

TKSA 51 Wireless laser shaft alignment system for tablets and smartphones (iOS + Android)



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The TKSA 51 provides high measurement flexibility and performance, suitable for entry-level to expert alignment jobs. Designed to work with the SKF shaft alignment apps on a tablet or smart phone, this intuitive tool is easy to use and requires no special training. The included accessories enable use of the TKSA 51 for a wide range of alignment applications with horizontal and vertical shafts, such as motors, drives, fans, pumps, gearboxes and more. The apps include tutorial videos to show operators how to perform accurate measurements.

- Measurements can start at any angle and require a total minimal rotation of only 40 degrees
- Alignment reports are generated automatically and can be customised
- Reports can be exported as PDF files and shared with other mobile apps
- A range of components are included, such as magnetic mounting brackets, extension rods and chains
- 3-D live view enables 3-D rotation of the virtual motor to correspond with the actual machine position
- Measurement values are averaged over time to provide accuracy in presence of vibration or other external disturbances
- Is supplied in a sturdy SKF carrying case
- Extensive range of accessories is available

Overview

Dimensions

Maximum coupling height	45 mm
Maximum coupling height with extension	170 mm
Total product weight	3.3 kg

Properties

Alignment methods	3 position measurement 9 -12 -3 Automatic (only 40° shaft rotation needed) Free
Recommended applications	Horizontal shafts Vertical shafts Soft foot
Live correction	Vertical and horizontal

values		
Special features	Machine library report Pictures in QR code reading Target Temperature Disturbance Free 3D view table Screen rotation on Automatic report	
Sensors	20 mm PSD Inclinometer	±0.1°
Communications		Bluetooth 4.0 LE
Measurement distance		0.07 to 5 m
Measuring error (percent)		1 %
Material	Measurement units: anodized aluminum front and PC/ABS plastic back cover	
Battery	Measuring units: rechargeable 2000mAh Li-ion battery	
Battery life		10 h
Operating temperature range		0 – 45 °C
Display	None, Smartphone or tablet needed	
Operating system		min. Android 9 min. Apple iOS 9
Software update	Via Apple AppStore and Google Play Store	
Suitable operating devices	Android Tablet or Smartphone with min. Android 9 Apple iPad, iPhone with min. iOS 9	
Laser type		Red line
Mounting	2x V-brackets (width 15 mm) with chains and magnets	
Shaft diameter		20 to 150 mm
Shaft diameter with extension	Up to 450 mm with extension chains (included)	
Power adapter	Charging via micro USB 2.0 port (5V) Micro USB to USB charging cable included Complete with target and included	

Degree of protection (IP) IP 54

Certifications Calibration certificate (2 years validity)

Part of a kit no, but also available as TKSA 51/KIT360

Case dimensions (l x h x w) 360 x 110 x 260 mm (14.2 x 4.3 x 10.2 in.)

Content

- Set of 2 Measuring units (M and S)
- Set of 2 chains 1480 mm (59 in) and threaded rods 80 mm (3.2 in) and magnets
- Set of 4 threads 20 mm (0.79 in)
- Set of 2 tension chains 980 mm (38.6 in)
- Micro USB to USB split charging cable
- Measuring tape
- Set of 2 sheets with 6 QR code stickers per sheet (total of 12 stickers)
- Certificate of calibration
- Quick start
- SKF carrying case

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