



Acoem AT-400

Dual precision at every turn

Innovative and groundbreaking, the 2-axis shaft alignment tool redefines the standards of precision and efficiency in alignment procedures.

Unleash productivity and efficiency with advanced sensors and precise 2-axis measurement, delivering superior results across diverse applications.

Intuitive and user-friendly interface for simplified navigation and an enhanced user experience.

Maximize machinery performance with our 2-axis shaft alignment tool. Achieve precise alignment, minimize vibration, and extend equipment lifespan



Easily verify the presence of soft foot with the **SoftCheck™** feature to make a reliable alignment



Easily manage thermal growth with **Target values**



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



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



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



The spacer shaft function is used when the alignment is performed on machinery using membrane coupling.



The large detector features a 20x20 mm² size and offers a high-resolution of 0.001 mm, making it ideal for precise position sensing and different measurement applications.



Introducing the market's thinnest 2-axis sensor, weighing 306 g. With a 20-meter measurement range, it revolutionizes precision applications with its compact design and exceptional accuracy.



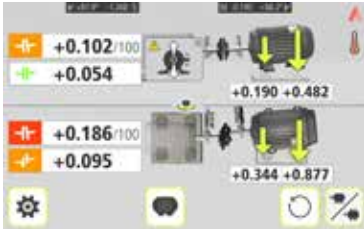
Our ACOEM AT-400 premium product is packed with helpful features.



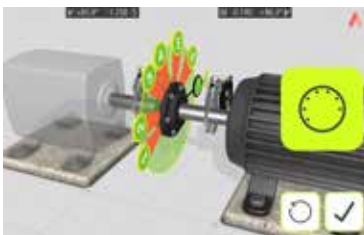
Effortlessly navigate through our user-friendly interface, **GuideU™**, designed to make it a breeze to follow and understand.



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



DUAL VIEW for large machines, enabling real-time alignment visualization in both horizontal and vertical directions simultaneously.



Instantly generate an automatic **PDF report** from the field on the mobile device, and add logo



Take pictures of your machines and setup to illustrate automatically in the report

Packaging & Deliverables

Each ACOEM AT-400 D is delivered with the following package:

- Acoem M9
- Acoem S9
- Acoem AT DU
- Rod kit
- Magnetic base ON-OFF
- Extension fixture 49mm
- Chain 8 mm 60 links (L=970 mm)
- Power supply 4 USB-ports 5 VDC
- Magnetic v-bracket 2
- Tape measure 5 m
- Acoem usb
- V-bracket complete 2
- Angled universal tool 2
- USB-cable A-mini B 2m
- Quick Guide AT



Specifications

Hardware Type	M9 1-1216, S9 1-1217
Physical	
Housing Material	Anodized Aluminum frame and high impact ABS plastic
Weight	M9: 306 g (10,8 oz) S9: 306 g (10,8 oz)
Dimensions	TD9: 100mm x 77,3mm x 43mm (3,9 in x 3,0 in x 1,7 in)
Environment	
Operating Temp	-10 to 50 °C (14 to 122 °F)
Storage Temp	-20 to 70 °C (-4 to 158 °F)
Long term storage Temp	18 to 28 °C (64 to 82 °F)
Room Temp	
Battery Charging Temp	0 to 40 °C (32 to 104 °F)
Relative humidity	10 - 90%
Environmental protection	IP65 (Dust tight and protected against water jets)
Sensing technology	
Laser	650 nm class II diode laser
Laser power	< 1 mW
Measurement distance	63 mm to 20 m (65 feet)
Detector	2-axis PSD
Detector size	20 mm x 20 mm (0,79 in x 0,79 in)
Detector resolution	1 µm
Measurement accuracy	1% ± 3 µm
Signal processing	Digital signal processing with sidespot rejection, edge detection, ambient light elimination and anti-vibration mode
Ambient light protection	Optical filtering and ambient light signal rejection
Inclinometer	Dual High Performance MEMS inclinometers
Inclinometer resolution	0,01 °
Inclinometer accuracy	±0,1 °
Gyroscope	6-Axis MEMS Inertial Motion Sensor with drift compensation and automatic field calibration
Gyroscope accuracy	±1 °
Battery	
Type	High performance Li Ion rechargeable battery or external power
Operating time	8 hours continuous use (measuring)
Charging	8 h
LED indicators	Unit state, laser transmission and 5 battery status indicators with instant battery check

Specifications

Communication

Wireless communication Bluetooth low energy (Bluetooth 5)

Communication range 10 m (33 ft)

Connectors 1 USB Mini port (IP67)

ACOEM alignment display

A sunlight-readable, 8-inch capacitive multi-touch display with super-hardened Gorilla Glass, plus rain and glove mode. IP67 ruggedness rating (including the ports) for fully waterproof and dust-tight performance. Wide operating temperatures of -20°C to 60°C (-4°F to 140°F).

Select your package

ACOEM AT-400 D

Acoem alignment display with acoem home included

ACOEM Home is an offline software on ACOEM DU, transferring data via USB, providing secure functions and apps.

ACOEM AT-400 T

Tablet display included

Our system features a Wi-Fi enabled tablet capable of sharing reports and receiving app updates seamlessly.

ACOEM AT-400

Tablet Display unit not included.

ACOEM AT-400 ultimate

ACOEM AT-400/D/T + ACOEM T21 . Add capability to measure rectangular flatness. Use the M9 sensor as receiver.



Centralize and share your reports with your team, consolidate your plant's alignment status, and assign alignment workorders to team members.



Available on the



www.acoem.com/en/products/shaft-alignment-tools/at-400



acoem
CREATING ENVIRONMENTS OF POSSIBILITY

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