

TKBA 21 SKF Belt Alignment Tool

Advanced tool allowing belt pulley and chain drive alignment

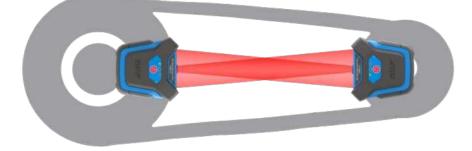
Belt-driven machinery is used in many industries and applications – including HVAC equipment, milling machines, compressors and camshafts.

Aligning belt drives and chain drives accurately helps to reduce wear on belts, pulleys, chains and sprockets. As well as extending belt and pulley life, precise alignment also reduces machine vibration. Typical benefits of this include improved machine performance, a reduction in unscheduled downtime and lower energy costs.

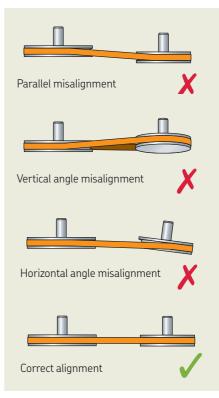
SKF's TKBA 21 Belt alignment tool is part of a series of tools offering a simple way to do this. It accurately aligns pulleys and sprockets and corrects for various types of misalignment.

The tool has two components: a lasertransmitting unit and a receiver unit. Each is attached quickly and easily – using a powerful magnet – to the inside or outside face of a belt pulley or chain sprocket. The TKBA 21 can be applied to most machines that use V belts, banded belts and ribbed belts – as well as those with chain sprockets.

A laser line is projected from the transmitter to the receiver – which is mounted on the opposite pulley. The tool then corrects for vertical angle, horizontal angle and parallel misalignment – including combinations of all three. The TKBA 21 uses two red laser diodes for distances up to 3 m (*10 ft*). Sturdy housings, made from ABS and 2K polymers and an aluminium base help ensure assembly stability and accuracy during alignment. All components of the TKBA 21 – two red laser transmitter/ receiver units and six AAA batteries – are supplied in a sturdy carrying case.







Accurate alignment of pulleys and sprockets

Belt drives are found in a variety of applications, including HVAC, pump installations, paper mills, flour mills, lathe machine, milling machines and conveyors. Sprocket drives are often used in agricultural machinery, compressors and engine camshafts.

TKBA belt alignment tools are commonly used in power plants, recycling facilities, chemical plants and food & beverage production.

Key benefits of the TKBA 21 include:

- Two laser transmitter/receiver units
- Uses red laser diodes and can be used for distances up to 3 m (10 ft).
- Fast, easy attachment using powerful magnets
- Simplified alignment process
- Simultaneous adjustment of tension and alignment
- Applicable to most machines using V belts, banded belts, ribbed belts – as well as chain sprockets



Technical data			
Designation	TKBA 21		
Transmitter/receiver units		Operating requirements	
Type of laser	Red laser diode	Operating temperature	0 to 40 °C (32 to 104 °F)
Laser	1 × Built-in class 2 laser, <1 mW, 635 nm	Storage temperature	-20 to 60 °C (-4 to 140 °F)
Laser line length	2.4 m at 2 m (7.9 ft at 6.6 ft)	Relative humidity	10 to 90% RH non-condensing
Measurement accuracy angular	Better than 0.02° at 2 m (6.6 <i>ft</i>)	IP rating	IP 40
Measurement accuracy offset	Better than 0.5 mm (1/50" in.)	Dimensions	
Measurement distance	50 mm to 3 m (2 in to 10 ft)	Transmitter/receiver units	98 × 97 × 52 mm (3.86 × 3.82 × 2.05 in.)
Control	Laser ON/OFF	Carrying case	360 × 110 × 260 mm (14.2 × 4.3 × 10.2 in.)
Housing material	ABS + 2K and Aluminium base powder coat finish	Weight	
		Transmitter/receiver units	250 gr (0.55 lb) with batteries each
Fixtures		Total (incl. case)	1.62 kg (3.57 <i>lb</i>)
Mounting	Magnetic, side mounted	Case contents	2 × TKBA 21 transmitter/receiver units
Battery	3 × AAA Alkaline type IEC LR03		6 × AAA batteries
Operation time	32h (continuous operation)		1 × Printed Instructions for use

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Scan (or click) the code for the SKF Belt Alignment Tools comparison table

