



Image may differ from product. See technical specification for details.





TKSA 71/PRO

High end shaft alignment tool with additional accessories and trolley case

The TKSA 71/PRO is designed for professional 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. The TKSA 71/PRO set includes accessories to support professional alignements.

- 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
- The set includes accessories of the pro-version
- Free apps and demonstration mode and tutorial videos for performing alignments
- Robust trolley case and wireless in-case charging

Overview

Dimensions

Maximum coupling height	45 mm
Maximum coupling height with extension	165 mm

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 ±0.1°
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: rechargable 1000 mAh Li-ion battery
Battery life	8 h
Operating temperature range	0.0 – 45.0 °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	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
Case dimensions (l x h x w)	610 x 265 x 430 mm (24 x 10.4 x 16.9 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 8 threaded extension rods 120 mm (4.7 in) Set of 2 extension chains 1 m (3.3 ft) Set of 2 magnetic bases Set of 2 sliding brackets Set of 2 offset brackets 50 mm (2 in) Micro USB to USB split charging cable Set of 2 wireless charging pads Measuring tape Certificate of calibration and conformance Quick start guide Trolley case

Logistics

Product net weight	12.4 kg
eClass code	23-05-19-01
UNSPSC code	41112202

Compatible products

Spare part

5x A5 sheets with 6x QR codes per sheet (total of 30x unique stickers)	TKSA 41-QR
Offset bracket 50 mm with 2x 80 mm threaded rods	TKSA 51-EXT50
Extension chains 2x 450 mm for TKSA 11, TKSA 51	TKSA 51-EXTCH
Threaded extension rods 4x 120 mm	TKSA 51-ROD120
Threaded extension rods 4x 80 mm	TKSA 51-ROD80
Sliding adj. bracket for shaft diam. > 30 mm or bore diam. >120 mm for TKSA 11, TKSA 51 (no rods)	TKSA 51-SLDBK
Standard bracket (1x) with 2x 80 mm threaded rod, 1x 480 mm chain, 4x magnets for TKSA 11, TKSA 51	TKSA 51-VBK
1x TKSA 71 M Measuring Unit (including. calibration certificate)	TKSA 71-M
1x TKSA 71 S Measuring Unit (including. calibration certificate)	TKSA 71-S
2x wireless charging pods for TKSA 71 and 71/PRO including. split USB cable	TKSA 71-WPODS
2x Magnetic bases for use with offset brackets only for TKSA 31/41/60/80	TKSA MAGBASE

Accessory

5x A5 sheets with 6x QR codes per sheet (total of 30x unique stickers)	TKSA 41-QR
Threaded extension rods 4x 120 mm	TKSA 51-ROD120
Threaded extension rods 4x 80 mm	TKSA 51-ROD80
Spindle bracket and 2x 80 mm rods for TKSA 11, TKSA 51	TKSA 51-SPDBK

Recommended tool

Shaft alignment system with Inductive sensors for smartphones and tablets (iOS and Android)	TKSA 11
Wired laser shaft alignment system	TKSA 31
Wireless laser shaft alignment system for tablets and smartphones (iOS + Android)	TKSA 51
Wireless laser shaft alignment system	TKSA 41
High end shaft alignment tool	TKSA 71
SKF Machinery Shims kit TMAS 50/KIT	TMAS 50/KIT
SKF Machinery Shims kit TMAS 75/KIT	TMAS 75/KIT
SKF Machinery Shims kit TMAS 100/KIT	TMAS 100/KIT

SKF Machinery Shims kit TMAS 340	TMAS 340
SKF Machinery Shims kit TMAS 360	TMAS 360
SKF Machinery Shims kit TMAS 380	TMAS 380
SKF Machinery Shims kit TMAS 510	TMAS 510
SKF Machinery Shims kit TMAS 720	TMAS 720

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