

Acoem's tools optimize machine performance through precision monitoring.

Acoem EXO

Shaft Alignment in Hazardous Areas



Acoem EXO shaft Alignment

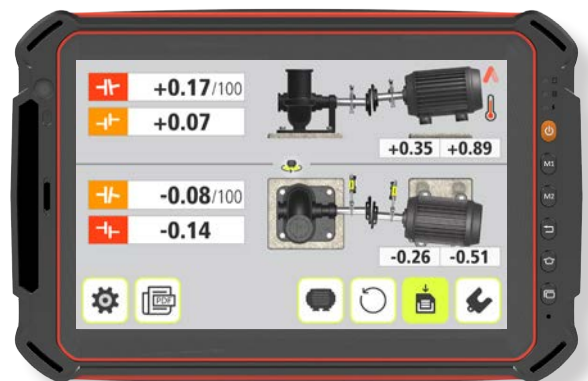
The ACOEM EXO stands for precision and safety in every detail. Fully ATEX/IECEX-certified, both its smart sensors and rugged display unit are engineered for flawless performance in hazardous areas. Combining accuracy, reliability, and ease of use, the EXO gives maintenance teams the confidence to align machines safely and efficiently – every time.



Acoem EXO Sensors S4/M4

The ACOEM EXO sensors are **ultra-thin, intrinsically safe, and built for precise shaft alignment in hazardous areas.** With high-resolution **digital detectors**, dual inclinometers, and advanced **signal processing**, they ensure **accurate, stable readings even in harsh conditions.** Wireless communication and IP65 protection make them both smart and durable.

- Sensor dimensions: 92 x 77 x 33 mm
- Weight: 220 g (M4 Ex), 190 g (S4 Ex)
- Measurement distance: Up to 5 m
- Detector: 2nd gen digital with 30 mm length
- Resolution: 1 μm , accuracy $\pm 0.3\%$ $\pm 7 \mu\text{m}$
- Laser: 650 nm, class II diode, <1 mW
- Dual inclinometers: 0.01° resolution, $\pm 0.2^\circ$ accuracy
- Protection class: IP65 (dust-tight, protected against water jets)
- Battery: 12 hours operation, 5 hours full charge
- Wireless: Integrated Bluetooth, 10 m range



Acoem EXO DU

The ACOEM EXO display unit is a rugged, ATEX/IECEX-certified tablet with an 8-inch touchscreen, wireless connectivity, and IP68 protection. Running our GuideU™ interface, it provides clear, step-by-step guidance for precise alignment in hazardous areas.

8" high-brightness touchscreen for clear visibility in all lighting conditions

ATEX/IECEX Zone 2 certified for safe operation in hazardous environments

Wireless communication via Bluetooth and Wi-Fi

Rugged IP68 design – dust and waterproof for demanding industrial use

Long-lasting battery for a full day of continuous operation

Measurement Programs



Horizontal Shaft Alignment

Determine and correct the relative position of two horizontally mounted machines that are connected, so that the rotational centers of the shafts are collinear.



Vertical Shaft Alignment

Determine and correct the relative position of two vertically/flange mounted machines that are connected, so that the rotational centers of the shafts are collinear.



Machine Train™ Alignment

Align multiple connected rotating machines in a series with precision and efficiency.

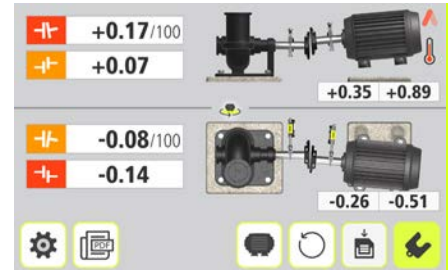
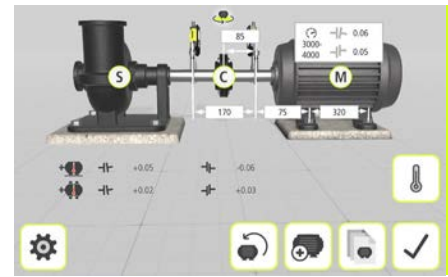


PDF Report Generator

Easily create comprehensive reports by accessing and combining saved measurements from multiple alignment apps on your tablet

Lifetime Warranty

Experience true peace of mind with Acoem EXO – backed by our lifetime warranty. Acoem's commitment reflects the strength and reliability built into every alignment system.



Vital functions



Effortlessly navigate through our user-friendly interface, **GuideU™**, designed to make it a breeze to follow and understand.



Get the position of both the shafts in real time with Acoem **True Live™** feature.



Cloud Connectivity

The Acoem EXO, with cloud connectivity, enables users to easily send alignment reports to Acoem's web portal for efficient data management and analysis. Technicians can quickly dispatch reports with just one touch, streamlining their documentation process.

Strong and powerful features.



Get better automatic guidance for a base-bound or bolt-bound situation with the **FeetLock™** function



Align machines in horizontal and vertical direction in only one move with Acoem **Vertizental™** feature and save time



The **Multiple Feet function** is useful for machines with more than two pairs of feet to ensure proper alignment.



Target Values Compensates for thermal growth by applying preset expansion data, ensuring precise alignment at operating temperature.



Spacer Shaft Alignment This program guides alignment for spacer shaft-driven machines (or those using membrane couplings).



SoftCheck™ Check if there is a soft foot condition to verify if the motor is not resting firmly on all its feet.



Hot Check™ Target values obtained by measuring in cold condition and then in hot condition to determine the machine's thermal expansion.



Offset/Cardan provides you with shaft alignment of horizontally and vertically mounted machines with offset drive shaft.



OL2R measures machine movements between hot and cold conditions, calculates thermal growth and dynamic measurement. (OL2R brackets is needed)



Shim Simulator shows how different shim adjustments affect coupling errors.

Explosion Protection – ATEX Zone 2

Certified for use in explosive environments

Acoem EXO complies with ATEX Directive 2014/34/EU and is classified as:

Ex] II 3 G Ex ic op is IIC T4 Gc (0°C ≤ Ta ≤ 50°C)

The tablet and our system have slightly different certifications. Both are approved for use in Zone 2 environments.

Tablet

ATEX approval: EX-Zone 2
II 3G Ex ic IIC T4 Gc IP64

IECEX approval: EX-Zone 2
Ex ic IIC T4 Gc IP64

Our system

ATEX approval: EX-Zone 2
II 3G Ex ic op is IIC T4 Gc, 0°C ≤ Ta ≤ 50 °C

IECEX approval: EX-Zone 2
Ex ic op is IIC T4 Gc, 0°C ≤ Ta ≤ 50 °C



Here's what you'll find in the case

- Tablet EXO
- Sensor M4 Ex / S4 Ex
- Rod kit
- 2 pcs. Chain 8 mm 60 links (L=970 mm)
- 2 pcs.V-bracket complete Ex
- 2 pcs. Angled universal tool
- Ext power cable EUR 2m
- Ext power cable US 2m
- Tape measure 3 m / 10 feet Ex
- 2 pcs. USB-cable A-mini B 2 m
- Power supply 5



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CREATING ENVIRONMENTS OF POSSIBILITY

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COMPLIES WITH 21 CFR 1040.10 AND 1040.11 EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE No. 50, DATED JUNE 24, 2007

