



New technology makes shaft alignment easier and more affordable

SKF Shaft Alignment Tool TKSA 11

The SKF TKSA 11 is an innovative shaft alignment tool that uses smartphones and tablets and intuitively guides the user through the shaft alignment process. With a focus on the core alignment tasks, the TKSA 11 is designed to be a very easy-to-use instrument that is especially suitable for alignment learners and compact applications. The SKF TKSA 11 is the first instrument on the market that uses inductive proximity sensors, enabling accurate and reliable shaft alignment to be affordable for every budget.

- Live view of the instrument and motor position makes the measurement and horizontal alignment intuitive and easy.
- The TKSA 11 app offers a fully functional demonstration mode allowing the complete alignment process to be experienced without the need to purchase the TKSA 11.
- The TKSA 11 is designed to give a fast return on its investment and is also affordable for almost every budget.
- Mobile devices allow high resolution graphics, intuitive usage, automatic software updates and display unit choice.
- By using inductive proximity sensors, the measurement is no longer affected by bright sunlight, the influence of backlash is reduced and the instrument becomes more robust. All enabling the TKSA 11 to deliver accurate and reliable shaft alignments.
- Automatic alignment reports give a complete overview of the alignment process and results. Reports can easily be shared via email or cloud services.





Technical data

Designation	TKSA 11
Sensors and communication	2 × Inductive proximity sensors; electronic inclinometer; Bluetooth 4.0 LE
System Measuring distance	0 to 185 mm (0 to 7.3 in.) between brackets, three reference bars included
Measuring errors / displayed resolution	Less than 2% / 10 µm (0.4 mils)
Compatible operating devices*	iPod touch 5th generation (recommended), iPhone 4S, iPhone 5, iPad mini, iPad 3rd generation or above. Galaxy S4 (recommended phone), Galaxy Tab Active (recommended tablet), Smart-Ex 01 (Smart-Ex 01)
Operating system requirements	Apple iOS 7 and above, or Android OS 4.4.2 and above with hardware support for Bluetooth 4.0 / Bluetooth smart and Open GL 2.0
Software / app update	"Shaft Alignment Tool TKSA 11" via Apple AppStore or on Google Play Store
Shaft diameters	20 to 160 mm (0.8 to 6.3 in.), up to 320 mm (12.6 in.) with optional extension chains
Max. recommended coupling height	55 mm (2.2 in.), up to 175 mm (6.8 in.) with optional extension rods
Alignment measurement	Three position measurement (9-12-3)
Alignment correction	Vertical with shims, horizontal with live view
Alignment report	Automatic PDF report
MU battery	Up to 18 hours continuous operation (1 900 mAh rechargeable Lithium Polymer battery)
Carrying case dimensions	355 × 250 × 110 mm (14 × 9.8 × 4.3 in.)
Total weight (incl. case)	2,1 kg (4.6 lbs)
Operating temperature	0 to 45 °C (32 to 113 °F)
IP rating	IP54 for the measuring unit (IP67 for the probes)
Calibration certificate	Supplied with 2 years validity

* No display device included.



Shaft alignment is recommended for almost every industry, as it enables machine uptime to be significantly improved and maintenance costs to be reduced. The TKSA 11 focuses on industries where these shaft alignment benefits have not yet been realised and helps customers profit from correctly aligned shafts.

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