

## Shaft alignment tool with printer capability TMEA 1P/2.5

### Application

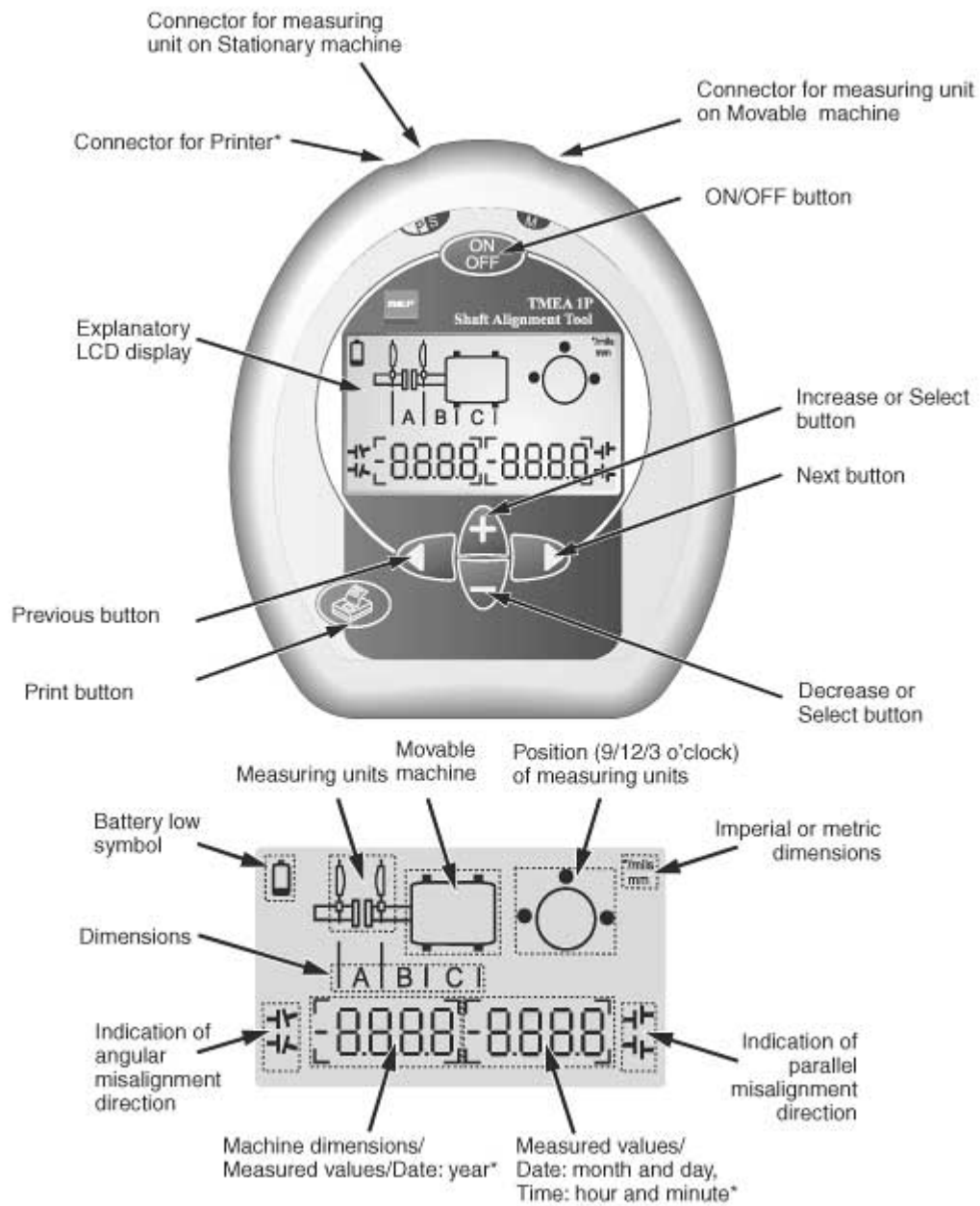
Perfect alignment of machinery shafts is crucial to prevent premature bearing failure, shaft fatigue, sealing problems and vibrations. It further reduces the risk of over-heating and excessive energy consumption. The SKF shaft alignment tool TMEA 1P/2.5 offers an easy and accurate way of adjusting two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

### Description

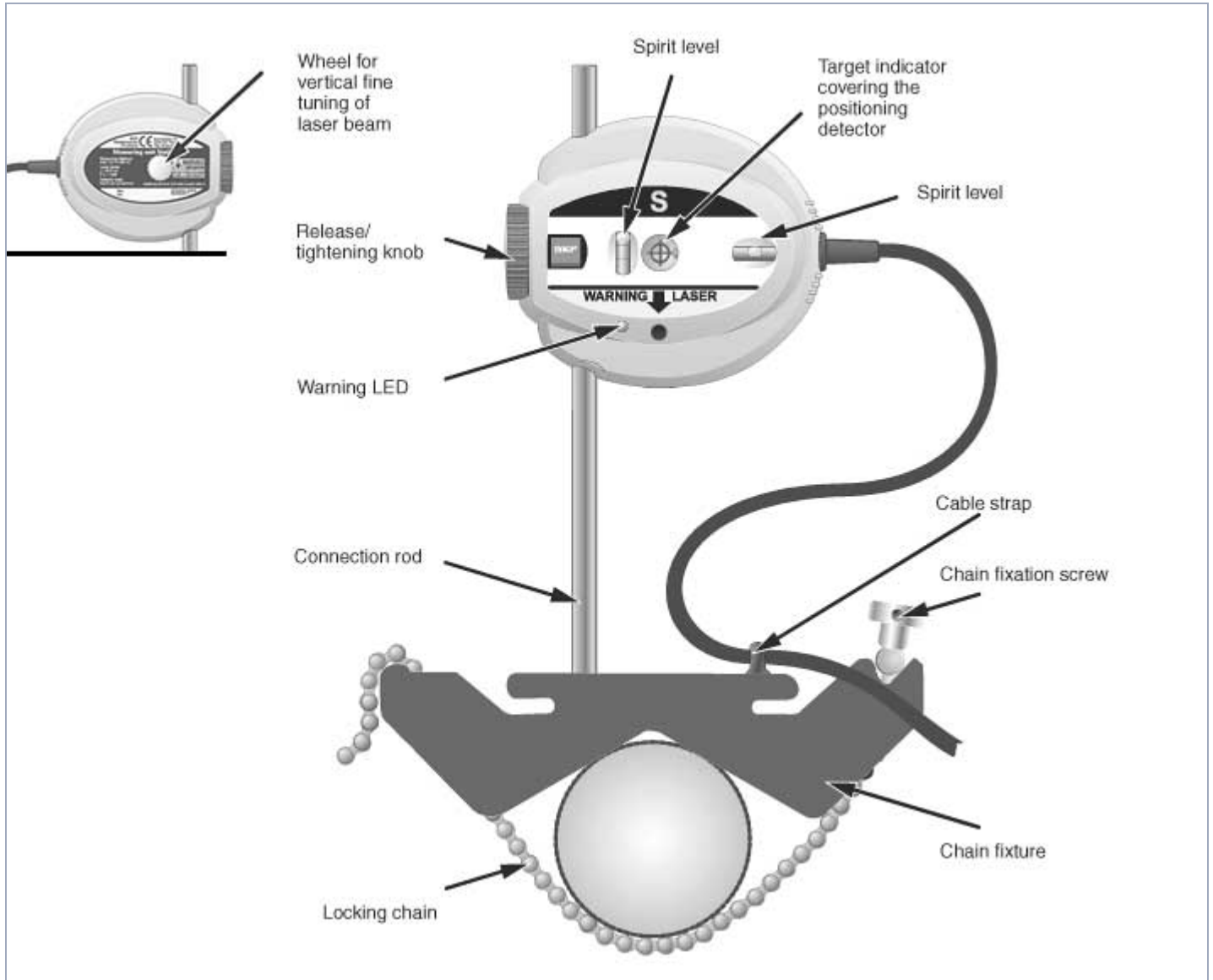
The TMEA 1P/2.5 consists of two measuring units and a display unit. The measuring units are fitted with brackets for attachment to the shafts and can be fixed using chains. Both measuring units emit laser, which is projected on the position sensor detector of the other unit. The measuring units are also 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 "real-time" 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).



### Display unit

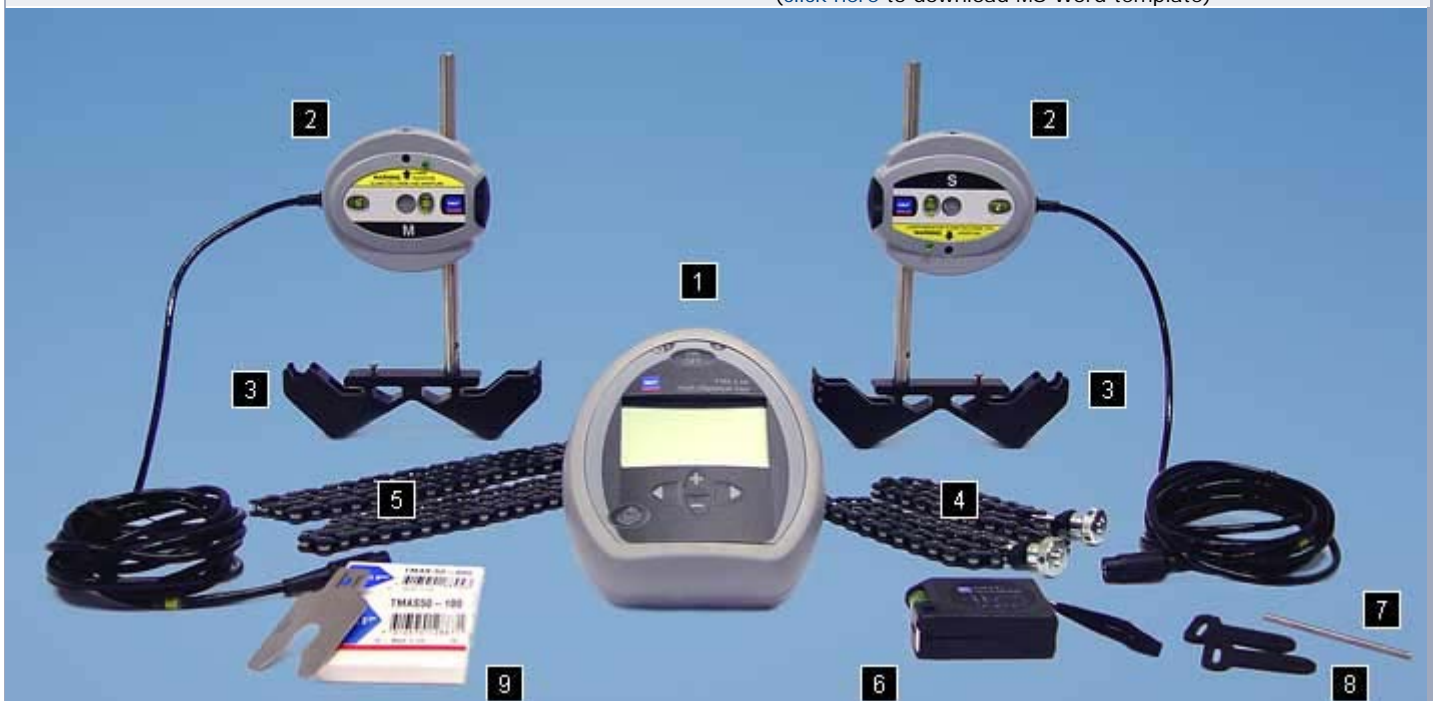


### Mechanical fixture with measuring unit



### Tool components

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|---|--|
| <ul style="list-style-type: none"> <li>1 Display unit</li> <li>2 2 measuring units with spirit levels</li> <li>3 2 mechanical shaft fixtures</li> <li>4 2 locking chains</li> <li>5 2 extension chains</li> <li>6 Measuring tape</li> </ul> | <ul style="list-style-type: none"> <li>7 Tightening tool</li> <li>8 Cable straps for both measuring units</li> <li>9 5 sets of shims</li> </ul> <p>Instructions for use<br/>Carrying case<br/>Set of alignment reports<br/>(<a href="#">click here</a> to download MS Word template)</p> |
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## Optional tool components

Printer cable  
Thermal paper roll  
Printer adapter



## Technical data

<b>Denotation</b>	1 mil = 1 thousandths of an inch
<b>Measuring units</b>	
<b>Housing material</b>	ABS plastic
<b>Type of laser</b>	Diode laser
<b>Laser wave length</b>	670 - 675 nm
<b>Laser class</b>	2
<b>Maximum laser power</b>	1 mW
<b>Maximum distance between measuring units</b>	2.5 meter (8 ft)
<b>Type of detectors</b>	Single-axis PSD, 10 x 10 mm (0.4 x 0.4 in)
<b>Cable length</b>	3 m (10 ft)
<b>Dimensions</b>	118 x 101 x 30 mm (4.6 x 4.0 x 1.2 in)
<b>Weight</b>	315 gram (11 oz)
<b>Display unit</b>	
<b>Housing material</b>	ABS plastic
<b>Display type</b>	LCD 55 x 77 mm (2.1 x 3.0 in)
<b>Battery type</b>	3 x 1,5V LR14 Alkaline
<b>Operating time</b>	24 hours continuous operating
<b>Displayed resolution</b>	0,01 mm (0.1 mil with "inch" setting)
<b>Dimensions</b>	160 x 140 x 51 mm (6.3 x 5.5 x 2.0 in)
<b>Weight</b>	0,5 kg (1.1 lb)
<b>Shims</b>	
<b>Size</b>	50 x 50 mm (2.0 x 2.0 in)
<b>Thickness</b>	0,05 - 0,10 - 0,25 - 0,50 - 1,00 mm
<b>Slot width</b>	13 mm
<b>Complete system</b>	
<b>Shaft diameter range</b>	30 - 500 mm (1.2 - 20 in)
<b>Accuracy of system</b>	Better than 2%
<b>Temperature range</b>	0 - 40 °C (32 - 104 °F) without printer
<b>Operating humidity</b>	< 90 % without printer
<b>Carrying case dimensions</b>	534 x 427 x 157 mm (21.0 x 16.8 x 6.2 in)
<b>Total weight (incl. case)</b>	7,9 kg (17.4 lb)
<b>Calibration certificate</b>	valid for two years
<b>Warranty</b>	12 months
<b>Printer</b>	Optional
<b>Printer unit (optional)</b>	
<b>Printing system</b>	Thermal dot matrix
<b>Paper feed</b>	Friction
<b>DIP switches position</b>	1 2 3 4 5 6 7 8      OFF = 0, ON = 1 0 1 0 0 1 1 0 0
<b>Power</b>	rechargeable battery - 12 V max.
<b>Operation time</b>	60 minutes continuous operation with fully charged battery
<b>Adapter for charging the battery</b>	
<b>Continental European adapter</b>	DC 12 V to 15 V - 400 mA (min.)
<b>North American adapter</b>	DC 12V - 500 mA
<b>UK, Australian adapter</b>	DC 12 V - 1,25 A with detachable primary plugs for UK and Australia
<b>Length of connection cable</b>	1,5 m (59 in)
<b>Paper type</b>	Standard thermal printer roll, 20 m x 112 mm, diameter 41,5 mm (65 ft x 4.4 in, diameter 1.6 in)
<b>Operating temperature</b>	5 - 35 °C (41 - 95 °F)
<b>Operating humidity</b>	20 - 70%
<b>Dimensions</b>	165 x 135 x 50 mm (6.5 x 5.3 x 2.0 in)
<b>Weight</b>	670 gr with 20 m paper roll (1.5 lb with a 65 feet paper roll)

## Replacement parts and accessories

Designation	Description
TMFA P1	Thermal printer complete with Continental European adaptor and connection cable

<b>TMEA 1P-1/2.5</b>	Display unit
<b>TMEA 1P-2</b>	Carrying case
<b>TMEA C1</b>	Locking chains set (500 mm / 19.6 in) + tightening tool
<b>TMEA C2</b>	Extension chain set (1020 mm / 40.1 in)
<b>TMEA F2</b>	1 chain fixture, complete
<b>TMEA F6</b>	2 thin chain fixtures, complete set
<b>TMEA F7</b>	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)
<b>TMEA M12/2.5</b>	Set of measuring units; Moveable and Stationary
<b>TMEA MF</b>	1 magnetic fixture
<b>TMEA P1-10</b>	UK / Australian mains adaptor (for the printer)
<b>TMEA R1</b>	3 spare rolls of thermal paper for the printer
<b>TMAS 340</b>	Kit of 340 pre-cut machinery shims
<b>TMAS 360</b>	Kit of 360 pre-cut machinery shims
<b>TMAS 510</b>	Kit of 510 pre-cut machinery shims
<b>TMAS 720</b>	Kit of 720 pre-cut machinery shims

