



Belt-driven machinery downtime caused by misalignment is a thing of the past . . .

With help from the SKF BeltAlign TMEB 2

One of the common reasons for unplanned downtime of belt-driven machinery is pulley misalignment. Pulley misalignment can increase wear on pulleys and belt as well as vibration and noise levels, which can result in unplanned machinery downtime. Another side effect of increased vibration is premature bearing failure. That too can cause unplanned machinery downtime.

Traditional methods, such as using the naked eye or a straight edge, are the most common alignment methods. However, these methods are inaccurate and require trial and error, which is time consuming.

To help you virtually eliminate downtime caused by pulley misalignment, SKF offers you its latest member of its precision laser alignment tools family – The BeltAlign TMEB 2.

Accurate pulley and belt alignment helps you:

- Reduce wear on pulleys and belts
- Reduce friction and thereby energy consumption
- Reduce vibration and noise
- Increase bearing life
- Increase safety
- Increase machinery uptime
- Reduce costs of replacing components and machinery down time

- A** Vertical angle misalignment
- B** Horizontal angle misalignment
- C** Parallel misalignment
- D** Correct alignment

Pinpoint accuracy of the latest laser technology combined with operation simplicity

The SKF BeltAlign, TMEB 2, aligns the pulleys where it counts most – in the grooves. V-guides and powerful magnets allow the BeltAlign to be fitted in the grooves of the pulley. With only two components, a laser-emitting unit and a receiver unit, the BeltAlign is easy and fast to attach. The three-dimensional target area on the receiver unit allows the easy detection of misalignment as well as its nature; whether it is horizontal, vertical, parallel or a combination of all three. Armed with this precise information, the operator can easily make the appropriate adjustments until the laser line corresponds with the reference line on the receiver unit.



- Pinpoint accuracy with latest laser technology:
 - Aligns grooves of the pulley rather than its face, allowing the alignment of pulleys of unequal width or with dissimilar faces - even fits applications where the pulley face cannot be used as a reference
 - No trial and error. The laser position indicates the nature of misalignment allowing easy and accurate adjustment
- Versatile and user-friendly:
 - Powerful magnets allow fast and easy attachment
 - Easy-to-use, requires no special training to operate
 - Facilitates simultaneous adjustment of tension and alignment
 - V-guides facilitate the alignment of a wide range of V-belt pulleys
 - Special side adaptor allowing alignment of multi-ribbed and timing belt pulleys as well as chain sprockets is available as accessory
 - A maximum operating distance of 6 meters (20 ft), makes it suitable for use in various applications
 - Sturdy aluminium housings provide great assembly stability and accuracy
 - Supplied in sturdy, light-weight carrying case for portability

Technical data

Designation	TMEB 2		
Content	1 laser unit 1 receiver unit 3 sets of V guides Carrying case	Dimensions laser unit	70 x 74 x 61 mm (2.8 x 2.9 x 2.4 in)
Housing material	Extruded aluminium	Dimensions receiver unit	96 x 74 x 61 mm (3.8 x 2.9 x 2.4 in)
Type of laser	Diode laser, class 2, 1 mW	Battery type	2 x 1.5V LR03 (AAA) batteries in laser unit
Laser wave length	632 nm	Battery lifetime	20 hours continuous operation
Measurement distance	50 mm to 6,000 mm (2 in to 20 ft)	Weight laser unit	320 g (11.3 oz)
Fixture	Magnetic	Weight receiver unit	270 g (9.5 oz)
Measurement accuracy angular	Better than 0.2°	Calibration certificate	Valid for two years
Measurement accuracy linear	Better than 0.5 mm	Warranty	12 months

Accessory / spare parts

TMEB A2	Magnetic side adaptor for chain sprocket, multi-ribbed and timing belt pulleys
TMEB G2	Sets of V-guides, 3 different sizes

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