

SKF Shaft Alignment Tool TKSA 11

New technology makes shaft alignment easier and more affordable



Mobile devices allow high resolution graphics, intuitive usage, automatic software updates and display unit choice.

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.
- 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.

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Technical data

Designation	TKSA 11		
Sensors and communication	2x Inductive proximity sensors Inclinometer $\pm 0.5^\circ$, Bluetooth 4.0 LE	Max. coupling height ¹⁾	55 mm (2.2 in.) with standard 80 mm rods (Unit should be mounted on the coupling when possible)
System measuring distance	0 to 185 mm (0 to 7.3 in.) between brackets 3 x reference bars included up to 200 mm (7.9 in.)	Power adapter	Charging via micro USB port (5V) Micro USB to USB charging cable supplied Compatible with 5V USB chargers (not included)
Measuring errors	<2%	Operating temperature	0 to 45 °C (32 to 113 °F)
Housing material	PC/ABS plastic	IP rating	IP 54
Operating time	Up to 18 hours, rechargeable LiPo battery	Carrying case dimensions	355 x 250 x 110 mm (14 x 9.8 x 4.3 in.)
Dimensions	105 x 55 x 55 mm (4.1 x 2.2 x 2.2 in.)	Total weight (incl. case)	2,1 kg (4.6 lb)
Weight	155 g (0.34 lb)	Calibration certificate	Supplied with 2 years validity
Operating device (not included)	iPad Mini recommended iPad, iPod Touch, iPhone SE, Galaxy devices	Case content	Measuring unit; 3 reference bars; 2 shaft brackets with chains 480 mm (18.9 in.) and rods 80 mm (3.1 in.); micro USB to USB charging cable; measuring tape 2 m (6.6 ft.); printed certificate of calibration and conformance; printed quick start guide (EN); SKF carrying case
Software/App update	Apple AppStore or on Google Play Store		
Operating system requirements	Apple iOS 9 or Android OS 9 (and above)		
Alignment method	Alignment of horizontal shafts 3 position measurement 9–12–3		
Live correction values	Only for horizontal		
Extra features	Automatic .pdf report		
Fixture	2x V-brackets with chains, width 15 mm (0.6 in.)		
Shaft diameters	20 to 160 mm (0.8 to 6.3 in.)		

¹⁾ Depending on the coupling, the brackets can be mounted on the coupling, reducing the coupling height limitation.



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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PUB MP/P8 14703/4 EN · July 2024