Shaft alignment tool with printer capability TMEA 1P/2.5



Application

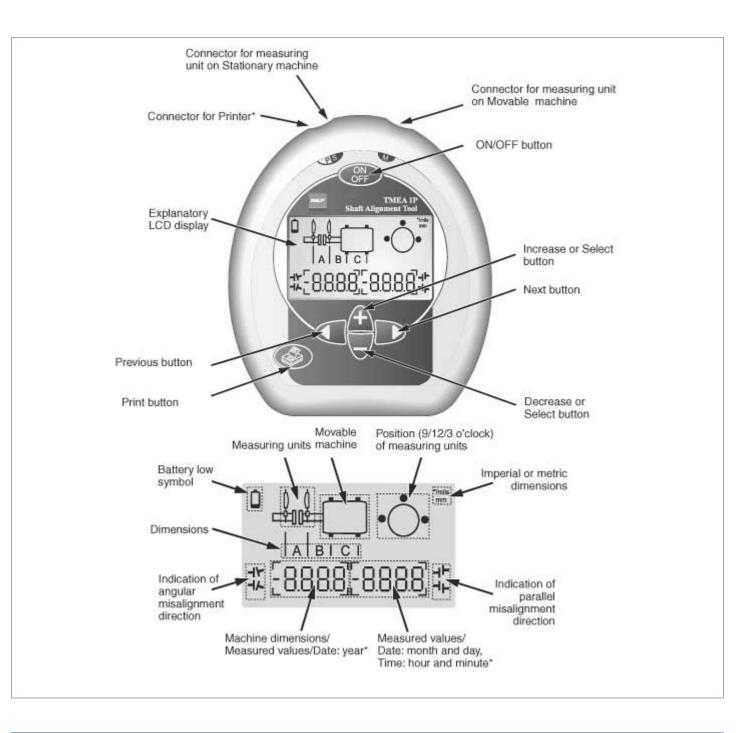
Display unit

Perfect alignment of machinery shafts is crucial to prevent premature bearing failure, shaft fatigue, sealing problems and vibrations. It further reduces the risk of over-heating and excessive energy consumption. The SKF shaft alignment tool TMEA 1P/2.5 offers an easy and accurate way of adjusting two units of rotating machinery so that the shafts of the units are in a straight line

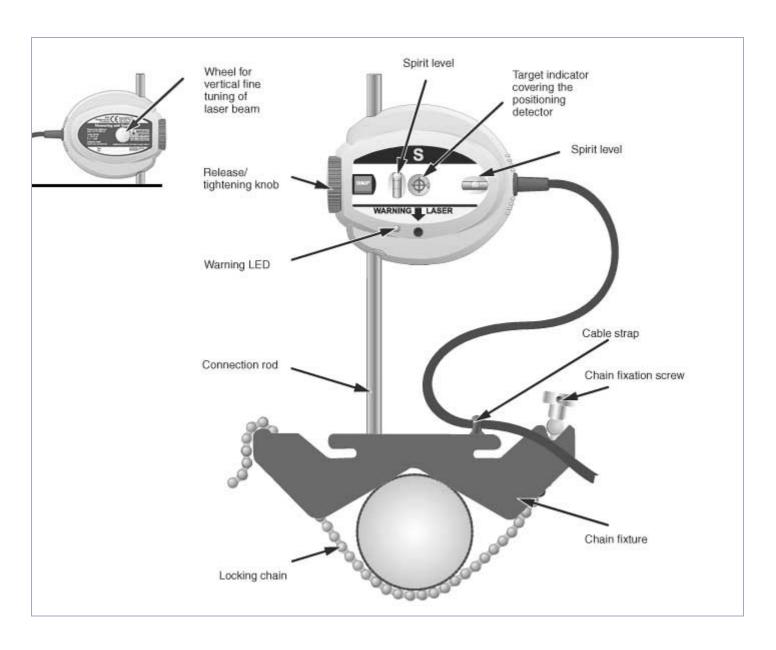
Description

The TMEA 1P/2.5 consists of two measuring units and a display unit. The measuring units are fitted with brackets for attachment to the shafts and can be fixed using chains. Both measuring units emit laser, which is projected on the position sensor detector of the other unit. The measuring units are also equipped with spirit levels, which allows easy positioning in the 9, 12 and 3 o'clock positions. The display unit is operated using just 6 buttons, including the on/off button and provides clear "realtime" of measured values during the alignment process. The display unit is equipped with a printer port, which facilitates the connection of an optional thermal printer for documenting alignment activities. After measuring shaft misalignment, alignment is easily performed by adjusting the moveable machine(s).





Mechanical fixture with measuring unit



Tool components 1 Display unit

- 2 measuring units with spirit levels 2 mechanical shaft fixtures 2 locking chains 2 extension chaines Measuring tape
- 2 3 4 5 6

- Tightening tool
- Cable straps for both measuring units
- 5 sets of shims
 Instructions for use
 Carrying case
 Set of alignment reports (click here to download MS Word template)



Optional tool components

Printer cable

Thermal paper roll

Printer adapter



Technical data	
Denotation	1 mil = 1 thousandths of an inch
Measuring units	Titili – Tulousanduis of an inch
Housing material	ABS plastic
	Diode laser
Type of laser	670 - 675 nm
Laser wave length	
	2
Maximum laser power	1 mW
Maximum distance	0.5 (4.00)
between measuring units	2.5 meter (8 ft)
Type of detectors	Single-axis PSD, 10 x 10 mm (0.4 x 0.4 in)
Cable length	3 m (10 ft)
Dimensions	118 x 101 x 30 mm (4.6 x 4.0 x 1.2 in)
Weight	315 gram (11 oz)
Display unit	
Housing material	ABS plastic
Display type	LCD 55 x 77 mm (2.1 x 3.0 in)
Battery type	3 x 1,5V LR14 Alkaline
Operating time	24 hours continuous operating
Displayed resolution	0,01 mm (0.1 mil with "inch" setting)
Dimensions	160 x 140 x 51 mm (6.3 x 5.5 x 2.0 in)
Weight	0,5 kg (1.1 lb)
Shims	
Size	50 x 50 mm (2.0 x 2.0 in)
Thickness	0,05 - 0,10 - 0,25 - 0,50 - 1,00 mm
Slot width	13 mm
Complete system	
Shaft diameter range	30 - 500 mm (1.2 - 20 in)
Accuracy of system	Better than 2%

0 - 40 °C (32 - 104 °F) without printer Temperature range Operating humidity < 90 % without printer Carrying case dimensions 534 x 427 x 157 mm (21.0 x 16.8 x 6.2 in) 7,9 kg (17.4 lb) Total weight (incl. case) **Calibration certificate** valid for two years Warranty 12 months Printer Optional Printer unit (optional) Printing system Thermal dot matrix Paper feed Friction OFF = 0, ON = 1**DIP** switches position 12345678 01001100 Power rechargeable battery - 12 V max. 60 minutes continuous operation with fully charged battery Operation time Adapter for charging the battery DC 12 V to 15 V - 400 mA (min.) **Continental European adapter** North American adapter

North American adapter
UK, Australian adapter
UK, Australian adapter
Length of connection cable
Paper type

DC 12V - 500 mA
DC 12 V - 1,25 A with detachable primary plugs for UK and Australia
1,5 m (59 in)
Standard thermal printer roll, 20 m x 112 mm, diameter 41,5 mm (65 ft x 4.4 in, diameter 1.6 in)

Operating temperature 5 - 35 °C (41 - 95 °F)

Operating humidity 20 - 70%

Dimensions 165 x 135 x 50 mm (6.5 x 5.3 x 2.0 in)

Weight 670 gr with 20 m paper roll (1.5 lb with a 65 feet paper roll)

Replacement parts and accessories		
Designation	Description	
TMEA P1	Thermal printer complete with Continental European adaptor and connection cable	
TMEA 1P-1/2.5	Display unit	
TMEA 1P-2	Carrying case	
TMEA C1	Locking chains set (500 mm / 19.6 in) + tightening tool	
TMEA C2	Extension chain set (1020 mm / 40.1 in)	
TMEA F2	1 chain fixture, complete	
TMEA F6	2 thin chain fixtures, complete set	
TMEA F7	Set of 3 pairs of connection rods; short: 150 mm (5.9 in), standard: 220 mm (8.6 in) and long: 320 mm (12.5 in)	
TMEA M12/2.5	Set of measuring units; Moveable and Stationary	
TMEA MF	1 magnetic fixture	
TMEA P1-10	UK / Australian mains adaptor (for the printer)	
TMEA R1	3 spare rolls of thermal paper for the printer	
TMAS 340	Kit of 340 pre-cut machinery shims	
TMAS 360	Kit of 360 pre-cut machinery shims	
TMAS 510	Kit of 510 pre-cut machinery shims	
TMAS 720	Kit of 720 pre-cut machinery shims	