Fixturlaser XA Pro – Redefines the Standard for Laser Based Shaft Alignment

At its launch a few years ago, the Fixturlaser XA definitely set a new standard for laser based shaft alignment products. With the introduction of new technology in both hardware and software, this alignment tool took a huge innovative technology leap forward with regards to its user friendliness and the once so time consuming task of performing shaft alignment. The Fixturlaser XA Pro is a new and improved successor to the Fixturlaser XA with more new features and more content that will make your every day maintenance job a lot easier.

Fixturlaser XA Pro Hardware
As for the hardware, a completely new set of measurement units were introduced, large 30 mm CCD detector surfaces and line laser, which practically eliminates rough alignment. The fact that all Fixturlaser shaft alignment products use two measurement units combined with their technological features, increases considerably the measurement accuracy. You can sample up to 693 measurements in each position giving in total 2079 points for calculation of a possible misalignment. Also, the CCD sensors allow for digital signal quality control, further enhancing the measurement accuracy.

To increase the mobility around your work site, the Fixturlaser XA Pro’s measurement units are equipped with Bluetooth units, i.e. wireless connection. The display unit is one of a kind in the market as it is fitted out with the largest color touch screen available, a whole 6.4" in size.

Fixturlaser XA Pro Software
The Fixturlaser XA Pro has an “All Inclusive” shaft alignment software package, which will handle most of the problems that can occur in the machine park. You will have no unpleasant surprises after the time of purchase with additional charges for e.g. unlimited storage space, machine train alignment, base and bolt bound situations, hot check, etc.

The intuitive user interface is animated thanks to the integration of 3D Macromedia® Flash™ technology in the display unit software. It guides you throughout the measurement and alignment process, using color coded icons, symbols, and measurement values, thus eliminating any possible language barriers.

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**FIXTURLASER XA PRO**

**FIXTURLASER XA PRO - COMPLETE SYSTEM**

**Weight (incl. all standard parts):** 9.4 kg (20.72 lbs)

**Storage Temperature:** -20 to 70°C (-4 to 158°F)

**CASE**

- **Material:** High Impact ABS Plastic
- **Sealing:** Dust, water (5m/16 feet), and air tight with air pressure compensation valve
- **Drop Test:** 3 m (10 feet) onto concrete floor
- **Dimensions:** 460 mm x 365 mm x 185 mm (18.1 in x 14.4 in x 7.3 in)

**DISPLAY UNIT**

- **Housing Material:** Anodized aluminum and high impact ABS plastic over molded with TPE rubber
- **Operating Temp:** 0 to 40°C (32 to 104°F)
- **Relative Humidity:** 10 – 90%
- **Weight:** 1.5 kg (3.31 lbs) with batteries
- **Dimensions:** 244 mm x 188 mm x 55 mm (9.6 in x 7.4 in x 2.1 in)
- **Environmental Protection:** IP 65
- **Processor:** Intel X-Scale, 400 MHz
- **RAM:** 64 Mb
- **Flash Storage Memory:** 128 Mb
- **Display:** Color TFT-LCD backlit with wide angle viewing technology
- **Display Size:** 6.4” diagonal (131 x 98 mm)
- **Display Resolution:** Full VGA 640 x 480 pixels
- **Color Depth:** 262 000 colors
- **External Interface:** 2 RS-485, 1 USB host port, 1.5 / 12 Mbps, OHCI v1.0 compliant, 1 Ethernet 10/100BaseT RJ45, Class I Bluetooth transmitter with multi-drop capability
- **Power Supply:** Dual high performance rechargeable Li-ion batteries and external power supply
- **Operating Time:** 20 hours typical use
- **LED Indicators:** Unit status and battery status indicators

**MEASURING UNITS**

- **Housing Material:** Anodized aluminum and high impact ABS plastic over molded with TPE rubber
- **Operating Temp:** -10 to 60°C (14 to 140°F)
- **Relative Humidity:** 10 – 90%
- **Weight:** 186 g (6.6 oz)
- **Dimensions:** 79 mm x 77 mm x 33 mm (3.1 in x 3.0 in x 1.3 in)
- **Environmental Protection:** IP 65
- **Laser:** 650 nm class II diode laser
- **Laser Line Fan Angle:** 6°
- **Laser Power:** < 1 mW
- **Measurement Distance:** Up to 10 m (33 feet)
- **Detector:** CCD
- **Detector Length:** 30 mm (1.2 in)
- **Detector Resolution:** 1 µm (0.004 mils)
- **Measurement Accuracy:** 0.3% ± 7 µm (0.3% ± 0.27 mils)
- **Ambient Light Protection:** Optical filtering and sunlight signal suppression
- **Inclinometer Resolution:** 0.1°
- **Inclinometer Accuracy:** ± 0.5°
- **LED Indicators:** Laser transmission and status indicators
- **Laser Safety:** See yellow label below

**V-BRACKETS**

- **Fixture:** V-fixture for chain, width 20 mm (0.79 in)
- **Material:** Anodized aluminum
- **Shaft Diameter:** Ø 20-450 mm (3/4 in -18 in)
- **Rods:** 4 pcs 150 mm (5.9 in) extendable to 250 mm (9.8 in)

**CABLES**

- **Length:** 2 pcs 3 m (10 feet)

**WIRELESS PACKAGE**

- **Housing Material:** PC/ABS plastic
- **Operating Temp:** -10 to 60°C (14 to 140°F)
- **Weight:** 60 g (2.1 oz) without batteries
- **Dimensions:** 97 mm x 47 mm x 36 mm (3.8 in x 1.85 in x 1.4 in)
- **Wireless Communication:** Class II Bluetooth transmitter
- **Power Supply:** 3 AA (LR6) batteries
- **Operating Time:** 10 hours continuously
- **LED Indicators:** Transmitter and battery status indicators

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**Fixturlaser XA Pro**

**Cable 3m XA**

**6 pcs Battery LR6 1.5V(AA)**

**USB stick XA**

**Extension Fixture**

**2 pcs Magnetic V-brackets**

**Wireless option Fixturlaser M1**

**Fixturlaser S1**

**Ext. power cable US**

**Battery charger XA**

**Fixturlaser XA Pro**

**MANUAL Fixturlaser XA Pro**

**Manual Fixturlaser XA Pro**

**(FR, RUS, SE, ESP, GB)**

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**ALIGNMENT INTELLIGENCE**

- • BOTH SHAFTS’ POSITIONS MONITORED SIMULTANEOUSLY
- • COMPOUND MOVES = MEASURE ONCE, MOVE IN TWO DIRECTIONS
- • LIVE MEASUREMENT VALUES DURING ADJUSTMENT

**GRASP**

**TRUE POSITION SENSING**

- • 30 MM CCD DETECTOR + LINE LASER = VIRTUALLY ELIMINATES ROUGH ALIGNMENT
- • DIGITAL SIGNAL QUALITY CONTROL → EDGE DETECTION, SIDE SPOT REJECTION, AND AMBIENT LIGHT SUPPRESSION

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**GRAPHIC USER INTERFACE**

- • 3D ANIMATION
- • COLOR CODED RESULT
- • ICON BASED

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