EASY-LASER®
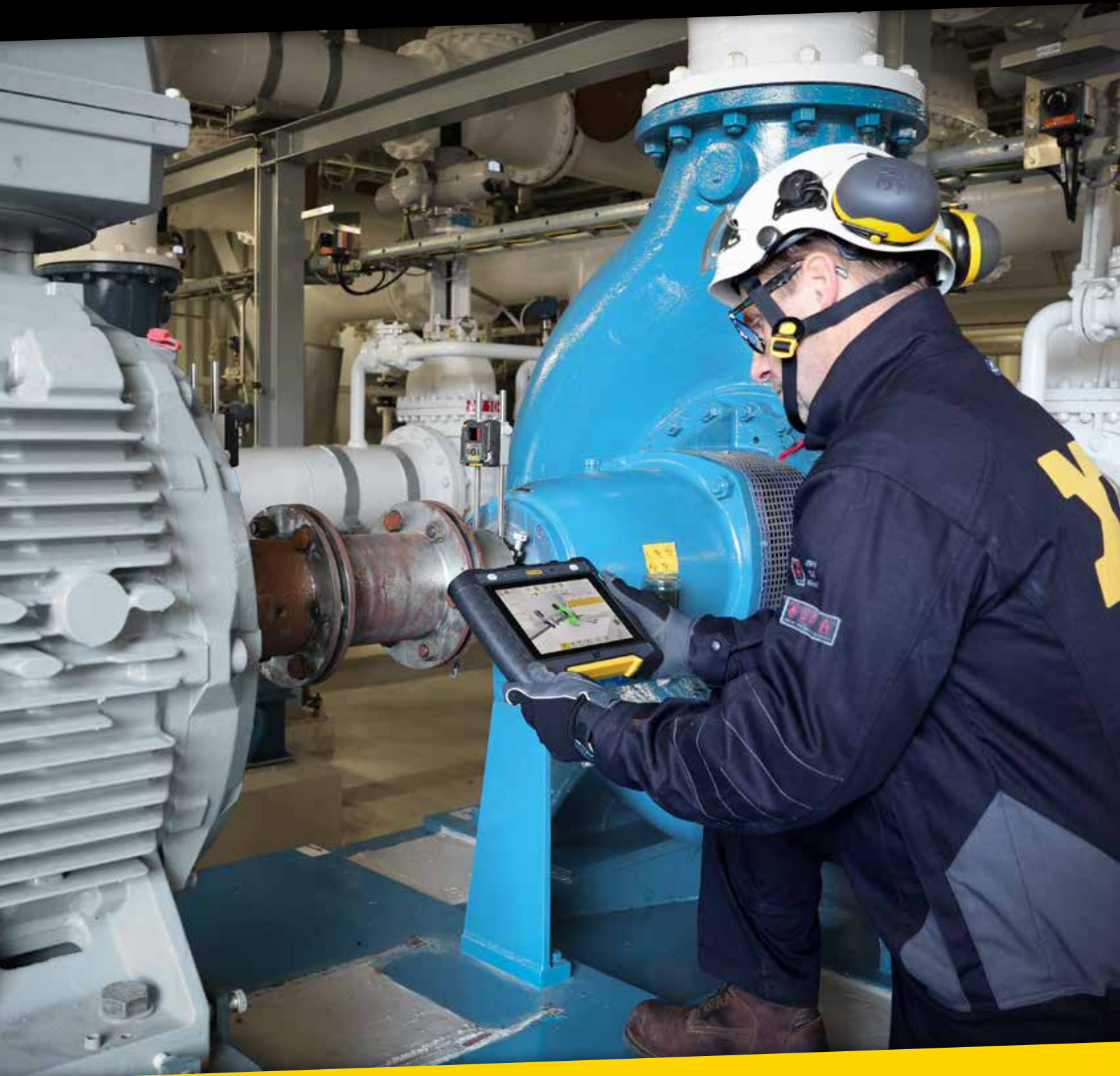

Alignment system for all important
steps of machine installation.

Shaft Alignment

XT660

IP66
IP67

CLOUD
CONNECTED

MEASUREMENT INDEPENDENCE

EASY-LASER® GENERATION XT

Easy-Laser® XT660 is built upon our groundbreaking cross-platform technology. You can now display the data on a multitude of different handheld devices, giving you the freedom to work with the gear that suits you the best. Simply download our straightforward XT application for free and you have all the measurement programs you need.

SAME INTERFACE

The XT app interface and basic functionality is identical for all levels of Generation XT systems. Easy to learn and use!

NO LICENSE HASSLE

Your Generation XT measuring units determine what functions are available. No hassle with licenses, just connect the units to the app, on any of your display devices, and start measuring. That is straightforward!
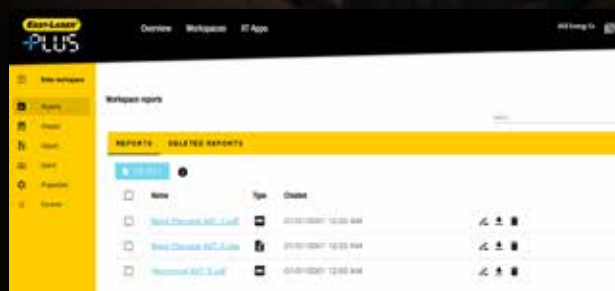
EASY-LASER PLUS™ IS OUR CLOUD SOLUTION WHERE YOU:

- Collaborate with your maintenance team on job assignments.
- Collect all your team's measurement data in one place for quick overview and analysis.
- Copy your measurement data to a new device if your tablet is lost or damaged.
- Restore accidentally deleted files on your tablet.
- Receive information about the latest software updates.

Simply put, Easy-Laser PLUS™ is your hub for the team's measurement jobs and extra security for your data.

Get it now! Go to easylaser.plus

HIGHLIGHTS

MAXIMUM FLEXIBILITY

ALL XT PROGRAMS IN ONE FREE APP
All XT measurement programs included in one straightforward application available for free.

DISPLAY DATA ON MULTIPLE PLATFORMS
Functionality for iOS, Android and Easy-Laser® XT display units.

NO LOCK-INS
Buy with or without the new user-friendly Easy-Laser® display unit.

MAXIMUM FLEXIBILITY
Combine several measuring units with the display unit of your choice, or use different display units with one set of measuring units.
No license hassle!

RUGGED DESIGN
The XT products are rugged, rated both IP66 and IP67 water and dust proof. For superior durability in harsh environments.

LONG OPERATING TIMES
The long operating times of up to 16 hours for the display unit and 24 hours for the measuring units means you will now be able to take on and finish the toughest jobs.

SEND THE REPORTS
Share the reports via email. Possible on all platforms.
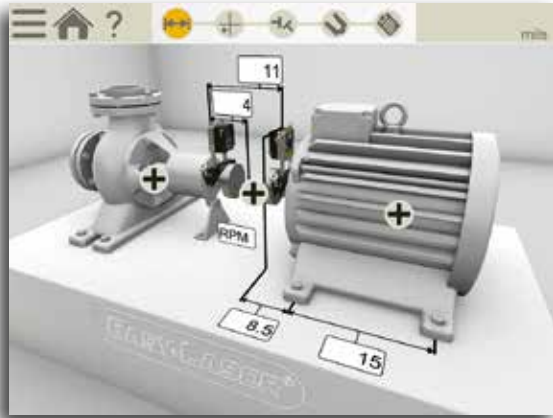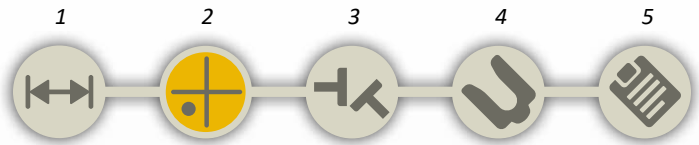
THIS IS EASY ALIGNMENT

HORIZONTAL PROGRAM

The user interface is intuitive and guides you through the measurement process. You can save the measurements of a machine for *As found* and *As left* in the same file.

The interactive workflow indicator lets you easily jump to any part in the measurement process.

1   2   3   4   5

1. Enter dimensions

2. Measure

3. View result, As found
4. Adjust, As left

5. Documentation
(Send PDF report to USB or by WiFi)

Soft Foot check on both machines.

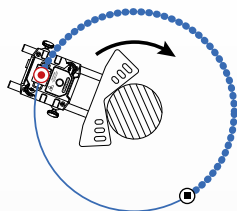*Tolerance check. Pre-set or custom.*

Quality check view for measurements
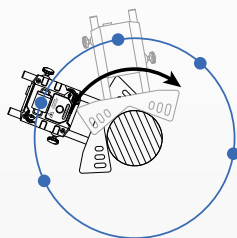
MEASUREMENT METHODS

● Measuring points

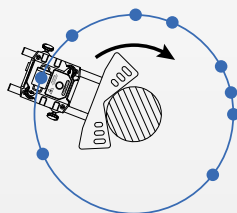◉ Start recording

◼ Stop recording

CONTINUOUS SWEEP
Automatic recording of measurement values during continuous sweeping of the shafts. Hundreds of points are registered. You can start and stop anywhere on the turn.
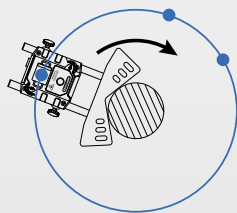
UNCOUPLED SWEEP
Rotate one shaft/unit at a time to pass with the beam over the other (stationary). Repeat alternately until enough measurement points are recorded. You can start and stop anywhere on the turn.
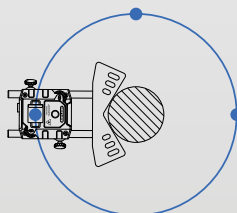
MULTI POINT
Multi point is basically the same as EasyTurn™, but instead you can record multiple points on the sector rotated. This will provide an optimized calculation basis. Perfect for e.g. turbine and sliding bearing applications.

EASYTURN
The EasyTurn™ function allows you to begin the measurement process from anywhere on the turn. You can turn the shaft to any three positions to register the measurement values.

9-12-3
Measurement points are recorded at fixed points 9, 12 and 3 o'clock. Useful for shafts oriented vertically or wall-mounted machines.

SMART FUNCTIONS

THERMAL GROWTH
Automatically compensate for thermal expansion of the machines.

SWAP VIEW
Understand adjustment directions more intuitively.

CONTINUE SESSION
Your latest measurement is always available, automatically saved.

TEMPLATES
Save measurement files as templates, with machine data and settings, to quickly start measurements.

MEASUREMENT VALUE FILTER
Improve readings when measuring conditions are poor.

MULTIPLE SETS OF FEET
Align machines with more than two pairs of feet.

LOCKED FEET
Lock any pair of feet on the machine. Used when aligning base-bound or bolt-bound machines.

WIDE LIVE ADJUSTMENT
Adjust with live values using expanded sensor position ranges in the H and V position

SELECT MACHINE IMAGE
Choose from different 3D machines to portray your machinery on either side of coupling.

SELECT COUPLING TYPE
Choose measurement method depending on coupling type: short flex, spacer shaft.
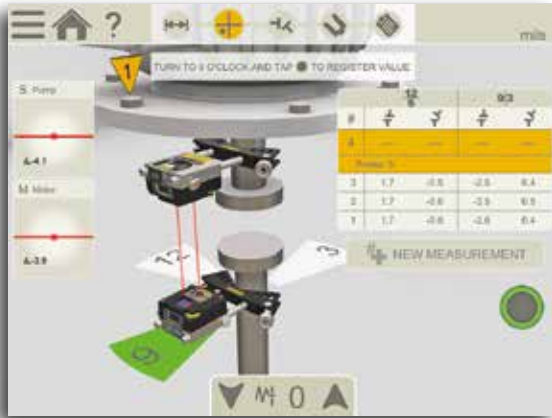
BUILT-IN HELP
The app includes a searchable *Users Manual* which opens the relevant chapter depending where in the process you are. This makes it quick and easy to find the answers to your questions.
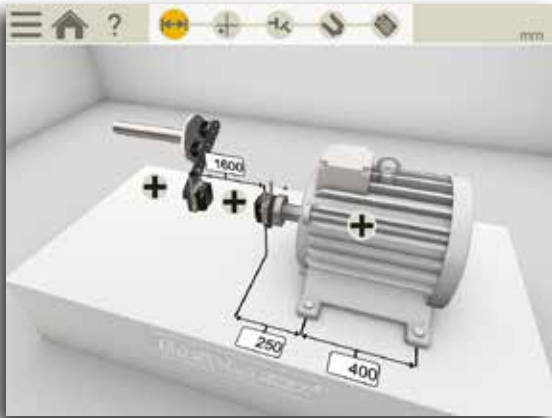
XT660

MORE POSSIBILITIES

VERTICAL/FLANGE MOUNTED MACHINES

For measurement and alignment of vertically and flange mounted machines.

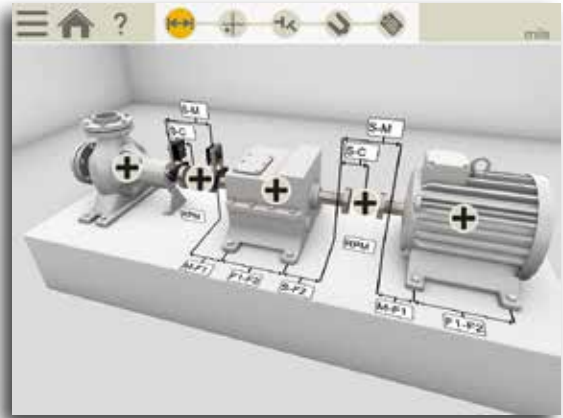### CARDAN/OFFSET MOUNTED MACHINES

For alignment of cardan/offset mounted machinery. (Requires additional Cardan bracket Kit.)

TWIST MEASUREMENT OF MACHINE BASE

The twist measurement program allows you to check the flatness or twist of the machine foundation using only the measuring units in the system.
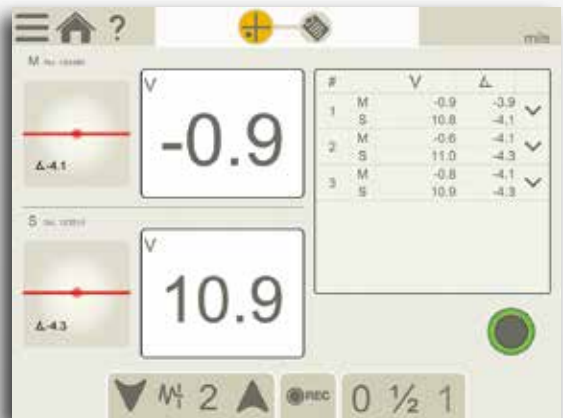

3-MACHINE TRAIN

For alignment of three to each other coupled machines (2 couplings). You can pick the reference machine manually, or let the program choose one that will minimize the need for adjustments.

- The easiest and most intuitive machine train interface available.

- See the complete picture of the machine train alignment to quickly determine corrections.

- Instantaneous live movement of your machines during corrections.

VALUES – DIGITAL DIAL INDICATOR

With the Values program you measure as with dial gauges, but with laser precision and the capability to document the measurement result. Automatic recording is possible (set the interval and duration). You can make individual notes for each measurement point.

CHECK BEARING CLEARANCE etc.

With the Values program you can check bearing clearance or shaft load.

DOCUMENTATION

SAVE!

INTERNAL MEMORY
Save your measurement files, photos and reports to the internal memory.

VERSATILE FILE TYPES
.pdf .xls
Both a PDF and an Excel file are generated.

READ QR AND BAR CODES
Assign a specific code to a specific machine, then use the built-in camera of your device to open assigned file and settings.
(Note: camera resolution requirements applicable.)

SHOW!

CUSTOM PDF REPORT TEMPLATES
Use one of the two formats included.

ADD NOTES
Add additional details so they appear in the alignment report.

SIGN REPORTS ELECTRONICALLY
Sign-on screen to verify your job.
Signature is saved with the PDF file.

ADD PHOTO
Show what you mean.

ADD THERMAL IMAGE
See the difference after alignment.
(Available only with XT12 Part No. 12-1292)

SHARE!

SEND THE REPORTS
Share the reports via WIFI email.
Possible on all platforms.

SAVE TO USB
Save your files to USB stick and copy to other devices.

SYSTEM PARTS

XT12 DISPLAY UNIT

Rugged, robust, industrial grade tablet with wear resistant rubberized protective coating. IP66 and 67, dust- water- and shockproof. As standard a 13 MP camera for documentation is built-in, but you can also choose a model with IR camera added. With this you can shoot a thermal image before and after alignment and include with the documentation!

A large 8", glove-enabled touch-screen makes the information clear and the app easy to use. You can check battery status also when the unit is turned off. Fastening points for shoulder strap (included). Heavy-duty battery for very long operating times; up to 16 hours.

GLOVE-ENABLED TOUCH SCREEN
Navigate the screen with or without work gloves.

FLIR® IR CAMERA (A)
Shoot a thermal image before and after alignment and include with the documentation! (Optional)

13 MP CAMERA (B)
Take pictures to identify your machines and include with your report.
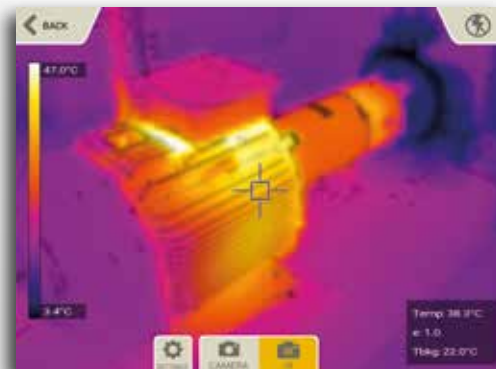
LED LIGHT (C)
Light up the work area when ambient light is not enough.

HDMI VIDEO OUTPUT
Interface with an external video display — ideal to train or present to large groups.

XT60-M/S MEASURING UNITS

The XT60 measuring units have dot-type laser and 1-axis square PSD surfaces. A state-of-the-art OLED display shows the angle of the unit, making it easier to position it on the shaft.

The diagonally positioned locking knobs securely lock the unit on the rods. Rigid aluminum housing provide maximum stability. IP66 and 67, dust- water- and shockproof. Built-in wireless technology.

SHAFT BRACKET

The V-bracket is light yet rigid, with two rods for maximum stability in all directions. Pre-mounted chain for quick setup on the machine.

LONG OPERATING TIMES
Heavy-duty battery for very long operating times; up to 24 hours.

DOT-TYPE LASER TECHNOLOGY
The dot laser technology makes it possible to measure larger machines and longer spans than line laser systems. It also provides higher accuracy when backlash in the coupling is present. In addition, dot laser allows you to check more things when installing a machine, e.g. twist of foundation and bearing clearance.

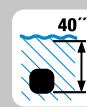**DUAL LASERS, PSD, INCLINOMETERS**
With electronic inclinometers in both measuring units the system knows exactly how they are positioned. This also makes it very easy to align uncoupled shafts. The so called reversed measurement method with two laser beams and two PSD makes it possible to also measure very misaligned machines. This is particularly good for new installations, where the machines are not yet in the correct position. Compared to many other methods, the Dual Technology will retain the measurement accuracy also when distances increase.

RUGGED DESIGN

IP66 AND IP67 APPROVED
Easy-Laser® XT measuring units and display unit are waterproof, dustproof and shockproof. The units have been tested and approved to an Ingress Protection rating of IP66 and IP67, which means that they are dustproof and waterproof to a depth of 1 meter, and also protected against powerful water jets.

120″ 26 gal/min 3 min 40″ 30 min
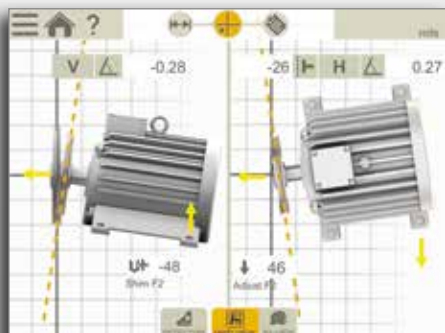
BELT ALIGNMENT TOOL

FOR PULLEY ALIGNMENT

With the Belt alignment tool XT190 BTA you can align most types of radially mounted drives. The transmitter and detector attach magnetically to the sheave edge. A digital display unit gives the advantage of checking against belt manufacturer tolerances.

When connected to the *XT Alignment App* on your iOS or Android device*, or the XT12, you can also read off the alignment "live" at the position on the machine where the actual alignment is made. You get adjustment values for both horizontal and vertical direction (shim value), resulting in a more accurate alignment in a shorter time.

The XT190 is the perfect addition to your XT660 system, but you can also use it as a separate tool, with or without a separate display device.


```
0.15  ¨
0.35  °H
0.45  °V
```

OLED display on detector unit.
Live values.

SYSTEM XT190 BTA, PART NO. 12-1053

Align machine in live mode, document result with PDF.
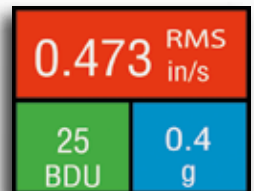*(XT Alignment app Belt application.)*

VIBROMETER TOOL

FOR QUICK VIBRATION ANALYSIS

Easy-to-use vibration analyzer that quickly diagnoses vibration level, unbalance, misalignment and looseness. The direct readout of 1×, 2×, 3× RPM, total level as well as bearing condition provide necessary information during installation and alignment.

The XT280 connects to the *XT Alignment App*, making it possible to document the result as PDF.
Note: On left picture accessory magnet probe is used.

SYSTEM XT280 VIB PART NO. 12-1090

Register values with notes for each point, add photo of machine, document result with PDF.

Display on vibrometer unit. Live values.

PRECISION LEVEL

FOR GENERAL MACHINERY SET-UP

XT290 Digital Precision Level is the must-have addition to your shaft system. Installing machinery level is very often a requirement for them to work as intended. Use the XT290 as a separate tool, or with the *XT Alignment App*. When connected to the *XT Alignment App* on your iOS or Android device, or the XT12 display unit, you can read off the alignment "live" at the position on the machine where the actual alignment is made, and make PDF reports.

Align in live mode, document result with PDF. (XT Alignment app Values/Level application.)

Display on Precision Level unit. Live values and graphics.

SYSTEM XT290 LEVEL PART NO. 12-1244

EASY-LASER® GENERATION XT

The age of measurement independence is here!

GET IT ON
Google Play

Android

RUN IT ON
EASY-LASER® XT 11 12

Download on the
App Store

iOS

XT12

XT70

XT60

XT40

NO LOCK-INS
With Generation XT you decide if you want the rugged and user-friendly Easy-Laser® XT12 display unit to be included or not. The app also runs on your iOS or Android device*, be it a tablet or a phone, meaning you are never locked in to a specific way of working.

SAME INTERFACE
Purchase multiple systems with various capabilities, train once! The training costs are minimized significantly since the app interface and basic functionality is identical for all systems.

*Conditions apply

LUDECA
Keep it running.

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LASER 2

ISO 9001 CERTIFIED COMPANY

3 YEAR WARRANTY

GLOBAL SUPPORT