FIXTURLASER® Geo 300 -series

GEOMETRIC ALIGNMENT SYSTEMS

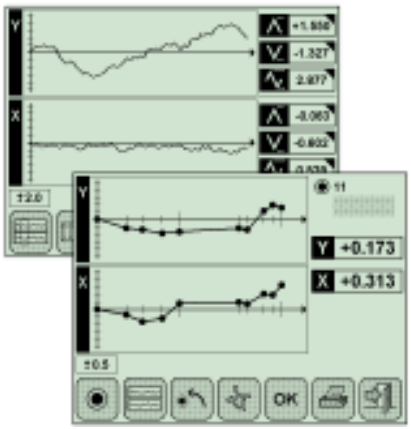
The Fixturlaser® Geo300-series is part of the Fixturlaser® Platform including full access to upgrade your Fixturlaser® Geo300 to include shaft alignment or/and roller alignment capabilities.

A future to build upon!

The Fixturlaser® Geo300-series is a 2-axes alignment system for measurement, alignment and documentation of machine positioning. Typical applications are for measurements of straightness and flatness on objects such as machine tables, machine guides, rollers, or any component in you facility that requires high precision alignment and positioning.

OPTIMIZED PACKAGES

Depending on the specific application, there are different packages with different laser transmitters and fixtures. Straightness measurements are performed in one or two axes with up to 99 measurement points. Live values are showed during adjustments. The measurements can be stored with individual comments to each measurement point for transfer to a PC or printed on the supplied printer.



FIXTURLASER® SYSTEM	LASER TRANSMITTERS AND APPLICATIONS
Fixturlaser® Geo 301	T111, square housing Straightness measurements.
Fixturlaser® Geo 304	T210, sweep laser transmitter Straightness, flatness and perpendicularity, short distance measurements.
Fixturlaser® Geo 305	T220, sweep laser transmitter Straightness, flatness, leveling and perpendicularity, long distance measurements.



The complete Fixturlaser® Geo301

THE FIXTURLASER® GEO300

1 Rugged carrying case
1 Dual axes detector unit
1 Display unit with software
1 Laser transmitter:
T210,T220 or T111
Brackets and fixtures
1 Cable 3 m
1 Measuring tape
1 Tool
1 System Printer
1 Manual

ACCESSORIES

- Fixturlaser® Documenter measurement database software
- Cable 25 m
- Cable 10 m
- Cable 1 m
- Cable for PC communication
- T111 laser transmitter
- T220 laser transmitter
- T210 laser transmitter
- Battery pack for T111
- AC adapter for the Display Unit
- Leatherette
  Protection cover for the display unit.

ISO 9001 AND YEAR 2000 COMPLIANCE

Fixturlaser AB is ISO 9001 certified. The Fixturlaser® Geo300 is Year 2000 compliant, which means that the entry into the next millenium will not affect the product in any way.

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FIXTURLASER® Geo 300

TECHNICAL SPECIFICATION

Handheld battery operated display unit with icon based touch screen interface.



DISPLAY UNIT

Housing material	PP covered with Dryflex™
Display type	6″ backlit monochrome VGA
Keyboard type	Icon based touch screen
Displayed resolution	Selectable 0,1 - 0,01 - 0,001 mm (1 - 0,1 mils)
Filter for difficult measurement environment	Steplessly variable 0-10
Power supply	4 x LR20 (1,5 Volts alkaline batteries)
Temperature range	0 - 40°C (0 - 104°F)
Battery lifetime	24 h in cycles of 50% operation and 50% sleep mode
Dimensions	230x180x60 mm
Weight	0,99 kg

Precision machined, hard anodized, housing with high resolution, 0,001 mm, 2-axis detector.



DETECTOR UNIT R210

Housing material	Precision machined aluminum
Detector size	20x20 mm (3/4″x3/4″)
Temperature range	0 - 50 °C (32 - 122°F)
Light stabilization	No interference from ambient light
Measurement accuracy	±1% ±0,003 mm
Dimensions	105 x ø50 mm
Weight	220 g

LASER TRANSMITTERS (COMMON DATA)

Housing material	Precision machined and hard anodized aluminum
Laser class	Class 2
Temperature range	0 - 40 °C (32 - 122°F)
Environment humidity	10% - 95%

Precision machined, hard anodized housing, with micrometer screws and precision adjustment mechanism. Turret with built-in angular prism for 360° laser plane. High resolution spirit levels in three axes. Battery operated.



LASER TRANSMITTER T220

Laser wavelength	675 nm, visible red light
Spirit level resolution	0,02 mm/m
Built-in angular prism accuracy	±0,02 mm/m
Beam deviation from levels	<0,02mm/m
Laser sweep flatness	±0,02mm
Tilt adjustment	±15 mm/m
Measuring distance	Up to 50 meters (160 feet)
Power supply	4 x LR06 (6volts)
Operating time	20 hrs
Weight	3490 g
Dimensions	175x175x115 mm

Precision machined, hard anodized, housing with micrometer screws for fine adjustments. Detachable prism turret for 360° laser plane. Battery operated.



LASER TRANSMITTER T210

Laser wavelength	675 nm, visible red light
Spirit level resolution	0,3 mm/m
Built-in angular prism accuracy	±0,02 mm/m
Laser sweep flatness	±0,02mm
Measuring distance	Up to 20 meters (66 feet)
Power supply	4 x LR03 (6volts)
Operating time	6 hrs continuous operation
Weight	1080 g
Dimensions	100x85x110 mm

Precision machined, hard anodized, housing with micrometer screws for fine adjustments of laser beam. AC-powered.



LASER TRANSMITTER T111

Laser wavelength	675 nm, visible red light
Measuring distance	Up to 50 meters (160 feet)
Power supply	AC-adapter 110/230 Volts
Weight	1030 g
Housing dimensions	60x60x140 mm

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Publ. No: P-0090-GB