

# FIXTURLASER<sup>®</sup>

## Roll<sup>200</sup>

### FIXTUR LASER

**The Fixturlaser Roll<sup>200</sup> system in short:**

**The Headbox:**  
Straightness of the headbox lip profile  
Parallelism between the headbox and the breast roll

**The Foil Section:**  
Flatness of the foils.

**The Press Section:**  
Horizontal parallel alignment of the press rolls  
Straightness measurement of the press rolls  
Check of the deflection-compensating rolls

**The Dryer Section:**  
Horizontal parallel alignment of the rolls

**The Calender:**  
Horizontal parallel alignment of the rolls

**The Winder:**  
Horizontal parallel alignment of the tumbour rolls

**The Coating Section:**  
Horizontal parallel alignment of the rolls

### Roll Alignment System

The Fixturlaser Roll<sup>200</sup> is an innovative new laser alignment system providing advanced measurement capabilities for paper machines and other roll applications. The system is easy to use for measurement and alignment as well as for documenting the results.

The Fixturlaser Roll<sup>200</sup> is built on the same platform as the other Fixturlaser alignment systems. The Fixturlaser Platform offers the advantage of upgradability to other Fixturlaser products.

### Quick, Easy & Precise

**The Fixturlaser Roll<sup>200</sup> delivers state-of-the-art measurement and alignment capabilities.**

- Easy to use and easy to learn. The intuitive user interface guarantees high usability.
- High accuracy — one micron resolution (1/1000 mm).
- Quick, easy and flexible setup provides access to alignment wherever and whenever you need it.
- Live values on-screen provide constant feedback on roll position as adjustments are made.
- Flexibility allows use of either floor datum or a selected roll as the reference point for measurements.
- Onboard system memory, plus printer and data ports allow complete documentation of every roll measurement.

### The Fixturlaser Roll<sup>200</sup> Set-up and Operations

The design of the Fixturlaser Roll<sup>200</sup> is based on years of experience performing roll parallelism measurement and alignment. The hardware, fixtures and software have been specifically created to make the job of roll alignment quick, easy and precise. One of the most sensitive procedures in roll alignment is the setup of the reference. The Fixturlaser Roll<sup>200</sup> uses a unique new fixture, the datum line pick-up fixture, to simplify reference setup. The fixtures are simply placed over the datum marks and



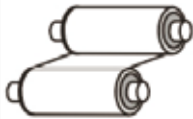
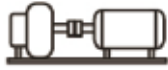
Roll parallel measurements being performed with the Fixturlaser Roll<sup>200</sup> by plant maintenance personnel.



The contents of the Fixturlaser Roll<sup>200</sup> system together with the Fixturlaser Shaft platform.

the laser is lined up. The fixtures remain on the datum marks throughout the alignment process, allowing you to re-check the reference at any time. The illustration above shows the datum line pick-up fixtures on the floor marks. The T220 laser transmitter is on the tripod at the left and the angular prism is positioned on a tripod at the right, deflecting the laser beam along the roll to be measured. Measurement readings are taken at both ends of the roll. The angular prism and the detector are then moved from roll to roll until all measurements have been taken.





## The Fixturlaser Roll<sup>200</sup> \*

- 2 Rugged aluminum cases
- 1 Detector unit with built-in inclinometer
- 1 Display unit with software
- 1 Laser transmitter, T220
- 1 Angular prism, AP200
- 1 Detector, FD15
- 2 Angular brackets
- 2 Sliding tables
- 1 Magnetic base
- 2 Datum line pick-up fixtures
- 1 Datum line pick-up probe
- 1 Low profile fixture
- 1 Cable 3 m
- 8 Rods
- 1 Handle
- 1 Measuring tape

- 1 Tool
- 1 Printer
- 1 Manual



## Accessories\*

- Tripod
- AC-adaptor
- Fixturlaser Documenter Measurement database software for PC with Microsoft®
- Cable 25 m
- Cable 10 m
- Cable 1 m
- Cable for PC communication
- Rolls for magnetic base
- Leatherette: Protection cover for the display unit

## Upgradability

The Fixturlaser Roll<sup>200</sup> is based on the Fixturlaser Platform providing full upgradability to existing and future products. Meaning your initial investment is always protected. The unique upgradability let you upgrade the Fixturlaser Roll<sup>200</sup> with capabilities for shaft alignment, or, if you already have a Fixturlaser Shaft-series you can upgrade to a Fixturlaser Roll<sup>200</sup>.

## The Display Unit

The Fixturlaser Roll200 is operated from the display unit. The icon based touchscreen guides the operator through the process. The backlit screen gives the graphic view of the machine and how the rolls are positioned.

## The T220

The FL100 is a laser transmitter with a working range of 100 meters. The laser beam is accurately

adjusted in all directions by micrometer screws and spirit levels. The beam can be rotated to sweep a plane 360° for flatness measurement.

## The Angular Prism, AP200

The angular prism deflects the laser beam 90°. The angular prism has a built in slide table and angular adjustment screws for fine tuning.

## The FD-15

The detector, FD15, is a tool for accurate positioning of the angular prism. It utilizes a laser detector for highest measurement accuracy.

## The Detector

The detector unit is the same as those delivered together with the Fixturlaser Shaft alignment systems. The detector has a 20 x 20 mm large detector and a built-in inclinometer.

## Technical specifications\*

Measuring distance	Up to 50 meters (150 ft)
Displayed measurement result resolution	0,001 mm (0,1 mils)
Operating temperature range	0 - 40°C (32 - 122°F)
Power supply	Standard batteries
Operating time	Depending on operation cycle 10 - 20 hrs
Weight complete system	32 kg

\* Specifications are subject to changes without notice.