

AT-200

HIGH-PERFORMANCE
SHAFT ALIGNMENT



PREMIUM
PROACTIVE
ENGINEERING

 **acoem**
CREATING ENVIRONMENTS OF POSSIBILITY



AT-200

Enhanced measurement and reporting capabilities with the AT-200 laser shaft alignment tool

The AT-200 shaft alignment solution is the result of almost 40 years of shaft alignment expertise and innovation, leveraging the latest technology to enhance your user experience.

Acoem takes alignment into the world of Industry 4.0 with the AT-200. Integrated apps, patented technology and easy connectivity makes the AT-200 a superior app-based alignment tool.



A complete shaft alignment solution

- Two smart wireless sensors with their accessories
- Task oriented Horizontal & Vertical shaft alignment mobile apps
- Optional Acoem Cloud connectivity with report storage, trending and work order and sharing capabilities with secure communication.

IP65-certified sensors
design that can withstand
harsh environments

Digital sensors with
30 mm detector and
line laser eliminate
rough alignment and
shorten setup time

Thin sensors
suitable for
machines with
limited space

Integrated Bluetooth for
wireless communication
between display unit
and smart sensors



Precision alignment matters

Even the smallest angle of misalignment can drastically reduce the lifespan of rotating machinery by more than 50%. This can be avoided by proactively undertaking precision alignment as part of your maintenance program. Proper alignment practices not only help reduce downtime but also improve productivity.

- Avoid unexpected failures which can causing complete process shutdowns or safety incidents
- Eliminate the root cause of 50% of bearing failures
- Extend the lifetime of your assets and reduce the total costs of ownership
- Reduce energy consumption by up to 10%.



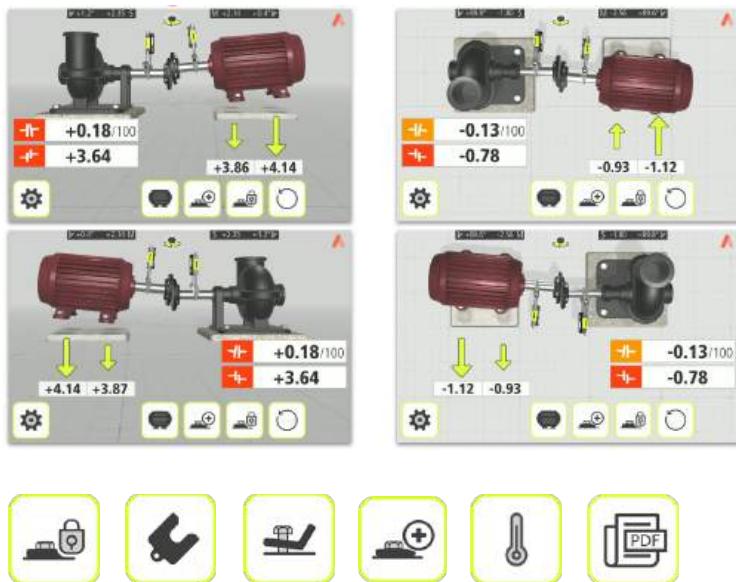
The high precision of digital laser technology not only saves you time and money on your shaft alignment, but it also removes human error, extends the life of your machinery and enhances operational performance.”

GuideU™

Intuitive 3D graphical user interface

GuideU™ is the next generation alignment 3D graphical user interface – our patented, customisable, icon-driven and color-coded display system makes measuring, aligning, documenting and reporting on each job simple.

GuideU™ delivers precise measurement, 3-D transitions in alignment view and correction values by minimising the risk of human errors, guiding the operator through the process using visual, logical and easy-to-follow steps.



Alignment intelligence

Exceptional measurement accuracy

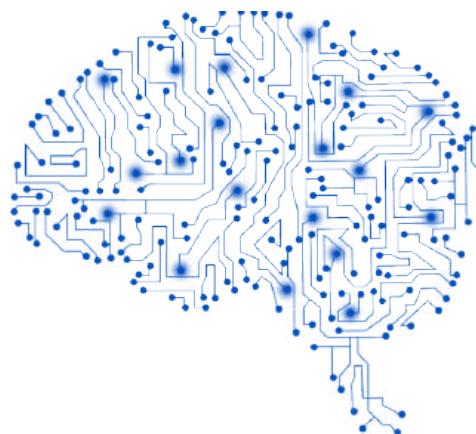
AT-200 sensors use superior digital CCD technology, giving you unrivalled digital filtering capabilities and making the sensors highly tolerant of detrimental external factors, such as vibration and ambient light.

TrueLive™

Shaft alignment revolutionized

An industry-first technology, it features two smart sensors with laser beams and inclinometers that monitor both shaft positions at the same time.

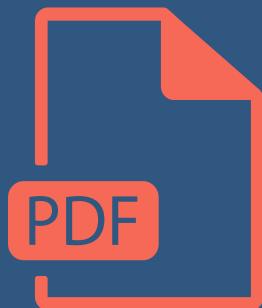
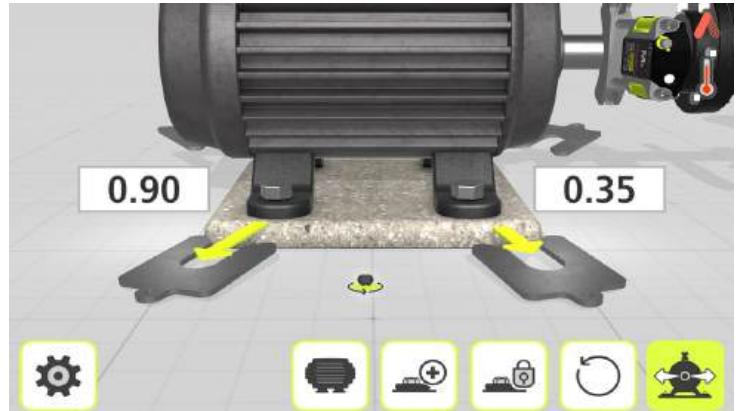
Even if you move the machine's position out of detector range or interrupt the laser beam, the smart sensors will resume with an updated machine position and always deliver live values. TrueLive functionality helps you save time when aligning your machinery.



VertiZontal™

Reduce alignment time

VertiZontal™ adaptive user interface automatically indicates exactly how much you need to adjust your misaligned machine by adding or removing shims to the machine's feet. This removes the need to remeasure between the vertical and the horizontal phases to correct the horizontal misalignment. This industry-first function saves time and ensures accuracy with every measurement.



PDF report

Simplify your reporting process

The Acoem shaft alignment apps' PDF report function provides fast and efficient on-site reporting functionality that converts saved measurement reports into PDF files, that can be shared instantly from your mobile device.

Machine templates

Use the templates to select your stationary machine

The configuration screen allows you to select the color and type of the stationary machine. Select undefined machine, centrifugal compressor, alternator, lobe compressor, blower, fan, gear box or pump.



Augmented mechanics ecosystem

The ultimate solution for proactive & predictive maintenance

The Horizontal and Vertical shaft alignment apps are part of Acoem's Augmented Mechanics Ecosystem, the first truly flexible and scalable solution for combining different technologies on the same mobile platform to deliver reliable and precise proactive and predictive maintenance for industrial machinery.

Designed to allow you to continually add to or upgrade as new technologies become available, or as your specific needs change over time, the Ecosystem is made up of a combination of mobile applications, connected wireless sensors.

In addition to the horizontal and vertical shaft alignment apps, the Ecosystem currently features additional applications:



Bearing
Defender



Pre-Alignment



Machine
Defender

Add the power of thermography



We have integrated a thermographic option to provide visual proof of the efficiency of your shaft alignment actions.

A new environment of possibilities

- Total control over your machinery's proactive & predictive maintenance
- Accessible via any enabled device – tablet, smartphone, laptop etc.
- Upgradable, customisable & scalable based on your needs
- Links vibration & alignment data to optimise maintenance process
- Share information instantaneously among your teams
- Benefit of insightful product - training videos & Acoem technical support
- Optional Acoem Cloud connectivity with report storage, trending and work order management





Technical specification

Sensors M7/S7

Dust and water resistance	IP65
Operating temperature	-10°C - 50°C
Measuring distance	Up to 10 meters
Sensor	2nd gen. Scientific grade CCD
Sensor resolution	1µm
Measurement accuracy	± 0,7µm + 0,3%
Inclinometer	Dual High Performance MEMS
Inclinometer resolution	0,01°
Inclinometer accuracy	±0,2°
Measurement accuracy	0,3 % ± 7 µm
Gyroscope	6-Axis MEMS Inertial Motion Sensor with drift compensation and automatic field calibration
Gyroscope accuracy	±1 °

Handheld Algiz RT8 tablet (OPTIONAL)

Dust and water resistance	IP67
Operating temperature	-20°C - 60°C, MIL-STD-810G
Drop/Shock	26 drops from 1,2m, MIL-STD-810G
Vibration	MIL-STD-810G
Display	8», 1920x1200, Glove/Rain mode, Corning® Gorilla® Glass
Processor	Qualcomm® Snapdragon 625 MSM8953, 8 cores 2.0 GHz
RAM and storage	4GB / 64GB
Operating system	Android 11
Battery	3,8V, 8200 mAh, field replaceable
Camera	Rear: 13 Mpixel autofocus and flash, Front: 5 Mpixel



About Acoem

At Acoem, we create environments of possibility — helping organisations find the right balance between progress and preservation — safeguarding businesses and assets, and maximising opportunities while conserving the planet's resources. We deliver unrivalled, interoperable AI-powered sensors and ecosystems that empower our customers to make enlightened decisions based on accurate information.

Together with 150 distributors, our 800+ employees work across 27 offices, 5 manufacturing facilities and 3 R&D centres in 11 countries, to provide trusted, holistic data solutions for customers worldwide.

Acoem links possibilities with protection.

For more information visit acoem.com/fixturlaser.com



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CONTACT

+964 783 320 2333
info@ppe-iq.com