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EASY-LASER® XT11

reddot design award
winner 2018

iF DESIGN AWARD 2017

IP66
IP67

Shaft Alignment
XT440

MEASUREMENT INDEPENDENCE

EASY-LASER® GENERATION XT

Easy-Laser® XT440 is the first member of our Generation XT alignment systems, built upon our 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

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!

*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.*

XT440

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.

POWERFUL OPTIONS

THERMAL CAMERA
The Easy-Laser® XT11 Display unit has the option to add a 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!
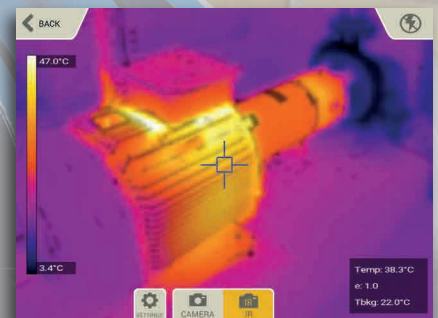
BELT ALIGNMENT
With the Belt alignment tool XT190 BTA* you can align most type of radially mounted drives. You get adjustment values for both horizontal and vertical direction (shim value).
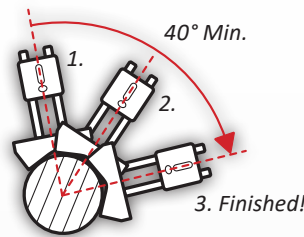*Accessory
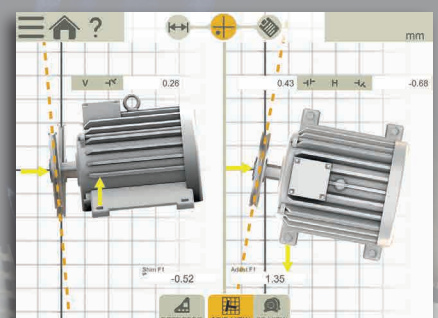
THIS IS EASY ALIGNMENT

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.
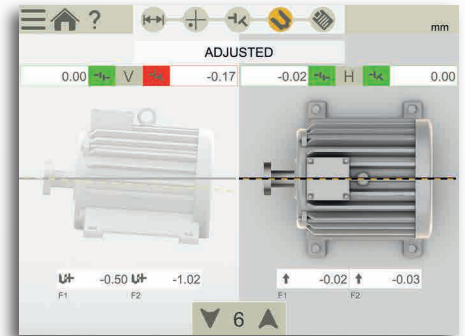
40° Min.

1.
2.
3. Finished!

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. Voila! Measurement is complete!
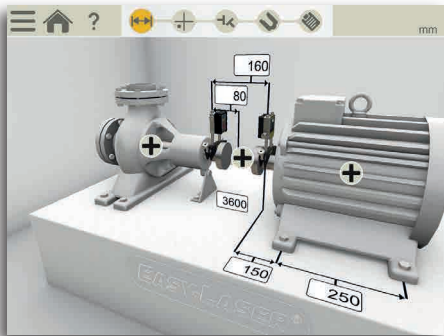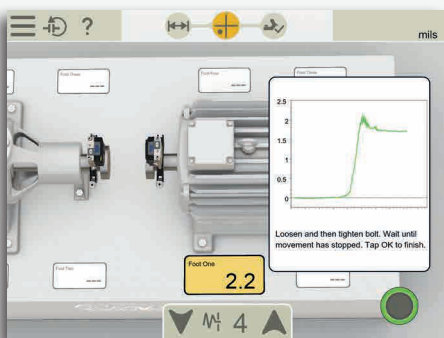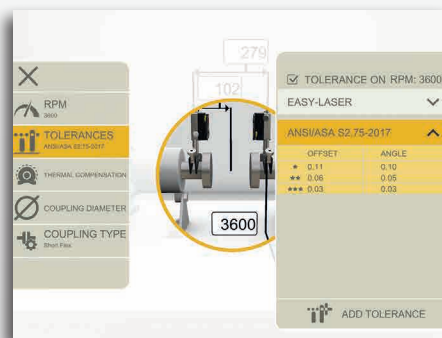

1. Enter dimensions
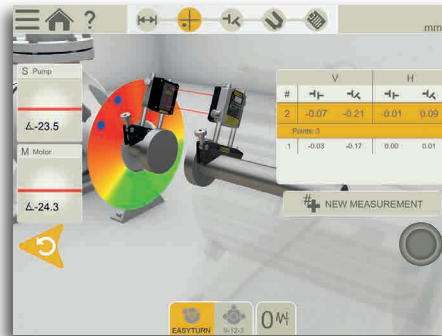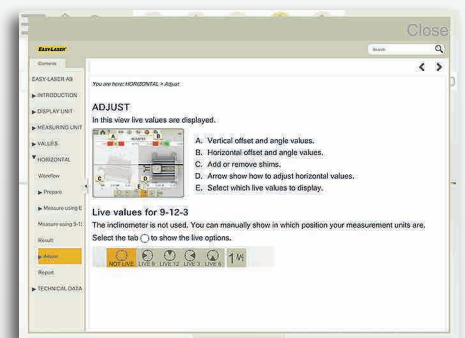

2. Measure (free positions or 9-12-3 o'clock)

3. View result, As found
4. Adjust

Soft Foot check on both machines

Tolerance check (pre-set or custom)

Easy-to-access built-in manual

VALUES – DIGITAL DIAL INDICATOR

With the Values program you measure as with dial gauges, but with laser precision and the possibility to document the measurement result. You can also use it to check bearing play or shaft load.

VERTICAL/FLANGE MOUNTED MACHINES

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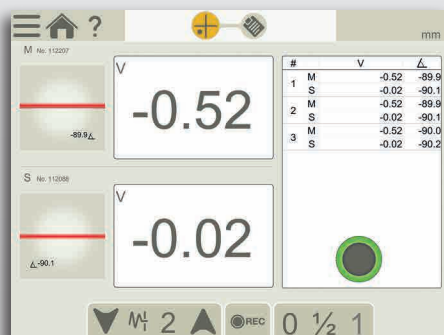
Values from measuring units

Program for vertically or flange mounted machines

1   2   3   4   5

The interactive workflow indicator lets you easily jump to any part in the measurement process.
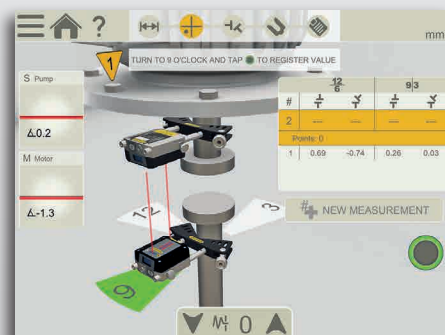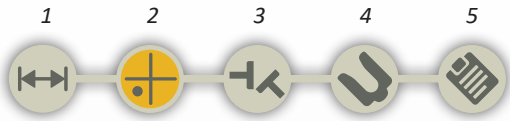
BUILT-IN HELP
The app includes a searchable *Users Manual* which opens the relevant chapter depending where in the process you are. This makes it quick and easy to find the answer to your user questions.

SELECT MACHINE IMAGE
Choose from different 3D machines to portray your machinery.

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

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
Used when aligning base-bound or bolt-bound machines.

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

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.

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.)

EXPLAIN!

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

ADD NOTES
Explain it a little more.

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.
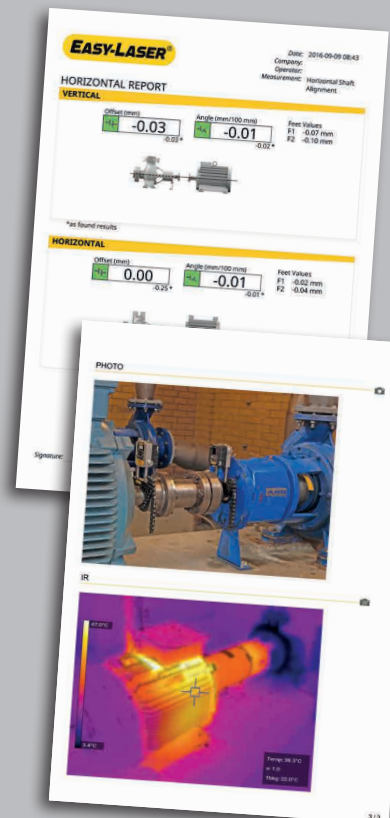*(Available only with XT11)*

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

XT40-M/S MEASURING UNITS

The XT40 measuring units have a large 30 mm PSD, and a state-of-the-art OLED display (F) which shows the angle of the unit, making it easier to position it on the shaft. The line laser technology provides a fast setup and easy measurement process. 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 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.

A. Chain tightening knob
B. Laser angle adjustment (only on M unit)
C. Charger connector
D. Laser aperture
E. PSD apterure
F. OLED display: battery status/unit angle
G. Extendable stainless steel rods
H. Locking knob

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 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.

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

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ACCESSORY BRACKETS

Optional brackets for shaft alignment.
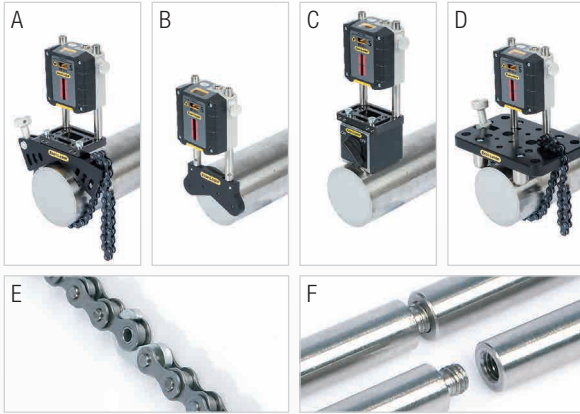
A. Offset bracket, Part No. 12-1008
B. Magnetic bracket, Part No. 12-1011
C. Magnet base, Part No. 12-0013
   (Note: offset bracket also needed.)
D. Sliding bracket, Part No. 12-1010
E. Extension chain, Part No. 12-1060. Extends the chain for shafts up to diameter 450 mm [17.7"]
F. Extension rods:
   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

TWO CAMERAS

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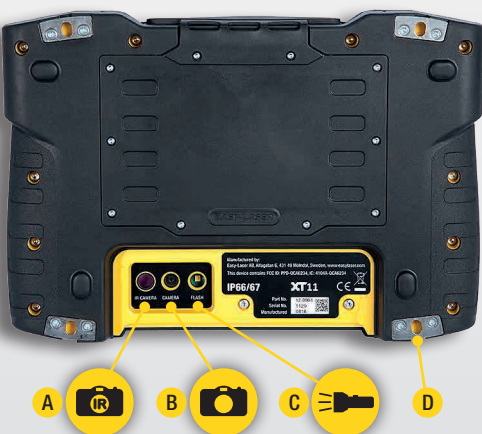
CONNECTORS (DUST AND WATERPROOF)

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

TECHNICAL DATA

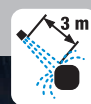| Measuring units XT40-M / XT40-S	
Type of detector	TruePSD 30 mm [1.2"]
Communication	BT Wireless technology
Battery type	Heavy duty Li Ion chargeable
Operating time	Up to 24 h continuously
Resolution	0.001 mm [0.05 mils]
Measuring errors	<1%
Measurement range	Up to 10 m [33 feet]
Type of laser	Diode 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: 76x76.7x39.3 mm [3.0x3.0x1.5"]
Weight	245 g [8.6 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/SE/ES/PT/RU/JP/KO/CHN/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"]
	Material: anodised aluminium
Rods	Length: 120 mm, 75 mm [4.72", 2.95"] (extendable)
	Material: Stainless steel

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.

CHOOSE YOUR SYSTEM!

XT440

System Easy-Laser® XT440 Shaft, Part No. 12-0966, includes:

1	Measuring unit XT40-M
1	Measuring unit XT40-S
2	Shaft brackets with chains and rods
4	Rods 75 mm [2.95"]
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
1	Cleaning cloth for optics
1	USB memory with manuals
1	Carrying case Small
	Weight: 3.8 kg [8.4 lbs]
	Dimension WxHxD: 335x280x130 mm [13.2"x11.0"x5.1"]

Easy-Laser® XT Alignment App

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XT440 WITH DISPLAY UNIT

System Easy-Laser® XT440 Shaft with Display unit XT11, Part No. 12-0967 includes:

1	Display unit XT11
1	Measuring unit XT40-M
1	Measuring unit XT40-S
2	Shaft brackets with chains and rods
4	Rods 75 mm [2.95"]
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	Shoulder strap for display unit
1	Quick reference manual
1	Cleaning cloth for optics
1	USB memory with manuals
1	Documentation folder
1	Carrying case Medium
	Weight: 7.2 kg [15.9 lbs]
	Dimension WxHxD: 460x350x175 mm [18.1"x13.8"x6.9"]

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

IR CAMERA   CAMERA   FLASH

IR Camera added   *Camera removed*

CAUTION
LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT

CE

ISO 9001 CERTIFIED

3 YEAR WARRANTY

GLOBAL SUPPORT