EASY-LASER®

XT770

Know your machine from every angle.

Shaft Alignment

XT770

IP66
IP67

CLOUD
CONNECTED

MEASUREMENT INDEPENDENCE

EASY-LASER® GENERATION XT

Easy-Laser® XT770 is the most powerful of our Generation XT shaft alignment systems. Built upon our groundbreaking cross-platform technology, it gives you the freedom to work with the display unit that suits you and the job 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!

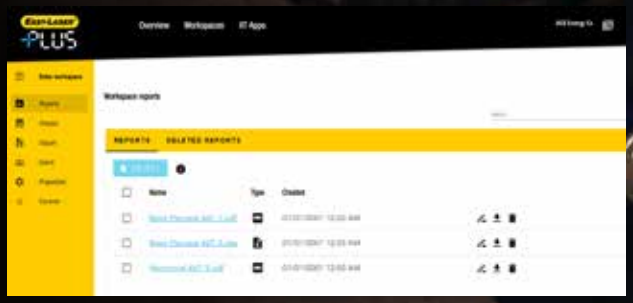
EASY-LASER PLUS™ IS OUR CLOUD SOLUTION WHERE YOU:

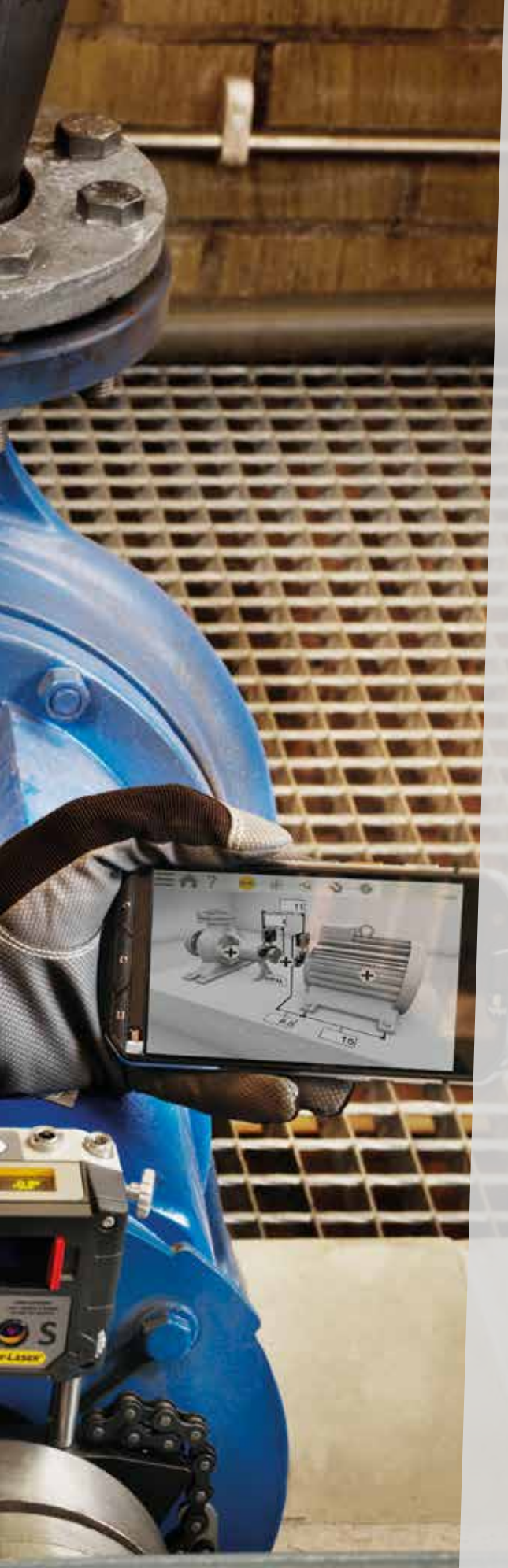
- Collaborate with your maintenance team on job assignments.
- Collect all your team's measurement data in one place for quick overview and analysis.
- Copy your measurement data to a new device if your tablet is lost or damaged.
- Restore accidentally deleted files on your tablet.
- Receive information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

EASY-LASER® PLUS™





(Note: Photo shows XT60 measuring unit.)

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.

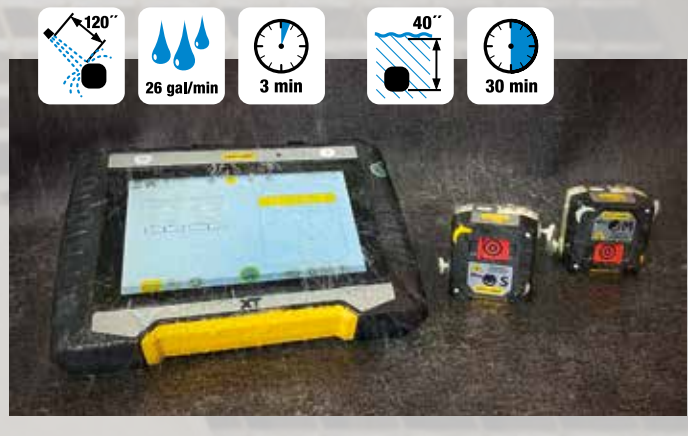
NO LOCK-INS
Buy with or without the new user-friendly Easy-Laser® display unit.

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!

LONG OPERATING TIMES
The long operating times of up to 16 hours for the display unit and 24 hours for the measuring units mean even the toughest jobs will be finished on time with no interruptions.

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

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



IP66 and IP67 rated units

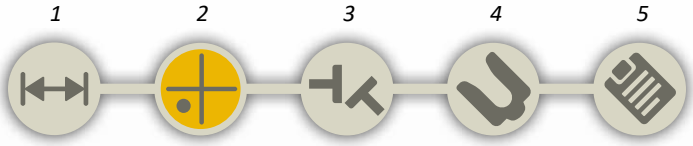
XT770

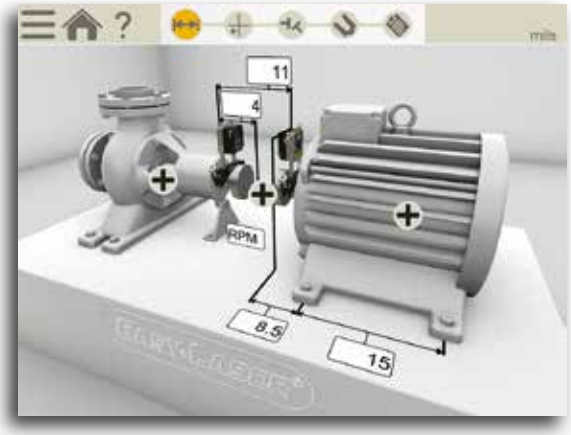
THIS IS EASY ALIGNMENT

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.

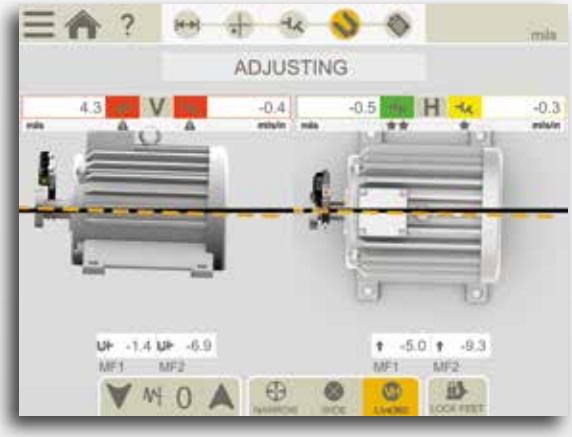
The interactive workflow indicator lets you easily jump to any part in the measurement process.





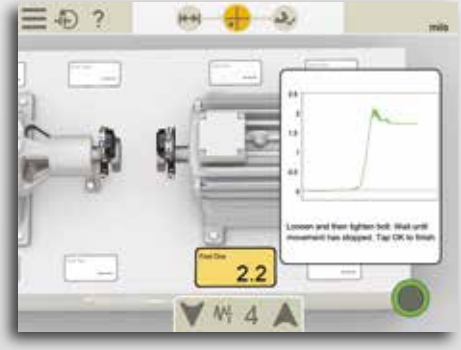
1. Enter dimensions

2. Measure



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

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



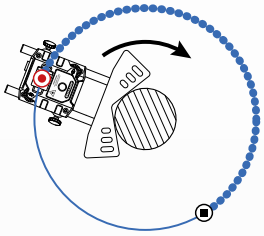
Soft Foot check on both machines.

Tolerance check. Pre-set or custom.

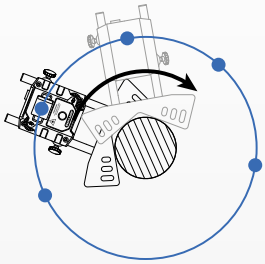
Quality check view for measurements

MEASUREMENT METHODS

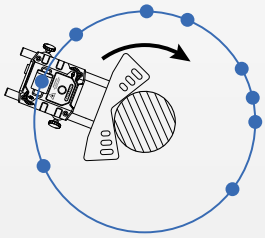
- *Measuring points*
- *Start recording*
- *Stop recording*



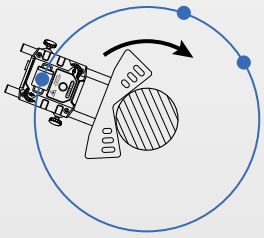
CONTINUOUS SWEEP
Automatic recording of measurement values during continuous sweeping of the shafts. Hundreds of points are registered. You can start and stop anywhere on the turn.



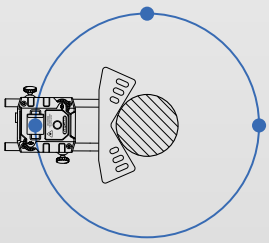
UNCOUPLED SWEEP
Rotate one shaft/unit at a time to pass with the beam over the other (stationary). Repeat alternately until enough measurement points are recorded. You can start and stop anywhere on the turn.



MULTIPOINT
Multipoint measurement lets you take readings at any rotational position. 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
Lets you 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 vibration or poor measuring conditions present a challenge.

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

LOCK FEET
Lock any pair of feet on the machine. Helps with 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.

360° LIVE ADJUSTMENT
Adjust both vertically and horizontally at the same time with measuring units in any position.

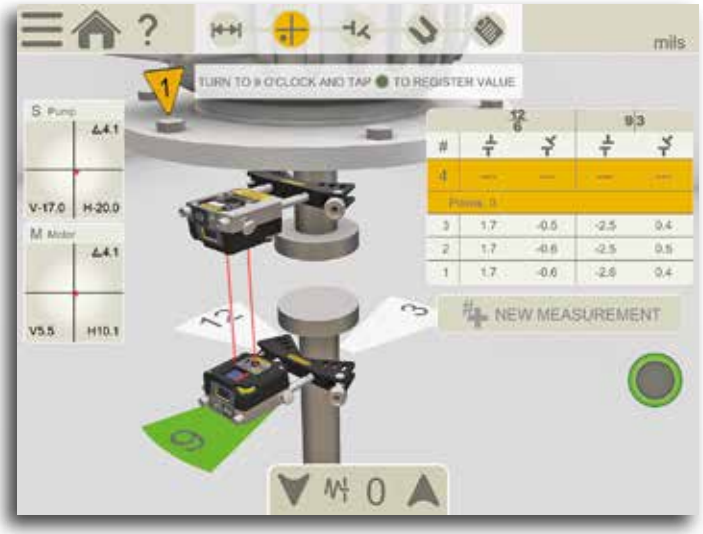
SELECT MACHINE IMAGE
Choose from different 3D machines to portray your machinery on either side of coupling.

SELECT COUPLING TYPE
Choose measurement method depending on coupling type: short flex or spacer shaft.

ADJUSTMENT GUIDE
The adjustment guide helps you decide optimum adjustment by simulating shimming and move. For Horizontal and Machine train program.

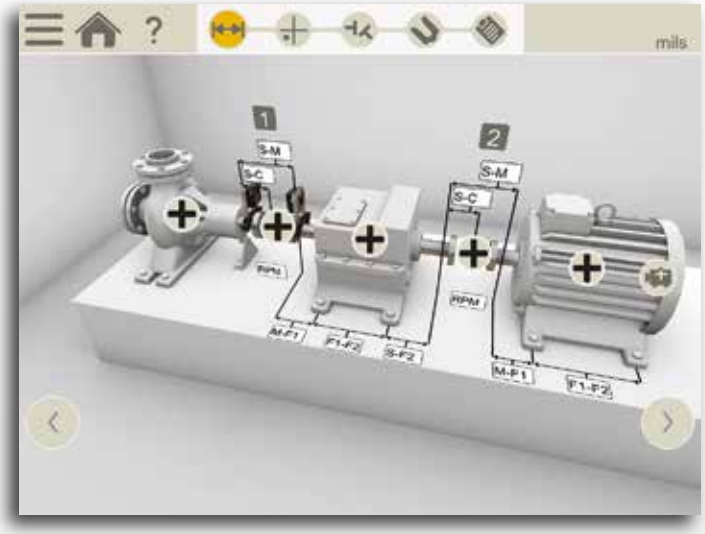
BUILT-IN HELP
The app includes a searchable *Users Manual* which opens the relevant chapter depending where in the process you are. This makes it quick and easy to find the answers to your questions.

MORE POSSIBILITIES



VERTICAL/FLANGE MOUNTED MACHINES

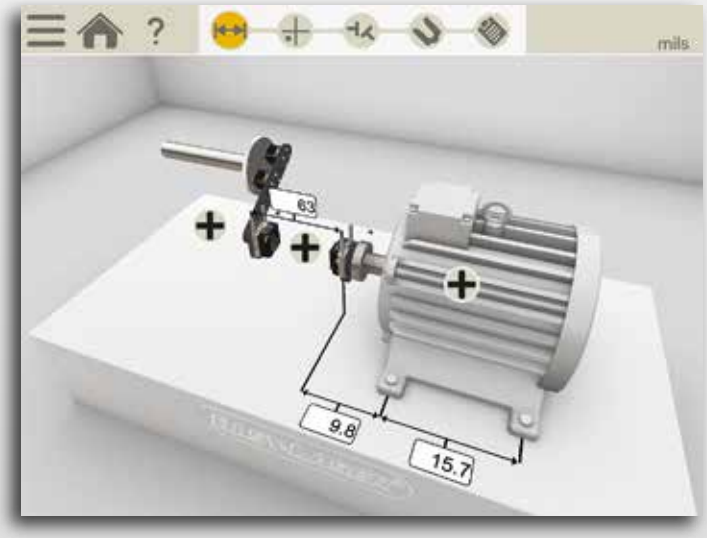
For measurement and alignment of vertically and flange mounted machines.



MACHINE TRAIN

Build your own machine train with as many machines as you need. You can pick the reference machine manually, or let the program choose one that will minimize the need for adjustments.

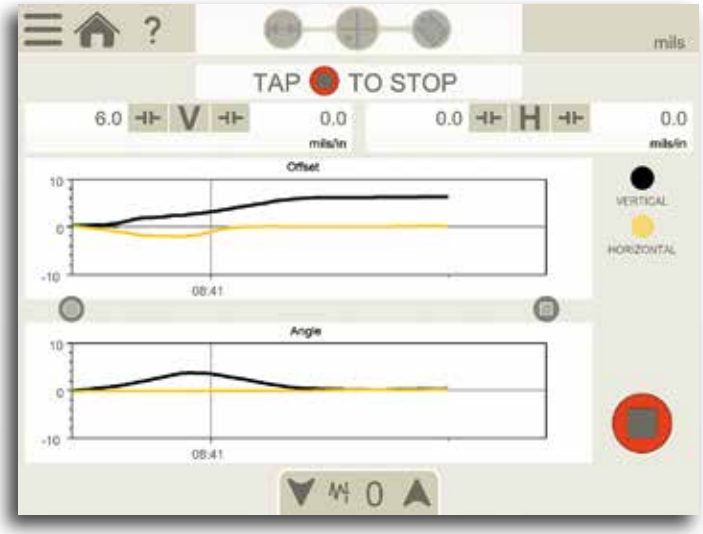
- The easiest and most intuitive machine train interface available.
- See the complete picture of the machine train alignment to quickly determine corrections.
- Instantaneous live movement of your machines during corrections.



CARDAN/OFFSET MOUNTED MACHINES

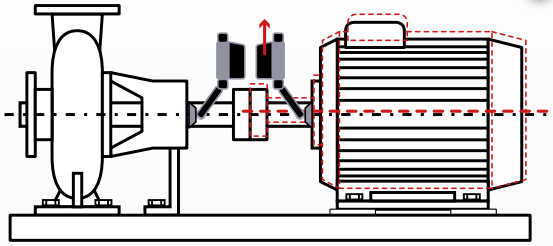
For alignment of cardan/offset mounted machinery. (Requires additional Cardan bracket Kit.)

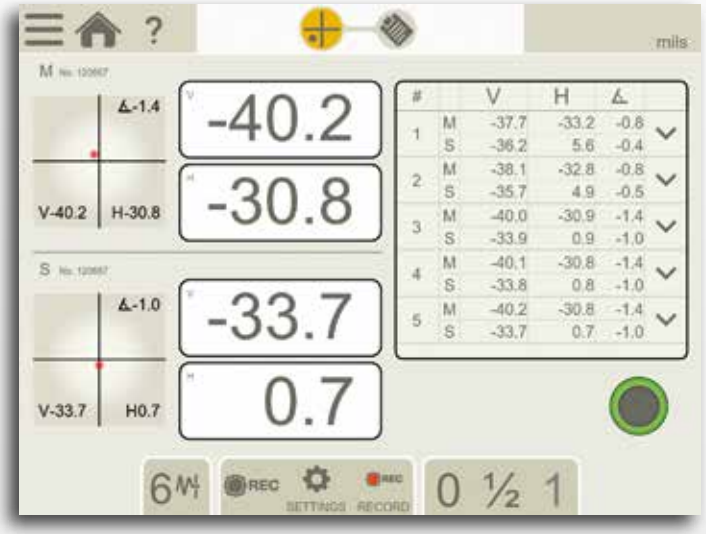
Cardan bracket Kit



EASYTREND

With EasyTrend you can keep track of machine movement over time. For example you can check for thermal expansion and pipe strain issues. Requires optional DM-brackets (pictured).





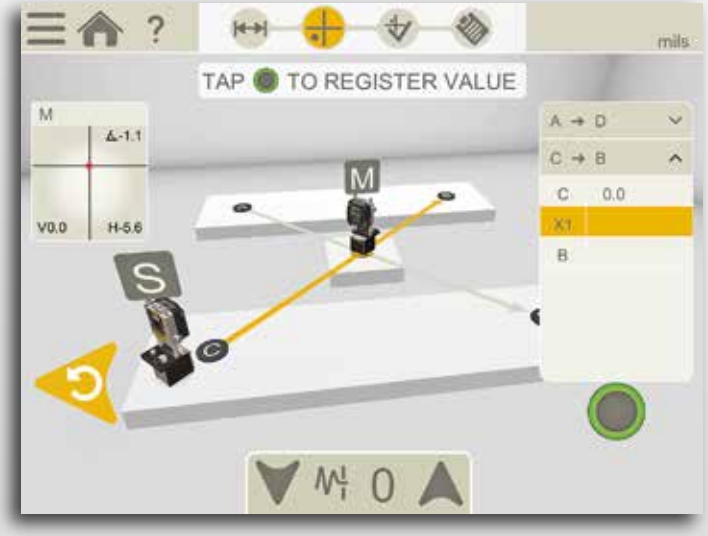
VALUES – DIGITAL DIAL INDICATOR

V 0.00
H 0.00

With the Values program you measure as with dial gauges, but with laser precision and the capability to document the measurement result. It can also be used to ”manually” calculate straightness, flatness and dynamic movements of machine components. Automatic recording possible (set the interval and duration). XT770 records Vertical and Horizontal coordinates simultaneously. You can make individual notes for each measurement point.

CHECK BEARING CLEARANCE

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



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.

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 (accessory). Heavy-duty battery for very long operating times; up to 16 hours.

GLOVE-ENABLED TOUCH SCREEN

Navigate the screen with or without work gloves.

XT70-M/S MEASURING UNITS

The XT70 measuring units have a dot-type laser and 2-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 provides 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

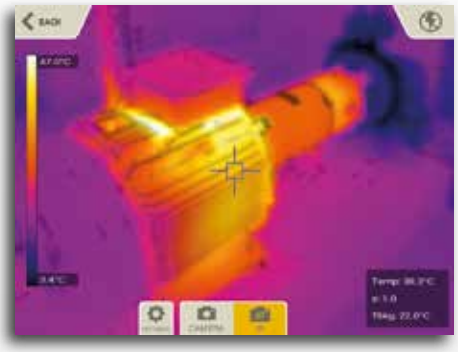
The dot laser technology makes it possible to measure larger machines and longer spans. It also provides higher accuracy when backlash in the coupling is present. In addition, dot laser allows you to check more things when installing a machine, e.g. twist of foundation and bearing clearance. With 2-axis PSD you can read off and record values for both vertical and horizontal directions.

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 measure very misaligned machines. This is particularly good for new installations, where the machines are not yet in the correct position. With the Dual Technology, measurement accuracy is retained even over longer distances.

DOCUMENTATION

FLIR® IR CAMERA
Shoot a thermal image before and after alignment and include in your report! (Optional)



13 MP CAMERA
Take pictures to identify your machines and include with your report.

LED LIGHT
Light up the work area when ambient light is not enough.

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

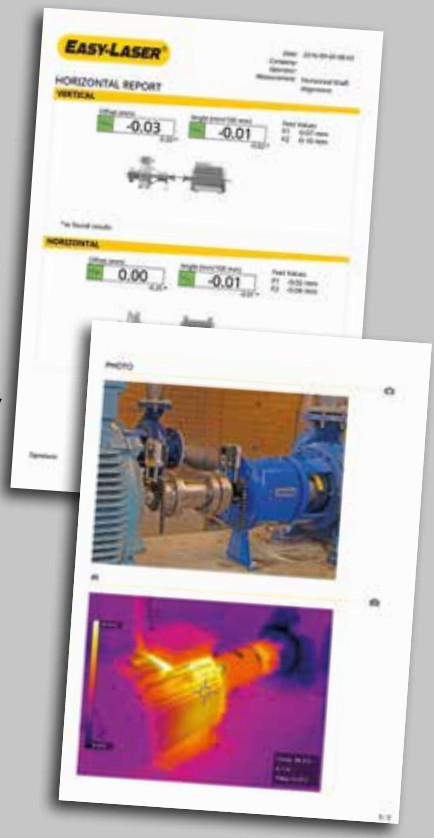
SAVE!

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.

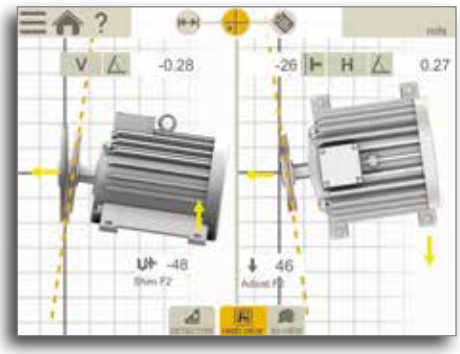
SAVE TO USB
Save your files to USB stick and copy to other devices.

BELT ALIGNMENT TOOL

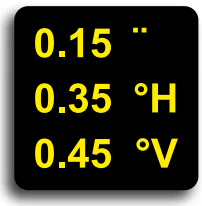
SYSTEM XT190 BTA, PART NO. 12-1053

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 XT770 system, but you can also use it as a separate tool, with or without a separate display device.



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



OLED display on detector unit. Live values.

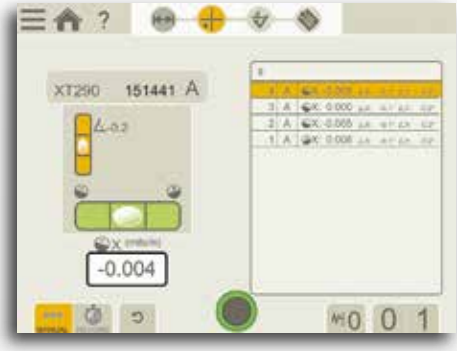
**Conditions apply*

PRECISION LEVEL

SYSTEM XT290 LEVEL PART NO. 12-1244

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.

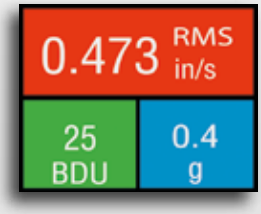
VIBROMETER TOOL

SYSTEM XT280 VIB PART NO. 12-1090

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.

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



Display on vibrometer unit. Live values.

STRAIGHTNESS AND FLATNESS

ENSURE OPTIMAL INSTALLATION CONDITIONS

GEO

With XT770 GEO you will be able to measure flatness and straightness according to established standards like ISO and ANSI. It includes laser transmitter XT20 (pictured right) or XT22 (pictured below) plus geo brackets. Wireless connection and electronic precision levels simplifies operation and reduces set up time. Electronic zeroing eliminates the cumbersome work caused by manual set up and associated errors that can follow. The image below shows the Basic Flatness program, but you can also use the Straightness or Values program.

BORE ALIGNMENT

BORE BRACKET KIT

The Bore center program is used together with the Bore bracket kit and its XT24 laser transmitter. Either you use the XT70-M unit as detector, included with the XT770 system, or upgrade with the XT9 detector (accessory) to be able to measure smaller diameters. Different brackets can be used depending on the type of job.
Use this program to measure the straightness of bore center line, bearing journals and other cylindrical objects. Measure 3–50 points at each position (Multipoint). If required, you can set tolerances. The result can be displayed as Best-fit calculated. Individual points can be remeasured.

EASY-LASER® GENERATION XT

The age of measurement independence is here!

GET IT ON Google Play

RUN IT ON EASY-LASER XT 11 12

Download on the App Store

Android

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*

Easy-Laser® is manufactured by Easy-Laser AB, Alfagatan 6, SE-431 49 Mölndal, Sweden
Tel +46 31 708 63 00, Fax +46 31 708 63 50, e-mail: info@easylaser.com, www.easylaser.com

Documentation ID: 05-0945 Rev8

LASER 2 | CE | ISO 9001 CERTIFIED COMPANY | 3 YEAR WARRANTY | GLOBAL SUPPORT

LUDECA
Keep it running.

LUDECA Inc.
1425 N.W. 88th Avenue
Doral, FL 33172
Phone: (305) 591-8935
Fax: (305) 591-1537
info@ludeca.com
www.ludeca.com