

SKF TKSA 71

High end shaft alignment tool



The TKSA 71 is designed for alignments in harsh industrial environments and offers a variety of features for alignment experts. The instrument is very versatile with ultra-compact measuring units for use in extremely narrow spaces. Its dedicated software applications allow convenient alignments of different types of applications, including horizontal and vertical shafts, spacer shafts, and machine trains.

- Intuitive software applications
- Guided alignment processes and explanatory videos
- Comprehensive accessories and dedicated software applications
- Up to 10 m measurement distance, disturbance compensation and full measurement flexibility
- Only 40° of shaft rotation needed, automatic measurement mode and customised alignments with target values
- Protection against harsh environments (IP 67)
- Ultra-compact measuring units allow alignments in extremely narrow spaces
- Free apps and demonstration mode and tutorial videos for performing alignments
- Robust trolley case and wireless in-case charging

Properties

Alignment methods	3 position measurement 9 -12 -3;Automatic measurement;Free measurement (only 40° shaft rotation needed)
Recommended applications	Horizontal shafts;Vertical shafts;Machine trains;Spacer shafts;Soft foot;Values
Live correction values	Vertical and horizontal
Special features	Machine library;Pictures in reports;QR code reading;Target values;Disturbance compensation;Free 3D machine view;Screen rotation on tablets;Automatic .pdf report
Sensors	20 mm PSD;Inclinometer $\pm 0.1^\circ$
Communications	Bluetooth 4.0 LE
Measurement distance	0.07 to 10 m
Measuring error (percent)	1 %
Material	Measurement units: anodized aluminum front and PC/ABS plastic back cover
Battery	Measuring units: rechargeable 1000 mAh Li-ion battery
Battery life	8 h
Operating temperature range	32 – 113 °F
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: Android > 11; Apple iPad, iPhone: iOS > 18
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 chains)	Up to 450 mm with extension chains (included)
Maximum coupling height	1.7717 in
Maximum coupling height with extension	6.4961 in
Power adapter	Wireless charging via supplied charging pods; Micro USB to USB split charging cable included; Compatible with standard 5V USB chargers (not included)
Degree of protection (IP)	IP 67 for measuring units and carrying case
Certifications	Calibration certificate (2 years validity)
Part of a kit	no, but also available as TKSA 71/KIT380 or TKSA 71/KIT720
Case dimensions (l x h x w)	14.4 x 6.7 x 11.6 in
Content	Set of 2 Measuring units (M and S); Set of 2 shaft brackets with chains 480 mm (18.9 in) and threaded rods 80 mm (3.2 in) and magnets; Set of 4 threaded extension rods 120 mm (4.7 in); Set of 2 extension chains 1 m (3.3 ft); Micro USB to USB split charging cable; Set of 2 wireless charging pads; Measuring tape; Certificate of calibration and conformance; Quick start guide; Carrying case

Logistics

Country of Manufacturing (COM code)	18 - Germany
Product net weight	9.55 lb
eClass code	23-05-19-01
UNSPSC code	41112202

Compatible products

Type	Designation	Description	Qty
Parent product	TKSA 71/380	Kit of a Shaft alignment tool and a Shims kit	1
Parent product	TKSA 71/720	Kit of a Shaft alignment tool and a Shims kit	1
Spare part	TKSA 41-QR	Spare set of five sheets of stickers with 6x QR codes per sheet (total of 30x unique stickers)	1
Spare part	TKSA 51-EXTCH	Accessory set of extension chains for Shaft alignment tool	1
Spare part	TKSA 51-ROD120	Accessory set of four threaded extension rods for Shaft alignment tool	1

Type	Designation	Description	Qty
Spare part	TKSA 51-ROD80	Accessory set of four threaded extension rods for Shaft alignment tool	1
Spare part	TKSA 51-VBK	Spare standard bracket with two threaded rods, one chain, four magnets for Shaft alignment tools	1
Spare part	TKSA 71-M	Spare measuring unit M (Moveable), including calibration certificate, for Shaft alignment tool	1
Spare part	TKSA 71-S	Spare measuring unit S (Stationary), including calibration certificate, for Shaft alignment tool	1
Spare part	TKSA 71-WPODS	Spare set of 2 wireless charging pods, including split USB cable, for Shaft alignment tool	1
Accessory	TKSA 41-QR	Spare set of five sheets of stickers with 6x QR codes per sheet (total of 30x unique stickers)	1
Accessory	TKSA 51-EXT50	Accessory offset bracket 50 mm with two threaded rods for Shaft alignment tool	1
Accessory	TKSA 51-ROD120	Accessory set of four threaded extension rods for Shaft alignment tool	1
Accessory	TKSA 51-ROD80	Accessory set of four threaded extension rods for Shaft alignment tool	1
Accessory	TKSA 51-SLDBK	Accessory sliding adjustment bracket for Shaft alignment tool	1
Accessory	TKSA 51-SPDBK	Accessory spindle bracket with two rods for Shaft alignment tools	1
Accessory	TKSA MAGBASE	Accessory set of 2 magnetic bases for use with offset brackets only for Shaft alignment tool	1
Recommended tool	TKSA 11	Shaft alignment system with Inductive sensors for smartphones and tablets (iOS and Android)	1
Recommended tool	TKSA 31	Wired laser shaft alignment system	1
Recommended tool	TKSA 51	Wireless laser shaft alignment system for tablets and smartphones (iOS + Android)	1
Recommended tool	TKSA 41	Wireless laser shaft alignment system	1
Recommended tool	TKSA 71/PRO	High end shaft alignment tool with additional accessories and trolley case	1
Recommended tool	TMAS 50/KIT	Machinery shims kit	1
Recommended tool	TMAS 75/KIT	Machinery shims kit	1
Recommended tool	TMAS 100/KIT	Machinery shims kit	1
Recommended tool	TMAS 340	Machinery shims kit	1
Recommended tool	TMAS 360	Machinery shims kit	1
Recommended tool	TMAS 380	Machinery shims kit	1
Recommended tool	TMAS 510	Machinery shims kit	1
Recommended tool	TMAS 720	Machinery shims kit	1