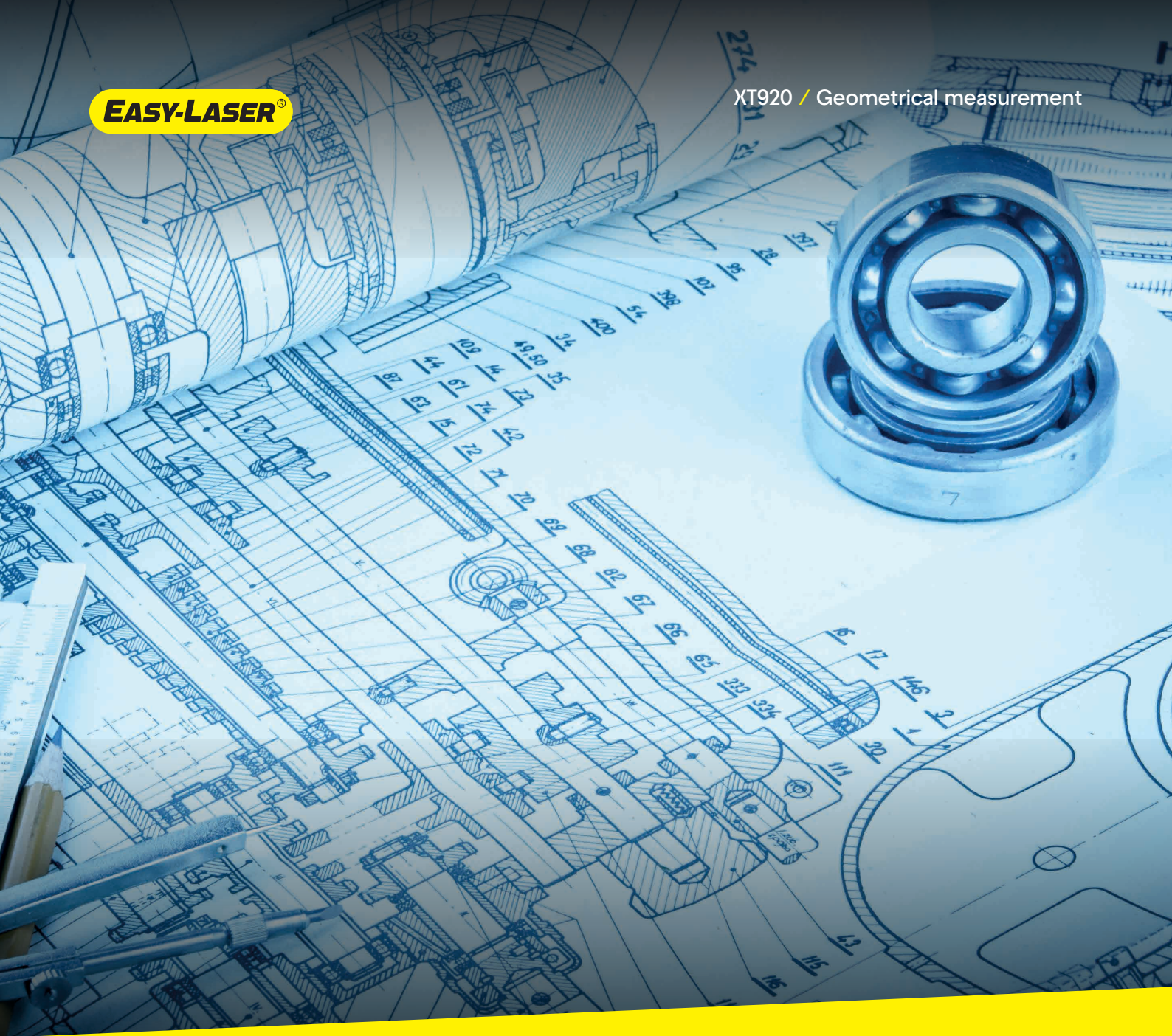




EASY-LASER®

XT920 / Geometrical measurement

XT920

Geometrical measurement

The Easy-Laser® XT920 is a versatile, easy-to-use geometrical measurement and alignment system that meets the high demands of the industry when it comes to precision and accuracy.

iOS / Android

0.001 mm/0.05 mils

→ easylaser.com

For all types of geometrical measurements

XT920



XT20



XT22



XT21



XT23

Easy-Laser® XT920 is a geometrical measurement and alignment system suitable for a wide range of industrial applications. You can also add accessories from our standard range to further expand the capabilities. Or, design your own brackets for specific jobs. We guarantee highest accuracy with our precision laser transmitters and detectors. You add experience of the specific jobs.

With **Easy-Laser® XT920 Geometric** you choose between four different laser transmitters for a complete system. Which one suits you best depends on your daily work and future plans. The system can be used out in the field for machinery installations or as a part of the quality control of your production. Learn more on the following pages.

Measurement independence

No lock-ins

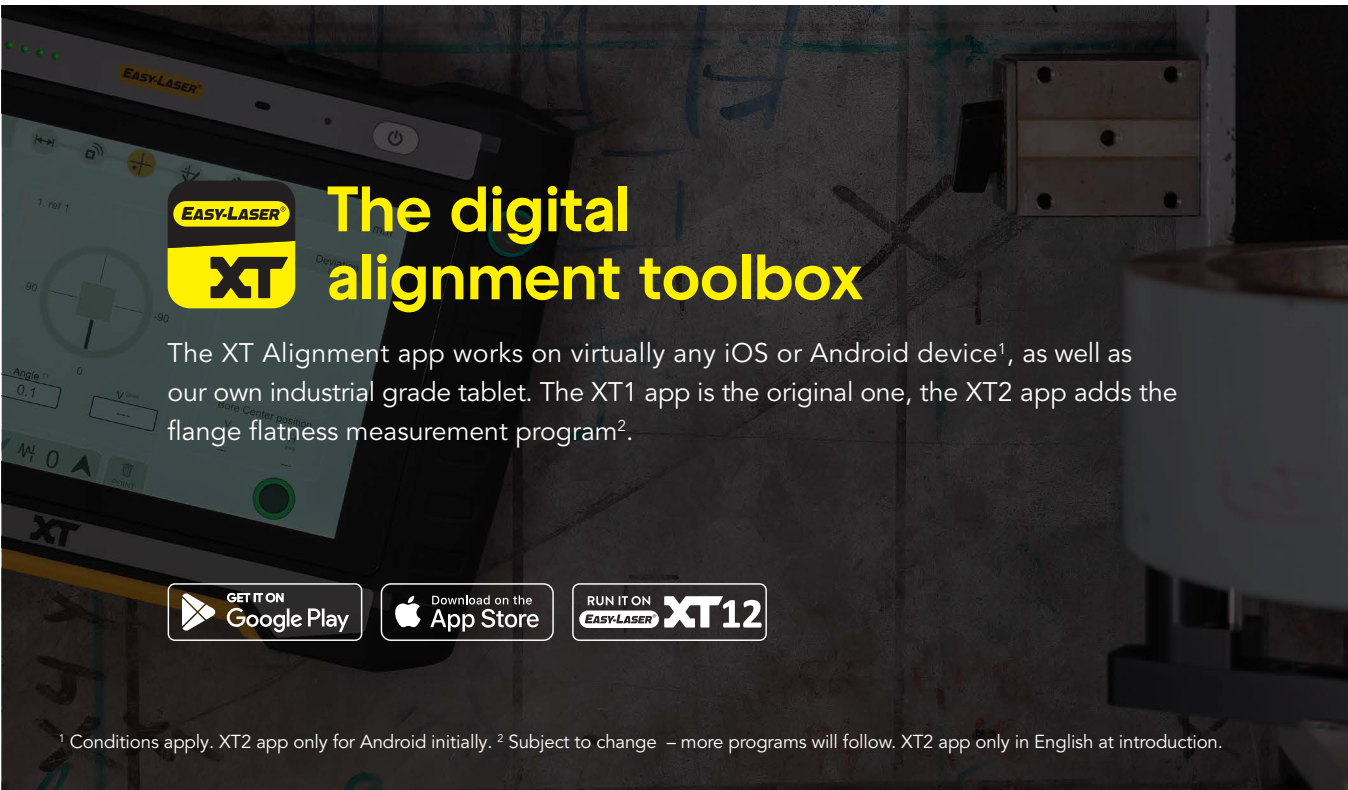
With XT you decide if you want the rugged and user-friendly Easy-Laser® XT12 display unit to be included or not. The app also runs on your iOS® or Android® device¹, be it a tablet or a phone, meaning you are never locked in to a specific way of working.

No license hassle

The app is free to download to any number of devices. No hassle with licenses, just connect the units to the app, on any of your display devices, and start measuring. That is straightforward!

Always easy!

The XT app is easy to use and to learn. Intuitive guiding graphics, and multi-lingual with 16 languages². Built-in help with a searchable manual supports you in each step of the measurement process.



The digital alignment toolbox

The XT Alignment app works on virtually any iOS or Android device¹, as well as our own industrial grade tablet. The XT1 app is the original one, the XT2 app adds the flange flatness measurement program².



¹ Conditions apply. XT2 app only for Android initially. ² Subject to change – more programs will follow. XT2 app only in English at introduction.

XT920 System highlights

The reason to go for an XT alignment system is not just the precision alignment hardware, but indeed also the XT range features and capabilities as a whole. XT will never let you down!



The XT Alignment app
Our straightforward application available for free. Measure – Align – Document – Share!



Cross-platform compatibility
Works with the industrial-grade Easy-Laser display unit or most iOS/Android units.



Maximum flexibility
With XT920 you put together the system that best suits your needs – select laser transmitter, your choice of tablet, and add accessories.



High precision
Our detector and laser technologies provide extreme precision and accuracy for demanding industrial use.



Long operating times
The long operating times of the laser transmitter and the detector mean even the toughest jobs will be finished on time with no interruptions.



Versatile bracketing
The brackets are designed for stability, repeatability and ease-of-use. They are very versatile and adaptable for any job.



Documentation
Automatic documentation of alignment results.



Share files
Share the reports via email. Possible on all platforms.



Live adjustment
Live adjustment facilitates real-time machine adjustments.

Easy to use



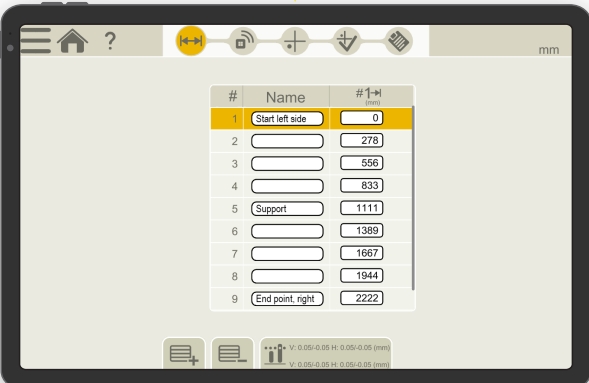
Straightness program

The user interface is intuitive and guides you through the measurement process. Here we show how one of the XT programs work. Most other geometrical programs has the same procedure: Prepare – Connect – Measure – View result – Create report.



1. Enter positions

Enter number of measurement positions, and if distances are equal or not. You can also set Max. and Min. tolerances for the measurement.



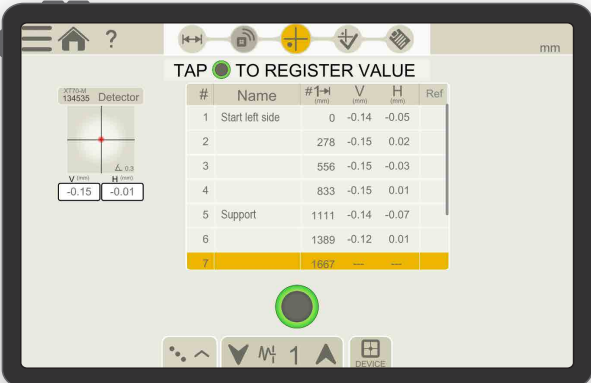
2. Name positions

You can give each position a unique label.



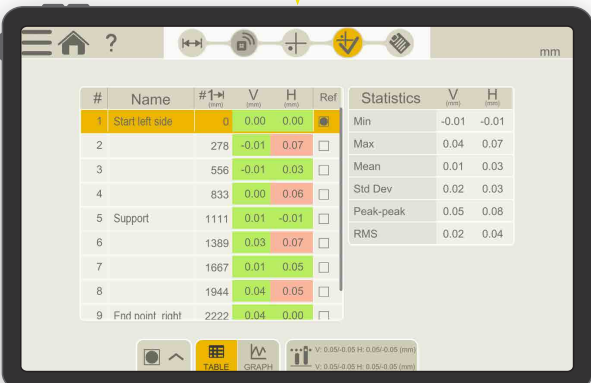
3. Connect devices

This is done automatically under normal circumstances, but there might be occasions where you want to change equipment.



4. Measure

Move the detector to each position and register the value. If measurement conditions are tough you set a filter to stabilize the value.



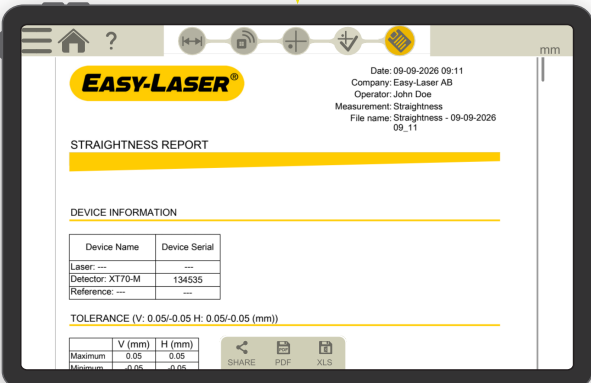
5. View result – Table

Vertical and Horizontal values are displayed. If tolerances are set, colour coding is added. Now you can set and test different reference points.



5. View result – Graph

You can also choose to view the result as a graph with tolerance lines, and test different best fit settings.

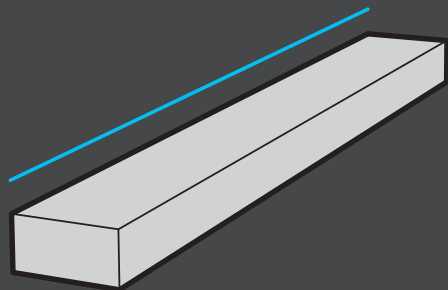


6. View report

View the final report. Then share it with colleagues or clients.

Measurement examples

With the XT920 Geometric measurement system you can perform a wide range of checks and alignment jobs. On the previous pages the Straightness program was showed as an example of the app and workflow. Here are some examples of other measurements you can do.



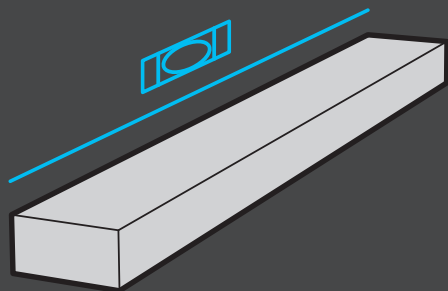
Straightness

Straightness is a requirement in many types of machinery designs. Here are some examples of straightness measurement applications:

- Rolls
- Guideways
- Foundations
- Conveyors

XT20

XT22



Level

For machinery to work as intended and to avoid unplanned downtime it needs to be installed level. This will guarantee proper lubrication and for loads to be evenly distributed.

- Foundations
- Thrust pads
- Sole plates
- Rolls

XT20

XT22

XT23



Flatness

Flatness according to ISO and ANSA standards is often a machinery requirement.

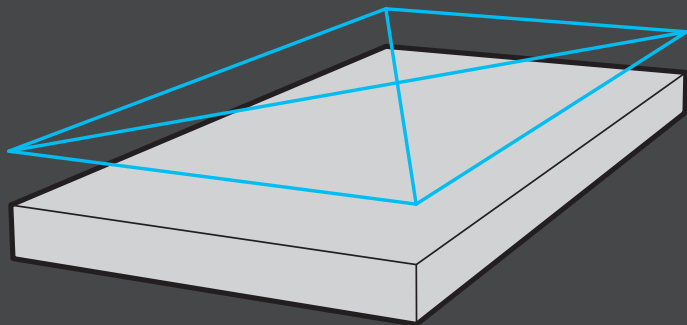
- Machine foundations
- Machine casings
- Machine tables
- Flanges (tower flanges, pipe flanges, etc)

XT20

XT21

XT22

XT23

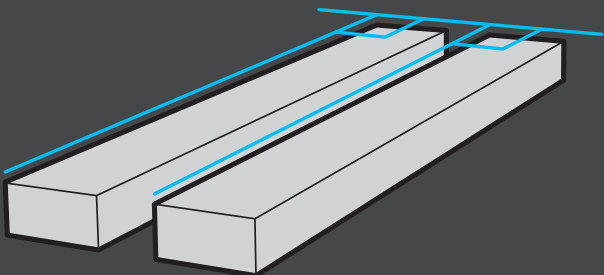


Parallelism

A lot of machines rely on internal parts to be parallel for them to work as intended. Here are some examples:

- Rolls (paper machines, printing presses, etc)
- Rails (robot installations, material handling, etc)

XT22

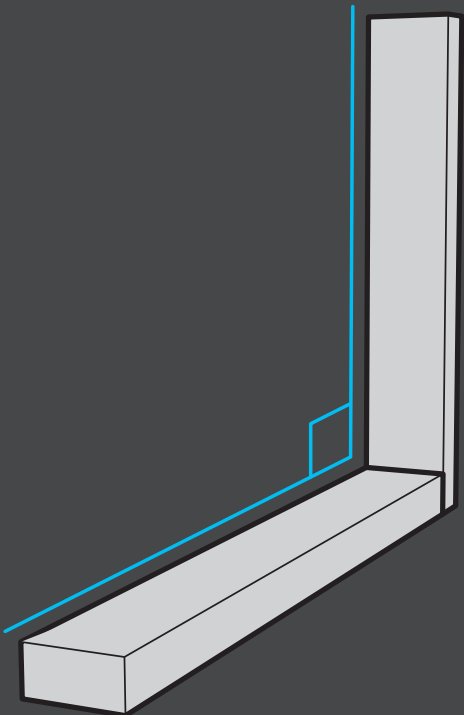


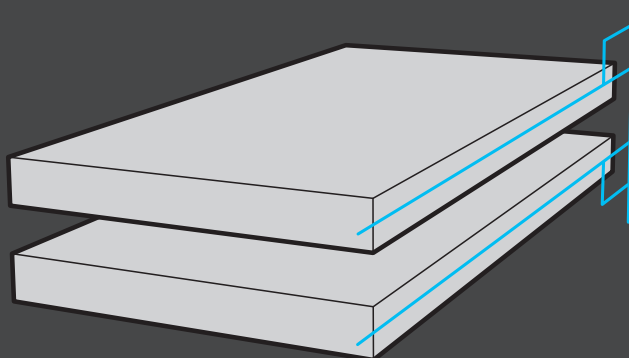
Squareness

Some examples of squareness measurements:

- Linear guideways
- Rudder installations
- Material handling equipment
- Sawmill machinery

XT22



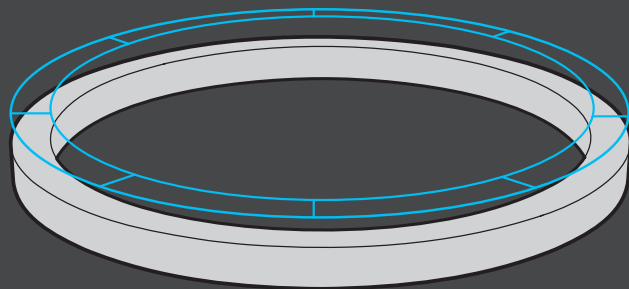


Plane parallelism

Some examples:

- Metal sheet presses
- Plastic moulding machines
- Die cast machines

XT22



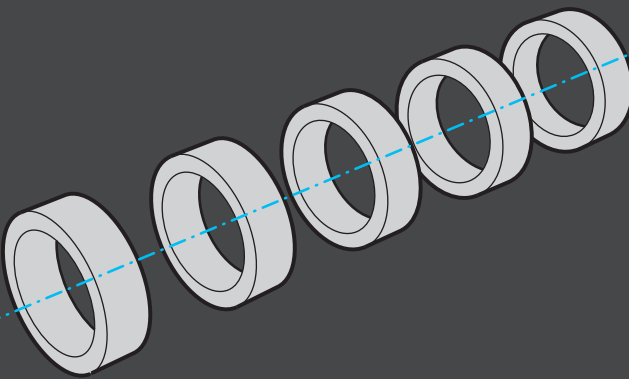
Circular flatness

Circular flatness is measured on for example:

- Slewing bearings
- Flanges for wind towers
- Flanges on heat exchangers
- Circular thrust bearings

For wind tower manufacturers we also offer system XT915 Flange flatness. For more information please see this system specific brochure or our web site.

XT20 XT21 XT22 XT23



Bore alignment

For straightness of bores and bearing journal center lines we also offer system Easy-Laser® XT950 Bore alignment. For more information please see this system specific brochure or our web site.

- Drive lines, e.g. propulsion drive lines
- Engines
- Compressors
- Gear boxes
- Support bearings for shaft lines

XT950



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.

Show



Pdf report templates

Use one of the two formats included and add notes to explain more.



Sign electronically

Sign reports directly on screen to verify your job. The signature is saved with the PDF file.



Add photos

Add photos to better explain your job.

Share



Send the reports

Share the reports via email. Possible on all platforms.



Save to USB

Save your files to an USB memory stick and copy to other devices.

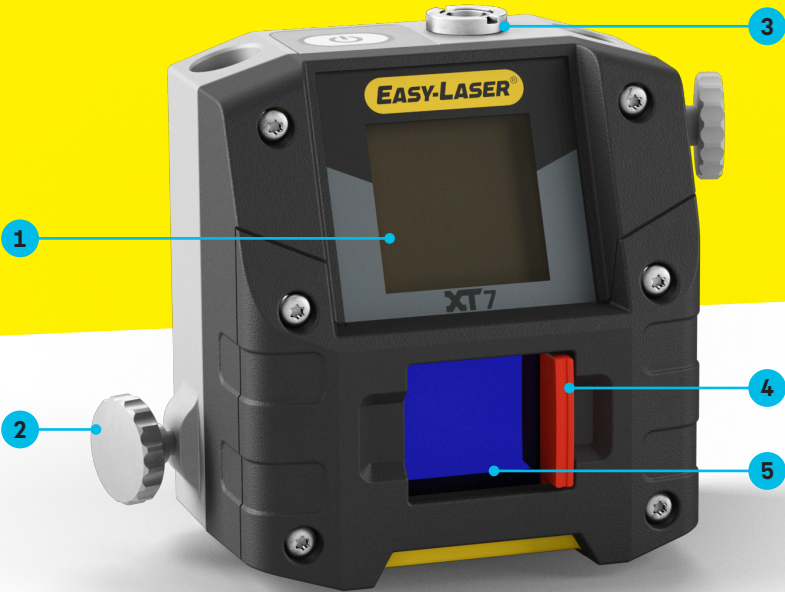


Easy-Laser PLUS™

Share files with your team with our cloud solution. But Easy-Laser PLUS™ is so much more! Learn more on the back cover.

XT920 System parts

The system comes with detector XT7 and a set of the most useful brackets. To complete the system, add the laser transmitter that best suits your application. You can also add extra brackets, rods and other accessories as needed.



XT7 Detector unit

The XT7 unit has a large 20x20 mm [0.79x0.79"] 2-axis PSD detector surface. It detects both spinning laser and stationary beam. For stationary beam it reads off and record values for both vertical and horizontal directions. For spinning laser only the vertical value. Built-in electronic inclinometer. On the display you see useful information such as angle of the unit, and a graphical target guiding you when rough aligning the laser beam to the PSD. The diagonally positioned locking knobs securely lock the unit on the rods.

1. Large TFT display

2. Locking knob

3. Charger connector
4. Slideable target/dust cover

5. PSD aperture

Key strengths

-  Rigid aluminium body. Rugged IP66/67 design.

 Built-in display showing unit position.

 High resolution* 0.001 mm/0.05 mils.
-  2-axis PSD.

 16 hours operating time.

 BT Wireless connection.

*With spin laser 0.01 mm/0.5 mils

Brackets

Brackets included with the system.



Offset bracket
Allows axial displacement of detector unit. Also adapter for attachment to C-C 40 mm.

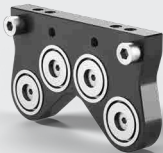


Magnet base
For use with the laser transmitter or detector.



Magnet base with turnable head
Makes it easier to align the detector to the laser beam.

Accessories



Magnetic bracket
For axial mounting on flanges or shafts.
Part No. 12-1147



Sliding table for magnet base
For precision alignment, mainly of angular prism. Magnet base not included.
Part No. 12-1200



Angular prism
With rotatable penta prism which deflects the beam 90°. Part No. 12-1352



Slide brackets
For example for bore straightness measurement. With magnetic feet.
Part No. 12-0455 [S]/12-0543 [M]/12-0510 [L]



Rods, extendable
240 mm [9.44"], set of 4. Part No. 12-0060
120 mm [4.72"], set of 4. Part No. 12-0987
(Other lengths also available.)



Large targets
For rough alignment when measuring flange flatness. 100x100 mm. Part No. 12-0544

Swivelling lasers

With the swivelling lasers you manually rotate the laser head to each detector and measurement position. They are designed for the highest accuracy and precision, and are the most obvious choice for geometrical measurements of any kind. The laser head is super stable, but still easy to turn. No need for locking/unlocking screw. Rechargeable Li-Ion battery with 30 h operating time.

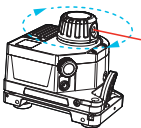


- 1. TFT display
- 2. Fine turning knob
- 3. Magnetic feet
- 4. Levelling screw
- 5. Release lever

XT20 Laser transmitter

Part No. 12-1272

Laser transmitter XT20 can be used to measure flatness, straightness and level. The laser beam can sweep 360° with a measurement distance of up to 20 metres [66'] in radius. The laser head fine turning knob makes it easy to point the beam at the detector also on long distances (gear ratio 1:132). Environmental protection IP55.



- Flatness
- Straightness
- Flange flatness
- Values
- Level
- Horizontal digital levels
- BT Wireless connection to app

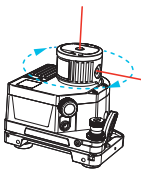


The fiber-coupled laser creates an extremely smooth laser beam profile, free from reflections and irregularities. This means that the laser beam will have very good optical properties in terms of straightness.

XT22 Laser transmitter

Part No. 12-1273

Laser transmitter XT22 can be used to measure flatness, straightness, squareness, level and parallelism. The laser beam can sweep 360° with a measurement distance of up to 40 metres [132'] in radius. The laser beam can also be pointed 90° to the sweep. The laser head super fine turning knob makes it very easy to point the beam at the detector also on long distances (gear ratio 1:1320). With fiber-coupled laser for superior accuracy.



- Flatness
- Straightness
- Flange flatness
- Values
- Level
- Squareness
- BT Wireless connection to app
- Horizontal + Vertical digital levels

Spin lasers

The spin lasers have motorized heads. Once the transmitter is set up for measurement you just move the detector to each measurement position and record the value, making it a very quick procedure. Rechargeable Li-Ion battery with 16 h operating time.

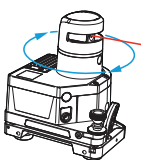


Detachable top cover

XT21 Laser transmitter

Part No. 12-1431

Laser transmitter XT21 can be used to measure flatness. The laser beam can sweep 360° with a measurement distance of up to 12 metres [40']. Motorized laser head spinning constantly and creating a laser plane over the surface. No fine turning knob available/needed. This transmitter is not suitable for levelling.



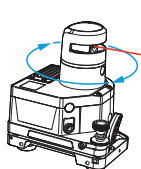
- Flatness
- Values
- Flange flatness



XT23 Laser transmitter

Part No. 12-1274

Laser transmitter XT23 can be used to measure flatness and level. The laser beam can sweep 360° with a measurement distance of up to 20 metres [66'] in radius. Motorized laser head spinning constantly and creating a laser plane over the surface. No fine turning knob available/needed.



- Flatness
- Values
- Flange flatness
- Level
- Horizontal + Vertical digital levels
- BT Wireless connection to app

System parts

Easy-Laser XT920 comes with a wheeled carrying case.

 Shock proof, drop tested carrying case.



Easy-Laser® XT920 system, Part No. 12-1494	pcs.
Detector XT7	1
Remote control	1
Multi bracket for XT laser transmitter	1
Magnet base with turnable head	1
Magnet base	2
Offset bracket	2
Rods 75 mm [2.95"]	4
Rods 120 mm [4.72"]	8
Measuring tape 5 m [16.4']	1
Charger (100–240 V AC)	1
DC split cable for charging	1
DC to USB adapter, for charging	1
Cleaning cloth for optics	1
USB memory with manuals	1
Hexagon wrench set	1
Mounting screws for XT Laser transmitter	1
Carrying case with wheels	1

Easy-Laser® XT920 system, transmitters	Part No.
XT20 Laser transmitter	12-1272
XT21 Laser transmitter	12-1431
XT22 Laser transmitter	12-1273
XT23 Laser transmitter	12-1274



For detailed technical data, please visit easylaser.com

Complete your system

For a complete system add the XT12 tablet.



XT12 Display unit

Part No. 12-1291

Rugged, robust, industrial grade tablet with wear resistant rubberized protective coating. IP66 and 67, dust- water- and shockproof. Rechargeable Li-Ion battery. Button to check battery level also when unit is turned off. HDMI connector to share the display screen on a large monitor without any additional software.

Key strengths

-  Rugged, industrial grade IP66/67 design
-  13 MP camera
-  Large 8" glove enabled touch-screen
-  16 hour operating time
-  USB C / USB A
-  AV connector



Shoulder strap

Part No. 12-0997

Laser transmitter mounting

Easy-Laser laser transmitters stand out for their versatile and flexible mounting options. They can be mounted and set up on the measurement object in several different ways, making the possibilities almost unlimited.



Multi bracket (included)



Safety strap (accessory)

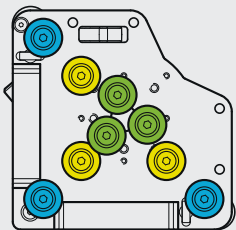
Part No. 03-1406



Tripod (accessory)

For use with laser transmitter and Angular prism.

Part No. 12-0269



The three super magnets can be mounted in many different positions, making it possible to also place the transmitter on a small surface, when needed. Here are some examples shown.



132x132 mm
[5.2x5.2"]



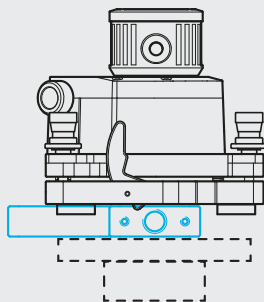
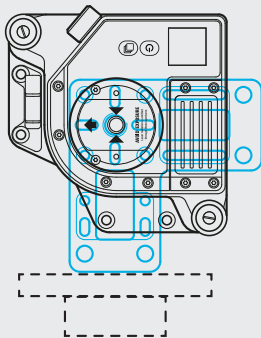
82x82 mm
[3.2x3.2"]



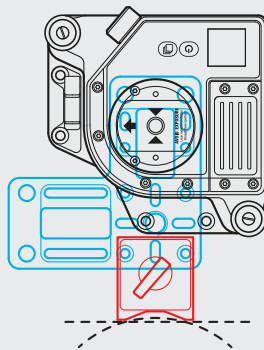
53x53 mm
[2.1x2.1"]



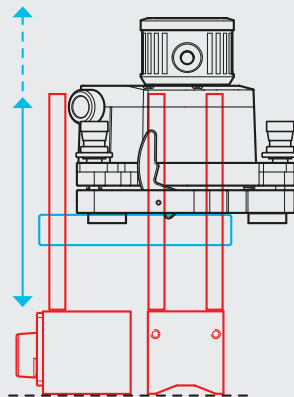
Arbitrary
placement



Use the Multi-bracket as adapter for mounting on tripod, vertically or horizontally. (Please note that only XT22 and XT23 has vertical digital levels).

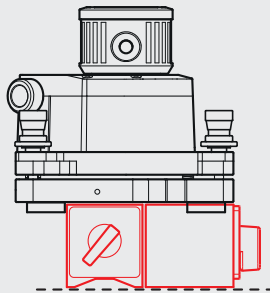
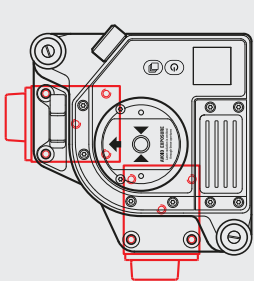


Use the Multi bracket to mount the transmitter vertically on a magnet base.



Use rods on regular magnet bases to position the transmitter at required height. For example when you need to place the transmitter on a lower position than the surface to be measured.

120x120 mm
[4.7x4.7"]



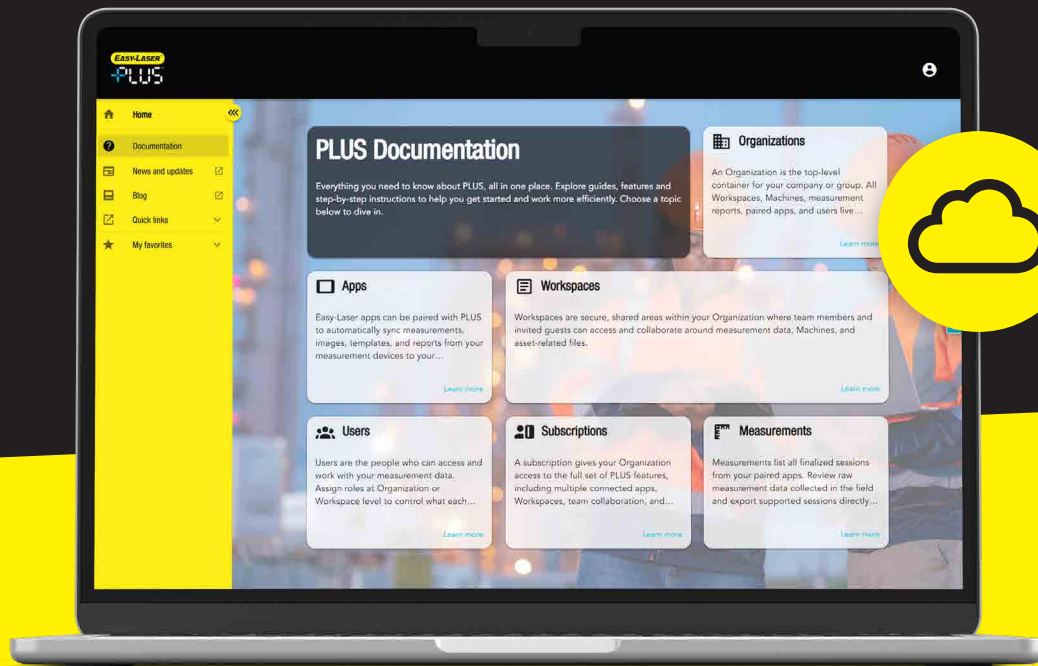
Mount one or two magnet bases directly on the tilt table.

1 60x70 mm
[2.4x2.8"]

2 115x115 mm
[4.5x4.5"]



Visit our knowledge hub!



Add extra power to your alignment system

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.
- ✓ Share measurement templates across the team to ensure a structured and quality-assured way of working.

Simply put, Easy-Laser PLUS™ is your hub for the team's measurement jobs and extra security for your data. But that's not all... Learn more at easylaser.com

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