



FIXTURLASER SMC
Automatic Diagnosis of Rotating Equipment



FixturLaser

ACOEM Group

Welcome to our world.

Since the very beginning in 1984, ACOEM AB has helped industries throughout the world to achieve more profitable and sustainable production. We have reached where we are today by having the courage to think beyond the norm and follow slightly unconventional paths. We have had the courage to make mistakes and find new directions. Through our resolve, ambition and knowledge we have become a global player and a leader in innovative, user-friendly shaft alignment.

Fixturlaser SMC

Fixturlaser SMC machinery analyzer offers automatic diagnosis of machine faults, plus a built in camera, pyrometer, stroboscope and wireless tri-axial sensor.

Like no other, the Fixturlaser SMC is a portable, machinery diagnostic tool that allows mechanics and maintenance technicians to check the health of any rotating machine, as needed, in a matter of minutes. It requires no special training or certification and generates straightforward, simple machine diagnostic reports with both confidence and severity levels.



Automatic machine diagnosis - Accurex™

Fixturlaser SMC unique automatic machine diagnostic Accurex™ is built into the Fixturlaser SMC. The patented machine diagnostics feature provides unbeatable fast, relevant and reliable results for a wide range of machine problems such as unbalance, alignment errors, cavitation, structural resonances, bearing problems, and more. Fixturlaser SMC machine diagnostic function differs from all other systems.

Built-in laser pyrometer

Fixturlaser SMC have a built-in laser pyrometer that makes it easy to take the temperature of your machine to verify your diagnosis.

Built-in camera

For easy machine identification, sensor positioning, and report illustration

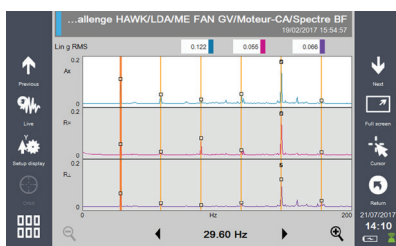
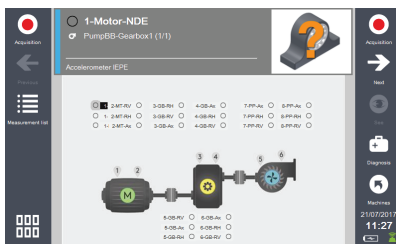
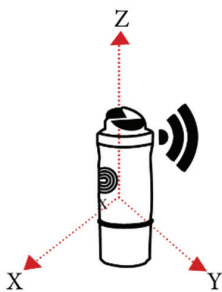
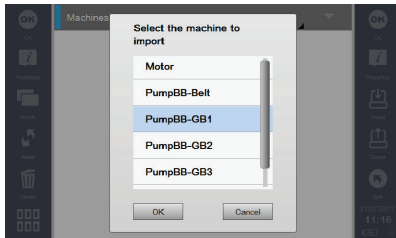
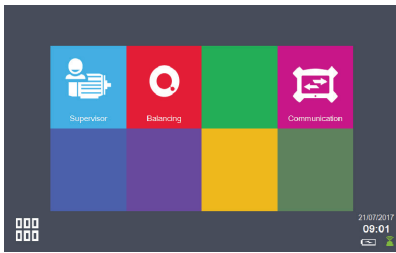
Three-axis wireless sensor

Fixturlaser SMC wireless tri-axial sensor will take readings in the vertical, horizontal and axial direction simultaneously making the measurement process fast and easy

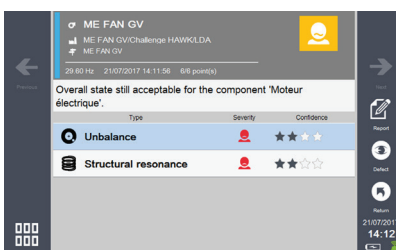
Stroboscope

The built-in stroboscope makes it easy to pinpoint the RPM which is crucial for securing an accurate diagnosis





	NG Vlt Vlt	NG Acc	Facteur Def	Spectre BF	Spectre MF	Spectre HF
	7.01	0.312	2.63	✓	✓	✓
	4.44	0.241	2.68	✓	✓	✓
	3.90	0.207	2.94	DEF	✓	✓



Fast, accurate machinery diagnostics in 3 simple steps.

1. Select the machine you want to diagnose from the device.
2. Take readings at each of the automatically designated points.
3. View the machine diagnostic report to learn what is wrong and what you need to fix.



Good: No action required



Fair: Monitor the evolution



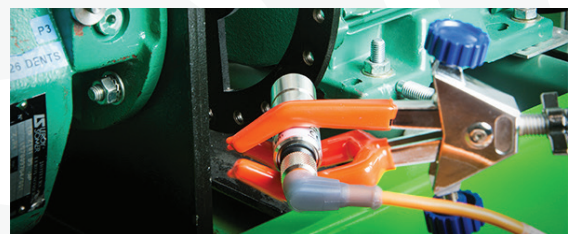
Critical: Schedule corrective action

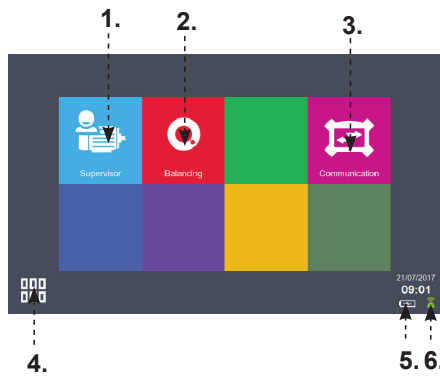
Fixturlaser SMC Balancing

Fixturlaser SMC Balancing is a powerful balancing tool, smart and easy to use. Fixturlaser SMC Balancer guides the user throughout the process and automates all calculations. The user is led through the user-friendly visual interface to define the machine, configure the speed counter, and select test weights.

Following the measurement procedure, the balancing instrument presents the correct correction weights.

Fixturlaser SMC Balancing are available in balances for 1 plane, 2 plane balancing.





1. Start auto diagnostic
2. Start balancing
3. Connect to computer
4. Access to shortcuts (strobelight, pyrometer, camera, screenshots...) and preferences (license, language, type of sensor...)
5. SMC Battery status
6. Wireless sensor connection status.
Note: if no icon appears, you must switch the sensor type from wired to wireless in the settings of the instrument

FIXTURLASER SMC

Display Unit

Dimensions:	200 x 265 x 65 mm 7.87 x 10.4 x 2.56 inches
Weight:	1.2 kg / 2.65 lbs. including battery and rubber protection
Operating Temperature:	-10 ° to 55 ° C / 14° F to 131° F
Humidity:	95% no condensation
Environmental Protection:	IP65
Graphic color touchscreen Resolution:	800 x 480 pixels
Dimension:	7" diagonal (15 x 9 cm / 6 x 3.5 inches)
Battery Life:	10 hours under intense use, High density Li-ion type

Built-in Pyrometer with Laser-Sighting

Built-in Stroboscope

Range:	30 to 15,000 RPM Accurate to 0.1 RPM
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Built-In Camera

What's included: Fixturlaser SMC

1 pcs Fixturlaser SMC DU, 1 pcs Fixturlaser SMC sensor, 1 pcs USB Cable for the wireless sensor (power supply, firmware update), 6 pcs adapter, 1 pcs Fixturlaser SMC power supply, 1 pcs Wireless sensor power supply, 1 pcs Universal tool,



What's included: Fixturlaser SMC Balancer

Laser tachometer with cable for connection on channel C, supplied with a 5m extension cable.

USB cable for connecting the Fixturlaser SMC to a computer (reports)

Magnet holder

2 ASH accelerometers, 2 straight cables for ASH, 2 high-power magnets for ASH



Fixturlaser SMC EX/ Fixturlaser SMC Balancer EX - ATEX Zone II 3 G Ex ic IIC T4Gc

Fixturlaser SMC/ Fixturlaser SMC Balancer is also available as EX system.
Same performance and capabilities as Fixturlaser SMC/SMC Balancer.

ZONE II

Industry where explosive atmosphere, consisting a mixture of air and combustible material in the form of gases, smoke or fog, is likely to be formed sometimes during normal operation.
Mines excluded.



ACOEM AB is a global player and leader in developing innovative, user-friendly equipment for shaft alignment. By helping industries worldwide to become perfectly aligned, and eliminating anything that might not be, we minimize unnecessary wear and production stoppages. This will ultimately make our customers more profitable and our environment more sustainable.



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