



NXA Pro/Ultimate

Shaft Alignment with Geometric Measurements

The name says it all, with the FIXTURLASER NXA Ultimate you have covered any kind of angle of your machinery that needs to be covered; shaft alignment and geometry in one package.

TrueView

You Always Know Your Machine's Position with the Acoem NXA Ultimate The Acoem NXA Ultimate delivers live values during measurement and simultaneous live adjustment, in both vertical and horizontal orientation (X and Y values), during the adjustment process. Measurement results are in micron resolution.

On-Site Evaluation and Report of Results

TOn-site evaluation of measurement results means that you can process saved measurement results in order to choose the best reference. This will result in as few corrections as possible. With the feature Best Fit, you have the option to allow the system to calculate a reference line or plane, which illustrates the best fit, i.e. the least deviation for each measurement point in relation to the reference line or plane that has the least deviation of the measurement points. The PDF report function provides a fast on site reporting available for converting saved measurement reports into PDF files. This eliminates the need to take a laptop PC on site.

More Time Saving Functions



PDF Report

Fast on site reporting available converting saved measurement reports into PDF files. This eliminates the need to take a laptop PC on site.



Memory Manager

Measurements can be organized in folders and subfolders. Single measurements and/or complete data structures can be copied to a USB stick.



Resume Function

A power management feature with an integrated resume function that will automatically save all critical data, when it goes into energy saving mode or if the battery goes flat. It will automatically resume to where you left off, when you turn the system back on again.



Feetlock[™]

Solution to solve base-bound and/or bolt-bound machines.



Express Navigation

When you select which points to measure, you will find that the highlighted measurement point is surrounded by its neighbor points enabling you to choose them without exiting the measurement screen.





2019.06.25 HILLS SITE C-27

V. Van Dijk

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REPORT

Report Date

Machine

Operator:

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Express Mode™ method for handsfree measurements

In the Express Mode method, the alignment condition can be calculated by recording three points while rotating the shafts at least 60°. After recording the I st point, the other points are taken automatically when the shafts are rotated to a new position and are kept in position for more than 2 seconds.



Tripoint TM method

In the Tripoint method, the alignment condition can be calculated by taking three points while rotating the shaft at least 60°. In this method, all points are taken manually.



Clock TM method

In the Clock method, machinery positions are calculated by taking three points with 180° of rotation. The Clock method is useful when comparing the measurement results with traditional alignment methods using dial gauges and reversed rim method. The method can also be used when the machines are standing on non-horizontal foundations or when the shafts are not coupled.



Weight (including standard parts)	7,7 kg (17 lbs)
Dimensions	415 mm x 325 mm x 180 mm (16 in x 13 in x 7 in)

Display Unit

Weight	1,2 kg (2,6 lbs) with battery
Dimensions	224 mm x 158 mm x 49 mm (4,9 in x 6,2 in x 1,9 in)
Environmental protection	IP 65 (Dust tight and protectedagainst water jets)
Display size	6,5" (165 mm) diagonal (133 x 100 mm)
Gyroscope	6-Axis MEMS Inertial Motion Sensor with drift compensation and automatic field calibration
Operating time	10 hours continuous use (with 50% LCD backlight)
Quick battery charging time (system off, room temperature)	1 hour charge – 6 hours operating time

Digital Laser Sensors

Weight	192 g (6,8 oz) with battery
Dimensions	92 mm x 77 mm x 33 mm (3,6 in x 3,0 in x 1,3 in)
Environmental protection	IP 65 (Dust tight and protected against water jets)
Measurement distance	Up to 10 m
Detector	Second generation digital sensor
Detector length	30 mm (1,2 in)
Detector resolution	1 µm
Measurement accuracy	0,3% ± 7 µm
Gyroscope	6-Axis MEMS Inertial Motion Sensor with drift compensation and automatic field calibration
Operating time	17 hours continuous use (measuring)
Inclinometer	Dual high Performance MEMS inclinometers
Inclinometer accuracy	±0,2°
Inclinometer resolution	0,01°

Shaft Brackets

Shaft diameter	Ø 20 – 450 mm (1 in – 6.9 in)
Rods	4 pcs 85 mm and 4 pcs 160 mm (extendable to 245 mm)

R2 Sensor (receiver)

Weight: 172 g (6.7 oz)

Dimensions: 94 x 50 x 44 mm (3.7 x 2.0 x 1.7 in)

Detector: Dual-axis PSD

Detector size: 20 mm x 20 mm (0.8 in x 0.8 in)

Measurement accuracy: 1% ± 3 µm

Inclinometer resolution/accuracy: 0,01°/±0,1°

Communication range 10 m (33 ft)

Operatting time 8 hours

T21 Transmitter

Housing Material: Anodized aluminum

Operating Temp: 0 to 50°C (32 to 122°F)

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

Weight: 1150 g

Laser class: Class 2

Dimensions: 100 x 103 x 109 mm (3.9 x 4.1 x 4.3 in)

Measuring distance: Up to 20 meters (66 feet)

Laser sweep flatness: ±0,02 mm/m

Angular prism accuracy: ±0,02 mm/m

Power supply: 2 batteries type LR6

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Operating time: 15 hours continuously
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Display unit | 2 pcs of digital smart sensors | 2 pcs of complete V-brackets | 2 pcs of magnetic V-brackets 2 pcs of chains 8 mm 60 links | Rod kit | Extension fixture, 49 mm | Magnetic base | Tape measure 5 m 2 pcs of angled universal tools | USB stick | Charger for display unit and sensors

The Acoem NXA Ultimate Package



Display unit | 2 pcs of digital smart sensors | 2 pcs of complete V-brackets | 2 pcs of magnetic V-brackets 2 pcs of chains 8 mm 60 links | Rod kit | Extension fixture, 49 mm | Magnetic base | R2 sensor/receiver Turnable sensor holder on magnetic base | T21 transmitter with mounting magnet | USB stick 2 pcs of angled tools | Charger for display unit and sensors | Tape measure 5 m



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