

SKF TKSA 41

Wireless laser shaft alignment system



The TKSA 41 has two wireless measurement units, large sized detectors and powerful lasers. The instrument performs precise measurements in even most challenging industrial environments. The easy to use display device helps users to quickly check and correct shaft alignments and improve the machine performance and reliability.

- Intuitive touch display device for usage in industrial environments
- Wireless measuring units allow easy handling and more measurement flexibility
- Measurement positions can be chosen freely and only 90° shaft rotation is required.
- Live view supports all alignment measurements and corrections
- Automatic alignment reports are saved in the machine library and can be customised with notes, pictures and QR code. All reports can be exported as pdf.
- The built-in camera allows pictures to be taken for reports. Machine identification with automatic QR code identification and machine pictures in the library.

Properties

Alignment methods	3 position measurement 9 -12 -3;Automatic measurement;Free measurement (only 90° shaft rotation needed)
Recommended applications	Horizontal shafts;Soft foot
Live correction values	Vertical and horizontal
Special features	Machine library;Built-in photo camera;QR code reading;Automatic .pdf report
Sensors	29 mm CCD;Inclinometer $\pm 0.5^\circ$
Communications	Bluetooth 4.0 LE or wired with USB cables
Measurement distance	0.07 to 4 m
Measuring error (percent)	0.5 %
Material	Display unit: High impact PC/ABS plastic with over mould; Measurement units: glassfiber filled PC
Battery	Measuring units: rechargeable 2000 mAh LiPo batteries;Display unit: rechargeable 5000 LiPo battery
Battery life	8 h
Operating temperature range	32 – 113 °F
Display	5.6" colour resistive touchscreen LCD display
Software update	Via USB stick
Laser type	Red line

Mounting	2x V-brackets (width 21 mm) with chains
Shaft diameter	20 - 150 mm
Shaft diameter (with extension chains)	Up to 300 mm with optional extension chains (not included)
Maximum coupling height	4.1339 in
Maximum coupling height with extension	7.6772 in
Power adapter	Input: 100V-240V, 50/60Hz AC with country adapters for EU, US, UK, AUS included;Output: DC 12V 3A
Degree of protection (IP)	IP 54
Certifications	Calibration certificate (2 years validity)
Part of a kit	no, but also available as TKSA 41/KIT360
Case dimensions (l x h x w)	20.9 x 4.3 x 14.2 in
Content	Set of 2 Measuring units (M and S);Display unit;Set of 2 shaft brackets with chains 400 mm (15.8 in) and threaded rods 150 mm (5.9 in);Set of 4 threaded extension rods 90 mm (3.5 in);Chain tightening rod;Power supply with various country adapters;Set of 2 USB cables;Measuring tape;Set of 2, A5 sheets with 6 QR code stickers per sheet (total of 12 stickers);Certificate of calibration and conformance;Quick start guide;SKF carrying case

Logistics

Country of Manufacturing (COM code)	18 - Germany
Product net weight	10.4 lb
eClass code	23-05-19-01
UNSPSC code	41112202

Compatible products

Type	Designation	Description	Qty
Parent product	TKSA 41/KIT360	Kit of a Shaft alignment tool and a Shims kit	1
Spare part	TDTC 1/C	Spare tool case, size C, generic, no inlay, empty	1
Spare part	TKSA 41-DU	Spare display unit of Shaft alignment tool	1
Spare part	TKSA 41-M	Spare measuring unit M (Moveable) incl. USB Cable for Shaft alignment tool	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 41-S	Spare measuring unit S (Stationary) includingUSB Cable for Shaft alignment tool	1
Spare part	TKSA 41-STDCH	Spare set of standard chains for Shaft alignment tool	1
Spare part	TKSA EXTCHARG	Spare power supply with EU, US, UK, AUS adapters for Shaft alignment tool	1
Spare part	TKSA ROD90	Spare set of 4 rods threaded for Shaft alignment tool	1

Type	Designation	Description	Qty
Spare part	TKSA VBK	Spare set of 2 standard V-brackets (excluding rods, chains) for Shaft alignment tool	1
Accessory	TKSA 41-EXTCH	Accessory set of extension chains 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 EXT100	Accessory set of 2x 100 mm (3.9 in) offset brackets compatible with standard and magnetic V-brackets and magnetic base for Shaft alignment tool	1
Accessory	TKSA EXT50	Accessory set of 2x 50 mm (2 in) offset brackets compatible with standard and magnetic V-brackets and magnetic base for Shaft alignment tool	1
Accessory	TKSA MAGBASE	Accessory set of 2 magnetic bases for use with offset brackets only for Shaft alignment tool	1
Accessory	TKSA MAGVBK	Accessory set of 2 magnetic V-brackets (excluding rods, chains) for Shaft alignment tool	1
Accessory	TKSA ROD150	Accessory set of 4 rods threaded for Shaft alignment tool	1
Accessory	TKSA ROD90	Spare set of 4 rods threaded for Shaft alignment tool	1
Accessory	TKSA SLDBK	Accessory set of 2 sliding wheels for non-rotating shafts to be mounted on standard V-bracket (Excluding bracket) 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 71	High end shaft alignment tool	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