

# FIXTURLASER<sup>®</sup>

## Shaft<sup>100</sup>

FIXTUR  
LASER

*Fast, easy and accurate alignment of rotating machines, pumps, drives, etc.*

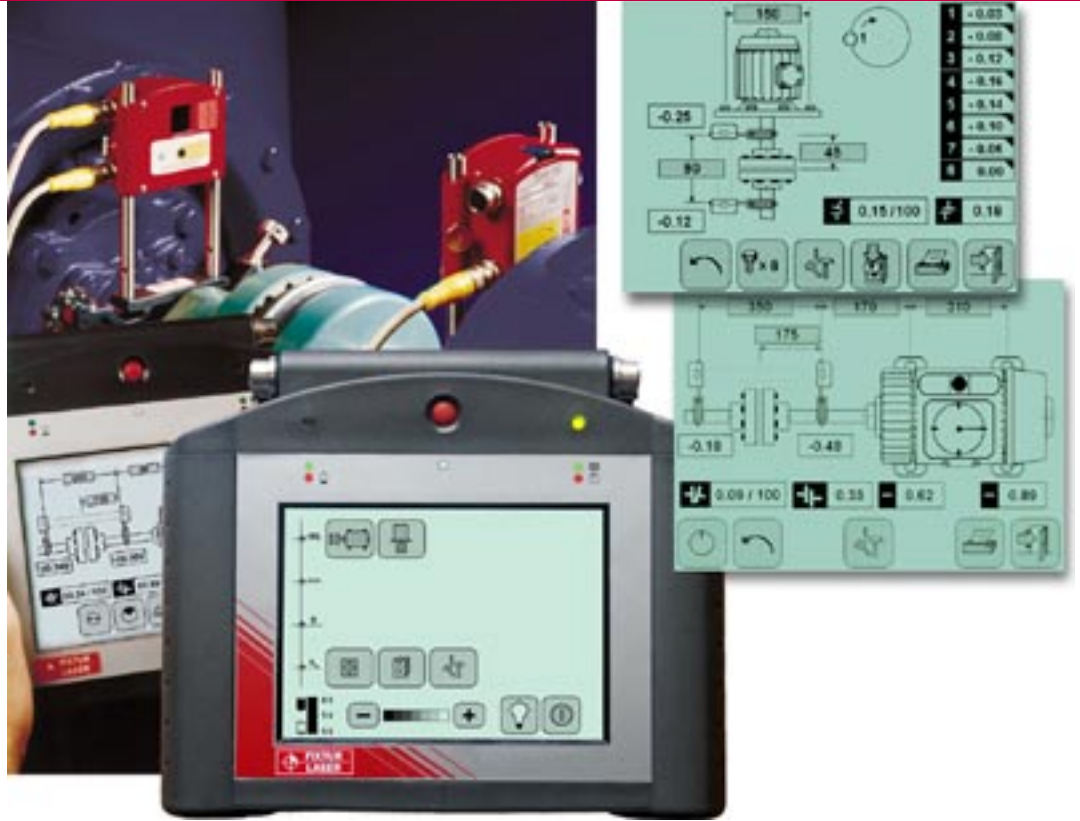
**The Fixturlaser<sup>®</sup> Shaft<sup>100</sup> system in short:**

Fully upgradeable to include shaft alignment, roll alignment and geometric measurements

Live values provide easy adjustments

Large size detector (20 x 20 mm) simplifies rough alignment and measurements over long distances

Measurement resolution down to 0,001 mm



## Shaft Alignment System

### Measurement, alignment and documentation

The Fixturlaser Shaft<sup>100</sup> is an advanced alignment system providing functions for measuring and aligning machines.

The Fixturlaser Shaft<sup>100</sup> is an easy-to-use tool for the entire shaft alignment process, including pre-alignment functions, as well as memory and data transfer of results for full traceability.

### Touch screen technology

The user interface is entirely based upon icons and graphics. The touch sensitive screen provides the user with a clear and easily operated alignment tool displaying only the necessary information. The system is self intuitive and guides the user towards a perfect alignment result.

### Upgradeability

The Fixturlaser Shaft<sup>100</sup> can easily be upgraded adding more comprehensive functions, protecting your investment, and allowing you to upgrade it with future functions and developments, whenever your process requires it.

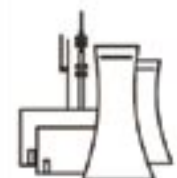
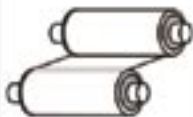
The Fixturlaser Shaft<sup>100</sup> comes with the following functions:

- Shaft alignment of horizontal machines
- Shaft alignment of vertical machines
- Data communication
- Receiver display
- Memory management
- Repeatability test
- Thermal growth compensation
- Softcheck™ – soft foot measurement
- Feetlock™ - bolt-bound and base-bound solution
- Tripoint - alignment with limited rotation
- Tolerance table



# straight to the point

**FIXTURLASER®**  
*Shaft<sup>100</sup>*



## The Fixturlaser® Shaft<sup>100</sup>\*

- 1 Robust aluminum case
- 2 Combined transmitter/detector units
- 1 Display unit with software
- 2 Chain fixtures
- 2 Cables
- 1 System Printer
- 1 Manual

## Accessories\*

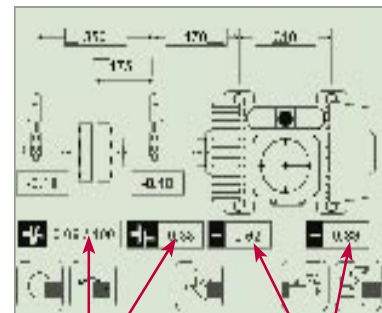
- AC adapter
- Fixturlaser Documenter PC Software - Measurement result database
- Non-rotating shafts accessories
- Leatherette: Protection cover for the display unit
- Fixture for narrow space (10 mm)
- Upgrade packages

**CAUTION**

LASER RADIATION  
DO NOT STARE INTO BEAM  
Wavelength: 675 nm  
Max. Output: <1mW  
CLASS II LASER PRODUCT

## Alignment of horizontally mounted machines

A horizontally mounted machine is the most frequent application regarding shaft alignment. In every industry, there are numerous installations such as drives for fluid pumps, fans, gearboxes, transportation of goods, blenders etc. Most of the machines are critical components in the production process and every single installation requires precision alignment for optimal performance. An unplanned production stop due to machine breakdown will result in production loss and high costs. Nearly 50% of all breakdowns in rotating machines are caused by misalignment. Investments in alignment have a very short payback time and they can often be quantified in uptime minutes.



Angular error  
Parallel offset

Foot position

The measurement result is presented on the screen with all relevant information. Angular and offset errors as well as the current foot positions of the movable machine are displayed.

All values are continuously updated during adjustment, guiding the operator to a perfect alignment.

## Technical specification\*

Measuring distance	Up to 20 meters
Displayed measurement result resolution	0,001 mm
Operating temperature range	0-40°C
Detector size	20 x 20 mm
Power supply	Standard batteries, 4 x 1,5 Volt
Operating time	Depending on operation cycle 10 - 20 hrs
Weight complete system	11 kg

\*Specifications are subject to changes without notice.

Our representatives are all engineers and technicians with special knowledge and training in the latest measurement and alignment techniques. An extensive service programme is provided to support all our cus-

tomers. It includes telephone assistance, hardware repairs and software updates, as well as training and consultations regarding measurement applications.

**FIXTUR  
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