



Shaft alignment tools TMEA series

Pinpoint accurate alignment simply achieved

The SKF shaft alignment tools TMEA Series offer you simplicity with a high degree of accuracy. These highly innovative tools feature a three-step process for correcting alignment: measuring, aligning and documenting. First, measure the machinery's current alignment status. Then align the machine vertically and horizontally. Finally, document and keep track of the alignment activities. These three simple steps allow you to easily and effectively align shafts using advanced laser technology.

- Easy-to-use, three-step process: measure-align-document
- Compact, lightweight design
- Spirit levels allow easy and fast positioning of the measuring units
- Selectable mm or inch reading of measurement facilitates worldwide use
- Supplied in sturdy, lightweight carrying cases for portability
- Supplied with high precision SKF pre-cut shims for accurate alignment

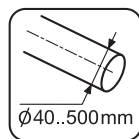
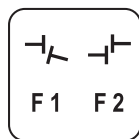


Shaft alignment tool TMEA 2

Easy, quick and affordable shaft alignment

The TMEA 2 is an easy-to-use shaft alignment tool, which requires no special training to operate. The two measuring units can be easily attached to the shafts using magnetic brackets or chains. Each measuring unit emits a laser line, which is projected on the detector of the other unit.

- Display unit simultaneously provides clear "real-time" coupling and feet values during alignment process making rechecking of the alignment unnecessary
- The laser and scale lines facilitate easy pre-alignment
- "Soft foot" feature easily guides the operator through this function
- Display unit can be held using one hand, freeing the operator to perform the alignment
- Magnetic brackets allow easy fixture of the measuring units onto the shaft
- A set of blank alignment reports to help you keep record of your alignment jobs
- Maximum distance of 0,85 m (2,8 ft) between the measuring units brackets

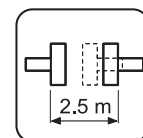
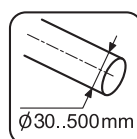


Shaft alignment tool with printer capability TMEA 1P/2.5

Record alignment activities using an optional printer

The TMEA 1P/2.5 offers you the advantage of keeping record of the alignment activities. It is equipped with a printer port to which the optional thermal printer TMEA P1 can be connected. The printer provides a clear and complete alignment report, which can be used to document alignment activities. This user-friendly printer is operated with the touch of a single button on the display unit of the TMEA 1P/2.5.

- Optional printer facilitates recording of alignment activities
- Maximum distance of 2,5 m (8,2 ft) between the measuring units makes it suitable for aligning variety of applications
- Display unit provides clear “real-time” values during the alignment process making rechecking alignment unnecessary
- User-friendly display unit with only four buttons for operation
- Supplied with blank alignment reports for recording alignment activities in case the printer is not purchased

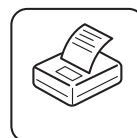
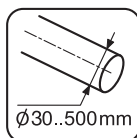


Intrinsically safe shaft alignment tool TMEA 1PEx

Accurate alignment in explosive hazardous areas

The TMEA 1PEx is an intrinsically safe (Ex) shaft alignment tool, especially designed for use in potentially explosive hazardous areas. It has been tested and certified according to the latest ATEX standards in intrinsic safety zones generally found in industries such as the petrochemical, gas and pharmaceutical among others. The TMEA 1PEx is supplied standard with a thermal printer for recording alignment activities.

- Intrinsically safe classification ATEX code: II 2 G, EEx ib IIC T4, at ambient temperature range of 0 to 40 °C (32 to 104 °F) EC Type Examination Certificate Nemko03ATEX101X
- Standard printer facilitates recording of alignment activities
- Maximum distance of 1 m (3 ft) between the measuring units makes it suitable for aligning a variety of applications
- Display unit provides clear “real-time” values during the alignment process making rechecking alignment unnecessary
- User-friendly display unit with only five buttons for operation



Technical data

Designation	TMEA 2	TMEA 1/P2.5	TMEA 1PEx
Measuring units:			
Type of laser	Diode laser	Diode laser	Diode laser
Laser wave length	670 – 675 nm	670 – 675 nm	670 – 675 nm
Laser class	2	2	2
Maximum laser power	1 mW	1 mW	1 mW
Maximum distance between measuring units	0,850 m (2,8 ft)	2,50 m (8,2 ft)	1 m (3 ft)
Type of detectors	Single axis PSD, 8,5 × 0,9 mm (0,3 × ,04 in)	Single axis PSD, 10 × 10 mm (0,4 × ,04 in)	Single axis PSD, 10 × 10 mm (0,4 × ,04 in)
Fixture	Magnetic and/or chain	Chain standard Magnetic optional	Chain standard Magnetic optional
Display unit:			
Battery type	2 × 1,5V LR14 Alkaline	3 × 1,5V LR14 Alkaline	Special type of LR 14 batteries
Operating time	20 hours continuous operation	20 hours continuous operation	20 hours continuous operation
Displayed resolution	0,01 mm (0,1 mil in "inch" setting)	0,01 mm (0,1 mil in "inch" setting)	0,01 mm (0,1 mil in "inch" setting)
Complete system:			
Content	Display unit 2 measuring units with spirit levels 2 magnetic / mechanical shaft fixtures 2 locking chains 5 sets of shims Measuring tape Instructions for use Set of alignment reports Carrying case	Display unit 2 measuring units with spirit levels 2 mechanical shaft fixtures 2 locking chains 2 extension chains 5 sets of shims Measuring tape Instructions for use Set of alignment reports Carrying case	Display unit 2 measuring units with spirit levels 2 mechanical shaft fixtures 2 locking chains 2 extension chains 5 sets of shims Measuring tape Instructions for use Set of alignment reports Carrying case Printer Charger Connection cable Spare paper roll
Shaft diameter range	Magnetic: 40 – 500 mm (1,6 – 20 in) Chain: 40 – 150 mm (1,6 – 5,9 in) Optional chain: 150 – 500 mm (5,9 – 20 in)	30 – 500 mm (1,2 – 20 in)	30 – 500 mm (1,2 – 20 in)
Accuracy of system	Better than 2%	Better than 2%	Better than 2%
Ex classification	–	–	II 2 G, EEx ib IIC T4
Ex certificate number	–	–	Nemko03ATEX101X
Temperature range	0 – 40 °C (32 – 104 °F)	0 – 40 °C (32 – 104 °F) without printer	0 – 40 °C (32 – 104 °F) without printer
Operating humidity	< 90 %	< 90 % without printer	< 90 % without printer
Carrying case dimensions	390 × 340 × 95 mm (15,4 × 13,4 × 3,7 in)	534 × 427 × 157 mm (21,0 × 16,8 × 6,2 in)	534 × 427 × 157 mm (21,0 × 16,8 × 6,2 in)
Total weight (incl. case)	3,7 kg (8,1 lb)	8,9 kg (19,6 lb)	8,9 kg (19,6 lb)
Calibration certificate	Valid for two years	Valid for two years	Valid for two years
Warranty	12 months	12 months	12 months
Printing capability	No	Yes – printer is optional	Yes – printer is standard