinery.

**Energy efficiency indicator**

A smoother running machine not only optimizes plant uptime and overall productivity, but also reduces energy use. The SKF TKSA 60 and TKSA 80 are the only alignment systems on the market that enable users to monitor the percentage of energy saved by correct alignment.

**Features:**

- Built-in wireless module – no need for additional cables and devices
- Displays values and corrective guidance in real time for accurate horizontal and vertical misalignment correction
- Stores machine set-up data for future use, saving time
- Graphics can be swapped from one side of machines to the other to accommodate user position
- Energy Efficiency Indicator shows the estimated energy wasted due to shaft misalignment

For more information about SKF products and solutions for machine maintenance, contact your SKF representative.
Built-in, step-by-step instructions guide you through the complete alignment process

The TKSA 60 and TKSA 80 integrate a pre-defined alignment process in each instrument. It provides users with step-by-step instructions on how to perform alignment in the most effective and efficient sequence.

### FEATURES – TKSA 60

**Preparation**
- The system reminds user of the correct tools and materials to use before going to the location where the alignment will take place.
- A fast template in the system allows user to store the specifications of the machine in the database and re-use the information in future activities.

**Inspection**
- A built-in visual inspection process helps users identify oil levels, leakages and wear indications.
- Measuring units can be placed at any of three rotational positions of the shaft, even with an angle as small as 40 degrees.
- Soft foot can be measured and recorded by either laser or even manually when it is preferred using feeler gauges.
- Traditional clock method can be used for measurement.

**Evaluation**
- Assists users in comparing the inspection results with the specifications in the fast template to identify and prioritize the corrective actions.

**Correction**
- Captures valuable detailed alignment information about the chocking arrangement, such as shims, and about the securing situation, such as the torque of foundation bolt. This information enriches the detailed knowledge of the machine set-up.
- Corrects in real-time horizontal and vertical misalignments and shows values and corrective guidance on the screen.

**Reporting**
- Displays alignment results in graphical format and can be simply copied and pasted into Microsoft documents for easy comparison. The graphic demonstrates the machine at different alignment stages: “as found,” “the desired tolerance,” and “as corrected.”
- Energy efficiency indicator indicates the estimated energy saved by correct alignment activity.

**Analyzing**
- Generates reports for each alignment activity recorded in the system which helps periodically to compare the alignment history and monitor machines health trend.

### ADDITIONAL FEATURES – TKSA 80

**Preparation**
- Extensive database stores specific information (OEM) for a wide range of machinery types.
- Specific templates can be created for each machine – which assists users to optimize their alignment process.

**Inspection**
- Accommodates multiple machine train alignment.
- Reminds users to perform a run out check to look for bent shaft. These values can be chosen as part of the inspection as well.

**Correction**
- Correction at any angle – correction can be made at any rotating angle of the shaft.

**Analyzing**
- Generates reports for each alignment activity recorded in the system which helps periodically to compare the alignment history and monitor machines health trend.