



Alignment system for all important steps of machine installation.







Shaft Alignment

37660





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.

XT660

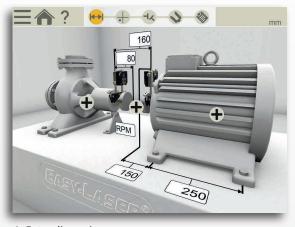
THIS IS EASY ALIGNMENT

HORIZONTAL PROGRAM

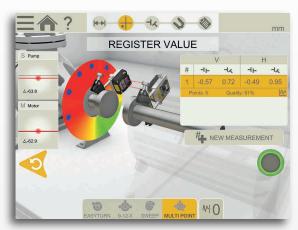
The user interface is intuitive and guides you through the measurement process. It is animated and zooms in to the relevant element for each step. You can save the measurements of a machine for *As found* and *As left* in the same file.



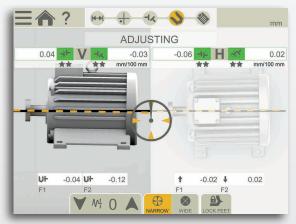
The interactive workflow indicator lets you easily jump to any part in the measurement process.



1. Enter dimensions



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

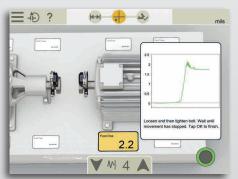


3. View result, As found

4. Adjust



5. View report as it will look



Soft Foot check on both machines

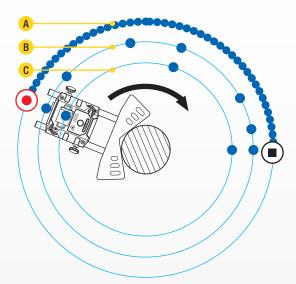


Tolerance check (pre-set or custom)



Quality check view for measurements

MEASUREMENT METHODS



- Measuring points
- Start recording
- Stop recording



CONTINUOUS SWEEP (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 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 method depending on coupling type: short flex, spacer shaft.



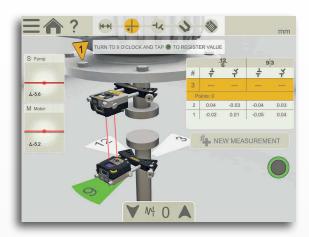
BUILT-IN HELP

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 answer to your user questions.



Easy-to-access built-in manual

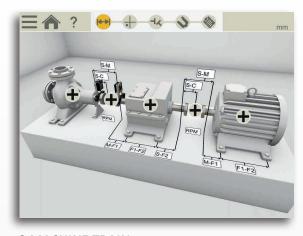
MORE POSSIBILITIES



VERTICAL/FLANGE MOUNTED MACHINES



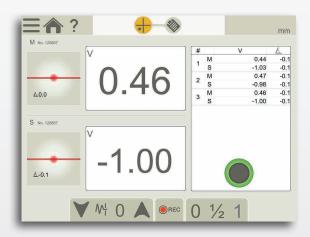
For measurement and alignment of vertically and flange mounted machines. Handles machines with 4, 6, 8 and 10 bolts.



3 MACHINE TRAIN



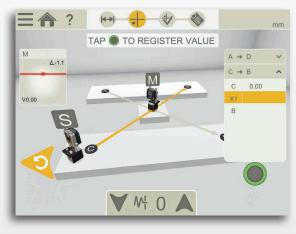
For alignment of three to each other coupled machines (2 couplings).



VALUES – DIGITAL DIAL INDICATOR

With the Values program you measure as V 0.00 with dial gauges, but with laser precision H 0.00 and the possibility to document the measurement result. Automatic recording pos-

sible (set the interval and duration). You can make individual notes for each measurement point.



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.

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

See the difference after alignment.

(Available only with XT11)



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.





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 (D) 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. Builtin 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.



- 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

XT11 DISPLAY UNIT

Rugged, robust, with wear resistant rubberized protective coating. IP66 and 67, dustwater- 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 off (B). 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.



- 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

RUGGED DESIGN



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.



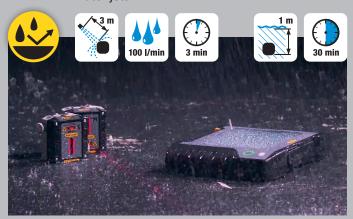
DUAL LASERS, PSD, INCLINOMETERS

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 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

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 metre, and also protected against powerful water jets.



(Note: Photo shows XT40 measuring units.)



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



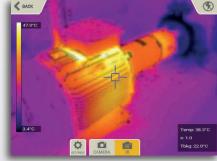
THERMAL CAMERA

The Easy-Laser® XT11 Display unit has the option to add thermal imaging camera (IR) along with the standard 13 MP digital camera. Shoot a thermal image before and after alignment and include with the documentation!



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.



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AV CONNECTOR

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.





SHAFT ACCESSORIES













A. Offset bracket, Part No. 12-1008

- B. Magnetic bracket, Part No. 12-1011
- C. Magnet base, Part No. 12-0013 (Note: offset bracket also needed.)
- D. Sliding bracket, Part No. 12-1010
- 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

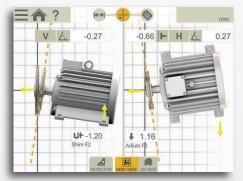
FOR RADIALLY MOUNTED DRIVES

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With the Belt alignment tool XT190 BTA you can align most types 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.



0.6 mm 0.35 °H 0.45 °V

OLED display on detector unit. Live values.

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

SYSTEM XT190 BTA PART NO. 12-1053



VIBROMETER TOOL

FOR QUICK VIBRATION ANALYSIS



Easy-to-use vibration analyser that quickly diagnose vibration level, unbalance, misalignment and looseness. The direct readout of 1x, 2x, 3x 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.



	T	AP 🔴	TOF	REGIS	TER V	ALUE			
Last reading VIB	#	G	ISO (mm/s)	BDU	1x (mm/s)	2x (mm/s)	3x (mm/s)	RPM	
0.034	1	0.035	0.0	3	0.0	0.0	0.0	1500	~
Last reading ISO (mm/s)	2	0.036	0.5	2	0.3	0.0	0.0	1500	~
	3	0.036	0.0	3	0.0	0.0	0.0	1500	V
0.0	1	✓ vertical reading							
	4	0.034	0.0	2	0.0	0.0	0.0	1500	^
					₩ :	-/			
	L								

7.5	ISO mm/s
23 BDU	0.4 g

Display on vibrometer unit. Live values.

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

SYSTEMS



Display unit, Large case, (Accessories*)

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

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] Dimension WxHxD: 460x350x175 mm [18.1x13.8x6.9"]

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

Weight: 5.8 kg [11.0 lbs]

TECHNICAL DATA

Tune of detector	1 ovio Truo DCD 20v20 mm [0.70v0.70ll]
Type of detector Communication	1 axis TruePSD 20x20 mm [0.79x0.79"]
	BT wireless technology
Battery type	Heavy duty Li Ion chargeable
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
Laser wavelength	635–670 nm
Laser class	Safety class 2
Laser 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
Housing material	Anodized aluminium + PC/ABS + TPE
Dimensions	WxHxD: 76x76.7x45.9 mm [3.0x3.0x1.8"]
Weight	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
IR camera (optional)	FLIR LEPTON® (0-450 °C, 32-842 °F)
Languages	en / de / sv / es / pt / ru / ja / ko / zh / it / fr / pl
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%
OLED display	96x96 pixels
Housing material	PC/ABS + TPE
Dimensions	WxHxD: 274x190x44 mm [10.8x7.5x1.7"]
Weight	1450 g [51.1 oz]
Cable	
Charging cable (splitter cable)	Length 1 m [39.4"]
Brackets etc.	
Shaft brackets	Type: V-bracket for chain, width 18 mm [0.7"].
	Shaft diameters: 20–150 mm [0.8–6.0"]
	With extension chain, diameters up to 450 mm [17.7"]
	Material: anodised aluminium
Rods	Length: 120 mm, 60 mm [4.72", 2.36"] (extendable)
	Material: Stainless steel

All Easy-Laser® XT660 Shaft systems include:

- 1 Measuring unit XT60-M
 - Measuring unit XT60-S
- 2 Shaft brackets with chains and rods
- 4 Rods 60 mm [2.36"]
- 2 Extension chain 900 mm [35.4"]
- 1 Measuring tape 3 m [9.8']
- 1 Hexagon wrench set
- 1 Charger (100–240 V AC)
- 1 DC split cable for charging
- 1 DC to USB adapter, for charging
- 1 Quick reference manual
- Cleaning cloth for opticsUSB 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!

XT11









Android









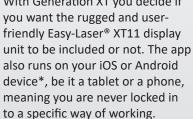






iOS





*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.

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 © 2018 Easy-Laser AB. We reserve the right to make changes without prior notification. Easy-Laser® is a registered trademark of Easy-Laser AB. Android, Google Play, and the Google Play logo are trademarks of Google Inc. Apple, the Apple logo, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Other trademarks belong to their respective owners. This product complies with: EN60825-1, 21 CFR 1040.10 and 1040.11. Contains FCC ID: Q0QBGM111, IC: 5123A-BGM111 and FCC ID: 2AFDI-ITCNFA324 IC: 9049A-ITCNFA324. Documentation ID: 05-0876 Rev3





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