

FAG Top Laser SMARTY

Alignment of belt drives and chain drives for greater cost effectiveness

The top laser SMARTY is a cost effective measuring instrument for aligning belt pulleys and chain wheels.

SMARTY can make your preventive maintenance far easier. Alignment with SMARTY means “good vibrations” since their levels are low and wear suffered by belts, belt pulleys, bearings and seals is far less. This means a longer service life and greater reliability of machines and plants, lower energy cost and, all in all, greater cost effectiveness.

Main applications



V-belts



Toothed belts



Flat belts



Chain wheels

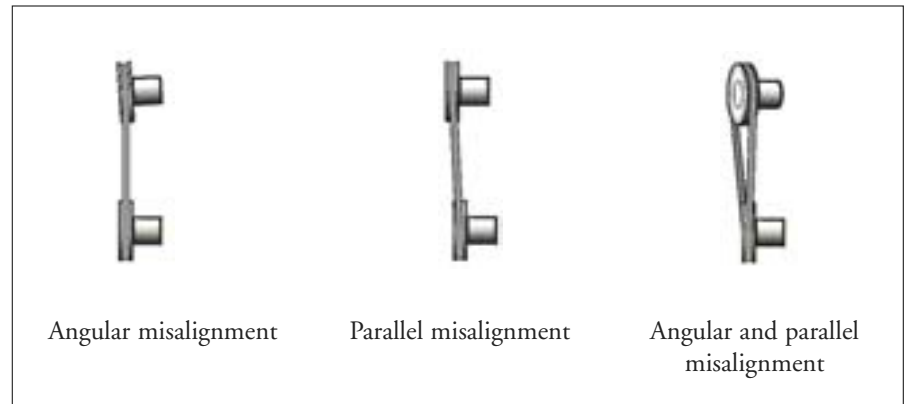


Features and advantages · Instrument layout

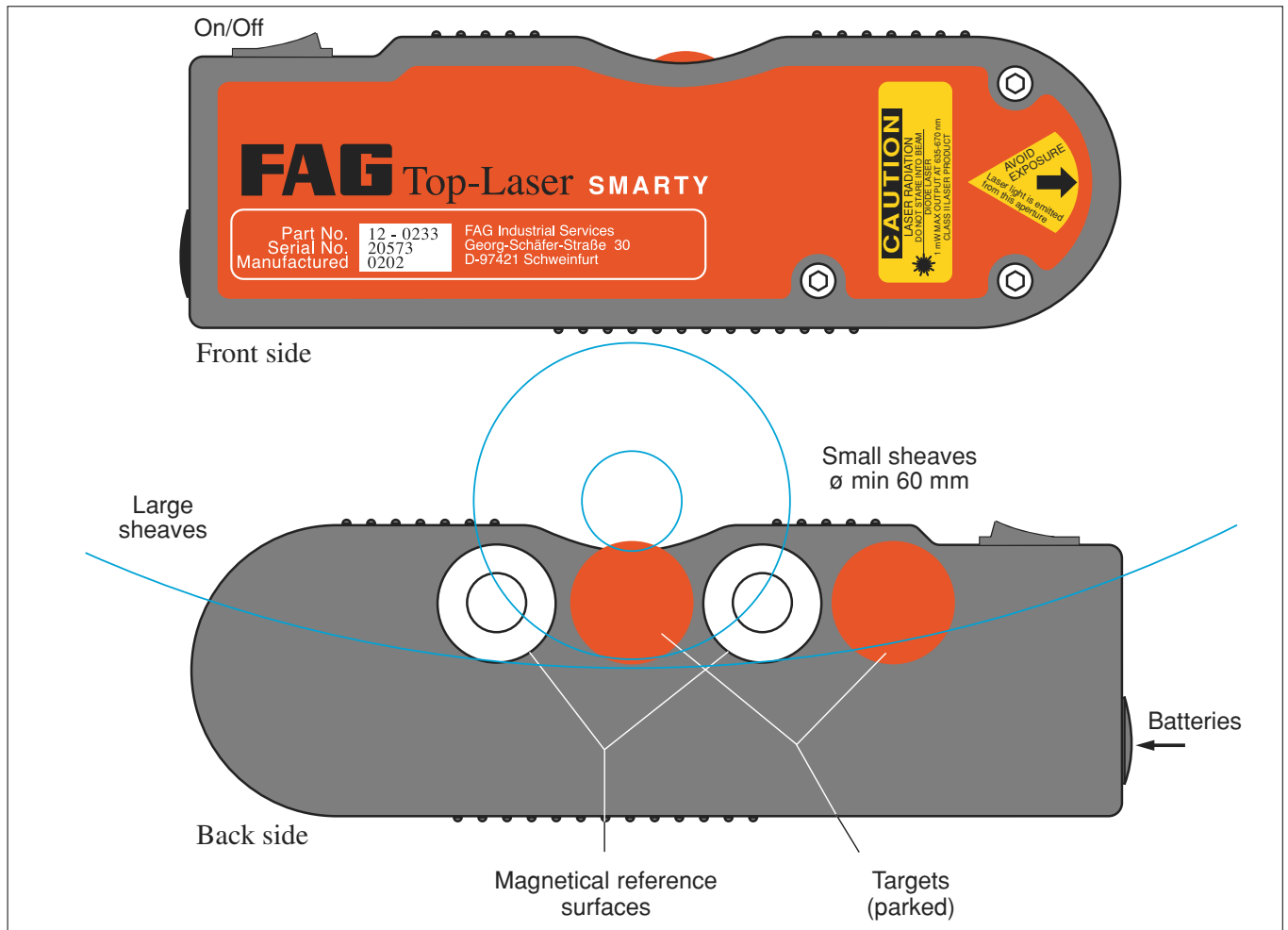
Features and advantages

- Shows parallel and angular misalignment between the two pulleys.
- Works considerably faster and more accurately than conventional methods.
- Suitable both for horizontally and vertically mounted machines.
- Alignment can be done by a single operator.
- System is also suitable for nonmagnetic wheels or pulleys.

Examples of pulley misalignment



Instrument layout



Easy to use

Easy to use

The measuring instrument can be mounted in a few seconds. The laser line can be seen clearly on the targets. Your machine is correctly aligned when the laser line is adjusted to match the slots in the targets. It couldn't be easier!

Aluminium discs

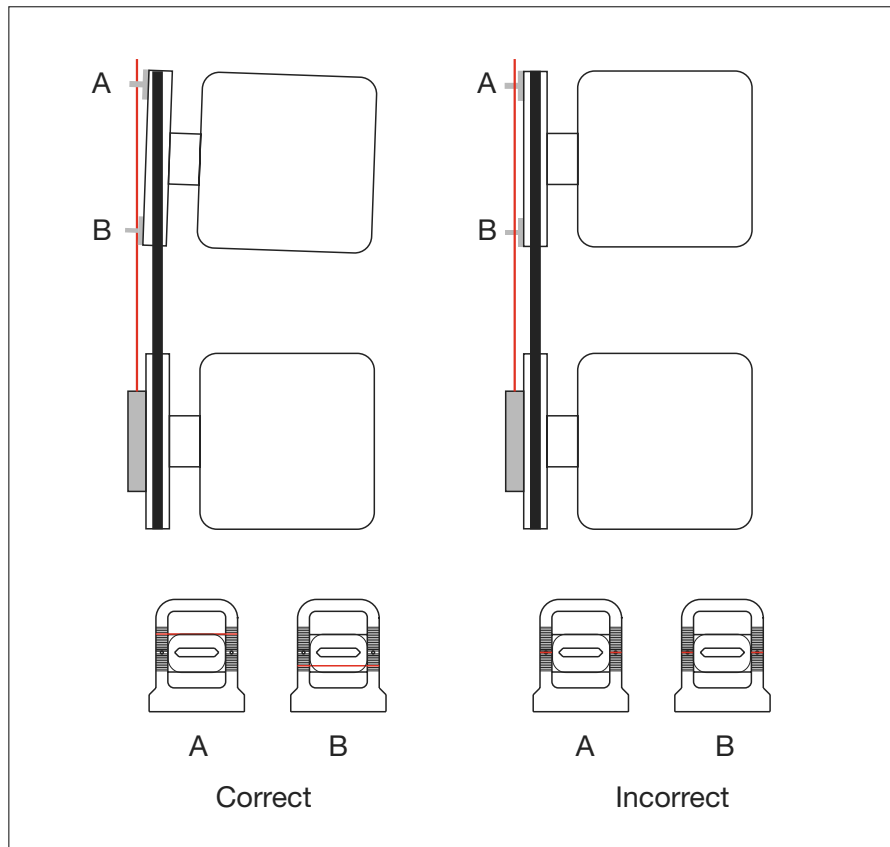
The measuring instrument weighs so little that the emitter and the targets can be attached to nonmagnetic drive pulleys with a strong, double-sided adhesive tape.

Laser beam adjustment

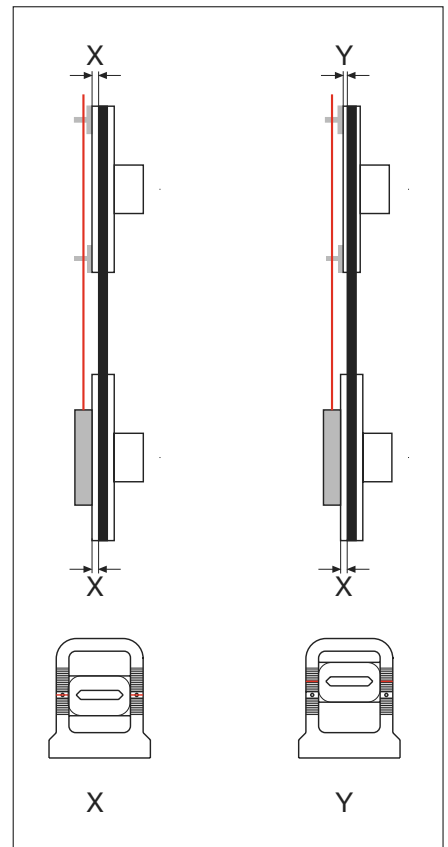
The laser beam emitted by the measuring instrument is adjusted parallel to the measuring instrument's attachment magnets. If any deviation is detected, the operator on site can check on a level surface and readjust if necessary.



Example: alignment of a belt drive



When aligning pulleys of different widths, adjust the marks in the targets.



Technical data · Order designation

Technical data

Laser emitter

Belt pulley diameter	≥ 60 mm
Laser beam angle	78°
Measuring distance	10 m
Batteries	2xR6 (AA) 1.5 V
Battery operation	24 h
	continuous
Laser class	2
Output power	<1 mW
Laser wavelength	635...670 nm
Housing	ABS plastic
Dimensions	
BxHxT	188x60x28 mm
Mass	0.3 kg
Targets	2 magnetic targets
Measuring accuracy	Better than 0.5 mm or 0.2° *)

*) As a general rule, the deviation (depending on the belt type) should be less than 0.25° [4.4 mm/m]

Caution:

Do not look into the laser beam. Do not direct the laser beam into other persons' eyes.

Order designation

Laser measuring instrument, complete, in a padded case
LASER.SMARTY



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