



Alignment system for all important steps of machine installation.







Shaft Alignment

XT660

MEASUREMENT INDEPENDENCE **EASY-LASER® GENERATION XT** Easy-Laser® XT660 is the second member of our Generation XT alignment systems, 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. **NO LOCK-INS** With Generation XT you decide if you want the rugged and user-friendly Easy-Laser® XT11 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. **NO LICENSE HASSLE** With Generation XT the measuring units run the show! What they can do, the XT Alignment app will allow you to do too. No hassle with licenses to unlock new features in the app. If you have the hardware, you can use all of its capacity. That is straightforward! *Conditions apply **MAXIMUM FLEXIBILITY!** The XT Alignment app runs on iOS and Android devices*, as well as on the Easy-Laser® XT11 display unit. The choice is yours.

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.



IO 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.

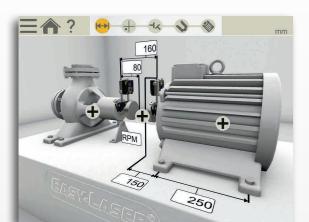
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THIS IS EASY ALIGNMENT

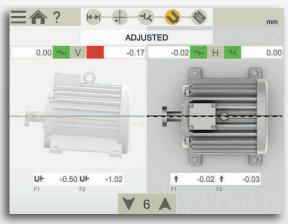
HORIZONTAL PROGRAM

The user interface is intuitive and guides you through the measurement process. It is animated and zooms in to the relevant element for each step. You can save the measurements

of a machine for As found and As left in the same file.



1. Enter dimensions

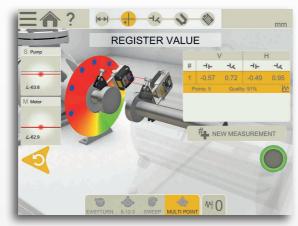


3. View result, As found

4. Adjust



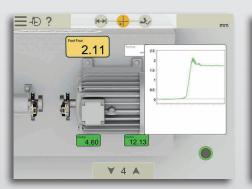
The interactive workflow indicator lets you easily jump to any part in the measurement process.



2. Measure (Four methods available, explained to the right)



5. View report as it will look

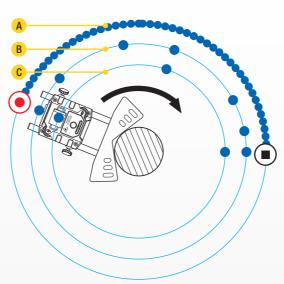


Soft Foot check Tolerance of



Quality check view for measurements

MEASUREMENT METHODS



- Measuring points
- Start recording
- Stop recording



CONTINUOUS SWEEP (A)

Automatic recording of measurement values during continuous sweeping of the shaft. Hundreds of points are registered. You can start anywhere on the turn. Quality check of measurement is provided (see example down left).



MULTI POINT (B)

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 (C)

The EasyTurn™ function allows you to begin the measurement process from anywhere on the turn. You can turn the shaft to any three positions with as little as 20° between each position to register the measurement values. An easier-to-use version of the three-point method (see 9–12–3).



9-12-3

Measurement points are recorded at fixed points 9, 12 and 3 o'clock. This is the classic three-point method which can be used in most cases.

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.



MEASUREMENT VALUE FILTER

Improve readings when measuring conditions are



MULTIPLE SETS OF FEET

Align machines with more than two pairs of feet.



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 answer to your user questions.



Easy-to-access built-in manual

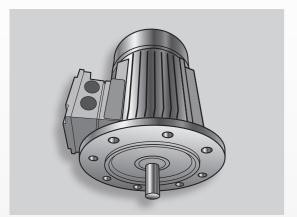


MORE POSSIBILITIES

VERTICAL/FLANGE MOUNTED MACHINES



For measurement and alignment of vertically and flange mounted machines. (Available end of 2017)

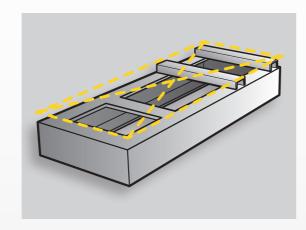


Program for vertically or flange mounted machines

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. (Available 2018)



Twist program for checking machine base

VALUES – DIGITAL DIAL INDICATOR

With the Values program you measure V 0.00 as with dial gauges, but with laser preci-H 0.00 sion and the possibility to document the measurement result. Automatic recording possible (set the interval and duration).



Values from measuring units

CHECK BEARING CLEARANCE etc.



With the Values program you can check bearing clearance or shaft load. It can also be used to "manually" calculate straightness, flatness and dynamic movements of

machine components.



DOCUMENTATION

SAVE!



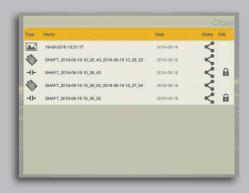
INTERNAL MEMORY

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



VERSATILE FILE TYPES

Both a PDF and an Excel file are generated.



SHOW!



CUSTOM PDF REPORT TEMPLATES

Use one of the two formats included, or design your own.



ADD NOTES

Explain it a little more.



ADD PHOTO

Show what you mean.



ADD THERMAL IMAGE ¹

See the difference after alignment.



SHARE!



SEND THE REPORTS

Share the reports via email. Possible on all platforms.



SAVE TO USB

Save your files to USB and copy to other devices.





¹ Available only with XT11

SYSTEM PARTS

XT60-M/S MEASURING UNITS

The XT60 measuring units utilize dot-type laser and 1-axis square PSD surfaces. A state-of-the-art OLED display (F) 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 aluminium housing provide maximum stability. IP66 and 67, dust- water- and shockproof. Heavy-duty battery for very long operating times; up to 24 hours. Built-in Bluetooth wireless technology.

SHAFT BRACKET

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

XT11 DISPLAY UNIT

Rugged, robust, with wear resistant rubberized protective coating. IP66 and 67, dust- water- and shockproof. As standard a 13 MP camera for documentation is built-in, and you can also choose to add an IR camera to the XT11; 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. The small OLED display (C) shows battery status of both measuring units and display unit. You can check battery status also when the unit is turned The clever lock-screen button (B) prevents

unintentional clicks, for instance when moving around on the job. Four fastening points for shoulder strap or customized solutions. Heavy-duty battery for very long operating times; up to 16 hours. The camera can be removed if security reasons require it.



- C. Laser angle adjustment
- D. OLED display: battery status/unit angle
- E. Chain tightening knob
- F. Charger connector
- G. Extendable stainless steel rods
- H. Locking knob
- I. Slidable target/dust cover



- A. Ergonomically, rubber coated housing
- B. Screen-lock button/Battery status-check button
- C. OLED display
- D. Display brightness sensor
- E. Large and clear 8" glove-enabled touch-screen
- F. Dust cover and protection for connectors (Note: connectors are dust and waterproof)
- G. Enter button

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

DUAL 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 incorrectly set 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.



IP66 AND IP67 APPROVED

RUGGED DESIGN

Easy-Laser® XT is 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 metre, and also protected against powerful water jets.



The Easy-Laser® XT11 Display unit has the option to add ther-

mal imaging camera (IR) along with the standard 13 MP digital

camera. Shoot a thermal image before and after alignment and

(Note: Photo shows XT40 measuring units.)



- A. IR Camera (optional)
- B. 13 Mp Camera
- C. LED Light
- D. Fastening points for shoulder strap (x4)





AV CONNECTOR

LED LIGHT

not enough.

THERMAL CAMERA

13 MP CAMERA

Take pictures to identify

your machines and in-

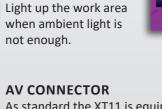
clude with your report.

include with the documentation!

As standard the XT11 is equipped with a HDMI connector, making it possible to share the display screen on a TV monitor or projector screen. Useful for training purposes with large groups.



E. Charger F. USB A G. AV connector (HDMI) H. USB B





0 0

SHAFT ACCESSORIES

ACCESSORY BRACKETS

Optional brackets for shaft alignment.















E. Thin shaft bracket, Width 12 mm [0.5"], Part No. 12-1012

- F. Extension rods:
- Length 30 mm [1.18"], (x1) Part No. 01-0938 Length 60 mm [2.36"], (x4) Part No. 12-0059 Length 120 mm [4.72"], (x8) Part No. 12-0324 Length 240 mm [9.44"], (x4) Part No. 12-0060

BELT ALIGNMENT TOOL

FOR RADIALLY MOUNTED DRIVES

A. Offset bracket, Part No. 12-1008

C. Magnet base, Part No. 12-0013

D. Sliding bracket, Part No. 12-1010

B. Magnetic bracket, Part No. 12-1011

(Note: offset bracket also needed.)



With the Belt alignment tool XT190 BTA you can align most type of radially mounted drives. The transmitter and detector attaches magnetically to the sheave edge.

A digital display unit gives the advantage of checking against belt manufacturer tolerances.

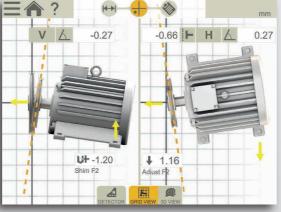
When connected to the XT Alignment App on your iOS or Android device, or the XT11, you can also read off the alignment "live" at the position on the machine where the actual alignment is made. You get adjustment values for both horizontal and vertical direction (shim value), resulting in a more accurate alignment in a shorter time.







OLED display on detector unit. Live values.



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

SYSTEMS



PART NO. 12-1052 Display unit, Large case, (Accessories*)

Weight: 9.8 kg [21.6 lbs] (without accessories)
Dimension WxHxD: 565x455x210 mm [22.2"x17.9"x8.2"]

PART NO. 12-1059 Same as above, but without display unit.

Weight: 8.2 kg [18.1 lbs] (without accessories)



PART NO. 12-1051 Display unit, Medium case

Weight: 7.2 kg [15.9 lbs] ension WxHxD: 460x350x175 mm [18.1"x13.8"x6.9"]

PART NO. 12-1058 Same as above, but without display unit.

Weight: 5.8 kg [11.0 lbs]

TECHNICAL DATA

Measuring units XT60-M / X			
Type of detector	1 axis TruePSD 20x20 mm [0.79x0.79"] Bluetooth® wireless technology Heavy duty Li Ion chargeable		
Communication			
Battery type			
Operating time	Up to 24 h continuously		
Resolution	0.001 mm [0.05 mils]		
Measuring errors	<1%		
Measurement range	Up to 20 m [66 feet]		
Type of laser	Diode laser		
aser wavelength	635-670 nm		
aser class	Safety class 2		
aser output	<1 mW		
Electronic inclinometer	0.1° resolution		
Environmental protection	IP class 66 and 67		
Operating temperature	-10-50 °C		
Storage temperature	-20-50 °C		
Relative humidity	10-95%		
OLED display	128x64 pixels		
lousing material	Anodized aluminium + PC/ABS + TPE		
Dimensions	WxHxD: 76x76.7x45.9 mm [3.0x3.0x1.8"]		
Veight	272 g [9.6 oz]		
Display unit XT11			
Type of display/size	SVGA 8" colour screen, backlit LED, multitouch		
Battery type	Heavy duty Li Ion chargeable		
Operating time	Up to16 h continuously		
Connections	USB A, USB B, Charger, AV		
Communication	Wireless technology, WiFi		
Camera, with diode lamp	13 Mp		
R camera (optional)	FLIR LEPTON® (0-450 °C, 32-842 °F)		
anguages	en / de / sv / es / pt / ru / ja / ko / zh		
Help functions	Built-in manual		
Environmental protection	IP class 66 and 67		
Operating temperature	-10-50 °C		
Storage temperature	-20-50 °C		
Relative humidity	10-95%		
DLED display	96x96 pixels		
lousing material	PC/ABS + TPE		
Dimensions	WxHxD: 274x190x44 mm [10.8x7.5x1.7"]		

Length 1 m [39.4"]

Type: V-bracket for chain, width 18 mm [0.7"].

Length: 120 mm, 60 mm [4.72", 2.36"] (extendable)

Shaft diameters: 20-150 mm [0.8-6.0"] With extension chain, diameters up to 450 mm [17.7"]

Material: anodised aluminium

All Easy-Laser® XT660 Shaft systems include

1	Measuring	unit	XT60-I	V	

Charging cable (splitter cable)

Shaft brackets

1 Measuring unit XT60-S

2 Shaft brackets with chains and rods

4 Rods 60 mm [2.36"]

2 Extension chain 900 mm [35.4"]

Measuring tape 3 m [9.8']

Charger (100-240 V AC)

DC split cable for charging 1 DC to USB adapter, for charging

Quick reference manual

1 Cleaning cloth for optics

1 USB memory with manuals 1 Documentation folder

System Easy-Laser® XT660 Shaft also includes, depending on system

(1) Display unit XT11

(1) Shoulder strap for display unit

(1) Carrying case Medium

(1) Carrying case Large

Customize your XT11 (Note that these options cannot be retrofitted):

Part No. 12-0968 IR Camera added to XT11

Part No. 12-0985 Camera (and LED light) removed from XT11



EASY-LASER® GENERATION XT

The age of measurement independence is here!









Android



App for multiple platforms

Maximum flexibility

No Lock-ins

i0S









NO LOCK-INS

With Generation XT you decide if you want the rugged and user-friendly Easy-Laser® XT11 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.

*Conditions apply







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 (XT660/ XT440/XT190).

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ISO 9001 CERTIFIED



