

MEASUREMENT AND ALIGNMENT SYSTEMS PRODUCT CATALOGUE

STRAIGHTFORWARD BY ALL MEASURES[™]

1.800.561.8187



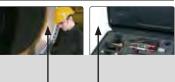
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WHAT THE PICTURES SHOW

System picture. Does only show the main parts of the system, not all items that are included. Always read the Part list for complete system specification.





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Easy-Laser® E915 Flange Spin Part No: 12-0526

Measure with spinning laser. Evaluate dire See the result as a true 3D image in the dis measuring. Then evaluate the result easily settings, for example three point reference can also be done directly on site without h with separate analysis programs, which wa makes production much more efficient.

The system includes laser transmitter D23 head. This is how it works in brief: The lase ter rotates constantly and creates a referer measurement object. Measurements are p not have to align the beam for each new m place the detector at the desired measurer

Easy-Laser [®] Product overvie

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D E E XT: Indicates which product range the part is compatible with. If no letter is present, the part fits all ranges.

XT* : If there is an asterisk *, the bracket will need an adapter to fit.

Note: If there are other compatibility limitations these are mentioned for each product. For more information see next page.



Main product picture ¹

Detector E5

Part No: 12-0509 Description: Detector for the E [0.79"x0.79"]. Built-in 360° ele making it possible to connect t ly mounted on rods, but has m thanks to threads on two sides Note: With Dual Detection Tecl fixed point laser and spinning l

Additional pictures 1

Can show the system/product in an application, a product function or another view.

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www.**IL** s may show items that are not included for the specific part humbe

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STRAIGHTFORWARD BY ALL MEASURES

Easy-Laser[®] is one of the world's leading manufacturers and suppliers of laser measurement systems for all types of industry. We provide extreme accuracy and precision. But that's not what sets us apart. Today, when virtually anyone with a decent laser can do "straight", to get ahead, you need to be a bit more forward-thinking.

Because, in the long run, what really counts is neither the absolute straightness of an individual component nor the precise alignment of shafts. It's what these measures add up to: Increased productivity and the saving of resources. Those are the things we ultimately deliver. And from that perspective our most important task is to help you make the road leading there as free from bumps and bends as possible.

That means developing user-friendly measurement and alignment systems that are as easy to get your head around, as they are versatile and scalable. It also means shortening delivery times, extending warranties and optimizing training and support.

Moreover, you can always expect us, or any of our partners, to give you an honest opinion on which of our products are crucial to your operations and which you can do without. What really needs to be aligned and what not. So that what we offer you is a solution perfectly aligned with your needs – and your budget.

Regardless of whether you're a service technician, a purchaser or the CFO of a multinational industrial group, you'll find Easy-Laser[®] truly easy to deal with. Or as we like to put it – straightforward by all measures.



LONG WARRANTY

The systems come with a 3 year limited warranty (Easy-Laser® D550: 4 years extended warranty period.). The manufacturing and quality systems are ISO9001 approved.

OUR SERVICE CONCEPT

Our service department usually takes care of servicing or calibration within five working days. All this makes Easy-Laser[®] a safer working partner for your operation. As an extra service, we provide a 48 hour express service for when accidents occur and time is of the essence. Contact us for further information about terms and conditions.

COMPATIBILITY BETWEEN D, E AND XT

Easy-Laser[®] measurement systems are extremely versatile in their standard form. By using clever accessories, you can adapt the systems for your own needs, now and in the future as your measurement requirements change. You can also combine parts from one system with another. This is cost-effective! However, there are some differences you need to know:

Note1: The D-series, E-series and XT-series detectors and display units can only be used within its own product series. This is due to software communication. Laser transmitters are no problem, because they do not communicate with measurement software.

Note2: Brackets for D- and E-series has a rod C–C of 40 mm, XT-series rod C–C is 56 mm. The new XT offset bracket (12-1008) function as an adaptor for these two measures, but doesn't fit all older brackets.

Note3: Brackets for D550Ex has a rod C–C of 70 mm. These brackets are marked |Ex|.







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LEARN MORE ABOUT A SPECIFIC MEASUREMENT SYSTEM OR APPLICATION

In our measurement system brochures you can find technical specifications and more information on the systems and products in this Product overview. Available for download in different languages from:







Easy-Laser® E970/E975



Easy-Laser® E960



Easy-Laser® E950



Easy-Laser® E940



Easy-Laser® E930



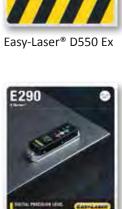
Easy-Laser® E920



Easy-Laser® E910/E915



Easy-Laser® Wind Power Shaft Alignment



Easy-Laser® E290



Easy-Laser® XT440

XT440

Easy-Laser® E180 1.800.561.8187



Easy-Laser® E710/E720

Easy-Laser® E170

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Easy-Laser® E540



Easy-Laser® D160 www. .com

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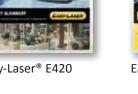


Easy-Laser® D90

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Easy-Laser® E420





Easy-Laser® D130



Emba Machinery AB uses Easy-Laser® throughout its production

Emba Machinery is a Swedish manufacturer of converting machines for the corrugated board industry. They acquired a measurement system from Easy-Laser in 2015. Their machines can be found within the packaging industry all over the world. Thanks to their reliable function, short set-up time and high manufacturing speed, Emba's machines are renowned for high productivity and product quality.

What do Emba's machines do?

Stefan Stålhandske, Production technician at Emba Machinery, answers: To put it simply, they supply a sheet of corrugated board with flexographic printing, before creating slots, punching, gluing and folding the sheet to produce a flat box. The final packaging has to be of the very best quality, as it is often the first thing you see when you purchase goods. The quality demands mean that the packaging also has to be strong, i.e. the corrugated board has to retain its strength through the conversion process. It must protect the packaged product during transport and handling, and it has to be stackable. It must be able to be produced quickly, and changing over the machines to a different format must also take place rapidly. Some of Emba's machine models produce up to 440 sheets per minute. Try to picture that!



There are stringent demands regarding product quality, machine availability and manufacturing speed. How does this influence the importance of the machines' quality?

The machines are made up of many mechanical parts, both fixed and moving parts in the form of linear guides and rotating components. Many parts are dependent on one another. Emba places stringent demands on itself and its suppliers. A separate measurement department checks machined components. Installation procedures are based on combined experience as well as generally applied requirements and tolerances. Many machine parts were previously manufactured in our own production premises in Örebro, which entailed a very high level of control of manufactured components and traceability to the machines in which they were produced. We now have a number of suppliers who have to manufacture to the same high level of accuracy, which has meant that we have been forced to develop new procedures and find new control tools.

Why was the decision taken to acquire laser instruments?

The equipment was principally procured in order to qualityassure and guarantee that all machine units are installed correctly with regard to the alignment of the stands hole centre to hole centre, as well as with regard to their squareness and parallelism. Previous measurement methods such as crossmeasurement and measurement using specially manufactured tools must be replaced to achieve a better method of handling and documenting measurement results. We also considered that the equipment can provide us with the possibility in future of measuring the entire machine line. Many of the machine components are large and heavy, and require a mobile measurement system.

Why did you choose Easy-Laser?

Emba's development department got to know the product at an earlier meeting at an industrial fair. The way we were received by Easy-Laser, along with the versatility the instruments have to offer, made it an easy decision, I would say.

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Flatness measurement of machine end after machining.

You mentioned versatility – what measurements do you carry out?

Flatness measurements on large, heavy components, as well as straightness measurements on long beams with linear guides. During installation, we align machine ends with the aid of hole centering/shaft alignment. We also measure straightness and squareness at this time, as well as parallelism between various linear movements. These measurements are performed with an E720 supplemented with brackets. To measure parallelism between rolls, we have opted to supplement the system with the Roll alignment kit E975. The instruments have also been used to perform measurements in machine tools and in order to check that diabase surface plates are level. So yes, versatility really is the right word.



Checking roll parallelism using the Easy-Laser Roll alignment kit.

How has knowledge of how to use the instruments been secured?

The software is user-friendly, but many of the users have never operated this type of equipment before. As a result, two training sessions have been conducted with Easy-Laser, lasting a total of 4 days. The training has been conducted at Emba's premises, in machines under construction. The training, which intersperses theory with practical exercises, was divided up such that the participants began with basic geometrical measurements and hole centering in the first session. During the

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How were the measurements performed before and what added value does Easy-Laser provide?

In some of the measurements, we have replaced devices and dial indicators. The measurements are performed more rapidly using the laser instrument, and if you are unsure of measurement data, it is easy to repeat the measurement. Above all, however, the measurements are more reliable. For example, we have linear guides installed on beams that have to move in parallel with other linear guides installed on other beams. When we measured these before using dial indicators, we were unable to capture local deviations in the same way as now.



The linear guides can be parallel, but both beams may be crooked at the same place.

Our laser instrument now gives us the opportunity to pinpoint these deviations as well. In some cases, earlier measurement procedures have been replaced so that we now measure the machine from different positions instead, which are more relevant for the machine's conditions. Some measurements have not been conducted previously. The fact that we can now perform these measurements provides us with a basis for discussions with our suppliers and contributes to our work of consistently improving our quality.



Straightness measurement of linear guide with laser transmitter D22 from system E720.

Emba now uses the Roll alignment kit E975 to measure that the rolls are parallel with each other. What happens if they are not parallel?

Some of the most critical rolls are located in the printers. If the rolls are not correctly aligned, this can result in the print being positioned incorrectly on the package, which is unaccept-

USER STORY

punching and a folding result that is outside of the stipulated tolerances, all of which are also entirely unacceptable. As Emba's machines are renowned for their good range of formats as well as their high machine speed, the machine alignment from unit level to the overall machine line is an important aspect in achieving a good end result, i.e. a perfect box.

How was roll parallelism checked previously and what is the advantage of E975?

When building units, we relied on the cross-measurement method as well as levelling with the aid of a precision level. The cross-measurement method is difficult, as access to reference points can be difficult or non-existent. When installing machines, we rely on specially manufactured spacers between the units in order to achieve parallelism as well as precision levels for levelling. Where possible, we can use tape measures to take measurements covering two separate rolls. With the laser instrument, we have the potential to measure all or parts of the machine, in order subsequently to monitor any adjustment of rolls in "live" mode.



The feeder table is another part of the machine that is measured with Easy-Laser[®]. Here the aim is to check e.g. that the rolls are parallel and at right angles to the table.

During shipping, your machines are split into smaller units in containers, and are reassembled on site on the customer's premises. This must place great demands on your technicians? Absolutely! Prior to handing over to the customer, we perform tests in accordance with a special test protocol. The tests are performed under production-like conditions, for example with measurements being taken regarding register variations in the positioning of printing, slots and punches. The position of

printing, slots and punches must be able to be repeated within the tolerances, regardless of machine speed. In future, new measurement methods with the aid of the

newly acquired laser instrument will ensure better control of the machine set-up, which ought to generate a faster and safer start-up of production in the EMBA machine.

Thank you Stefan for giving us the opportunity to hear how you use Easy-Laser!

Here you can learn more about EMBA:

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LEARN SOME MORE

This catalogue includes a wide range of products, both lasers, detectors and brackets. The user story above reflects the versatility of our measurement and alignment systems. How the systems can be combined and used to align almost everything.

Read more interesting cases on: <u>blog.easy-laser.com</u>.

Here are some direct links to click if you read this as a PDF: <u>Adapting to the job</u> <u>Making the impossible possible</u>

NEW PRODUCT!



GENERATION XT – A DECLARATION OF INDEPENDENCE

At Easy-Laser[®] we have always aimed at making measurement and alignment products that are smarter, more versatile and easier to work with than any others on the market. So far, we have done so within the technical boundaries generally accepted in our industry. Now, as the first in our field, we have come up with a pioneer solution for breaking free of these boundaries.

With XT, our next generation of Easy-Laser[®] products, we launch a new era in laser alignment. One that better aligns with today's industry needs. We call it the age of independence.

By managing to add intelligence to where the actual work is done, we have paved way for a new generation of bright measuring units capable of communicating with virtually any relevant display unit on the planet.

To begin with, we launch functionality for the two major tablet operating systems, opening up a number of new possibilities for you as a user. Simply download our straightforward XT application and you're free to work with whatever iOS or Android gadgets suit you and your company the best. Talk about a revolution!

The first XT products to see the light of day are a set of measuring units for shaft alignment, and our new XT display unit. Both equipped with a special rugged design that makes them even more durable than their tough predecessors.







Run the app on your iOS or Android device. Learn more about the system on page 24. Test the Easy-Laser XT Alignment app:







COMPLETE SYSTEMS



Note: The look of the E51 Display unit will be updated for the E9xx and E710 systems during second half of 2016. This change might not be reflected on all pictures on the following pages.



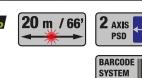
Note: The colour of the laser adjustment knob will be changed from red to yellow during second half of 2016. This change might not be reflected on all pictures on the following pages.

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🚯 Bluetooth°









A complete system contains:

- 12-0418 1 Display unit E51
- 12-0168 Laser transmitter D23 1
- 12-0509 Detector E5 1
- 12-0436 1 Bluetooth® unit 03-0833 2 Electronic target
- 12-0074 1 Cable 2 m
- 12-0108 1 Cable 5 m, extension
- Magnet base with turnable head 12-0045 1
- 12-0016 Shaft bracket 1
- 12-0624 Bracket for electronic target 2
- 12-0169 1 Rod bracket with turnable head
- 12-0485 Magnet bracket short, with turnable head 1
- Magnet bracket long, with turnable head 12-0484 1 12-0483 Bracket for tilt table 1
- 12-0482 Index table 90° 1
- 12-0059 1 Set of Rods 4x60 mm
- 12-0324 Rods (8x120 mm) 1
- 01-0565 2 Large targets
- Manual (Note: Refers to English manual) 05-0685 1
- 03-0842 Measuring tape 5 m 1
- 03-0914 USB memory stick with documentation 1
- 03-0822 USB cable 1
- 03-0821 1 Battery charger (100-240 V AC)
- 03-0967 1 Hexagon wrench set (incl. with 12-0168) 01-0048 1
- Rod tightening tool 4 mm (incl. with 12-0168)
- 12-0495 Shoulder strap for Display unit 1 03-0878 1 Cleaning cloth for optics

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Easy-Laser[®] E980 Sawmill Part No: 12-0727

Measurement and alignment of sawmill machinery

Easy-Laser[®] E980 is a laser based measurement and alignment system that helps sawmills to make optimal use of their machines. By setting the machines up correctly it is possible to maintain a high rate of production with the highest quality end products hour after hour.

With Easy-Laser[®] E980 measuring and adjustment of reducers, counterholds, saw blades and discs become a simple and quick task. The laser line works as an absolutely straight ruler for 40 metres, and is very practical for the demanding and dusty environment of a sawmill. It replaces the long wire used traditionally, and gives many more possibilities for aligning the saw equipment. Thanks to the user friendliness of a laser measurement system the alignment work is properly done when necessary. The investment is quickly returned through fewer production stoppages and more even quality in the sawn timber. It can be used equally well for circular saws and band saws.

Benefits of using Easy-Laser® E980 are:

- Higher production speed
- Less unplanned downtime
- Better product quality
- Longer lifetime for blades
- Longer lifetime for bearings
- Less vibration
- Less waste material

Most common accessories:

- 12-0294 1 AC adaptor for laser transmitter
- Profile measurement unit for blade wheels 12-0227





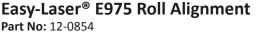




66' 2 AXIS PSD BARCODE SYSTEM (in each dire Thanks to th can be used

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For fast exchange of rolls

System E975 is designed mainly for roll alignment. It is well suited when just one or two rolls are to be replaced or adjusted at the same time. For rolls with diameters 80–400 mm [3.1–15.8"], and a minimum length of 300 mm [11.8"]. The large roll kit (Accessory, Part No. 12-0885) makes it possible to measure diameters 400–1300 mm [15.7–51.2"]. Accessory brackets for other dimensions available on request.

Measurement distance between transmitter and detector up to 20 m (in each direction) [66 feet].

Thanks to the fact that the system is quick to set up on the machine it can be used during short stoppages to check and if necessary adjust or replace a roll. Where more advanced methods might require that the measuring service is scheduled some time in advance and use contracted personnel, with Easy-Laser[®] E975 you can do the job yourself.

The system can be expanded with other detectors and brackets for more geometric measurement possibilities.

Note: The E2 detector that is included reads angles, not positions. This means that if you want to take full advantage of the measurement program package of system E975, you will also need a positional detector like e.g. the E7.

A. With legs from Large Roll Kit mounted (accessory).

Alternative mounting of units: B: Top attachment C: Front attachment. If space on top is limited.

Most common accessories:

Large Roll kit

Barcode reader

Charger 12-36V

Measuring unit EM

Measuring unit ES

Offset bracket

Thermal printer

Angular prism

Splitter box

1 Tripod

V-bracket with chain

Slide bracket Min. Ø120 mm

Slide bracket Min. Ø200 mm

Slide bracket Min. Ø300 mm

Note: always check number of items included for each Part No.

Detector E7

E180 BTA

12-0885 1

1

1

1

1

1

1

1

1

1

1

1

1

12-0752

12-0796

12-0619

12-0433

12-0016

01-1165

12-0597

03-1004

12-0455

12-0543

12-0510

12-0269

12-0046

before ordering.

12-0585 1

12-0434 1

A complete system contains:

- 12-0418 1 Display unit E-series E51
- 12-0022 1 Laser transmitter D22 incl. tilt table
- 12-0845 1 Detector E2
- 12-0849 1 Roll bracket
- 12-0846 1 Digital Precision Level E290
- 12-0013 1 Magnet base 12-0874 1 Adapter plate for tilt table to magnet base
- 01-0044 2 Rods 240 mm
- 01-0873 2 Rods 120 mm
- 01-0043 2 Rods 60 mm
- 12-0915 1 Safety strap for laser transmitter
- 05-0685 1 Manual (Note: Refers to English manual)
- 03-0842 1 Measuring tape 5 m
- 03-0914 1 USB memory stick with documentation 03-0822 1 USB cable
- 03-0821 1 Battery charger (100–240 V AC)
- 12-0750 1 DC charging cable
- 12-0751 1 DC to USB adapter
- 03-0967 1 Hexagon wrench set
- 12-0495 1 Shoulder strap for Display unit
- 03-0878 1 Cleaning cloth for optics
- 12-0870 1 Carrying case

Complete system:

Weight: 15.0 kg [33.1 lbs] WxHxD: 550x450x210 mm [21.6x17.7x8.3"]

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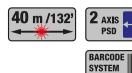


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11



8 Bluetooth 🦉









A complete system contains:

- 12-0418 1 Display unit E-series E51
- 12-0022 1 Laser transmitter D22 incl. tilt table
- 12-0752 1 Detector E7
- 12-0436 1 Bluetooth® unit for E7
- 12-0846 1 E290 Digital Precision Level
- 12-0901 1 Extension Kit for E290
- 12-0074 1 Cable 2 m
- 12-0108 1 Cable 5 m, extension
- 12-0046 1 Angular prism
- 12-0203 1 Parallelity kit
- 12-0269 2 Tripod
- 12-0060 1 Set of Rods 4x240 mm 12-0059 1 Set of Rods 4x60 mm
- 12-0059 1 Set of Rods 4x60 mm 12-0915 1 Safety strap for laser transmitt
- 12-0915 1 Safety strap for laser transmitter D22 12-0915 1 Safety strap for E290
- 05-0685 1 Manual (Note: Refers to English manual)
- 03-0842 1 Measuring tape 5 m
- 03-0914 1 USB memory stick with documentation
- 03-0822 1 USB cable
- 03-0821 1 Battery charger (100-240 V AC)
- 12-0750 1 DC charging cable
- 12-0751 1 DC to USB adapter
- 03-0967 1 Hexagon wrench set
- 12-0495 1 Shoulder strap for Display unit
- 03-0878 1 Cleaning cloth for optics
- 12-0869 1 Carrying case

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Easy-Laser[®] E970 Parallelism Part No: 12-0853

For parallelism measurement

For parallelism measurement of rolls and other objects in numerous applications. The E970 is especially suitable when many objects are to be measured and aligned, and when the distances are long. This system use the traditional method where the laser beam (reference) is pointed alongside the machine, and then deflected 90° towards the detector on the measurement object by a penta prism. Measurement values for the horizontal position are registered in both ends of the object. The included precision level is used for the vertical position. Any chosen object or the baseline can be used as a reference. For rolls with diameter 40 mm [1.6"] and larger. Maximum measurement distance with a standard system is 80 metres [260 feet] (40 metres in each direction from the transmitter).

Easy-Laser[®] E970 is a very versatile system. You can also use it to measure level, straightness and flatness on wire sections (suction boxes), flatness on bases and straightness on rolls. With a few accessories you can also perform shaft alignment. This makes Easy-Laser[®] a very cost effective solution for your maintenance department.

Most common accessories:

- 12-0796 1 F180 BTA
- 12-0618 1 Battery pack with Bluetooth® technology
- 12-0619 1 Barcode reader
- 12-0585 1 Charger 12-36V
- 12-0434 1 Measuring unit EM
- 12-0433 1 Measuring unit ES
- 12-0016 1 V-bracket with chain
- 01-1165 1 Offset bracket
- 12-0597 1 Splitter box
- 03-1004 1 Thermal printer
- 12-0455 1 Slide bracket Min. \emptyset 120 mm
- 12-0543 1 Slide bracket Min. Ø200 mm
- 12-0510 1 Slide bracket Min. Ø300 mm
- 12-0269 1 Tripod 12-0046 1 Angular prism
 - JU40 I Angular prism

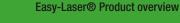
Note: always check number of items included for each Part No. before ordering.

Complete system:

Weight: 18.9 kg [41.7 lbs] WxHxD: 620x490x220 mm [24.4x19.3x8.7"] Tripod: Weight: 7.9 kg [17.4 lbs]

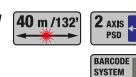
Transport length: 1110 mm [44"]

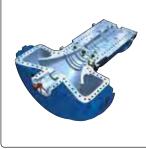






8 Bluetooth° 🌌









A complete system contains:

12-0418	1	Display unit E-series E51
12-0075	1	Laser transmitter D75
12-0752	1	Detector E7

- 12-0436 1 Bluetooth® unit
- 12-0074 1 Cable 2 m
- 12-0108 1 Cable 5 m, extension
- 12-0385 1 Laser transmitter bracket
- 12-0661 1 Offset hub for Laser transmitter
- 12-0438 1 Detector bracket Short stroke
- 12-0443 2 Centering target
- 12-0495 1 Shoulder strap for Display unit
- 05-0685 1 Manual (Note: Refers to English manual)
- 03-0842 1 Measuring tape 5 m
- 03-0914 1 USB Memory stick with documentation
- 03-0822 1 USB Cable
- 03-0821 1 Battery charger (100-240 V AC)
- 03-0878 1 Cleaning cloth for optics
- 12-0724 1 Carrying case with wheels

Complete system:

Weight: 30.3 kg [66.8 lbs] WxHxD: 1220x460x170 mm [48.0x18.1x6.7"]

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Easy-Laser[®] E960-A Turbine alignment Part No: 12-0710

Reliability and precision

Easy-Laser® E960-**A** has a measuring probe with a stroke of 10 mm (Short stroke). The slidable tube makes it possible to measure several positions in a row without moving the bracket. Suitable for gas turbines and smaller steam turbines.makes the measurement and adjustment work of diapraghms and bearings easier thanks to the wireless detector unit and measurement programs that guides you through the measurement process. All of the parts included in the systems are designed and built for even the most demanding workplace and for easy setup on any machinery. The versatile design solves the straightness measurement problems quickly and with precision for any kind of application. Objects up to 40 m [132 feet] can be measured. The detector reads measurement values with a resolution of 0.001 mm [0.05 mils]. Measures diameters 150–1700 mm [5.9"–67"].

Versatile programs

The straightness programs of system E960 are very versatile, and let you work in the way that suits every job best. You can add, remove and remeasure measurement points at any time during the measurement. Up to 999 points can be handled by the program. You can include both full bores and half bores in any possible combination in one measurement, the program will calculate the correct centre line in all cases. The measurement program includes many different methods for straightness measurement: 1-point measurement, 4-point measurement, Multipoint measurement (also ovality measurement), 3-point measurement, 3-point measurement with arbitrary angles. Optionally a reference detector can be used to monitor the laser transmitter position at long distances.

The measurement result

Thanks to the large colour display with clear graphs and measurement data you can evaluate the result directly on site. Any point can be set as reference and you can set an offset to which the centre line will be recalculated. You can also calculate waviness (short and long) and best-fit for the points. If you want, the result can also be checked against a tolerance value. The measurement system takes care of all these complicated calculations for you.

Most common accessories:

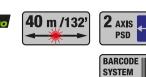
- 12-0805 1 Measuring probe ruby, diameter 5 mm
- 12-0801 1 Measuring probe ruby, diameter 2.5 mm
- 12-0618 1 Battery pack with Bluetooth® technology
- 12-0707 1 Offset hub arm kit for diameters 100–500 mm
- 12-0707 1 Onset hub ann kit for diameters 100-500 12-0752 1 E7 (as reference detector)
- 12-0752 1 E7 (as reference detector 12-0585 1 Charger 12–36V
- 12-0585 1 Charger 12–36V 12-0434 1 Measuring unit M
- 12-0433 1 Measuring unit S
- 12-0016 1 V-bracket with chain
- 01-1165 1 Offset bracket
- 12-0187 1 Magnetic bracket for D75
- 12-0282 1 Set of extension arms
- 12-0597 1 Splitter box
- 03-1004 1 Thermal printer
- 12-0022 1 Laser transmitter D22
- 12-0706 1 Laser transmitter D25

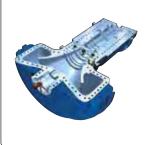
Note: always check number of items included for each Part No. before ordering.















A complete system contains:

12-0418	1	Display unit E-series	E51
			-

- 12-0075 1 Laser transmitter D75
- 12-0752 1 Detector E7 12-0436 1 Bluetooth® unit
- 12-0074 1 Cable 2 m
- 12-0074 1 Cable 2 m 12-0108 1 Cable 5 m, extension
- 12-0108 1 Gable 5 m, extension 12-0385 1 Laser transmitter bracket
- 12-0385 1 Laser transmitter bracket 12-0661 1 Offset hub for Laser transmitter
- 12-0001 1 Onset hub for Laser transmitte
- 12-0443 2 Centering target
- 12-0443 2 Centering target 12-0495 1 Shoulder strap for Display unit
- 05-0685 1 Manual (Note: Refers to English manual)
- 03-0842 1 Measuring tape 5 m
- 03-0914 1 USB Memory stick with documentation
- 03-0822 1 USB Cable
- 03-0821 1 Battery charger (100-240 V AC)
- 03-0878 1 Cleaning cloth for optics
- 12-0724 1 Carrying case with wheels

Complete system:

Weight: 31.5 kg [69.4 lbs] WxHxD: 1220x460x170 mm [48.0x18.1x6.7"]

1.800.561.8187

Easy-Laser[®] E960-B Turbine alignment Part No: 12-0711

Reliability and precision

Easy-Laser® E960-**B** has a measuring probe with a stroke of 60 mm (Long stroke). Suitable for larger turbines. The system makes the measurement and adjustment work of diapraghms and bearings easier thanks to the wire-less detector unit and measurement programs that guides you through the measurement process. All of the parts included in the systems are designed and built for even the most demanding workplace and for easy setup on any machinery. The versatile design solves the straightness measurement problems quickly and with precision for any kind of application. Objects up to 40 m [132 feet] can be measured. The detector reads measurement values with a resolution of 0.001 mm [0.05 mils]. Measures diameters 200–1700 mm [7.8"–67"] as standard, and up to 4500 mm [177"] with accessory brackets.

Versatile programs

The straightness programs of system E960 are very versatile, and let you work in the way that suits every job best. You can add, remove and remeasure measurement points at any time during the measurement. Up to 999 points can be handled by the program. You can include both full bores and half bores in any possible combination in one measurement, the program will calculate the correct centre line in all cases. The measurement program includes many different methods for straightness measurement: 1-point measurement, 4-point measurement, Multipoint measurement (also ovality measurement), 3-point measurement, 3-point measurement with arbitrary angles. Optionally a reference detector can be used to monitor the laser transmitter position at long distances.

The measurement result

Thanks to the large colour display with clear graphs and measurement data you can evaluate the result directly on site. Any point can be set as reference and you can set an offset to which the centre line will be recalculated. You can also calculate waviness (short and long) and best-fit for the points. If you want, the result can also be checked against a tolerance value. The measurement system takes care of all these complicated calculations for you.

Most common accessories:

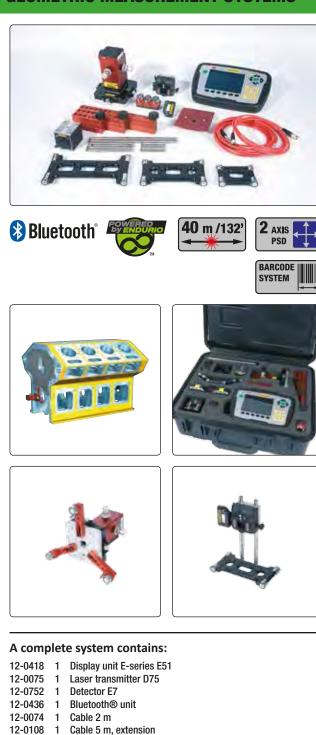
- 12-08051Measuring probe ruby, diameter 5 mm12-08011Measuring probe ruby, diameter 2.5 mm12-06181Battery pack with Bluetooth® technology
- 12-0707 1 Offset hub arm kit for diameters 100-500 mm
- 12-0752 1 E7 (as reference detector)
- 12-0585 1 Charger 12-36V
- 12-0434 1 Measuring unit M
- 12-0433 1 Measuring unit S
- 12-0016 1 V-bracket with chain
- 01-1165 1 Offset bracket
- 12-0187 1 Magnetic bracket for D75
- 12-0282 1 Set of extension arms 12-0597 1 Splitter box
 - 2-0597 1 Splitter box 3-1004 1 Thermal pri
- 03-1004 1 Thermal printer 12-0022 1 Laser transmitter D22
 - -0022 I Laser transmitter D22
- 12-0706 1 Laser transmitter D25

Note: always check number of items included for each Part No. before ordering.



Easy-Laser® Product overview

www.icn.com



Easy-Laser[®] E950-A Bore alignment Part No: 12-0676

Bore alignment with the highest reliability and precision

Easy-Laser[®] E950-**A** is primarily designed for diesel engines (for example crank and camshaft bearings), gearboxes, compressors and similar applications. Positioning workpieces in machine tools is also an appropriate application.

Easy-Laser[®] E950 makes checking and aligning bearings and bearing journals easier thanks to wireless detectors and versatile brackets. A large colour display with clear graphics and software that guides the user through the entire measurement process contributes to simple operation. The system automatically calculates the bearing journals positions in relation to each other, both horizontally and vertically. You can then evaluate the results directly on-site with different calculation methods such as Best fit around zero and Waviness. It is also possible to analyse the different choices of reference points and set the offset and tolerance values.

A great feature is the check of ovality, for example, to analyse the wear rate. The measurement system takes care of all these complicated calculations for you. You measure and align both full and half bearing journals with equal simplicity. The wireless detector eliminates uncertain factors such as cable pull. All parts are designed for maximum accuracy and stability, and measure with a resolution of 0.001 mm [0.05 mils]. Measurement distance up to 40 m [130 feet]. Easy-Laser® E950 is suitable for use both in production and out in the field.

Also straightness of shafts and coupling alignment

With the systems, you can also measure the straightness of shafts, foundations, etc. without any additional accessories. With the measuring devices for shaft alignment (accessories), you have the most complete measurement system to align the entire drive train on the market. Programs for all types of measurements are included as standard, you then adapt the measurement system with brackets and detectors for your needs now and in the future.

Most common accessories:

- 12-0618 1 Battery pack with Bluetooth® technology
- 12-0619 1 Barcode reader
- 12-0585 1 Charger 12-36V
- 12-0434 1 Measuring unit M
- 12-0433 1 Measuring unit S
- 12-0016 1 V-bracket with chain
- 01-1165 1 Offset bracket
- 12-0187 1 Magnetic bracket for D75
- 12-0282 1 Set of extension arms
- 12-0580 1 Axial extension arms
- 12-0597 1 Splitter box 03-1004 1 Thermal printer
- 12-0022 1 Laser transmitter D22

ייבב ו במסט עמווטוווונפו שבב

Note: always check number of items included for each Part No. before ordering.

12-0059 1 Set of rods (4x60 mm) 01-0938 2 Rods 30 mm

12-0661

12-0384

12-0154

12-0455

12-0543

12-0510

12-0588

12-0013

1

1

1

1

1

1

1

1

- 01-0873 4 Rods 120 mm
- 01-0044 2 Rods 240 mm
- 12-0495 1 Shoulder strap for Display unit
- 05-0685 1 Manual (Note: Refers to English manual)

Large target E-series

Magnet base

- 03-0842 1 Measuring tape 5 m
- 03-0914 1 USB Memory stick with documentation

Offset hub for Laser transmitter

Slide bracket Min. Ø120 mm

Slide bracket Min. Ø200 mm

Slide bracket Min. Ø300 mm

Set of magnets for offset hub arms

Set of offset hub arms for diameters 100-500 mm

- 03-0822 1 USB Cable
- 03-0821 1 Battery charger (100-240 V AC)
- 03-0967 1 Hexagon wrench set
- 03-0878 1 Cleaning cloth for optics

12-0684 1 Carrving case Linebore A

Complete system: Weight: 14.0 kg [30.8 lbs]. WxHxD: 550x450x210 mm [21.6x17.7x8.3"]

.com



🚯 Bluetooth









A complete system contains:

12-0418	1	Display unit E-series E51
12-0075	1	Laser transmitter D75

- 2-0075 12-0752 1 Detector F7
- 12-0436 1 Bluetooth® unit
- 12-0074 Cable 2 m 1
- 12-0108 1 Cable 5 m, extension
- 12-0661 1 Offset hub for Laser transmitter
- Laser transmitter bracket for sterntube 12-0385 1
- 12-0341 Self centering detector bracket for Ø250–500 mm 1
- 12-0588 Large target E-series 1
- 12-0013 1 Magnet base
- 12-0059 Set of rods (4x60 mm) 1
- 01-0938 Rods 30 mm 2
- 01-0873 Rods 120 mm 4 01-0044 2 Rods 240 mm
- 12-0495 1
- Shoulder strap for Display unit 05-0685 Manual (Note: Refers to English manual) 1
- 03-0842 1 Measuring tape 5 m
- 03-0914 1 **USB Memory stick with documentation**
- 03-0822 1 USB Cable
- Battery charger (100-240 V AC) 03-0821 1
- 03-0967 1 Hexagon wrench set
- 03-0878 1 Cleaning cloth for optics
- 12-0685 1 Carrying case Linebore B

Complete system:



Easy-Laser[®] E950-B Bore alignment Part No: 12-0677

Bore alignment with the highest reliability and precision

Easy-Laser® E950-B is primarily designed for propeller shaft installations on ships with stern tubes, support bearings, gearboxes and engines.

Easy-Laser® E950 makes checking and aligning bearings and bearing journals easier thanks to wireless detectors and versatile brackets. A large colour display with clear graphics and software that guides the user through the entire measurement process contributes to simple operation. The system automatically calculates the bearing journals positions in relation to each other, both horizontally and vertically. You can then evaluate the results directly on-site with different calculation methods such as Best fit around zero and Waviness. It is also possible to analyse the different choices of reference points and set the offset and tolerance values.

A great feature is the check of ovality, for example, to analyse the wear rate. The measurement system takes care of all these complicated calculations for you. You measure and align both full and half bearing journals with equal simplicity. The wireless detector eliminates uncertain factors such as cable pull. All parts are designed for maximum accuracy and stability, and measure with a resolution of 0.001 mm [0.05 mils]. Measurement distance up to 40 m [130 feet]. The included aluminium beams for the laser transmitter bracket are 1100 mm [43.31"] (main beam) and 500 mm [19.86"] (vertical support beam). Easy-Laser® E950 is suitable for use both in production and out in the field.

Also straightness of shafts and coupling alignment

With the systems, you can also measure the straightness of shafts, foundations, etc. without any additional accessories. With the measuring devices for shaft alignment (accessories), you have the most complete measurement system to align the entire drive train on the market. Programs for all types of measurements are included as standard, you then adapt the measurement system with brackets and detectors for your needs now and in the future.

Note! The design of the Self centering bracket is as on the picture to the left, not as on the overview picture.

Most common accessories:

- Battery pack with Bluetooth® technology 12-0618 1
- 12-0619 1 Barcode reader
- 12-0585 Charger 12-36V 1
- 12-0434 Measuring unit M 1
- 12-0433 Measuring unit S 1
- 12-0016 V-bracket with chain 1
- 01-1165 Offset bracket 1 12-0187
 - Magnetic bracket for D75 1
- 12-0282 Set of extension arms 1
- 12-0597 Splitter box 1
- 03-1004 Thermal printer 1 12-0022 1
- Laser transmitter D22 12-0455 1
- Slide bracket Min. Ø120 mm 12-0543 Slide bracket Min. Ø200 mm 1
- 12-0510 1
 - Slide bracket Min. Ø300 mm 1
- 03-0769 Aluminium extension beam L=500 mm 03-0770 Aluminium extension beam L=600 mm
- 1 03-0771 1 Aluminium extension beam L=1100 mm

Note: always check number of items included for each Part No. before ordering.











A complete system contains:

- **Display unit E-series E51** 12-0418 1
- 12-0075 Laser transmitter D75 1
- 12-0759 Detector F9, 2-axis 1
- 12-0074 1 Cable 2 m
- 12-0108 Cable 5 m, extension 1
- 12-0661 1 Offset hub for Laser transmitter
- 12-0384 1 Set of offset hub arms for diameters 100-500 mm
- Set of magnets for offset hub arms 12-0154 1
- 12-0768 Slide bracket, Width 25 mm, Min. Ø80 mm 1
- 12-0767 Rod adapter with built in target 1
- 12-0455 1 Slide bracket Min. Ø120 mm
- 12-0543 Slide bracket Min. Ø200 mm 1
- 12-0510 Slide bracket Min. Ø300 mm 1
- 12-0013 1 Magnet base
- Set of rods (4x60 mm) 12-0059 1
- 01-0938 2 Rods 30 mm
- 01-0873 Rods 120 mm 4
- 01-0044 2 Rods 240 mm
- Shoulder strap for Display unit 12-0495 1
- 05-0685 Manual (Note: Refers to English manual) 1
- 03-0842 Measuring tape 5 m 1
- USB Memory stick with documentation 03-0914 1
- 03-0822 1 **USB** Cable
- 03-0821 1 Battery charger (100-240 V AC)
- 03-0967 1 Hexagon wrench set
- 03-0878 1 Cleaning cloth for optics
- 12-0782 1 Carrving case

1.800.561.8187

Easy-Laser[®] E950-C Bore alignment Part No: 12-0772

Bore alignment with the highest reliability and precision

Easy-Laser[®] E950-C is primarily designed for diesel engines, compressors, gearboxes and similar applications. This system is much like the E950-A, but has for example instead the round detector E9. One of the brackets has a width of 25 mm [0.99"] to fit in narrow bearing journals. Measures bores diameter 80–500 mm [3.15"–19.68"] as standard, and down to 50 mm [2.00"] with customized brackets.

Easy-Laser[®] E950 makes checking and aligning bearings and bearing journals easier thanks to wireless detectors and versatile brackets. A large colour display with clear graphics and software that guides the user through the entire measurement process contributes to simple operation. The system automatically calculates the bearing journals positions in relation to each other, both horizontally and vertically. You can then evaluate the results directly on-site with different calculation methods such as Best fit around zero and Waviness. It is also possible to analyse the different choices of reference points and set the offset and tolerance values.

A great feature is the check of ovality, for example, to analyse the wear rate. The measurement system takes care of all these complicated calculations for you. You measure and align both full and half bearing journals with equal simplicity. The wireless detector eliminates uncertain factors such as cable pull. All parts are designed for maximum accuracy and stability, and measure with a resolution of 0.001 mm [0.05 mils]. Measurement distance up to 40 m [130 feet]. Easy-Laser[®] E950 is suitable for use both in production and out in the field.

Also straightness of shafts and coupling alignment

With the systems, you can also measure the straightness of shafts, foundations, etc. without any additional accessories. With the measuring devices for shaft alignment (accessories), you have the most complete measurement system to align the entire drive train on the market. With additional accessories extruder machines can also be measured. Programs for all types of measurements are included as standard, you then adapt the measurement system with brackets and detectors for your needs now and in the future.

Most common accessories:

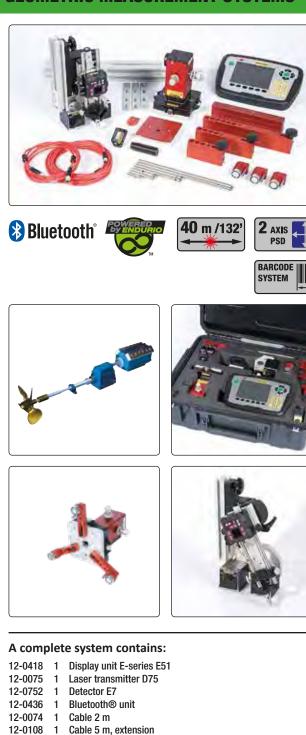
- 12-0553 1 Bore bracket adapter plate
- **Detector arms Linebore** 12-0314 1 12-0343
 - Slide bracket Min. Ø100 mm 1
- 12-0752 1 **Detector E7 reference detector**
- 12-0436 Bluetooth® unit 1
- Tube adapters (manufactured on request to specified diameter) 01-0777 1
- 12-0214 Set of extension rods for Tube measurements 1
- 12-0434 Measuring unit EM 1
- 12-0433 Measuring unit ES 1
- 12-0016 V-bracket with chain 1
- 01-1165 Offset bracket 1
- 12-0187 Magnetic bracket for D75 1
- 12-0282 Set of extension arms 1 12-0580 Axial extension arms 1
- 12-0597 Splitter box 1
- 12-0585 1 Charger 12-36V
- 12-0619 Barcode reader 1
- 03-1004 1 Thermal printer
- 12-0022 1 Laser transmitter D22

Note: always check number of items included for each Part No. before ordering.

Complete system: Weight: 14.3 kg [31.5 lbs]

W/vUvD, EE0v/E0v010 mm [01 6v17 7v0 0]

www.**IL** .com



- 12-0661 1 Offset hub for Laser transmitter
- 12-0707 1 Arm kit with magnets
- 12-0282 Extension arms Linebore 1
- Self centering detector bracket for Ø250–500 mm 12-0341 1
- 12-0588 1 Large target E-series
- 12-0495 Shoulder strap for Display unit 1
- 05-0685 Manual (Note: Refers to English manual) 1
- 03-0842 Measuring tape 5 m 1
- USB Memory stick with documentation 03-0914 1
- 03-0822 1 USB Cable
- 03-0821 Battery charger (100-240 V AC) 1
- 03-0792 1 Toolbox
- 03-0967 1 Hexagon wrench set
- 03-0878 1 Cleaning cloth for optics
- 12-0986 1 Carrying case Linebore D

Complete system:

Weight: 18.3 kg [40.3 lbs] WxHxD: 550x450x210 mm [21.6x17.7x8.3"]

1.800.561.8187

Easy-Laser[®] E950-D Bore alignment Part No: 12-0954

Bore alignment with the highest reliability and precision Easy-Laser® E950-D is primarily designed for propeller shaft instal-

lations on ships with stern tubes, support bearings, gearboxes and engines.

Easy-Laser[®] E950 makes checking and aligning bearings and bearing journals easier thanks to wireless detectors and versatile brackets. A large colour display with clear graphics and software that guides the user through the entire measurement process contributes to simple operation. The system automatically calculates the bearing journals positions in relation to each other, both horizontally and vertically. You can then evaluate the results directly on-site with different calculation methods such as Best fit around zero and Waviness. It is also possible to analyse the different choices of reference points and set the offset and tolerance values.

A great feature is the check of ovality, for example, to analyse the wear rate. The measurement system takes care of all these complicated calculations for you. You measure and align both full and half bearing journals with equal simplicity. The wireless detector eliminates uncertain factors such as cable pull. All parts are designed for maximum accuracy and stability, and measure with a resolution of 0.001 mm [0.05 mils]. Measurement distance up to 40 m [130 feet]. Easy-Laser® E950 is suitable for use both in production and out in the field.

Also straightness of shafts and coupling alignment

With the systems, you can also measure the straightness of shafts, foundations, etc. without any additional accessories. With the measuring devices for shaft alignment (accessories), you have the most complete measurement system to align the entire drive train on the market. Programs for all types of measurements are included as standard, you then adapt the measurement system with brackets and detectors for your needs now and in the future.

Most common accessories:

- Battery pack with Bluetooth® technology 12-0618 1
- E30 Long Range laser 12-0823 1
- 12-0619 Barcode reader 1
- 12-0585 Charger 12-36V 1
- 12-0434 Measuring unit M 1
- 12-0433 Measuring unit S 1
- 12-0016 V-bracket with chain
- 01-1165 Offset bracket 1
- 12-0187 Magnetic bracket for D75 1
- 12-0282 Set of extension arms 1
- 12-0597 Splitter box 1
- 03-1004 Thermal printer 1 12-0022 1
- Laser transmitter D22 12-0455 Slide bracket Min. Ø120 mm 1
- 12-0543 Slide bracket Min. Ø200 mm 1
- 12-0510 1 Slide bracket Min. Ø300 mm

Note: always check number of items included for each Part No. before ordering.





🚯 Bluetooth°

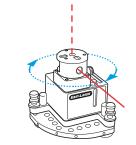
40 m /132 2 AXIS BARCODE || SYSTEM

🔀 HyperPSD™





PSD





A complete system contains:

A complete system contains.			
12-0418	1	Display unit E51 (with HyperPSD™ support)	
12-0022	1	Laser transmitter D22 incl. tilt table	
12-0789	1	Measuring unit ESH (HyperPSD™)	
12-0790	1	Measuring unit EMH (HyperPSD™)	
12-0436	2	Bluetooth® unit	
12-0656	1	E285 Vibrometer probe	
12-0074	2	Cable 2 m	
12-0108	2	Cable 5 m, extension	
01-1333	1	Machine/magnet base pin for D22	
12-0787	2	Spindle bracket for measuring unit	
12-0013	1	Magnet base	
12-0045	1	Magnet base with turnable head	
01-1165	2	Offset bracket	
12-0324	1	Rods (8x120 mm)	
12-0059	1	Set of Rods 4x60 mm	
12-0915	1	Safety strap for laser transmitter	
05-0685	1	Manual (Note: Refers to English manual)	
05-0686	1	Machine Tools Guide (Note: English version)	
03-0842	1	Measuring tape 5 m	
03-0914	1	USB memory stick with documentation	
03-0822	1	USB cable	
03-0821	1	Battery charger (100–240 V AC)	
03-0967	1	Hexagon wrench set	
12-0495	1	Shoulder strap for Display unit	
03-0878	1	Cleaning cloth for optics	
12-0760	1	Carrying case	

1.800.561.8187

Easy-Laser[®] E940 Machine tool Part No: 12-0761

For measuring and aligning machine tools

Easy-Laser® E940 Machine tool system is the market's most complete measurement system for measuring and aligning machine tools. You can measure straightness, flatness, squareness, spindle pointing direction, level and much more. The measurement programs guide the user step-by-step through the measurement process with clear graphics and instructions on the large 5.7" colour display. The system can handle most tasks in this field, despite the fact that there is considerable variation in machine design: different types of lathe, milling machines, automatic drills, presses, water cutting machines etc. Compared to conventional methods, such as dial gauges, mandrels and stones, work can be carried out much more quickly with the use of a laser measurement system. And not to forget, the measurement result can be documented and compared to ISO10791-1 and 10791-2 used for machine tools.

There are many good reasons for investing in a laser system. One is that because it is so quick to set up, the operator can check the machine much more often, for example if there has been an accidential collision in the machine. Then compare with the machine documentation and see if everything is ok before continuing production. This can prevent costly production of parts that are out of tolerance. It can also prolong the life of the tools.

With E940 the user can perform almost any kind of measurement thanks to the very versatile design of the D22 laser transmitter, the EMH- and ESH-units and brackets. For example, the ESH-unit can also act as a compact and light-weight transmitter. Mounted on the cleverly designed spindle bracket it can even point the laser through the clamping pin, through the spindle (see picture to the left).

The measuring units delivered with system Easy-Laser® E940 has got our new HyperPSD[™] precision detectors, making it possible to display a resolution of 0.0001 mm [0.000005"/0.005 mils].

Most common accessories:

E290 Digital Precision Level 12-0846 1 12-0901 1 Extension Kit for E290 12-0146 Laser transmitter D146 1 12-0988 1 Bar bracket Detector E9, 2-axis (*) 12-0759 1 12-0758 1 Detector E8, 1-axis (*) 12-0796 1 E180 BTA 12-0619 1 Barcode reader 12-0016 1 V-bracket with chain 12-0413 Magnetic bracket 1 12-0412 Thin shaft bracket 1 12-0039 Sliding bracket 1 12-0585 1 Charger 12-36V 12-0618 Battery pack with Bluetooth® technology 1 12-0597 1 Splitter box 12-0059 1 Rods (4x60 mm) 12-0324 Rods (8x120 mm) 1 12-0060 1 Rods (4x240 mm) 12-0128 1 Extension chain (2x900 mm) 03-1004 1 Thermal printer

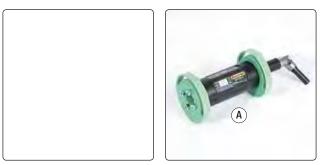
Note: always check number of items included for each Part No. before ordering.

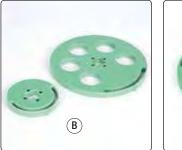
Complete system: Weight: 15 kg [33 lbs] W/vUvD, EE0v4E0v010 mm [01 6v17 7v0 0"]

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A complete system contains:

- 12-0418 1 Display unit E-series E51
- 12-0075 1 Laser transmitter D75
- 12-0759 1 Detector E9
- 12-0074 1 Cable 2 m
- 12-0108 1 Cable 5 m, extension
- 12-0187 1 Bracket for D75 with magnets
- 01-0777 1 Set of brackets for detector
- 12-0792 1 Set of extension rods for detector (6.3 m)
- 12-0810 1 Target for extruder
- 12-0495 1 Shoulder strap for Display unit
- 05-0685 1 Manual (Note: Refers to English manual)
- 03-0842 1 Measuring tape 5 m
- 03-0914 1 USB Memory stick with documentation
- 03-0822 1 USB Cable
- 03-0821 1 Battery charger (100-240 V AC)
- 03-0967 1 Hexagon wrench set
- 03-0878 1 Cleaning cloth for optics
- 12-0811 1 Carrying case

Easy-Laser[®] E930 Extruder alignment Part No: 12-0788

For aligning extrusion machines

Easy-Laser[®] E930 is designed to measure straightness and pointing direction, primarily on extruder pipes. Another application can be hydraulic pipes for example. With the system, pipes with diameters down to 50 mm can be measured, at a range of up to 40 m. The transmitter's laser beam can be compared to an absolutely straight and weightless ruler, that is to say a perfect starting point for precision measurement.

During the alignment procedure both detector and spindle are rotated, thus self calibrating the system. This way you can determine how the centre line of the spindle is, relative to the tube's centre at the inlet end.

Document your measurement results

The detector's measurement value is transferred to the display unit wirelessly via Bluetooth[®], which means that one can measure more freely. The measurement system has programs that guide you step-by-step, using clear graphics on a large 5.7" colour screen. You can also produce full documentation for your measurement job, with direct generation of PDF reports, and database programs for PC for example.

Complete system with all the measuring programs

Easy-Laser[®] E930 is a complete system in itself, with laser transmitter, detector and display unit. You can also add other parts from our extensive range to build a system that suits your specific needs and requirements, because all the measurement programs are included as standard. For example add shaft alignment equipment for other rotating machines, and lasers for flatness measurement.

A. Detector with tube brackets mounted

- B. The brackets are manufactured on order to specified diameter
- C. Special brackets with metal points available on request.

Most common accessories:

- 12-0767 1 Rod adapter with built in target
- 12-0022 1 Laser transmitter D22
- 12-0436 1 Bluetooth® unit
- 12-0434 1 Measuring unit EM
- 12-0433 1 Measuring unit ES
- 12-0016 1 V-bracket with chain
- 12-0013 1 Magnet base
- 12-0413 1 Magnetic bracket
- 12-0412 1 Thin shaft bracket 12-0039 1 Sliding bracket
- 12-0039 1 Sliding bracke 01-1165 1 Offset bracket
- 12-0125 1 Cardan bracket
- 12-0553 1 Bore bracket adapter plate
- 12-0314 1 Detector arms Linebore
- 12-0597 1 Splitter box
- 12-0585 1 Charger 12-36V
- 12-0619 1 Barcode reader
- 03-1004 1 Thermal printer

Note: always check number of items included for each Part No. before ordering.

1.800.561.8187





Easy-Laser[®] E920 Geometric Part No: 12-0771

Measurement system for all types of geometric measurement

This system can be used to carry out all the most common geometric measurements; straightness, flatness, squareness, plumb and level. Measurement is quick and precise. Displayed resolution is 0.001 mm [0.05 mils]. The laser transmitter is our well known big seller, the D22 with levelling table, strong magnetic feet, and a range of up to 40 m. The transmitter's laser beam can be compared to an absolutely straight and weightless ruler, that is to say a perfect starting point for precision measurement. The swivelling laser head gives a laser plane parallel to the measured object and can also angle the laser beam 90° to the sweep for squareness measurement.

The display unit has a large and clear 5.7" colour screen. The programs guide you step-by-step through the measuring process, which makes it easy even for inexperienced users. The system can provide full documentation, with direct generation of PDF reports, and database programs for PC for example. The detector transfers the measurement data to the display unit wirelessly, or by cable if required. The advantages of wireless are especially clear on mechanical constructions and objects where cables can snag or get in the way.

The most common method is to fix the laser transmitter to the measurement object using the mounting magnets, or mounting it on a tripod (accessory) to one side. A pin is also provided to secure the laser transmitter to a machine spindle or equivalent, to check straightness and spindle alignment for example.

Easy-Laser[®] E920 is a complete system in itself, with laser transmitter, detector and display unit. But it is also an excellent starting point for creating a measurement system that suits your specific needs and requirements, because all the measurement programs are included as standard! Add extra laser transmitters, measuring units and brackets as well as other accessories from the wide Easy-Laser® range. Now or in the future.

Most common accessories:

- 12-0759 1 Detector F9 2-axis
- 12-0758 1 Detector E8, 1-axis 12-0796
 - E180 BTA 1
- 12-0618 1 Battery pack with Bluetooth® technology
- 12-0619 Barcode reader 1
- 12-0585 Charger 12-36V 1 12-0434 Measuring unit EM 1
- 12-0433 Measuring unit ES 1
- 12-0016 V-bracket with chain 1
- 01-1165 Offset bracket 1
- 12-0597 Splitter box 1
- 03-1004 Thermal printer 1
- Slide bracket Min. \varnothing 120 mm 12-0455 1 12-0543 Slide bracket Min. Ø200 mm 1
- Slide bracket Min. Ø300 mm 12-0510 1
- 12-0269 1 Tripod
- 12-0046 Angular prism 1

Note: always check number of items included for each Part No. before ordering.

Complete system:

12-0436

12-0074

12-0108

01-1333

12-0045

12-0544

01-1165

01-0043

12-0915

05-0685

03-0842

03-0914

03-0822

03-0821

03-0967

12-0495

03-0878

01-0873 6

1

1

1

1

1

2

1

6

1

1

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1

1

1

1

1

1 12-0512 1

Bluetooth® unit

Offset bracket

Rods 60 mm

USB cable

Rods 120 mm

Measuring tape 5 m

Hexagon wrench set

Cleaning cloth for optics

Cable 5 m, extension

Machine/magnet base pin for D22

Magnet base with turnable head

Safety strap for laser transmitter

Battery charger (100-240 V AC)

Shoulder strap for Display unit

Manual (Note: Refers to English manual)

USB memory stick with documentation

Targets for rough alignment

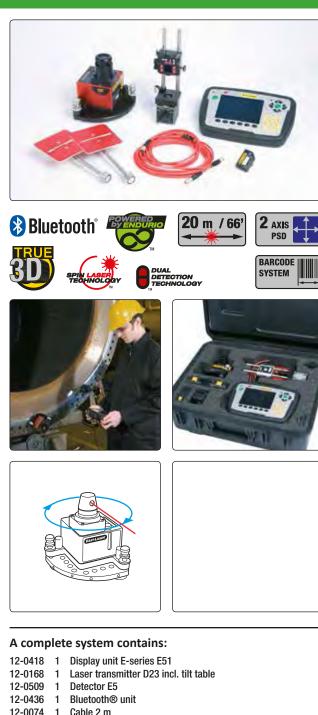
Cable 2 m

Weight: 12.3 kg [27.1 lbs] WxHxD: 550x450x210 mm [21.6x17.7x8.3"]

Carrying case

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12-0074 Cable 2 m 1

- Cable 5 m, extension 12-0108 1
- 12-0321 1 Cable support
- Targets for rough alignment 12-0544 3
- 12-0045 Magnet base with turnable head 1
- 01-0043 6 Rods 60 mm
- 01-0873 6 Rods 120 mm
- 12-0495 Shoulder strap for Display unit 1
- 12-0915 Safety strap for laser transmitter 1
- Manual (Note: Refers to English manual) 05-0400 1 Quick manual (Note: Refers to English manual) 05-0545 1
- 03-0842 1 Measuring tape 5 m
- 03-0914 USB Memory stick with documentation 1
- 03-0822 1 USB Cable
- Battery charger (100-240 V AC) 03-0821 1
- 03-0967 Hexagon wrench set 1
- 03-0878 Cleaning cloth for optics 1
- 12-0512 1 Carrying case

Easy-Laser[®] E915 Flange Spin Part No: 12-0526

Measure with spinning laser. Evaluate directly in true 3D.

See the result as a true 3D image in the display unit directly after measuring. Then evaluate the result easily with different calculation settings, for example three point reference, best fit or all positive. This can also be done directly on site without having to stop to go to a PC with separate analysis programs, which was the case previously. This makes production much more efficient.

The system includes laser transmitter D23 Spin with power rotating head. This is how it works in brief: The laser beam from the transmitter rotates constantly and creates a reference plane over the entire measurement object. Measurements are performed quicker as you do not have to align the beam for each new measurement position. You place the detector at the desired measurement points and register the reading by a push of a button. In principle, one person can perform the measurement themselves. It is then possible to generate a PDF report containing graphs and measurement data directly from the measurement system's display unit. All information about the measurement object is documented.

Includes the sectional measurement flatness program. A tower section with diameter over 4 meters represents a significant weight. This weight causes the flanges to deform when the sections are manufactured. With sectional measurement program the flatness is measured in four sections which are mathematically merged into a full circle, which solves this measurement problem. The program also makes it possible to perform the complete measurement on ground. No climbing on ladders or skylift is therefore required. With traditional methods the operator has to work on hazardous high levels, and often more men are needed.

Most common accessories:

- 12-0618 1 Battery pack with Bluetooth® unit
- Barcode reader 12-0619 1
- 12-0585 Charger 12-36V 1
- 1 12-0434 Measuring unit EM
- 12-0433 1 Measuring unit ES
- V-bracket with chain 12-0016 1
- 01-1165 1 Offset bracket
- 12-0597 Splitter box 1
- 03-1004 Thermal printer 1
- 12-0455 Slide bracket Min. Ø120 mm 1
- 12-0543 1 Slide bracket Min. Ø200 mm
- 12-0510 1 Slide bracket Min. Ø300 mm

Note: always check number of items included for each Part No. before ordering.

Complete system: Weight: 12.1 kg [26.7 lbs] WxHxD: 550x450x210 mm [21.6x17.7x8.3"]

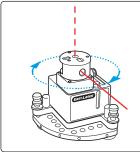
1.800.561.8187











A complete system contains:

- 12-0418 1 Display unit E-series E51
- 12-0022 1 Laser transmitter D22 incl. tilt table
- 12-0752 1 Detector E7
- 12-0436 1 Bluetooth® unit
- 12-0074 1 Cable 2 m
- 12-0108 1 Cable 5 m, extension
- 12-0321 1 Cable support
- 12-0544 3 Targets for rough alignment
- 12-0045 1 Magnet base with turnable head
- 01-0043 6 Rods 60 mm
- 01-0873 6 Rods 120 mm
- 12-0495 1 Shoulder strap for Display unit
- 12-0915 1 Safety strap for laser transmitter
- 05-0400 1 Manual (Note: Refers to English manual) 05-0545 1 Quick manual (Note: Refers to English manual)
- 03-0842 1 Measuring tape 5 m
- 03-0914 1 USB Memory stick with documentation
- 03-0822 1 USB Cable
- 03-0821 1 Battery charger (100-240 V AC)
- 03-0967 1 Hexagon wrench set
- 03-0878 1 Cleaning cloth for optics
- 12-0512 1 Carrying case

Most common accessories:

Easy-Laser[®] E910 Part No: 12-0525

Evaluate directly in true 3D.

makes production much more efficient.

See the result as a true 3D image in the display unit directly after measuring. Then evaluate the result easily with different calculation settings, for example three point reference, best fit or all positive. This can also be done directly on site without having to stop to go to a PC with separate analysis programs, which was the case previously. This

The system includes laser transmitter D22 with manual rotatable head,

and with the option of deflecting the laser beam 90°. With a few more accessories the system can also be used to check the parallelism of

the two tower flanges. In the measurement system's display unit it is

Includes the sectional measurement flatness program. A tower section with diameter over 4 meters represents a significant weight. This weight causes the flanges to deform when the sections are manufactured. With sectional measurement program the flatness is measured in four sections which are mathematically merged into a full circle, which solves this measurement problem. The program also makes it possible to perform the complete measurement on ground. No climbing on ladders or skylift is therefore required. With traditional methods the operator has to work on hazardous high levels, and often

possible to generate a PDF report containing graphs and measurement data. All information about the measurement object is documented.

- 12-0618 1 Battery pack with Bluetooth® unit
- 12-0619 1 Barcode reader

more men are needed.

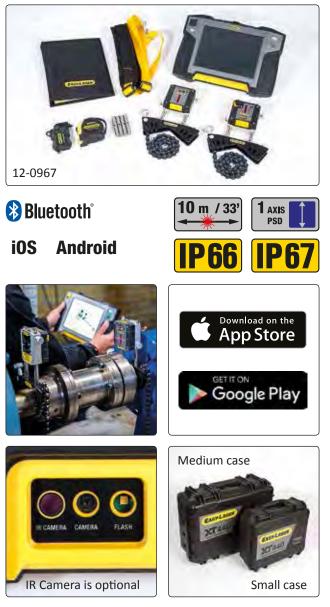
- 12-0585 1 Charger 12-36V
- 12-0434 1 Measuring unit EM
- 12-0433 1 Measuring unit ES
- 12-0016 1 V-bracket with chain
- 01-1165 1 Offset bracket
- 12-0597 1 Splitter box
- 03-1004 1 Thermal printer
- 12-0455 1 Slide bracket Min. \emptyset 120 mm
- 12-0543 1 Slide bracket Min. Ø200 mm
- 12-0510 1 Slide bracket Min. Ø300 mm
- 12-0269 1 Tripod 12-0046 1 Angular p
 - -0046 1 Angular prism

Note: always check number of items included for each Part No. before ordering.

Complete system: Weight: 12.1 kg [26.7 lbs] WxHxD: 550x450x210 mm [21.6x17.7x8.3"]

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System with display unit (Part No. 12-0967):

- 12-0961 1 Display unit XT11
- 12-0943 Measuring unit XT40-M 1
- 12-0944 Measuring unit XT40-S 1
- 12-0963 2 Shaft bracket with chain and rods
- 12-0059 Set of Rods 4x60 mm 1
- 03-0824 1 Measuring tape 3 m
- 03-0967 1 Hexagon wrench set
- Battery charger (100-240 V AC) 03-1256 1
- 12-0989 DC split cable for charging 1
- 12-0751 DC to USB adapter, for charging 1
- 12-0997 1 Shoulder strap for display unit
- 05-0833 Quick manual (Note: Refers to English manual) 1
- 03-0878 Cleaning cloth for optics 1
- USB memory stick with documentation 03-0914 1
- Documentation folder 03-0991 1
- 12-0973 1 Carrying case Medium
 - Weight complete system: 7.2 kg [15.9 lbs] WxHxD: 460x350x175 mm [18.1"x13.8"x6.9"]

Options for XT11: (Note! Cannot be retrofitted.)

- 12-0968 1 IR Camera added to XT11
- 12-0969 1 AV connector added to XT11
- 12-0985 1 Camera (and LED light) removed from XT11

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Easy-Laser® XT440 Shaft

Part No: 12-0967 (with Display unit XT11, in medium sized case) Part No: 12-0966 (without Display unit, in small case)

Multi-platform alignment system

Easy-Laser® XT440 is a crossover multi-platform system. The system runs on your iOS and Android unit¹. You can also choose a complete system with our ergonomic and rugged, IP66/67 approved shock proof Easy-Laser® XT11 display unit. 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!

The measuring units are also rugged and IP66/67 approved, featuring Bluetooth® wireless technology, an integrated rechargeable battery and large 30 mm [1.2"] TruePSD detectors. A built-in OLED display shows battery status and the angular value of the unit for easy positioning. Thanks to high capacity rechargeable batteries the operating times are very long: Display unit: 16 h, Measuring units: 24 h.

All functions are available in one app

Programs for alignment of both horizontal and vertical² machines are included. Added to that are functions for soft foot check, thermal growth compensation and tolerance check. As always, Easy-Laser® comes with the very versatile Values program.

The app has a built-in Users Manual, which opens the relevant chapter depending on where in the process you are.

¹Please see our web site for a complete list of which tablets we recommend: easylaser.com > lifecycle support > software download

² Available during 2017

Note: the system is delivered in different carrying cases depending on if the Display unit is included or not. See pictures to the left.

System without display unit (Part No. 12-0966):

- 12-0943 Measuring unit XT40-M 1
- 12-0944 Measuring unit XT40-S 1
- 12-0963 Shaft bracket with chain and rods 2
- 12-0059 1 Set of Rods 4x60 mm
- 03-0824 Measuring tape 3 m 1
- 03-0967 1
- Hexagon wrench set 03-1256 Battery charger (100-240 V AC)
- 12-0989 DC split cable for charging
- 12-0751 DC to USB adapter, for charging
- Quick manual (Note: Refers to English manual) 05-0833 1
- 03-0878 Cleaning cloth for optics 1
- 03-0914 USB memory stick with documentation 1
- 12-0972 1 **Carrying case Small**
 - Weight complete system: 3.8 kg [8.4 lbs] WxHxD: 335x280x130 mm [13.2"x11.0"x5.1"]

Most common accessories for XT440:

- 12-0013 Magnet base (Note: offset bracket also needed.) 1
- 12-1008 1 Offset bracket for XT-series
- 12-1011 Magnetic bracket for XT-series 1
- 12-1012 1 Thin shaft bracket for XT-series
- 12-1010 1 Sliding bracket for XT-series
- 12-0059 Rods (4x60 mm) 1
- 12-0324 Rods (8x120 mm) 1
- 12-0060 Rods (4x240 mm) 1
- Extension chain (2x900 mm) 12-0128 1



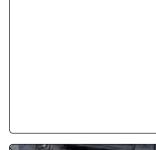
SHAFT ALIGNMENT SYSTEMS



😵 Bluetooth°











A complete system contains:

A complete system contains.			
12-0418	1	Display unit E51	
12-0433	1	Measuring unit ES	
12-0434	1	Measuring unit EM	
12-0436	2	Bluetooth® unit	
12-0022	1	Laser transmitter D22	
12-0074	2	Cables 2 m	
12-0016	2	Shaft bracket with chain	
12-0319	2	Extension chain	
12-0013	1	Magnet base	
12-0045	1	Magnet base with turnable head	
01-1165	2	Offset bracket	
12-0413	2	Magnetic bracket	
12-0324	1	Set of Rods 8x120 mm	
12-0059	1	Set of Rods 4x60 mm	
05-0685	1	Manual (Note: Refers to English manual)	
05-0486	1	Quick manual (Note: Refers to English manual)	
03-0824	1	Measuring tape 3 m	
03-0914	1	USB memory stick with documentation	
03-0822	1	USB cable	
03-0821	1	Battery charger (100–240 V AC)	
03-0792	1	Toolbox	
12-0495	1	Shoulder strap for Display unit	
03-0878	1	Cleaning cloth for optics	

12-0981 1 Carrying case

Complete system:

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Easy-Laser[®] E720 Shaft/Geo Part No: 12-0955

The complete alignment solution

Easy-Laser[®] E720 gives you all the functions for shaft alignment plus the opportunity to check the machine base and any bearing play using the standard equipment. The system includes the very versatile lasertransmitter D22.

Programs for Horizontal machines, soft foot checks, Machine trains, vertical/ flange mounted and cardan/offset mounted* machines are included. Furthermore all geometry programs such as Straightness, Flatness/Twist and Parallelism measurement are included. Using accessories you can also align sheaves/ pulleys with digital precision and check vibration levels. No other system on the market can offer this flexibility!

The keys to the system flexibility and wide range of use are the measuring units with 2-axis TruePSD detectors and dual laser beams, and the laser transmitter D22. Together with the included measurement programs they make the Easy-Laser[®] E720 a Total Alignment Solution!

Large, clear colour screen, wireless measuring units (included as standard), long operating life and robust design give a measurement system that is both reliable and easy to use.

The measurement values can be registered with only 40° rotation of the shafts. You then align the machine "live" using the measuring units in any position around the shaft.

The display unit program is available in several different languages which facilitates use; English, German, French, Spanish, Portuguese, Swedish, Finnish, Russian, Polish, Dutch, Italian, Japanese, Korean and Chinese, Our unique Endurio[™] power management system gives up to 30 hours of operating time for the display unit. Expandable for more measurement applications.

The case is pre-cut for accessories: A. E290 Digital Precision Level, B. E285 Vibrometer case

*Cardan bracket is optional equipment.

Most common accessories:

- 12-0846 1 E290 Digital Precision Level
- 12-0656 E285 Vibrometer probe 1
- 12-0796 E180 BTA 1
- 12-0619 1 Barcode reader
- 12-0412 1 Thin shaft bracket
- 12-0039 1
- Sliding bracket 12-0615 1 Cardan bracket
- Charger 12-36V 12-0585 1
- 12-0617 1 Battery pack
- 12-0618 1 Battery pack with Bluetooth® technology
- 12-0597 Splitter box 1
- 12-0059 Rods (4x60 mm) 1
- 12-0324 1 Rods (8x120 mm)
- 12-0060 Rods (4x240 mm) 1
- Extension chain (2x900 mm) 12-0128 1

Note: always check number of items included for each Part No. before ordering.



SHAFT ALIGNMENT SYSTEMS









SYSTEM

Easy-Laser[®] E710 Shaft Part No: 12-0440

The measurement system for all stages of machine set-up

Easy-Laser[®] E710 gives you all the functions for shaft alignment plus the opportunity to check the machine base and any bearing play using the standard equipment! Programs for Horizontal machines, soft foot checks, Machine trains, vertical/flange mounted and cardan/offset mounted* machines are included. Furthermore programs for Straightness, Flatness/Twist and Parallelism measurement are included. Using accessories you can also align sheaves/pulleys with digital precision and check vibration levels. No other system on the market can offer this flexibility! The keys to the system flexibility and wide range of use are the measuring units with 2-axis TruePSD detectors, and the dual laser beams. Together with the included measurement programs they make the Easy-Laser® E710 a Total Alignment Solution!

Large, clear colour screen, wireless measuring units (included as standard), long operating life and robust design give a measurement system that is both reliable and easy to use. A clever feature is the barcode reader*, which enters the machine dimensions with literally one swipe!

The measurement values can be registered with only 40° rotation of the shafts. You then align the machine "live" using the measuring units in any position around the shaft. The display unit program is available in several different languages which facilitates use; English, German, French, Spanish, Portuguese, Swedish, Finnish, Russian, Polish, Dutch, Italian, Japanese, Korean and Chinese. Our unique Endurio™ power management system gives up to 30 hours of operating time for the display unit. Expandable for more measurement applications.

*Barcode reader and cardan bracket are optional equipment.

Most common accessories:

E180 BTA

Barcode reader

Sliding bracket

Cardan bracket Charger 12-36V

Battery pack

Splitter box

Rods (4x60 mm)

Rods (8x120 mm)

Rods (4x240 mm) Extension chain (2x900 mm)

Laser transmitter D22

Magnetic bracket

Thin shaft bracket

Battery pack with Bluetooth® technology

Note: always check number of items included for each Part No. before ordering.

12-0656 1 12-0796

12-0619

12-0413

12-0615

12-0585

12-0617

12-0618

12-0597

12-0059

12-0324

12-0060

12-0128

12-0022

12-0412 1

12-0039 1

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E285 Vibrometer probe

A complete system contains:

12-0418	1	Display unit E51
12-0433	1	Measuring unit ES
12-0434	1	Measuring unit EM
12-0436	2	Bluetooth® unit
12-0074	2	Cables 2 m
12-0016	2	Shaft bracket with chain
12-0319	2	Extension chain
12-0013	2	Magnet base
01-1165	2	Offset bracket
01-0873	4	Rods 120 mm
12-0059	1	Set of Rods 4x60 mm
05-0461	1	Manual (Note: Refers to English manual)
05-0486	1	Quick manual (Note: Refers to English manual)
03-0824	1	Measuring tape 3 m
03-0914	1	USB memory stick with documentation
03-0822	1	USB cable
03-0821	1	Battery charger (100–240 V AC)
03-0792	2	Toolbox
12-0495	1	Shoulder strap for Display unit
03-0878	1	Cleaning cloth for optics
10 0440		0

12-0442 1 Carrying case

Complete system:

Weight: 10.0 kg [22.0 lbs] WxHxD: 500x400x200 mm [19.7x15.7x7.9"]

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SHAFT ALIGNMENT SYSTEMS



<table-of-contents> Bluetooth°











Built-in battery and Bluetooth[®] wireless functionality.

A complete system contains:

12-0700	1	Display unit E52
12-0777	1	Measuring unit ELS40
12-0776	1	Measuring unit ELM40
		5
12-0016	2	Shaft bracket with chain
12-0319	2	Extension chain
01-0873	4	Rods 120 mm [4.72"]
12-0059	1	Set of Rods 4x60 mm [2.36"]
05-0689	1	Quick manual (Note: Refers to English manual)
03-0824	1	Measuring tape 3 m
03-0914	1	USB Memory stick with documentation
03-0822	1	USB cable
03-0821	1	Battery charger (100–240 V AC)
12-0750	1	DC charging cable
12-0751	1	DC to USB adapter
12-0495	1	Shoulder strap for Display unit
03-1007	1	Carrying case

Complete system:

Weight: 7.2 kg [15.9 lbs] WxHxD: 500x415x170 mm [19.7x16.3x6.7"]

Easy-Laser[®] E540 Shaft Part No: 12-0775

Simple and efficient shaft alignment

Easy-Laser[®] E540 is a very powerful shaft alignment system, with the ideal balance between performance and price. The measuring units are incredibly compact featuring Bluetooth[®] wireless technology, an integrated rechargeable battery and TruePSD detectors. This means that they are easy to install on most types of machines, even where there is limited space. The wireless technology gives you full freedom of movement around the machine that is to be aligned. Start with the measuring units positioned anywhere through 360 ° around the shaft, then take any three readings down to 20° in-between. Then adjust the machine with the live-values in both horizontal and vertical directions. Simple and efficient! Programs included: Horizontal, Vertical, 3-Machine train, Values, Belt transmission alignment, Vibrometer.

Technology that gives the best performance

The shaft alignment system has a large 5.7", bright colour display. The measuring units have TruePSD-technology, which gives unlimited resolution. Twin laser beams, twin PSDs (30 mm [1.2"]) and twin inclinometers give you superb control of the measurement in all situations. Display unit, measuring units and fixtures are all very robust for the highest accuracy in demanding industrial environments.

Large expansion possibilities

It is possible to connect two very useful accessories to the system. With Vibrometer E285* it is possible to check the vibration level and bearing condition of the machine. Using E180 BTA* you can check and align sheaves and pulleys with digital precision. With the barcode reader* the user can save many key operations where all machine dimensions, tolerances and compensation values are entered in one single operation, and the measurement can be started directly. *Accessories.

The case is pre-cut for accessories:

A. Barcode reader/B. Magnetic brackets/C. E180 BTA/D. E285 Vibrometer/ E. Magnet bases/F. Offset brackets

Most common accessories:

12-0619 1 Barcode reader E285 Vibrometer probe 12-0656 1 12-0796 E180 BTA 1 12-0074 1 Cable 2 m [78.7"] 12-0013 1 Magnet base 01-1165 1 Offset bracket 12-0413 Magnetic bracket 1 12-0412 Thin shaft bracket 1 12-0039 Sliding bracket 1 12-0585 Charger 12-36V 1 12-0597 Splitter box 1 12-0059 Rods (4x60 mm) 1 12-0324 1 Rods (8x120 mm) 12-0060 1 Rods (4x240 mm) Extension chain (2x900 mm) 12-0128 1

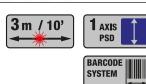
Note: always check number of items included for each Part No. before ordering.

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A complete system contains:

12-0748	1	Display unit E53
12-0747	1	Measuring unit ELS20
12-0746	1	Measuring unit ELM20
12-0016	2	Shaft bracket with chain
12-0319	2	Extension chain
01-0873	4	Rods 120 mm

- 12-0059 1 Set of Rods 4x60 mm
- 05-0640 1
- Quick manual (Note: Refers to English manual) 03-0914 1 USB memory stick with documentation
- 03-0824 1 Measuring tape 3 m
- 12-0750 1
- DC charging cable 12-0751 1 DC to USB adapter
- 03-0821 1 Battery charger (100-240 V AC) for Display unit 03-1059 1 Carrying case

Complete system:

Weight: 6.3 kg [13.9 lbs] WxHxD: 500x415x170 mm [19.7x16.3x6.7"]

Easy-Laser[®] E420 Shaft Part No: 12-0745

Entry level redefined!

The Easy-Laser® E420 sets a new standard in entry level laser systems for shaft alignment. Wireless measuring units, a large 5.7" colour display and an IP65-rated design that withstands harsh environments. These are the features you would normally only find in more expensive systems!

The measuring units are incredibly compact featuring Bluetooth® wireless technology, an integrated rechargeable battery and large 20 mm [0.78"] TruePSD detectors. This means that they are easy to install on most types of machines, even where there is limited space. The wireless technology gives you full freedom of movement around the machine that is to be aligned.

Programs for alignment of both horizontal and vertical machines are included. Added to that are functions for soft foot control, thermal growth compensation and tolerance control.

Pre-mounted units make it easy to install on the machine and the programs guide you step-by-step through the process. You can use our barcode reader* to enter all machine data in one single operation. Start with the measuring units positioned anywhere on the shaft, recording three readings with as little as 20° of rotation between readings. Then adjust the machine with the live values, and save the measurements in the display unit memory. You can also transfer the results to the database EasyLink [™] program (included) for PC.

*Barcode reader is accessory.

Most common accessories:

wost common accessories.				
12-0013	1	Magnet base		
01-1165	1	Offset bracket		
12-0413	1	Magnetic bracket		
12-0412	1	Thin shaft bracket		
12-0039	1	Sliding bracket		
12-0619	1	Barcode reader		
12-0585	1	Charger 12–36V		
12-0059	1	Rods (4x60 mm)		
12-0324	1	Rods (8x120 mm)		
12-0060	1	Rods (4x240 mm)		
12-0128	1	Extension chain (2x900 mm)		

Note: always check number of items included for each Part No. before ordering.

1.800.561.8187



SHEAVE / PULLEY ALIGNMENT SYSTEMS







A system contains:

- 12-0309 1 Laser transmitter
- 12-0791 1 Detector unit with built-in display, wireless
- 12-0394 2 Target
- 03-0821 1 Charger (100-240 V AC) and cable
- 03-0247 1 Battery R6 (AA) 1.5 V
- 05-0728 1 Manual
- 12-0804 1 Carrying case

Easy-Laser[®] E180 BTA digital Wireless Part No: 12-0796

Part No: 12-0850, Laser transmitter 12-0309 excluded.

"Live" digital read outs on clear OLED display

The detector reads off the position in relation to the laser plane and digitally displays the parallel and angular misalignment "live" on the clear built-in OLED display. The accuracy of the reading means that you can be within the prescribed alignment tolerances and rely upon the result. With this system there is no need to move the detector to read horizontal respectively vertical values, which saves time and makes things easier. Suitable for most types of drive, such as V-belt, timing belt, flat belt and chain drives.

If you connect (via Bluetooth[®]) the detector to a separate display unit, e.g. one of our shaft alignment systems, you can read and follow the alignment from where you are standing and making adjustments, instead of only where the detector is mounted. Then you can also set a tolerance and document the result of the alignment.

(Note 1: There is no separate display unit included. The detector connects wireless to the E51 and E52 display units with BTA program, which for example is included in systems E710, E540 and E530 and most E9xx systems.)

(Note 2: The E180 detector unit cannot be connected to the D-series display units or other equipment.)

(Note 3: Available also without the laser transmitter 12-0309 if this is already in your tool box. Part No: 12-0850.)







A system contains:

12-0309	1	Laser transmitter
12-0657	1	Detector unit E-series
12-0394	2	Target
03-0247	1	Battery R6 (AA) 1.5 V
12-0658	1	Carrying case

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Easy-Laser[®] E170 BTA digital Part No: 12-0659

"Live" digital read outs where making adjustments

With the Easy-Laser® E170 you can read and follow the alignment from where you are standing and making adjustments, instead of only where the detector is mounted. The detector reads off the position in relation to the laser plane and digitally displays the parallel and angular misalignment "live". This makes alignment of the adjustable machine very easy. The accuracy of the reading means that you can be within the prescribed alignment tolerances and rely upon the result. With this system there is no need to move the detector to read horizontal respectively vertical values, which saves time and makes things easier. Suitable for most types of drive, such as V-belt, timing belt, flat belt and chain drives.

(Note 1! The E170 detector unit cannot be connected to the D-series display units or other equipment.)

(Note 2! There is no separate display unit included or available. The detector connects to the E51 and E52 display units with BTA program, which for example is included in systems E710, E540 and E530.)

(Note 3! For systems E710 and E530 the red cable of the main system is used for connection. For system E540 a cable has to be added. Wireless connection is not available.)



SHEAVE / PULLEY ALIGNMENT SYSTEMS







A complete system contains:

12-0404 12-0309 12-0403 12-0394 12-0074 05-0364 03-0247 03-0642 12-0410	1 1 2 1 1 2 1 2	Display unit Laser transmitter Detector unit D-series Target Cable 2 m Manual Battery R6 (AA) 1.5 V Battery LR61 9V Carrying case
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Easy-Laser® D160 BTA digital Part No: 12-0411

"Live" digital read outs where making adjustments

Easy-Laser[®] D160 has a separate detector unit and display unit. This means you can read and follow the alignment from where you are standing and making adjustments. The backlit display also makes it easier to read in poor light conditions.

The detector reads off the position in relation to the laser plane and digitally displays the parallel and angular misalignment "live". This makes alignment of the adjustable machine extremely easy. The accuracy of the reading means that you can be within the prescribed alignment tolerances and rely upon the result. With this system there is no need to move the detector to read horizontal respectively vertical values, which saves time and makes things easier. Suitable for most types of drive, such as V-belt, timing belt, flat belt and chain drives.

(Note! The D160 detector unit must not be connected to the E-series display unit or other equipment.)



Easy-Laser[®] D90 BTA Part No: 12-0415

For quick and easy alignment of sheaves/pulleys

V-belt, timing belt, flat belt and chain drives.

Easy-Laser[®] D90 is installed in a few seconds, and the laser line that is projected on the targets clearly shows how to adjust the machines. The tool has targets that can be read out "visually" and which give excellent degrees of accuracy that are sufficient for most users. If, in the future, you wish to have the option of digital readouts with the corresponding advantages, you can add a digital detector (see system D150 and D160).

D90 BTA is compact and light. Suitable for most types of drive, such as



A complete system contains:

V

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INTRINSICALLY SAFE PRODUCTS











- Display unit D336
- 12-0335 1 Measuring unit S, Extreme
- 12-0334 1 Measuring unit M, Extreme
- 12-0074 3 Cable 2.0 m
- 12-0108 1 Extension cable 5.0 m
- 12-0337 2 Shaft bracket with chain, Extreme
- 12-0363 4 Extension chain, stainless steel
- Tool kit for system D550 12-0360 1
- 05-0304 1 Manual (Note: Refers to English manual)

Easy-Laser[®] D550 Extreme[™] Ex / ATEX / IECEx Part No: 12-0340

Extremely durable and ATEX / Ex approved

Easy-Laser[®] Extreme[™] is one of the toughest and most robust measurement and alignment systems on the market for work in potentially explosive environments. Easy-Laser[®] Extreme[™] is intrinsically safe and complies with the latest ATEX standards for work in such environments.

With Easy-Laser[®] Extreme[™] we have gone one step further. The entire construction is extremely durable with regard to external influences, not just shockproof, but also resistant to corrosion and leaks. This is because we know that measurement systems are all too often used in environments that are anything but clean and dry. This could involve anything from water to oil or solvents. The measurement system is therefore naturally IP66 and IP67 approved. In other words, system D550 is not just for those who need an Exapproved system, but also for those who want a little extra from their tools. Viewed as a whole, with its robust construction, its software and its generous warranty period of 4 years, you get a measurement and alignment system that is extremely hard to beat!

Fulfils the requirements according to:

Ex ib op is IIC T4 Gb, $0^{\circ}C \le Ta \le +40^{\circ}C$ ATEX code: II 2 G EX certificate number: Presafe 14ATEX5726X, IECEx PRE 14.0062X

- 03-0824 1 Measuring tape 3 m 12-0425 1 PC Cable 1.8 m incl. Adapter USB/RS232 03-1208 8 Battery 1.5 V, LR14 Alkaline CD Easy-Laser incl. Easy-Link software

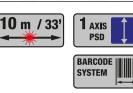
- 05-0314 1
- 12-0339 1 Case Shaft Extreme

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😵 Bluetooth°





plates for different turbines.





Built-in battery and Bluetooth[®] wireless functionality.

A Vestas 4 system contains:

A vestas 4 system contains.							
12-0700	1	Display unit E52					
12-0777	1	Measuring unit ELS40					
12-0776	1	Measuring unit ELM40					
12-0619	1	Barcode reader					
01-0815	3	Plunges					
01-0816	3	Plunges					
01-0817	3	Plunges					
01-0818	3	Plunges					
01-1520	4	Centering plunges					
03-0613	1	Distance gauge					
03-1034	1	Extender					
12-0703	1	Generator bracket					
12-0718	1	Gear box bracket					
12-0713	2	Bracket V112					
03-0914	1	USB Memory stick					
03-0822	1	USB cable					
03-0821	1	Battery charger (100–240 V AC)					
12-0750	1	DC charging cable					
12-0751	1	DC to USB adapter					
03-1004	1	Printer					
01-1379	1	Protective case for Displayunit					
12-0495	1	Shoulder strap for Display unit					
12-0798	1	Carrying case					

(Plus miscellaneous fastening items and user manual.)

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Part No: 12-0797 (Vestas 4) Part No: 12-0825 (Vestas 3)

For shaft alignment with the rotor locked.

Large forces are in action in a wind turbine. The safety of the maintenance technicians is therefore of the utmost importance. With the Easy-Laser[®] shaft alignment system the generator and gearbox can be aligned with the coupling dismounted and the brake locked. The system pictured is designed especially for one turbine manufacturer, and fits all their turbine sizes.

Shaft alignment system for Vestas wind turbines

Using the barcode reader, you scan the appropriate tag and the correct measures for that specific machine are entered automatically. Or open the settings with the pre-defined machine templates. Quick and easy! The measurement programs are easy to learn and to use, and there are numerous options for documenting and saving the result of the work (e.g. to printer or PC).

• The Vestas 3 system has brackets for turbines V47, V52, V66, V80 2MW Mark1–7, V90 3MW.

• The Vestas 4 has additional brackets also for turbines V80 1.8MW, 2MW Mark8 and V112.

Note! The system pictured is "Vestas 4".

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SOFT FOOT Image: Constraint of the second of the seco	1	E420					
SOFT FOOT Image: Soft FOOT EASYTURN'** Image: Soft FOOT Image: Soft FOOT Image: Soft FOOT Image: Soft Foot Foot Foot Foot Foot Foot Foot F		HORIZONTAL 9-12-3			↓ 		
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MACHINE TRAIN Image: Sector of Control of	Ţ	VERTICAL/FLANGE MOUNTED	•	•		•	
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Q	SOFT FOOT	•
400	EASYTURN™	•
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***	MACHINE TRAIN	•
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Easy-Laser XT Alignment App for Generation XT

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Q	SOFT FOOT	•
400	EASYTURN™	•
Ţ	VERTICAL/FLANGE MOUNTED (Available 2017)	•
V 0.00 H 0.00	VALUES (Digital Dial Indicator)	•

Easy-Laser® Precision Level App for E290

D.D. innyen	Download on the App Store	E290	$\Big]$
PRECISION LEVEL Use your iPhone, iPod or iPad a	as display! With our free app Precision Lev	vel for the E290 you can follow the alignment	•
1.800.561.8187 Apple, the Apple Toyo, Inflore, and in our touch the trade Android, Google Play, and the Google Play logo are trade	HIGH S OF Google Inc.	information@itm.	com

EASYLINK[™] PROGRAM

With EasyLink[™] 3.0 you can save and organise all your measurements in one place, produce reports with both data and images and export to your maintenance systems. You can customise what your Excel reports should look like and what data should be visible and where it should be positioned. The program has a clear folder structure, where you drag and drop files from the display unit to the database, or vice versa if you wish to prepare a measurement before going out into the field to take measurements. Create your own structure with folders for manufacturer, department or machine type for example. With everything in one location you have a better overview of what actions have been carried out. The database can also be located on a common server and shared with other users. For extra safety you can use EasyLink[™] to make backups of what you have saved in the E-series' display unit. You can also simulate adjustments and test corrective actions in the program without any risk of losing the original data.



The program is supplied with all our measurement systems, but can also be downloaded by anyone for free.

System requirements: Windows[®] XP, Vista, 7, 8. For the export function, Excel 2003 or newer must also be installed on the computer. EasyLink[™] 3.0 functions with both the D and E series in Easy-Laser[®]. Not with the XT series. Export formats: Excel, XML.

Download the program free of charge from www.easylaser.com.

1.800.561.8187







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XT11 – Display unit for Generation XT Part No: 12-0961

Description: Wireless display unit for Generation XT. Rugged design, shock proof, IP66 and IP67. Glove enabled touch screen. Water and dust proof connectors: USB A, USB B, Charger.

Options: IR Camera (Part No. 12-0968), AV connector (Part No. 12-0969), Camera removed for security reasons (Part No. 12-0985). **Note:** Options cannot be retrofitted.



Display unit E-series: E51

Part No: 12-0418

Description: Available in different measurement program configurations. Which programs are available depends on in which system the display unit is included. Connectors: USB A, USB B, Easy-Laser[®] equipment, Charger.

Note: Dust and splash guard for connectors open on picture to the right. The look of the display unit keyboard can vary depending on market.



Display unit E-series: E52 Part No: 12-0700

Description: Available in different measurement program configurations. Which programs are available depends on in which system the display unit is included. Connectors: USB A, USB B, Easy-Laser[®] equipment, charger.

Note: Dust and splash guard for connectors removed on upper right picture.





Display unit E-series: E53 Part No: 12-0748

Description: All wireless display unit for shaft alignment system. The unit can temporarily power measuring units ELS20/ELM20 via the USB connector as backup. Connectors: USB A, charger. **Note:** Dust and splash guard for connectors removed on upper right picture. No connector for "red cable" equipment.





Display unit Extreme™ EX: D336 Part No: 12-0336

Description: Intrinsically safe display unit. IP66/IP67/Ex/ATEX/IECEx. **Note:** Only for use together with measuring units 12-0334/12-0335.

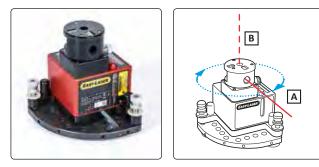


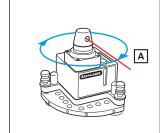




Display unit for sheave/pulley alignment Part No: 12-0404 Description: Included in system D160. Note: Only for connection to detector 12-0403 (D-series).







Laser transmitter D22 Swivel Part No: 12-0022

Description: Laser transmitter D22 can be used to measure flatness, straightness, squareness and parallelism. The laser beam can sweep 360° with a measurement distance of up to 40 metres [130′] in radius. The laser beam can be angled 90° to the sweep, within 0.005 mm/m [0.005 mils/INCH]. Tilt table included.

Note: Option A. The laser beam is used for a 360° sweep. Option B. The laser beam is angled at 90° to the sweep.

Laser transmitter D23 Spin

Part No: 12-0168

Description: Laser transmitter D23 has a motor driven, rotating head that gives a 360° laser plane. Because the laser beam sweeps across the surface you do not need to align the beam for every detector position. Tilt table included.

Measurement distance up to 20 metres [65'] in radius. **Note:** A. The laser beam is used for a 360° sweep.



Description: For measuring spindle direction and straightness. Can be used in a rotating spindle (max. 2000 rpm). Measurement distance 20 metres [65']. Mounting pin \emptyset 20 mm [0.79"].

Note: A. An extra mounting pin (Part No. 12-0568) can be fitted at the laser aperture side (A), making it possible to align, for example, bar feeders. (Be aware that the standard mounting pin displayed on the left image cannot be detached from the transmitter.)

Laser transmitter D75

Part No: 12-0075

Description: For measuring straightness and spindle direction. M6 threads on ends and sides offer alternative mounting options. Measurement distance 40 m [130'].

Note: With tilting screws for laser beam adjustment.









Laser transmitter D25 Part No: 12-0594

Description: For measuring straightness primarily in turbine applications. Measurement distance 40 m [130']. The laser beam can sweep 360°, and can be angled 90° to the sweep.

Note: Battery adaptor included. Brackets, arms and/or offset hub may also be needed, but are not included. See also 12-0706. Option A. The laser beam is used for a 360° sweep. Option B. The laser beam is angled at 90° to the sweep.

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Laser transmitter D25 with offset hub Part No: 12-0706

Description: For measuring straightness primarily in turbine applications. Measurement distance 40 m [130']. The laser beam can be angled 90° to the sweep, within 0.01 mm/m [0.5 mils/INCH]. **Note:** Battery adaptor (not pictured) and offset hub included. Brackets/arms may also be needed, but are not included. See also 12-0594

www.**ICM**.com





Laser transmitter E30 Long Range Part No: 12-0823

Description: For measuring straightness on long distances. Measurement distance 100 m [328'] with a 20 mm PSD, >200 m [656'] with 30 mm PSD. M6 threads on front and bottom offer alternative mounting options. Built-in rechargeable battery and Oled display.

Note: Coordinate table or tilt table needed for accurate functionality. No charger or bracketing included (compare with Part No. 12-0858).

Laser transmitter E30 Long Range, with tilt table Part No: 12-0858

Description: For measuring straightness on long distances. Measurement distance 100 m [328'] with a 20 mm PSD, >200 m [656'] with 30 mm PSD. M6 threads on front and bottom offer alternative mounting options. Built-in rechargeable battery and Oled display. **Note:** With tilt table (12-0864), which can be used with magnets or mounted on tripod, Battery charger 100–240 V AC (03-0821), USB memory stick with documentation, and Carrying case (12-0872).





Laser transmitter for sheave alignment systems Part No: 12-0309

Description: Laser transmitter producing a laser line parallel to the object it is mounted to.

Note: Only transmitter as pictured, no targets included. (Complete system, see Part No. 12-0415.)

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Detector E9, 2-axis PSD

Part No: 12-0759

Description: Detector diameter 45 mm [1.77"]. 2 axis PSD, 20x20 mm [0.79"x0.79"]. Built-in 360° electronic inclinometer. Built-in Bluetooth® wireless communication and rechargeable battery. There is also a connector on the back side for standard "red cable" (charging and data transfer). Mounting threads on both ends, for tube adapters (01-0777) or other suitable brackets (e.g. 12-0767 and 12-0553). Note: Make sure you have a suitable bracket!

Detector E7H, HyperPSD™

Part No: 12-0824

Description: Detector for the E-series. 2 axis PSD, 20x20 mm [0.79"x0.79"]. With HyperPSD[™] technology, which allows for a displayed resolution of 0.0001 mm [0.000005"/0.005 mils]. Built-in 360° electronic inclinometer. Two connectors for making it possible to connect two detectors or more in series. Normally mounted on rods, but has many additional mounting possibilities thanks to threads on two sides. Note: Optimised for fixed laser/does not detect a spinning laser.









Detector E7 Part No: 12-0752

Description: Detector for the E-series. 2 axis PSD, 20x20 mm [0.79"x0.79"]. Built-in 360° electronic inclinometer. Two connectors for making it possible to connect two detectors or more in series. Normally mounted on rods, but has many additional mounting possibilities thanks to threads on two sides.

Note: Optimised for fixed point laser/does not detect a spinning laser.





Detector E5

Part No: 12-0509

Description: Detector for the E-series. 2 axis PSD, 20x20 mm [0.79"x0.79"]. Built-in 360° electronic inclinometer. Two connectors for making it possible to connect two detectors or more in series. Normally mounted on rods, but has many additional mounting possibilities thanks to threads on two sides.

Note: With Dual Detection Technology, making it possible to read both fixed point laser and spinning laser, but is optimised for spinning laser.





Detector E3

Part No: 12-0799

Description: Detector for the E-series. 2 axis PSD, 30x30 mm [1.18"x1.18"]. Built-in Bluetooth® wireless communication. Battery status indicator. Built-in 360° electronic inclinometer. One connector on top side. Normally mounted on rods, but also has additional mounting threads on back side.

Note: Target/Dust cover for PSD included. Does not detect a spinning laser.





Angle detector E2 Part No: 12-0845

Description: Detector for angle measurements, e.g. roll parallelism measurement. Built-in OLED display and rechargeable battery. Note: The E2 detector reads angles, not positions. This means that if you want to take full advantage of the measurement program package of come geometric systems. You will also need a nositional detector

.com



D-series Detector for belt alignment Part No: 12-0403

Description: Detector that reads off the sheaves position in two directions (horizontal+vertical) at the same time.

Note: For connection to display unit 12-0404, or D279 with BTA digital program. Must not be connected to the E-series equipment! A. Super magnets x 4, for attachment to sheave side.





E-series Detector for belt alignment

Part No: 12-0657

Description: Detector that reads off the sheaves position in two directions (horizontal+vertical) at the same time.

Note: For connection to display units with BTA digital program. For connection, a standard "red cable" is used. If your system doesn't include one, be sure to order this too.

Cannot be connected to the D-series equipment! A. Super magnets x 4, for attachment to sheave side.





E-series wireless Detector for belt alignment Part No: 12-0791

Description: Detector that reads off the sheaves position in two directions (horizontal+vertical) at the same time. With built-in display showing offset and angular values.

Note: Also for Bluetooth[®] wireless connection to separate display units which have the BTA digital program.

A. Super magnets x 4, for attachment to sheave side.





Digital Precision Level E290

Part No: 12-0846 **Description:** Digital precision level. Built-in OLED display and rechargeable battery.

Note: For complete kit, see Part No. 12-0857 below.



Digital Precision Level E290, complete kit Part No: 12-0857

Description: Digital precision level (12-0846), complete kit with Battery charger 100–240 V AC (03-0821), safety strap (12-0915) and USB memory stick with documentation (03-0914). **Note:** Delivered in plastic case (12-0873).



E-series Vibrometer probe E285 Part No: 12-0656

Description: For measuring vibration level (mm/s, inch/s) and bearing condition value (g-value).

Note: Requires measurement program Vibrometer in the display unit. For connection, one of the red cables of the system is used.







D-series Vibrometer probe D283 Part No: 12-0283

Description: For measuring vibration level (mm/s, inch/s) and bearing condition value (g-value).

Note: Requires measurement program Vibrometer in the display unit. Standard "red cable" also needed to be able to connect to display unit. Must not be connected to the E-series equipment!



Roll alignment kit Part No: 12-0856

Description: Includes roll bracket (12-0849), detector E2 (12-0845), digital level E290 (12-0846), adapter plate (12-0874), charger (03-0821), DC charging cable (12-0750), DC to USB adapter (12-0751), USB memory stick with documentation (03-0914).

Note: Delivered in plastic case (12-0871). As standard for roll diameters up to 400 mm. For larger roll diameters, please see Part No. 12-0885, Large Roll Kit.

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Measuring unit EMH, PSD 20x20 mm Part No: 12-0790

Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. Mainly for shaft alignment. PSD 20x20 mm [0.79″x0.79″]. With HyperPSD™ technology, which allows for a displayed resolution of 0.0001 mm [0.000005″/0.005 mils]. **Note:** To be used in pair with S unit 12-0789. E-series measuring unit.





Measuring unit ESH, PSD 20x20 mm Part No: 12-0789

Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. Mainly for shaft alignment. PSD 20x20 mm [0.79″x0.79″]. With HyperPSD™ technology, which allows for a displayed resolution of 0.0001 mm [0.000005″/0.005 mils]. **Note:** To be used in pair with M unit 12-0790. E-series measuring unit.





Measuring unit EM, PSD 20x20 mm Part No: 12-0434 Description: Laser diode and PSD detector in one hou

Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. Mainly for shaft alignment. PSD 20x20 mm [0.79"x0.79"].

Note: To be used in pair with S unit 12-0433. E-series measuring unit.





Measuring unit ES, PSD 20x20 mm Part No: 12-0433

Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. Mainly for shaft alignment. PSD 20x20 mm [0.79"x0.79"].

Note: To be used in pair with M unit 12-0434. E-series measuring unit.





Measuring unit ELM40, PSD 30 mm Part No: 12-0776

Description: Laser diode and PSD detector in one housing. Built-in Bluetooth[®] wireless communication. Battery status indicator. Built-in electronic 360° inclinometer. For shaft alignment. PSD 30 mm [1.18"]. **Note:** To be used in pair with S unit 12-0777. E-series measuring unit.





Measuring unit ELS40, PSD 30 mm Part No: 12-0777

Description: Laser diode and PSD detector in one housing. Built-in Bluetooth[®] wireless communication. Battery status indicator. Built-in electronic 360° inclinometer. For shaft alignment. PSD 30 mm [1.18"]. **Note:** To be used in pair with M unit 12-0776. E-series measuring unit.

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Measuring unit ELM30, PSD 30 mm Part No: 12-0698

Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. For shaft alignment. PSD 30 mm [1.18"]. **Note:** To be used in pair with S unit 12-0697. E-series measuring unit.





Measuring unit ELS30, PSD 30 mm Part No: 12-0697

Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. For shaft alignment. PSD 30 mm [1.18"]. **Note:** To be used in pair with M unit 12-0698. E-series measuring unit.





Measuring unit ELM20, PSD 20 mm Part No: 12-0746

Description: Laser diode and PSD detector in one housing. Built-in Bluetooth[®] wireless communication. Battery status indicator. Built-in electronic 360° inclinometer. For shaft alignment. PSD 20 mm [0.79"]. **Note:** To be used in pair with S unit 12-0747. E-series measuring unit.





Measuring unit ELS20, PSD 20 mm Part No: 12-0747

Description: Laser diode and PSD detector in one housing. Built-in Bluetooth[®] wireless communication. Battery status indicator. Built-in electronic 360° inclinometer. For shaft alignment. PSD 20 mm [0.79"]. **Note:** To be used in pair with M unit 12-0746. E-series measuring unit.





Measuring unit M, Extreme[™] Part No: 12-0334

Description: Intrinsically safe and ATEX/Ex/IECEx approved units. Water, dust and shock proof according to both IP66 and IP67. Built-in electronic 360° inclinometer. 2 axis PSD.

Note: For use with display unit D336 and in pair with measuring unit 12-0335.





Measuring unit S, Extreme[™] Part No: 12-0335

Description: Intrinsically safe and ATEX/Ex/IECEx approved units. Water, dust and shock proof according to both IP66 and IP67. Built-in electronic 360° inclinometer. 2 axis PSD.

Note: For use with display unit D336 and in pair with measuring unit 12-0324

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Measuring unit XT40-M, PSD 30 mm Part No: 12-0943

Description: Laser diode and PSD detector in one housing. Built-in Bluetooth[®] wireless communication. OLED display shows battery status and angle of the unit on shaft. Built-in electronic 360° inclinometer. For shaft alignment. PSD 30 mm [1.18"].

Note: To be used in pair with M unit 12-0944. XT-series measuring unit.





Measuring unit XT40-S, PSD 30 mm Part No: 12-0944

Description: Laser diode and PSD detector in one housing. Built-in Bluetooth® wireless communication. OLED display shows battery status and angle of the unit on shaft. Built-in electronic 360° inclinometer. For shaft alignment. PSD 30 mm [1.18"].

Note: To be used in pair with M unit 12-0943. XT-series measuring unit.

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| D | E | XT*





Magnet base

Part No: 12-0013

Description: Versatile magnet base with On/Off function and many optional rod mounting possibilities.

Note: Three sides are magnetic. *For use with XT-series offset bracket 12-1008 is also needed.

Magnet base with turnable head

Part No: 12-0045 Description: Versatile magnet base with On/Off function and 360° turnable head with two rod mounting possibilities. Note: *For use with XT-series offset bracket 12-1008 is also needed.





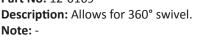
Tilt table with magnet base Part No: 12-0742

Description: Tilt table for use with an ES-unit as transmitter, e.g. with the Twist measurement program. This tilt table simplifies and makes the rough alignment of the laser beam quicker. Use the EM-unit as detector, mounted on a regular magnet base. Note: Magnet base and rods included as pictured.





Rotating detector bracket for rods Part No: 12-0169







Small magnet base with turnable head Part No: 12-0696 **Description:** With On/Off function and 360° turnable head. Note: Includes 2 rods 60 mm [2.36"].





Magnet base with linear digital scale Part No: 12-0230 Description: -Note: The length of the linear guide can be adapted. Detector not included.







Height adjustment bracket for detector Part No: 12-0937 Description: For fine adjustment of detector on rods. Note: -

| D | E |





Radial support for magnet base Part No: 12-0508 Description: Can be used for supporting the m

Description: Can be used for supporting the magnet base in many different ways. Makes it easier to position the detector correctly. Especially useful on flywheels. **Note:** -





Magnet base with adapter Ex Part No: 12-0579 Description: For e.g. straightness measurement with the Ex measuring units.

Note: Magnet base, adapter, screws and two rods 140 mm included.





Pointing bracket on magnet base Part No: 12-0583 Description: For wind tower flanges. Makes it possible to measure near the edge of a surface. Note: Probe does not touch surface. Rods and detector not included.





Magnetic bracket Part No: 12-0413 Description: For axial mounting on flanges or shafts. With M6 screws working as radial supports, and four super magnets. Note: Does not fit the XT series.





Magnetic bracket Part No: 12-1011

Description: For axial mounting on flanges or shafts. With M6 screws working as radial supports, and four super magnets. **Note:** Leftmost photo shows old threadings, but is otherwise correct.









Thin chain bracket Part No: 12-0412

Description: For use for example when the space between coupling and machine is limited. Width: 12 mm [0.5"]. For shaft diameters 20–450 mm [0.8–17.7"].

Note: Includes thin chains and tightening tool. Does not fit the XT series.







Thin chain bracket

Part No: 12-1012

Description: For use for example when the space between coupling and machine is limited. Width: 12 mm [0.5"]. For shaft diameters 20–450 mm [0.8–17.7"].

Note: Includes thin chains and tightening tool. Photos show old threadings, but are otherwise correct.



Shaft bracket with chain, stainless steel Part No: 12-0337 Description: Bracket mainly for use with the D550 system which has a rod C–C of 70 mm. Pre-mounted chain and rods. For shaft diameters 20–150 mm [0.8–5.9"]. Note: -



Extension chain, stainless steel Part No: 12-0363

Description: For use together with 12-0337. For shaft diameters 150–320 mm [5.9–12.6"]. Two extension chains: –500 mm [–19.6"] **Note:** Does not fit with standard chains.





Offset bracket

Part No: 01-1165

Description: Allows axial displacement between measuring units to be able to rotate past projecting machine parts. For both E and D series. **Note:** 2 screws M6x16 also needed (Part No. 03-0045). V-bracket and rods not included.





Offset bracket Part No: 12-1008

Description: Allows axial displacement between measuring units to be able to rotate past projecting machine parts. Also works as a converter between rod C–C 40 mm (D and E series) and C–C 56 mm (XT series) so older brackets can be used.

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Sliding bracket

Part No: 12-0039

Description: For shaft alignment. The spherical feet can be placed in two different positions for adaption to small or large shaft diameters. Min./Max. diameters 90–600 mm [3.5–23.6"].

Used when the shafts cannot be rotated. Mounted with standard chains (not included). **Note:** -

| D | E | XT |





Sliding bracket Part No: 12-1010

Description: For shaft alignment. The spherical feet can be placed in two different positions for adaption to small or large shaft diameters. Min./Max. diameters 90–600 mm [3.5–23.6"].

Used when the shafts cannot be rotated. Mounted with standard chains (not included).

Note: Photos show old threadings, but are otherwise correct.



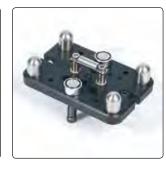


Sliding bracket with magnets Part No: 12-0303

Description: The spherical feet can be placed in two different positions for adaption to small or large shaft diameters. With attachment magnets. Can also be mounted with standard chains (not included). **Note:** -



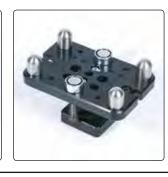




Sliding bracket with magnets and probe Part No: 12-0138

Description: For plumb measurement of e.g. generator shafts. The spherical feet can be placed in two different positions for adaption to small or large shaft diameters. With attachment magnets. Can also be mounted with standard chains (not included). **Note:** -





Sliding bracket with turnable head Part No: 12-0137

Description: For roll parallelism measurement. The spherical feet can be placed in two different positions for adaption to small or large roll diameters. With attachment magnets. Can also be mounted with standard chains (not included).

Description: For alignment of cardan/offset mounted machines. Offset

Note: -

Cardan bracket set

Note: Delivered in plastic case. For D-series.

Part No: 12-0125

range 0–900 mm.







Cardan bracket set

Part No: 12-0615 Description: For alignment of cardan/offset mounted machines. Offset range 0–900 mm. Note: Delivered in plastic case. For E-series.

| D | E | Ex | XT |



Rod, 30 mm [1.18"] Part No: 01-0938 Description: Stainless steel. Diameter 10 mm. Extendable. Note: 1 pcs.

| D | E | Ex | XT |





Rods, 60 mm [2.36"] Part No: 12-0059 Description: Stainless steel. Diameter 10 mm. Extendable. Plastic holder included. Note: 4 pcs.

| D | E | Ex | XT |





Rods, 120 mm [4.72"] Part No: 12-0987 Description: Stainless steel. Diameter 10 mm. Extendable. Plastic holder included. Note: 4 pcs.

| D | E | Ex | XT



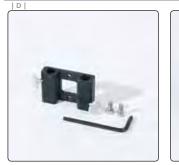


Rods, 120 mm [4.72"] Part No: 12-0324 Description: Stainless steel. Diameter 10 mm. Extendable. Plastic holder included. Note: 8 pcs.



Rods, 240 mm [9.44"] Part No: 12-0060 Description: Stainless steel. Diameter 10 mm. Extendable. Plastic holder included. Note: 4 pcs.







Rod adapter for D157 Part No: 12-0320

Description: For mounting of detector D157 on standard rods. **Note:** Includes items as pictured leftmost (adapter, hexagon wrench and screws). Magnet base, rods and detector not included.

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Tube adapters for detector D157 and E9/E8 Part No: 01-0777

Description: Adapters mainly for mounting of detector D157, E8 or E9 and used for extruder measurements.

Note: Manufactured on request to your specified diameter up to 250 mm. 2 pcs included. Includes items as pictured leftmost.





Tube adapters with metal points Part No: -

Description: Adapters mainly for mounting of detector D157, E8 or E9 and used for extruder measurements. With metal points of your choice and adapted for your application.

Note: Manufactured on request to your specified diameter. 2 pcs included.



Large extruder adapter/bracket Part No: -

Description: Adapters mainly for mounting of detector D157, E8 or E9 and used for extruder measurements.

Note: Manufactured on request to your specified diameter, from 250 mm and upwards.





Roll bracket Part No: 12-0849 Description: For use with detector E2 and precision level E290 when aligning rolls. Note: -





Large roll kit Part No: 12-0885 Description: Accessories for roll diam

Description: Accessories for roll diameter 400–1300 mm [15.7–51.2"]. **Note:** Only legs as on picture to the left included.





Extension Kit for E290 for large diameters Part No: 12-0901

Description: For using the E290 Precision Level on diameters 55–800+ mm [2.16–31.50+ "]. **Note:** Includes 2 legs, 4 magnets and mounting screws.





Slide bracket Width 25 mm [0.99"] Part No: 12-0768

Description: Bracket for straightness measurement of bores with a width of down to 25 mm [0.99'']. For bores \emptyset 80– mm [3.15''-]. Magnetic feet holds the bracket safely also upside down. With positioning guide (extended on picture to the right). Guide can be removed. **Note:** Designed to fit with rod adapter 12-0767 and detectors E8/E9. If used with other detectors and adapters, it is those which determines the minimum measurable diameter.





Rod adapter with built in target Part No: 12-0767

Description: For detector E8/E9. With slidable target. For mounting of the detector on regular rods with 40 mm centre-to-centre distance. Can be used on Slide bracket 12-0768 or any other suitable bracket. **Note:** Detector not included.





Cam shaft bracket Part No: 12-0476 Description: Bracket for straightness measurement. For detector D157. For bores Ø80– mm [3.15"–]. Note: -





Adapter bracket for 40 mm rod distance Part No: 12-0815 Description: Bracket for Cam shaft bracket 12-0476. Makes it possible to also mount a D5, E4, E5 or E7. Note: Only bracket with screws and rods, as pictured leftmost.



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Magnet base with turnable head, for D157 Part No: 12-0608

Description: Magnet base with turnable head. The C–C measure of the rods is 54 mm to fit with the upper part of the 12-0476 bracket. **Note:** Bracket 12-0476 and rods also needed. Detector not included.





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	F C	Foot set for linebore arms Part No: 12-0134 Description: For use with linebore detector arms. Included in 12-0314. Note: -
	F C C	Foot set for Ø100–150 mm Part No: 12-0143 Description: For use with linebore detector 12-0032 and bracket 12- 0553. Included in 12-0314. Note: -
	P C	Offset hub with counterlock Part No: 12-0661 Description: For laser transmitter 12-0075. Note: -
	P C	Offset hub with counterlock and tilt function Part No: 12-0537 Description: For laser transmitter 12-0594. Note: -
		Offset hub with counterlock and tilt function for transmitter E30 Part No: 12-0828 Description: For laser transmitter E30, Part No. 12-0823. Note: -
		Pin for hub Part No: 01-1952 Description: This pin is mounted on the hubs 12-0661, 12-0537 or 12- 0828. The hub can then be mounted in a machine spindle or similar. The pin is hollow so laser beam can be pointed also through pin. Note: -
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	Arm kit with magnets Part No: 12-0707 Description: For offset hub 12-0661 and 12-0537. Arms for bores Ø100–500 mm [3.94"–19.68"]. Note: -	
	Offset hub arms Part No: 12-0384 Description: For offset hub 12-0661 and 12-0537. For bores Ø100– 500 mm [3.94"–19.68"]. Also includes centering plug. Note: -	
	Extension arms Linebore Part No: 12-0282 Description: For extension of the Linebore offset hub arms. Note: -	
	Magnets for offset hub arms Part No: 12-0154 Description: For arms 12-0384. With plastic holder. Note: -	
	Adjustable magnet for offset hub arms Part No: 12-0990 Description: To use when the mounting surfaces for the hub arms aren't in same level. Adjustable 0–14mm [0–0.55"] compared to stan- dard magnet level. Note: -	
	Axial extension arms, Linebore Part No: 12-0580 Description: Used for making it possible to reach the Linebore detec- tor from the same side of the bore as the transmitter. Note: 3 arms with magnets etc. as pictured on the left picture.	
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Laser transmitter bracket Turbine/Bore alignment Part No: 12-0385

Description: For use with offset hub 12-0661 and laser transmitter D75. Included in system E950-B, E960-A, E960-B, D662 and D664. 2 aluminium beams, length 1100 mm and 500 mm. **Note:** Transmitter and hub not included.

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Rod bracket for laser D75 Part No: 12-0149

Description: For mounting of laser transmitter D75 on standard rods. Laser beam can point from the bracket or through the bracket. **Note:** -





Bracket for laser D75 Part No: 12-0187 Description: To use on shaft ends, flywheels etc. Laser beam can point from the bracket or through the bracket. Note: A. 3 super magnets.





Adapter plate for tilt table to magnet base Part No: 12-0874 Description: For mounting D22 laser transmitter on a magnet base, or a magnet base with turnable head. Note: 4 screws M6x16 also needed (not included).



Tilt table Part No: 12-0110

Description: Tilt table mainly for transmitter D22 and D23, but can also be used together with transmitter D75, for example. **Note:** Tool kit also included (see below).





Tilt table, turnable Part No: 12-0864

Description: Tilt table mainly for transmitter E30 Long Range. For fine adjustment of horizontal and vertical angle. Can be used with magnets or mounted on tripod. **Note:** -



Tool kit for tilt table

Part No: 12-0622 Description: Safety strap (12-0915), Machine/magnet base pin (01-0139), set of Hexagon wrenches, Rod tightening tool (03-0048), Feet with points (3 pcs). Note: Tool kit included in Tilt table, Part No. 12-0110.





Bracket for non-magnetic flanges, with handheld detector bracket

Part No: 12-0628 Description: For attachment of laser transmitter D22 or D23 outside flange, on non-magnetic flanges. Note: A. Customer adaptable diameter (18–38 mm) on request.





Handheld detector bracket Part No: 12-0603 Description: For use on non-magnetic surfaces. Note: Use with rods (not included). Includes 2 screws M6x10 and rod tightening tool.



Bar bracket Part No: 12-0988 Description: For alignment of e.g. bar feeders. With super magnet. Note: Rotational centre of magnet is centre for PSD.





Spindle bracket for measuring unit Part No: 12-0787

Description: Bracket for use with an ES-unit as laser transmitter. Clamping pin \emptyset 20 mm [0.79"], clamping length 40 mm [1.57"]. It is also possible to turn the measuring unit to point the laser beam through the pin. This is for example useful when aligning bar feeders. **Note:** Rods and measuring unit not included.





Angular adapter for detector, 90° Part No: 12-1018 Description: Adapter positions detector exactly 90° to other direction. Mainly used for machine tool applications.

Mainly use Note: -

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Machine/magnet base pin for D22, short Part No: 01-0139

Description: For mounting the transmitter in a spindle or on a magnet base, for example. Clamping pin \oslash 16 mm[0.63"], clamping length 30 mm [1.18"].

Note: This pin is included in the tilt table tool kit.







Machine/magnet base pin for D22, Long Part No: 01-1333

Description: For mounting the transmitter in a spindle (or on a magnet base), for example. Clamping pin \emptyset 20 mm[0.79"], clamping length 60 mm [2.36"]. Note: -





Mounting pin for D146 Part No: 12-0568 **Description:** Accessory mounting pin for laser transmitter D146. Makes it possible to point the laser beam into e.g. the chuck. Clamping Ø20 mm [0.79"]. Note: -







Self centering bracket, Linebore Part No: 12-0341

Description: For sterntube measurement. Smallest diameter 250 mm [9.84"]. Includes extension beams and rods for diameters up to 1200 mm [47.24"].

Note: Includes items as pictured leftmost. No detector included.

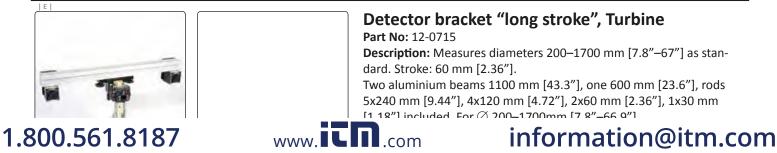




Detector bracket "short stroke", Turbine Part No: 12-0438

Description: With slidable beam. Makes it possible to reach several measurement positions without moving the entire bracket. One aluminium beam 1100 and one 600 mm included. For \varnothing 150–1700mm [5.9"-66.9"].

Note: Detector not included.



	Aluminium beam, 500 mm [19.68"] Part No: 03-0769 Description: Cross section measures 44x44 mm [1.73x1.73"]. Note: -
	Aluminium beam, 600 mm [23.62"] Part No: 03-0770 Description: Cross section measures 44x44 mm [1.73x1.73"]. Note: -
	Aluminium beam, 1100 mm [43.31"] Part No: 03-0771 Description: Cross section measures 44x44 mm [1.73x1.73"]. Note: -
	Titanium rods, set of 3 Part No: 12-1019 Description: Very light, titanium rods. Mainly for use with the probe in turbine applications and similar. Diameter 10 mm. Extendable. Note: 3 lengths included: 1000 mm [39.37"] weight 150 g [5.29 oz], 700 mm [27.56"] weight 110 g [3.88 oz], 400 mm [15.75"] weight 64 g [2.26 oz]
	 Upgrade kit Long stroke Part No: 12-0855 Description: This kit is for upgrading of the long stroke brackets used in D650 with self center bracket, D660 Turbine, E950-B and E960-B. Makes it easier to adjust for different diameters, since the probe rod no longer has to be changed, instead the two other rods are extended when necessary. Note: Only parts pictured on the left image included.
	Tube bracket Part No: 12-0814 Description: Included with Part No. 12-0438 and 12-0715. Note: -
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	Ball top probe Part No: 12-0439 Description: Probe for turbine measurement. Note: -
	Short ball top probe Part No: 12-0490 Description: Probe for turbine measurement. Note: -
	Measuring probe Ruby Ø5 mm Part No: 12-0805 Description: Probe for turbine measurement. With ruby top. Note: -
	Measuring probe Ruby Ø2.5 mm Part No: 12-0801 Description: Probe for turbine measurement. With ruby top. Note: -
	Contoring target Turking
	Centering target, Turbine Part No: 12-0443 Description: For rough alignment of laser beam. 1 m + 0.5 m exten-
	sion. Note: -
	Side support for D5 and other detectors
	Part No: 12-0188 Description: For straightness measurement of engine bed plate. For use together with 12-0189. Note: -
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Side support for D75 Part No: 12-0189 Description: For straightness measurement of engine bed plate. For use together with 12-0188. Note: -

| D | E |





Tripod Part No: 12-0269 **Description:** For use with e.g. D22 and D46. Min./Max. height 500– 2730 mm [19.7–107.5"] **Note:** -





Parallelity kit Part No: 12-0203 Description: For parallelism measurement of rolls. Includes Magnet base D45, Sliding bracket 12-0137, Sliding table 12-0202, 2 x Large target base line. Delivered in plastic case. Note: Detector not included.

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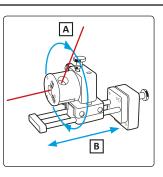




Sliding table for tripod Part No: 12-0202

Description: Sliding table for D22 and D46 to mount on a tripod. Allows for 150 mm slide of the unit, for example to point the laser beam to a detector on a rod or flange without moving the tripod. **Note:** -





Angular prism D46

Part No: 12-0046

Description: Angular prism with built-in penta prism which deflects the beam 90°.

Note: A. With the rotatable angular prism you can reach the detector at any height on a flange, or on a roll at any height.

B. The beam is aligned with the detector using the sled.





Measuring unit holder for Angular prism Part No: 12-0709

Description: Makes it possible to mount a measuring unit in front of the angular prism D46. Used for precision aligning the prism. **Note:** A. Support screws, only used with some detectors to put the PSD at the correct height/centre in front of the prism. B. Screws for mounting on the D46







Sun visor E-series Part No: 12-0587

Description: To use in very sunny conditions when light causes unstable values. Fits detector 12-0509 and measuring units 12-0433/12-0434. With magnet attachment. **Note:** -





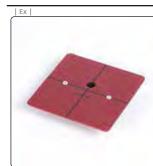
Sun visor Ex

Part No: 12-0592 Description: To use in very sunny conditions when light causes unstable values. Fits measuring units 12-0334 and 12-0335. Clamps onto the front of the unit. Note: -





Target 100x100 mm Part No: 12-0544 **Description:** Rough alignment target for flatness measurement. Adjustable height (to align with either D22 or D23) and magnet base.

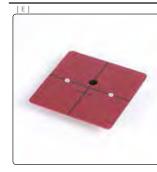




Target Ex cardan Part No: 12-0402

Description: Large target for use when aligning cardan/offset mounted machines. The target clamps onto the front of the D550 measuring units.

Note: -





Large target E-series Part No: 12-0588

Description: The target is mounted with magnet attachment onto the front of detectors 12-0509, 12-0752 and 12-0702, as well as measuring units 12-0433 and 12-0434. **Note:** -

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Target E-series 20 x 20 Part No: 12-0794

Description: Rough alignment target for measuring units ES/EM, detectors E4, E5 and E7. Can be mounted to cover laser opening, functioning as dust cover and protection. With reflective centre point. **Note:** Only one target included per Part No., i.e. if you order targets for a pair of measuring units, you will need two 12-0794

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Large target extruder Part No: 12-0810

Description: Transparent target with adjustable magnets for mounting on tube end. Splits in two, to fit in the transportation case. **Note:** -





Target cardan Part No: 12-0139 Description: Large target for use when aligning cardan/offset mounted machines. The target clamps onto the front of the D-series measuring units.

Note: -





Bluetooth[®] Wireless unit Part No: 12-0436

Description: The unit for wireless communication is inserted into the connector on the detector or measuring unit. No internal battery. **Note:** Fits both E-series detector and measuring units which have an internal battery; 12-0509, 12-0702, 12-0752, 12-0434 and 12-0433.





Bluetooth[®] Wireless unit for E530 Part No: 12-0738

Description: For wireless connection of measuring units 12-0697 and 12-0698. With attachment screw.

Note: With built-in chargeable battery. Does only work with units 12-0697 and 12-0698. Also available as a kit (12-0739) with 2 wireless units and splitter charger cable.





Bluetooth[®] Wireless units kit for E530 Part No: 12-0739

Description: Includes 2 wireless units with battery, Part No. 12-0738, and 1 splitter cable Part No. 12-0728 for charging. **Note:** Measuring unit not included.





Battery pack with built-in Bluetooth[®] unit Part No: 12-0618

Description: Chargeable battery pack which gives extra operating time. With battery status indicator and On/Off button. Built-in Bluetooth[®] unit for wireless measurement data transfer to the display unit. **Note:** Only for the E-series. Includes "red cable" 0.16 m [6.3"].



.com





Battery pack Part No: 12-0617

Description: Chargeable battery pack which gives extra operating time. With battery status indicator and On/Off button. Note: Only for the E-series. Includes "red cable" 0.16 m [6.3"].





Batterypack with Bluetooth[®], Kit Part No: 12-0740

Description: Kit including two Batterypack units with Bluetooth® (12-0618) and one splitter cable B (12-0725). Note: The cable cannot be used for data transfer, only for charging.





Splitter box Part No: 12-0597 Description: Used for connection of up to four Easy-Laser® units when charging them. Note: Standard "red" cables also needed.





Splitter cable B, for charging Part No: 12-0725 Description: To connect two Easy-Laser® units when charging. Note: Only for charging, the cable cannot be used to transfer any mea-

surement data. Not for use with 12-0738.

DC split cable for charging

Part No: 12-0989





Splitter cable A, for charging two 12-0738 Part No: 12-0728 Description: For charging two Bluetooth® wireless units with battery, Part No. 12-0738. Note: Only for charging 12-0738, the cable cannot be used to transfer any measurement data.

Description: Cable for charging the units of system E420, E540 and

Note: This cable cannot transfer any measurement data.





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XT440.





	PC cable ("null modem") Part No: 03-0333 Description: Length 1.8 m [71"] Note: -
	USB/RS232 adaptor Part No: 03-0722 Description: Adaptor and cable extension. Note: Requires internet connection and Windows update.
	USB A - USB B cable Part No: 03-0822 Description: Cable with USB A to USB B connectors. Note: -
	USB cable for Streaming values Part No: 03-1043 Description: Null modem cable for use with E-series display units to stream values directly to a PC. Note: -
	Charger for E-series display unit Part No: 03-0821 Description: - Note: Wall socket connection cable also needed, choose part depend- ing on country of use.
	Charger for XT-series Part No: 03-1256 Description: - Note: Wall socket connection cable also needed, choose part depend- ing on country of use.
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	 VGA kit, for serial number 94177 and newer Part No: 12-0840 Description: Makes it possible to show the display unit screen on a TV or projector. Includes cable 03-0901, cable 03-0902, converter and VGA circuit board. Note: Only for Display unit 12-0418 (E51) with serial number 94177 and higher. The VGA kit (the circuit board) must be ordered at system purchase for factory installation, it cannot be mounted afterwards.
	HDMI to HDMI cable Part No: 03-0901 Description: Length 3 m. Note: -
	VGA to VGA cable Part No: 03-0902 Description: Length 3 m. Note: -
	Barcode reader Part No: 12-0619 Description: For registration of machine data. Connected to the USB port. Note: Includes 25 pcs bar code stickers.
	 Printer for E-series Part No: 03-1004 Description: Battery operated thermal printer. With USB cable and 110–220V charger. For connection to all systems with E-series display units. Note: 1 paper roll included. Spare rolls, Part No. 03-0041.
	Printer 220 V Part No: 03-0032 Description: Battery operated thermal printer. With cable and 220V charger. For connection to all systems with display unit D279. Note: 1 paper roll included. Spare rolls, Part No. 03-0041.
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BRACKETS AND MISCELLANEOUS PRODUCTS



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Luggage trolley Part No: 03-1046

Description: Luggage trolley for easier transportation of system cases. **Note:** Max. load 75 kg [165 lbs]. Dimensions WxHxD: 500x1070x455 mm [19.7x42.1x17.9"]. Dimensions folded WxHxD: 485x790x70 [19.1x31.1x2.8]. Weight 4.4 kg [9.7 lbs].

Protective case for older display units Part No: 03-0042 Description: With strap.

Note: -





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Protective case for display unit D279 Part No: 03-0592 Description: With strap. Note: -





Protective case for display unit D336 Part No: 03-0799 Description: Made of antistatic materials. With strap. Note: -



Protective case for display unit E51, E52 and E53 Part No: 01-1379 Description: With strap. Note: -





LCD display protection film Part No: 03-0972 Description: Thin film for scratch protection of the LCD display. Note: -



BRACKETS AND MISCELLANEOUS PRODUCTS



LCD display protection film for XT11 Part No: 01-1945 Description: Thin film for scratch protection of the LCD display. Note: -



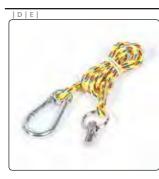


Padded case for BTA Part No: 03-0591 Description: Padded case with belt strap. Note: -





Shoulder strap for display unit E-series Part No: 12-0495 Description: -Note: -



Safety strap Part No: 12-0915 Description: For use with laser transmitter D22, D23 and Digital Level E290. Note: -



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Measuring tape, 3 m [9.8']

Description: Fits the cases for the E-systems.

Part No: 03-0824

Note: -

Measuring tape, 5 m [16.4'] Part No: 03-0842 Description: Fits the cases for the E-series geometry systems. Note: -



BRACKETS AND MISCELLANEOUS PRODUCTS



77

	Battery lid for older display units Part No: 12-0284 Description: - Note: -
	Battery lid for display unit D279 Part No: 12-0354 Description: - Note: -
	Battery lid for display unit D336 Part No: 12-0546 Description: - Note: -
	Bottom part for old display unit Part No: 01-0062 Description: - Note: -
	Side part for display unit D279 Part No: 01-0752 Description: - Note: -
	Top for D23 Part No: 01-0618 + 03-0505 Description: For protection of the rotating head. Note: Top and screw are separate articles.
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Target for BTA, 18 mm Part No: 12-0394 Description: Suitable for laser transmitter 12-0309 and 12-0390. Note: 1 pc.

Target for BTA, 15 mm Part No: 12-0213 Description: Suitable for Easy-Laser® D80. Note: 1 pc.





Nut

Description: For the standard chain.

Barrel nut Part No: 01-0045

Note: -

Part No: 01-0042 Description: For the standard chain. Note: -

Standard chain Part No: 12-0033 Description: -Note: -





Chain, stainless steel Part No: 12-0386 Description: For use with 12-0337. Note: Does not fit with standard chains.

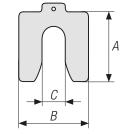


SPARE PARTS

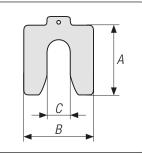
	V-bracket Part No: 12-0130 Description: For mounting on shaft or coupling. Note: Just bracket, no chain.
	Screw M6x14 Part No: 03-0061 Description: - Note: -
	Rod tightening tool, 4 mm Part No: 01-0048 Description: - Note: -
0	Locking screw Part No: 01-0039 Description: Fits measuring units; 12-0001, 12-0002, 12-0119, 12- 0120, 12-0114, 12-0116, 12-0776, 12-0777, 12-0698, 12-0697, 12- 0746, 12-0747. Detectors; 12-0005, 12-0201, 12-0255. Note: -
	Locking screw Part No: 03-0810 Description: Fits measuring units; 12-0434, 12-0433. Detectors; 12-
	0702, 12-0509, 12-0752. Note: -



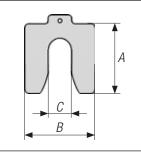


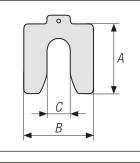














Description: 180 shims, 10 pcs of each shim included. Weight 3.9 kg. Shims type 1, thickness 0.05, 0.10, 0.20, 0.50, 0.70, 1.00 mm. Shims type 2, thickness 0.05, 0.10, 0.20, 0.50, 0.70, 1.00 mm. Shims type 3, thickness 0.05, 0.10, 0.20, 0.50, 0.70, 1.00 mm. **Note:** Shims type 1, A: 55 mm, B: 50 mm, C: 15 mm Shims type 2, A: 75 mm, B: 70 mm, C: 23 mm Shims type 3, A: 90 mm, B: 80 mm, C: 32 mm

Shims case 2, 360 shims

Part No: 12-0259

Description: 360 shims, 20 pcs of each shim included. Weight 6.1 kg. Shims type 1, thickness 0.05, 0.10, 0.20, 0.50, 0.70, 1.00 mm. Shims type 2, thickness 0.05, 0.10, 0.20, 0.50, 0.70, 1.00 mm. Shims type 3, thickness 0.05, 0.10, 0.20, 0.50, 0.70, 1.00 mm. **Note:** Shims type 1, A: 55 mm, B: 50 mm, C: 15 mm Shims type 2, A: 75 mm, B: 70 mm, C: 23 mm Shims type 3, A: 90 mm, B: 80 mm, C: 32 mm

Shims case 3, shims of your choice

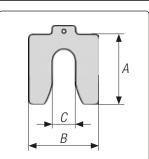
Part No: 12-0743

Description: For this case you choose number of shims yourself, from type 1, 2, 3, 4. We recommend minimum 10pcs/model. Please see price list for dimensions. Weight, case without shims 3.2 kg. **Note:** Shims type 1, A: 55 mm, B: 50 mm, C: 15 mm Shims type 2, A: 75 mm, B: 70 mm, C: 23 mm Shims type 3, A: 90 mm, B: 80 mm, C: 32 mm Shims type 4, A: 125 mm, B: 105 mm, C: 44 mm

Shims case 4, shims of your choice Part No: 12-0755

Description: For this case you choose number of shims yourself, from type 2, 3, 4, 5. We recommend minimum 10pcs/model. Please see price list for dimensions. Weight, case without shims 3.2 kg. **Note:** Shims type 2, A: 75 mm, B: 70 mm, C: 23 mm Shims type 3, A: 90 mm, B: 80 mm, C: 32 mm Shims type 4, A: 125 mm, B: 105 mm, C: 44 mm Shims type 5, A: 200 mm, B: 200 mm, C: 85 mm

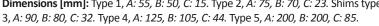




Shims

Part No: See price list.

Description: Blister packs of 10 pcs/size. Type 1, thickness [mm] 0.05, 0.10, 0.20, 0.40, 0.50, 0.70, 1.00, 2.00, 3.00. Type 2, thickness [mm] 0.05, 0.10, 0.20, 0.40, 0.50, 0.70, 1.00, 2.00, 3.00. Type 3, thickness [mm] 0.05, 0.10, 0.20, 0.40, 0.50, 0.70, 1.00, 2.00, 3.00. Type 4, thickness [mm] 0.05, 0.10, 0.20, 0.40, 0.50, 0.70, 1.00, 2.00, 3.00. Type 5, thickness [mm] 0.05, 0.10, 0.20, 0.40, 0.50, 0.70, 0.80, 1.00, 2.00, 3.00. **Dimensions [mm]:** Type 1, *A: 55, B: 50, C: 15.* Type 2, *A: 75, B: 70, C: 23.* Shims type



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	Cap Part No: 13-0004 Description: Cap made of 100% cotton. Easy-Laser® embroidery on front. With strap for size adjustment. Note: Not always in stock. Price upon request.
	USB memory Part No: 03-0914 Description: 2 GB memory stick USB. Easy-Laser® logo engraved on one side as on picture. Note: Price upon request.
	Pen Part No: 13-0006 Description: With blue ink. Easy-Laser® logo and web address "www. easylaser.com" printed. Note: Not always in stock. Price upon request.
	Pen, engraved Part No: 13-0011 Description: With blue ink. Engraved Easy-Laser® logo. Delivered in paper envelope as pictured. Note: Not always in stock. Price upon request.
	Playing cards Part No: 13-0007 Description: Deck of cards. International symbols. Easy-Laser® logo and web address "www.easylaser.com" printed as on picture. Note: Not always in stock. Price upon request.
1.800.561.8187	Key holder Part No: 01-1095 Description: With snap-hook and string for mobile phone. Note: Not always in stock. Price upon request. Image: Source of the stock of t



Logo sticker

Part No: 04-0125 (small), 04-0124 (large) Description: Durable sticker with strong adhesive. This is the same sticker as on the system cases. Available in two sizes: 200x44 mm [7.87x1.73"] and 305x67 mm [12.01x2.64"]. Note: Price upon request.



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Notebook for the technician

Part No: 05-0792

Description: Notebook measuring 90x140 mm that fits easily into a pocket in your work clothes, with an insert comprising 38 pages of graph paper and conversion tables on the inside of the cover. Laser facts on back cover with QR code link to blog.easy-laser.com. **Note:** -



A5 Notes

Part No: 13-0012 Description: 25 note papers, glued with cardboard back. Note: -

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Laser transmitter D246 (Discontinued) Part No: 12-0246

Description: For measuring straightness primarily in turbine applications. The laser beam can sweep 360° (rods will hinder the beam at three positions, see picture), and can be angled 90° to the sweep. Measurement distance 40 m [130'].

Note: This product is discontinued and replaced by 12-0706.





Offset hub for D75 (Discontinued) Part No: 12-0132

Description: For offset adjustment of the laser transmitter in two perpendicular axes. Adjustment ±5 mm in each direction. **Note:** This product is discontinued and replaced by 12-0661.





Offset hub with arms (Discontinued) Part No: 12-0364 **Description:** For laser transmitter D75. Offset adjustment possible of the laser transmitter in two perpendicular axes (± 5 mm in each direction). Arms for bores \emptyset 100–500 mm [3.94"–19.68"]. Note: This product includes offset hub 12-0132, which is discontinued.





Detector Extruder, diameter 20 mm [0.79"] (Discontinued)

Part No: 12-0538 Description: PSD 10x10 mm [0.39"x0.39"] Note: Tube adaptors also needed.





Detector D6 (Discontinued)

Part No: 12-0201

Description: Detector that can read the position of a rotating laser beam from the D23 laser transmitter. 1 axis PSD, 18x18 mm [0.71"x0.71"]. Connectors on top and back side; versatile and also makes it possible to series connect two or more detectors. Normally mounted on rods, but has many additional mounting possibilities thanks to threads on two sides. **Note:** -





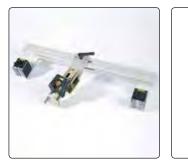
Detector Linebore (Discontinued)

Part No: 12-0032 Description: Detector for linebore applications. PSD 18x18 mm [0.71"x0.71"]. Built-in 360° electronic inclinometer. Connector on back side. Slots for mounting arms.

Note: Arm set 12-0314 also needed.



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Detector bracket "long stroke", Turbine (Discontinued)

Part No: 12-0248

Description: Includes Part No. 12-0178 and 12-0302. Two aluminium beams 1100 and one 600 mm included. For \varnothing 200–1700mm [7.8"– 66.9"].

Note: Detector not included.



System D800 Machine Spin (Discontinued) Part No: 12-0220

Description: This system is no longer in stock as a standard system. Please see system E915 instead.



System D670 Parallelism (Discontinued) Part No: 12-0224 **Description:** This system is no longer in stock as a standard system. Please see system E970 instead.



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System D664 Turbine (Discontinued) Part No: 12-0664 **Description:** This system is no longer in stock as a standard system. Please see system E960 instead.



System D663 Turbine (Discontinued) Part No: 12-0663

Description: This system is no longer in stock as a standard system. Please see system E960 instead.



[NO PICTURE AVAILABLE]

System D662 Turbine (Discontinued) Part No: 12-0662 **Description:** This system is no longer in stock as a standard system. Please see system E960 instead.

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System D660 Turbine (Discontinued) Part No: 12-0185 Description: This system is no longer in stock as a standard system. Please see system E960 instead.

[NO PICTURE AVAILABLE]



System D652 Linebore (Discontinued) Part No: 12-0652

Description: This system is no longer in stock as a standard system. Please see system E950 instead.



System D650 Linebore (Discontinued) Part No: 12-0034 Description: This system is no longer in stock as a standard system. Please see system E950 instead.



System D640 Machine tool (Discontinued) Part No: 12-0552 Description: This system is no longer in stock as a standard system. Please see system E940 instead.



System D630 Extruder (Discontinued) Part No: 12-0193 Description: This system is no longer in stock as a standard system. Please see system E930 instead.



System D600 Machine (Discontinued) Part No: 12-0133 Description: This system is no longer in stock as a standard system. Please see system E920 instead.





System D525 Shaft (Discontinued) Part No: 12-0231 Description: This system is no longer in stock as a standard system. Please see system E710 instead.



System D525 B Shaft (Discontinued)

Part No: 12-0235 Description: This system is no longer in stock as a standard system. Please see system E710 instead.



System D505 Shaft (Discontinued) Part No: 12-0207 Description: This system is no longer in stock as a standard system. Please see system E540 or E710 instead.



System D480 Shaft (Discontinued) Part No: 12-0422 Description: This system is no longer in stock as a standard system. Please see system E540 or E710 instead.



System D450 Shaft (Discontinued) Part No: 12-0300 Description: This system is no longer in stock as a si

Description: This system is no longer in stock as a standard system. Please see system E420 instead.



System D150 BTA digital (Discontinued) Part No: 12-0310 Description: This system is no longer in stock as a standard system. Please see system E180 instead.







Measuring unit M, PSD 10x10 mm (Discontinued) Part No: 12-0001 Description: Laser diode and PSD detector in one housing. Mainly for shaft alignment. PSD 10x10 mm [0.39"x0.39"]. Note: To be used in pair with S unit 12-0002.





Measuring unit S, PSD 10x10 mm (Discontinued) Part No: 12-0002

Description: Laser diode and PSD detector in one housing. Mainly for shaft alignment. PSD 10x10 mm [0.39"x0.39"]. **Note:** To be used in pair with M unit 12-0001.





Measuring unit M, PSD 18x18 mm, inclinometer (Discontinued)

Part No: 12-0119

Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. Mainly for shaft alignment. PSD 18x18 mm [0.71"x0.71"].

Note: To be used in pair with S unit 12-0120.





Measuring unit S, PSD 18x18 mm, inclinometer (Discontinued)

Part No: 12-0120

Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. Mainly for shaft alignment. PSD 18x18 mm [0.71"x0.71"].

Note: To be used in pair with M unit 12-0119.





Measuring unit M, PSD 10x10 mm, inclinometer (Discontinued)

Part No: 12-0423

Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. Mainly for shaft alignment. PSD 10x10 mm [0.39"x0.39"].

Note: To be used in pair with S unit 12-0424.





Measuring unit S, PSD 10x10 mm, inclinometer (Discontinued)

Part No: 12-0424

Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. Mainly for shaft alignment. PSD 10x10 mm [0.39"x0.39"].

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	Measuring unit M, PSD 30x30 mm, inclinometer (Discontinued) Part No: 12-0256 Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. Mainly for shaft alignment. PSD 30x30 mm [1.18"x1.18"]. Note: To be used in pair with S unit 12-0260.
	Measuring unit S, PSD 30x30 mm, inclinometer (Discontinued) Part No: 12-0260 Description: Laser diode and PSD detector in one housing. Built-in electronic 360° inclinometer. Mainly for shaft alignment. PSD 30x30 mm [1.18"x1.18"]. Note: To be used in pair with M unit 12-0256.
	Measuring unit M, 2 axis, PSD 18x18 mm, inclinometer (Discontinued) Part No: 12-0116 Description: Laser diode and PSD detector in one housing. For shaft alignment and many geometrical applications, thanks to the 2 axis PSD (18x18 mm [0.71"x0.71"]). Note: -
	Detector 30 mm, D-series (Discontinued) Part No: 12-0255 Description: 2 axis PSD, 30 x 30 mm [1.18"x1.18"]. Built-in 360° electronic inclinometer. Connectors on top and back side; versatile and also makes it possible to series connect two or more detectors. Normally mounted on rods, but has many additional mounting pos- sibilities thanks to threads on two sides. Note: -
	Offset bracket (Discontinued) Part No: 01-0076 Description: Please see 01-1165 instead. Note: -
	Measuring tape, 2 m [6.5'] (Discontinued) Part No: 12-0012 Description: - Note: -
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Large target extruder (Discontinued) Part No: 12-0199 Description: Please see 12-0810 instead. Note: -



CD (Discontinued) Part No: 06-0001 Description: -Note: -





Magnet base bracket for Linebore detector (Discontinued)

Part No: 12-0329 Description: With this bracket the Linebore detector (Part No. 12-0032) can be mounted on a magnet base. Note: Screws not included.





Height adjustment bracket for D6 (Discontinued) Part No: 12-0417 Description: For fine adjustment of detector D6 on rods. Note: -



Detector E8, 1-axis PSD (Discontinued) Part No: 12-0758

Description: Detector diameter 45 mm [1.77"]. 1 axis PSD, 20x20 mm [0.79"x0.79"]. Built-in 360° electronic inclinometer. Built-in Bluetooth[®] wireless communication and rechargeable battery. There is also a connector on the back side for standard "red cable" (charging and data transfer). Mounting threads on both ends, for tube adapters (01-0777) or other suitable brackets (e.g. 12-0767 and 12-0553). **Note:** Make sure you have a suitable bracket!





Detector E4 (Discontinued)

Part No: 12-0702

Description: Detector for the E-series. 1 axis PSD, 20x20 mm [0.79"x0.79"]. Built-in 360° electronic inclinometer. Two connectors for making it possible to connect two detectors or more in series. Normally mounted on rods, but has many additional mounting possibilities thanks to threads on two sides

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Detector D157 (Discontinued) Part No: 12-0157

Description: 2 axis PSD, 20x20mm [0.79"x0.79"]. Minimum measuring diameter 42 mm. Built-in 360° electronic inclinometer. Connectors on side and back (useful for different bracket designs and applications). Mounting threads on both ends, for tube adapters (01-0777) or other suitable brackets (e.g. 12-0476, 12-0320, 12-0553). **Note:** -





Detector D5 (Discontinued)

Part No: 12-0005

Description: 2 axis PSD, 18x18 mm [0.71"x0.71"]. Built-in 360° electronic inclinometer. Connectors on top and back side; versatile and also makes it possible to series connect two or more detectors. Normally mounted on rods, but has many additional mounting possibilities thanks to threads on three sides. **Note:** -



System E530 Shaft (Discontinued)

Part No: 12-0695 Description: This system is no longer in stock as a standard system. Please see system E710 or E540 instead.



Display unit D-series: D279 (Discontinued) Part No: 12-0279

Description: Available in different measurement program configurations. Which programs are available depends on in which system the display unit is included.

Note: -





AC adaptor for Display unit D279 (Discontinued) Part No: 12-0590

Description: For unbroken power supply of the Display unit. **Note:** Wall socket connection cable also needed, choose part depending on country of use (Part Numbers: 03-0892, 03-0893, 03-0894 or 03-0895). 100–240V AC, 50–60 Hz, 30 mA / 12V DC, 1.5A.





Detector for sheave/pulley alignment (Discontinued)

Part No: 12-0308

Description: Detector unit that reads off the sheaves position in one direction (horizontal/vertical) at a time. With built-in display. **Note:** For use together with BTA transmitter 12-0309.

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Sun visor (Discontinued) Part No: 01-1352 Description: To use in very sunny conditions when light causes unstable values. Fits detector D6. Note: -



Easy-Laser[®] D130 BTA Ex (Discontinued) Part No: 12-0400 **Description:** This system is no longer in stock as a standard system.



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Laser transmitter for sheave/pulley alignment Ex (Discontinued)

Part No: 12-0390

Description: Laser transmitter producing a laser line parallel to the object it is mounted to. For use in potentially explosive environments. Note: Only transmitter as pictured, no targets included. (Complete system, see Part No. 12-0400.)

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TECHNICAL SPECIFICATIONS

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READ THIS INFORMATION CAREFULLY

- On the following pages technical specifications for the most common units can be found. We will not list all products here.
- You should always also read the complete product description to find out about compatibility with other Easy-Laser[®] products.
- Please note that the measurement range for laser transmitters is the maximum range, and in reality depends on the detector used and the application.
- Operating times also depends on the actual application, therefore it is not specified for all products. See system specifications in each brochure for more detailed information.
- The drawings show the most important measures. Because of limited space we cannot always place the projections according to Europen drawing projection, but that is otherwise the method used.

COMPATIBILITY BETWEEN *D*, *E* AND *XT*

- The D-series, E-series and XT-series detectors and display units can only be used within its own product series. This is due to software communication.
- Brackets for D- and E-series has a rod C–C of 40 mm, XT-series rod C–C is 56 mm. The new XT offset bracket (12-1008) function as an adaptor for these two measures, but doesn't fit all older brackets. We will of course continue the developement and adaptation of brackets.

Software communication





Brackets



SPECIFICATIONS FOR BUILT-IN RECHARGEABLE BATTERIES:

Easy-Laser	Туре	Voltage	Output	Capacity	Included in Part No.
Part No.					
03-0757	Li-lon	3.7 V	43 Wh	11600 mAh	12-0418, 12-0700
03-0765	Li-Po	3.7 V	2.5 Wh	680 mAh	12-0433, 12-0434, 12-0509, 12-0688, 12-0702,
					12-0738, 12-0752, 12-0759, 12-0758, 12-0846
03-0971	Li-lon	3.7 V	8.5 Wh	2300 mAh	12-0617, 12-0618, 12-0823, 12-0845
03-1052	Li-Po	3.7 V	1.5 Wh	380 mAh	12-0746, 12-0747, 12-0776, 12-0777, 12-0791
03-1055	Li-lon	3.7 V	34 Wh	9200 mAh	12-0748
12-0953	Li-Po	3.7 V	7.4 Wh	2000 mAh	12-0944, 12-0943
12-0952	Li-lon	7.4 V	39.22 Wh	5300 mAh	12-0961 (2 pcs)



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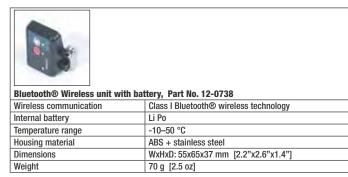
Display unit D336, Part No. 12-0336		
Type of display	Dot matrix LCD	
Display size	73x73 mm	
Displayed resolution	Changeable: 0.1; 0.01; 0.001 mm. 5; 0.5; 0.05 mils/thou	
Battery	4 Duracell Procell Alkaline Mn1400 LR14 1.5 V	
Output port	RS232 with USB adapter. For printer+PC communication	
Keyboard	Membrane keys with alphanumeric multifunction	
Storage memory	Space for 1,000 shaft alignment measurements	
Settings	For Measurement value filtering, Unit (mil/thou/mm) etc.	
Protection	IP66/IP67: Shockproof, Waterproof, Dustproof	
Housing material	Anodised aluminium/Chrome-plated aluminium	
Dimensions	WxHxD: 177x180x43 mm	
Weight	1000 g	



Bluetooth® Wireless unit, Part No. 12-0436			
Class I Bluetooth® wireless technology			
-10–50 °C			
IP class 66 and 67			
ABS			
WxHxD: 53x32x24 mm [2.1"x1.2"x0.9"]			
25 g [0.9 oz]			



Batterypack with built-in Bluetooth® Wireless unit, Part No. 12-0618		
Wireless communication Class I Bluetooth® wireless technology		
Internal battery	Li lon	
Temperature range	-10–50 °C	
Connection cable	0.16 m [6.3"], included	
Housing material	Anodized aluminium + POM	
Dimensions	WxHxD: 60x85x43 mm [2.36"x3.35"x1.69"]	
Weight	180 g [6.3 oz]	





Vibrometer probe D283, Part No.	12-0283
Probe sensitivity	100 mV/g ±10%
Dimensions	Magnet: L=20 mm [4/5"], Ø=15 mm [19/32"]
	Gauge tip: L=65 mm [2 1/2"]



Vibrometer probe E285, Part No.	12-0656
Probe sensitivity	100 mV/g ±10%
Dimensions	Magnet: L=20 mm [4/5"], Ø=15 mm [19/32"]
	Gauge tip: L=65 mm [2 1/2"]

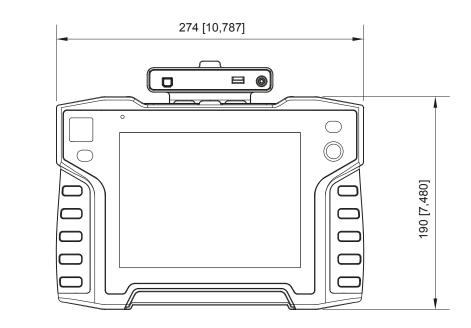
	M: Part No. 12-0334, S: Part No. 12-0335
Type of laser	Diode laser
Laser wavelength	635–670 nm, visible red light
Laser safety class	Class 2
,	
Laser output power < 1 mW	
Resolution	0.001 mm
Type of detector	2-axis PSD 20x20 mm
Inclinometers	Electronic inclinometers, 0.1° resolution
Thermal sensors	±1°C accuracy
Protection	No influence from ambient light
Protection	IP66/IP67: Shockproof, Waterproof, Dustproof
Housing material	Hard anodised aluminium
Dimensions	WxHxD: 75x65x52 mm
Weight	220 g

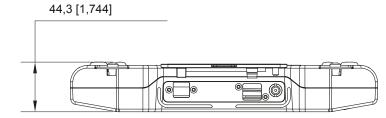
1.800.561.8187



Display unit XT11, Part No. 12-0961

	CE
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 (optional)
Communication	Wireless technology, WiFi
Camera, with diode lamp	13 Mp
IR camera (optional)	FLIR LEPTON® Long Wave Infrared
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]





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98

mm [inch]

Display unit E51, Part No. 12-0418

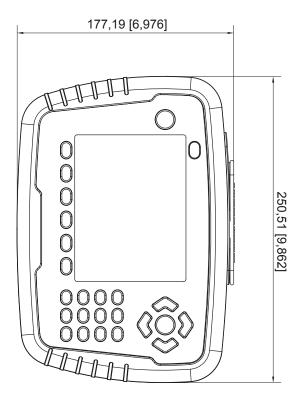
	Note: the look of the display unit keyboard can vary depending on market.
Type of display/size	VGA 5.7" colour screen, backlit LED
Displayed resolution	0.001 mm / 0.05 thou
Power management	Endurio [™] system for unbroken power supply
Internal battery (fixed)	Heavy duty Li Ion chargeable
Battery compartment	For 4 x R14 (C)
Temperature range	-10–50 °C
Connections	USB A, USB B, Easy-Laser® units, Charger
Wireless communication	Class I Bluetooth® wireless technology
Internal memory	>100 000 measurements can be saved
Help functions	Calculator, Unit converter
Environmental protection	IP class 65
Housing material	PC/ABS + TPE
Dimensions	WxHxD: 250x175x63 mm [9.8"x6.9"x2.5"]
Weight (without batteries)	1080 g [2.4 lbs]

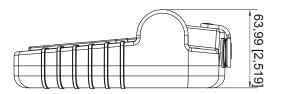
Display unit E52, Part No. 12-0700

	CE
Type of display/size	VGA 5.7" colour screen, backlit LED
Displayed resolution	0.001 mm / 0.05 thou
Internal battery (fixed)	Heavy duty Li Ion chargeable
Temperature range	-10–50 °C
Connections	USB A, USB B, Easy-Laser® units, Charger
Wireless communication	Class I Bluetooth® wireless technology
Internal memory	>100 000 measurements can be saved
Help functions	Calculator, Unit converter
Environmental protection	IP class 65
Housing material	PC/ABS + TPE
Dimensions	WxHxD: 250x175x63 mm [9.8"x6.9"x2.5"]
Weight	1020 g [2.3 lbs]

Display unit E53, Part No. 12-0748

C	CE
Type of display/size	VGA 5.7" colour screen, backlit LED
Displayed resolution	0.001 mm / 0.05 thou
Internal battery (fixed)	Heavy duty Li Ion chargeable
Temperature range	-10–50 °C
Connections	USB A, Charger
Wireless communication	Class I Bluetooth® wireless technology
Internal memory	>2000 measurements can be saved
Help functions	Calculator, Unit converter
Environmental protection	IP class 65
Housing material	PC/ABS + TPE
Dimensions	WxHxD: 250x175x63 mm [9.8"x6.9"x2.5"]
Weight	910 g [2.0 lbs]





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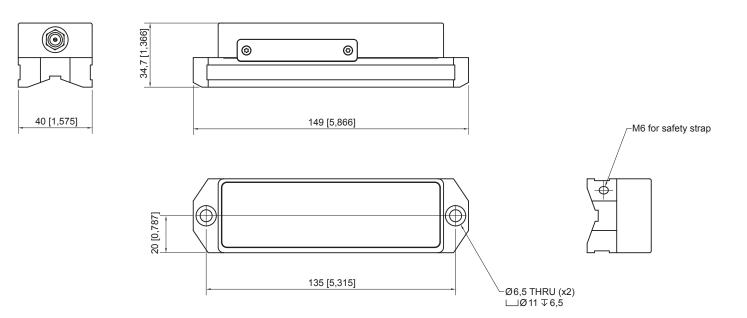


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mm [inch]

Digital Precision Level, Part No. 12-0846

		CE
Resolution	0.01 mm/m (0.001°)	
Range	± 2 mm/m	
Measurement error	Better than \pm 0.02 mm/m	
Type of display	OLED	
Wireless communication	Class I Bluetooth® wireless technology	
Environmental protection	IP Class 67	
Operating temperature	-10–50 °C	
Internal battery	Li Po	
Material	Anodized aluminium , ABS plastics	
Dimensions	WxHxD: 149x40x35 mm [5.9x1.6x1.4"]	
Weight	530 g [18.7oz]	



Extension kit for Precision Level, Part No. 12-0901

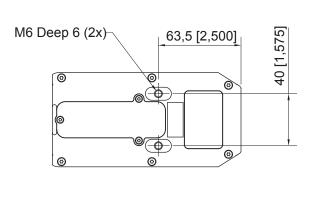
7		
For diameters	55-800+ mm [2.16-31.50+"]	
Material	Anodized aluminium , Stainless steel feet	
Weight	430g [15.2 oz]	
		60 [2.362] 116 [4.567] 180 [7.087]

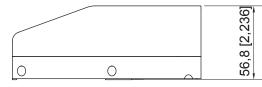
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Laser transmitter E30 Long range, Part No. 12-0823

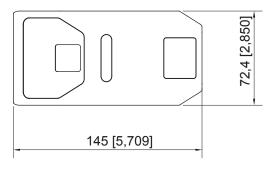
	CCE
Laser	Diode laser
Laser wave length	600–680 nm
Adjustable modulation	0, 5, 32, 40, 100 KHz
Output power	Max 1mW
Beam diameter	12 mm (1/2") at aperture
Working area with 20mm detector	0–100 meter [328 ft]
Working area with 30mm detector	0->200 meter [656 ft]
Type of battery	Li Ion
Operating time	>24 h
Operating temperature	-10 to 50 °C
Environmental protection	IP67
Wireless communication	Class I Bluetooth® wireless technology (passive)
Chock sensor	6 axis mems gyro with inclinometer
Type of display	0-led 96x96 pixel
Charging power	5–12 V DC
Housing material	Anodized aluminium T6060
Dimensions	WxHxD: 145.0x72.4x56.8 mm [5.71x2.85x2.24"]
Weight	620g [21.7 oz]





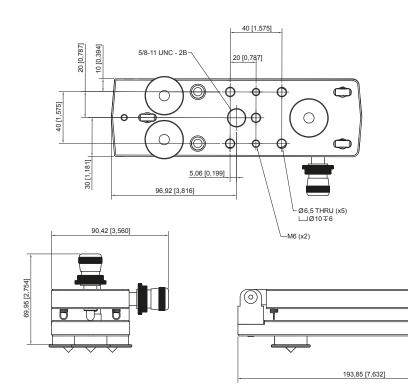
Laser transmitter E30 Long range, with tilt table, Part No. 12-0858





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40 [1,575]



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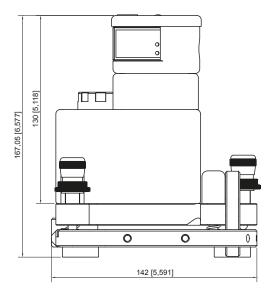
M6 Deep 6 (2x)

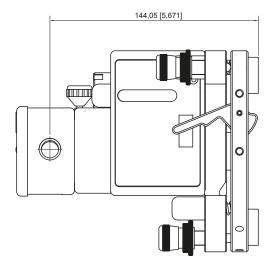
32,8 [1,291]

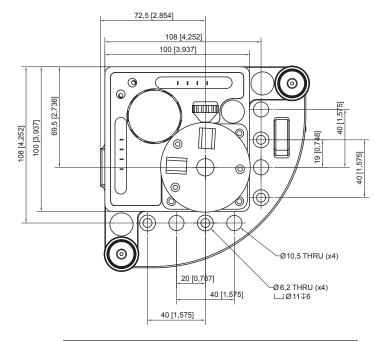
9,8 [0,386]

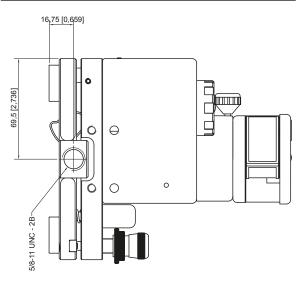
Laser transmitter D22, Part No. 12-0022

	CCE
Type of laser	Diode laser
Laser wavelength	635–670 nm, visible red light
Laser Safety Class	Class 2
Output	< 1 mW
Beam diameter	6 mm [1/4"] at aperture
Working area, range	40-metre radius [130']
Type of battery	1 x R14 (C)
Operating time/battery	approx. 24 hours
Levelling range	± 30 mm/m [± 1.7°]
3 x spirit vials' scaling	0.02 mm/m
Squareness between laser beams	0.005 mm/m [0.005 mils/inch] [1 arc sec.]
Flatness of sweep	0.02 mm/m
Fine turning	0.1 mm/m [20 arc sec.]
2 x spirit vials for rotation	5 mm/m
Housing material	Aluminium
Dimensions	WxHxD: 139x169x139 mm [5.47"x6.64"x5.47"]
Weight	2650 g [5.8 lbs]









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Laser transmitter D22, Part No. 12-0022

Examples of use

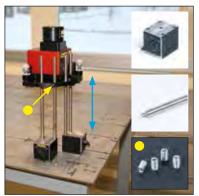
The D22 can be mounted in various ways. Below are just some examples. The important thing is to always tighten rods, screws and magnets firmly. Also be sure the surface where the magnets are attached is clean. If possible use the safety strap.



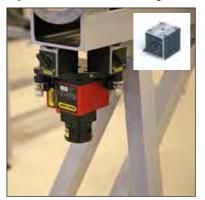
On tripod (Part No. 12-0269).



On sliding table for tripod Part No. 12-0202. For easy alignment to detector.



Rigid mounting, still easy to height adjust. Use rods of suitable length.



With magnet bases, very rigid mounting.





With super magnets on tilt table (included) directly on surface.



When surface is too small for three super magnets. Pin included with D22.



In a machine spindle. Spindle/magnet base pin Part No. 01-1333.

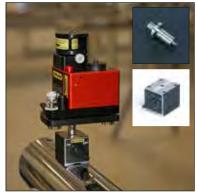


With magnet bases, very rigid mounting.





Feet with points (included), on non magnetic surface.



On round surfaces, horizontal sweep. Pin included with D22.



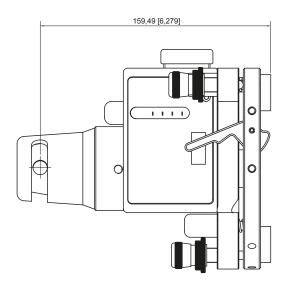
Vertical mounting on roll. Adapter plate Part No. 12-0874.

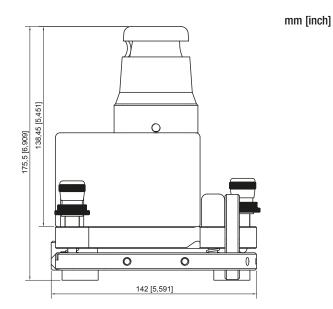


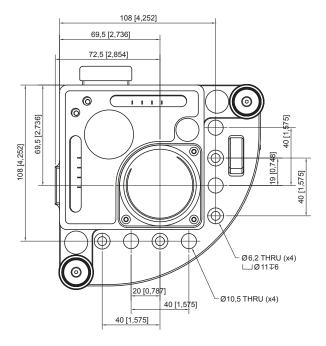
Rigid mounting, horizontal sweep.

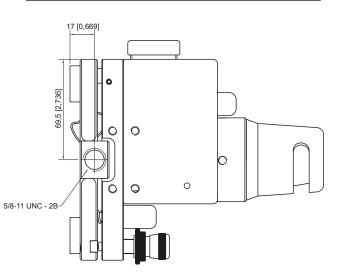
Laser transmitter D23 Spin, Part No. 12-0168

	CCE
Type of laser	Diode laser
Laser wavelength	635–670 nm, visible red light
Laser Safety Class	Class 2
Output	< 1 mW
Beam diameter	6 mm [1/4"] at aperture
Working area, range	20-metre radius [65 [°]]
Type of battery	2 x R14 (C)
Operating time/battery	approx. 15 hours
Operating temperature	0–50 °C
Levelling range	± 30 mm/m [± 1.7°]
3 x spirit vials' scaling	0.02 mm/m
Flatness of sweep	0.02 mm/m
Housing material	Aluminium
Dimensions	WxHxD: 139x169x139 mm [5.47x6.64x5.47"]
Weight	2650 g [5.8 lbs]









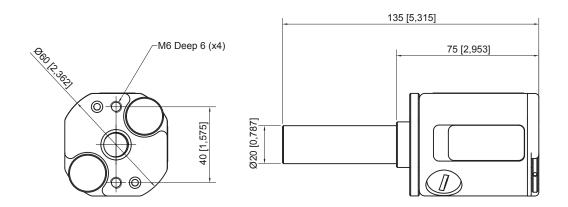
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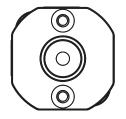
1.800.561.8187



Laser transmitter D146 Spindle, Part No. 12-0146

	CCE LASER RADIATION DO NOT STARE INTO BEAM DIODE LASER 1 mW MAX OUTPUT AT 600-680 nm CLASS2 LASER PRODUCT	
Type of laser	Diode laser	
Laser wavelength	635–670 nm, visible red light	
Laser Safety Class	Class 2	
Output	< 1 mW	
Beam diameter	3 mm [1/8"] at aperture	
Measurement distance	20 m [65´]	
Type of battery	1 x R6 (AA)	
Operating time/battery	approx. 6 hours	
Clamping pin	Ø 20 mm, L= 60 mm [Ø 0.78", L=2.36"]	
Housing material	Anodized aluminium	
Dimensions (without pin)	Ø 60 mm, L=98 mm [Ø 2.36", L=3.86"]	
Weight (with pin)	470 g [16.5 oz]	



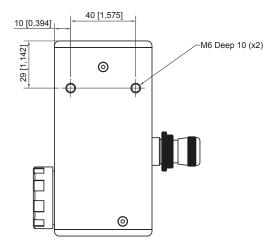


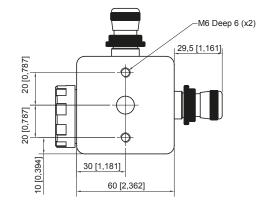
1.800.561.8187

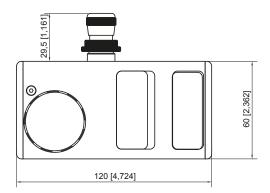


Laser transmitter D75, Part No. 12-0075

	CCE
Type of laser	Diode laser
Laser wavelength	635–670 nm, visible red light
Laser Safety Class	Class 2
Output	< 1 mW
Beam diameter	6 mm [1/4"] at aperture
Working distance	40-metre [130']
Type of battery	1 x R14 (C)
Operating time/battery	approx. 15 hours
Operating temperature	0–50 °C
Laser adjustment	D75: 2 ways ±2° (± 35 mm/m)
Housing material	Aluminium
Dimensions D75	WxHxD: 60x60x120 mm [2.36x2.36x4.72"]
Weight	780 g [27.5 oz]







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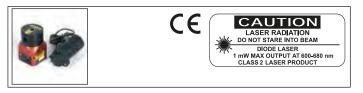
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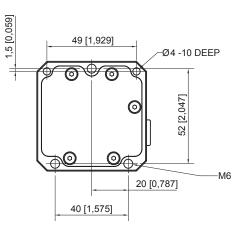
mm [inch]

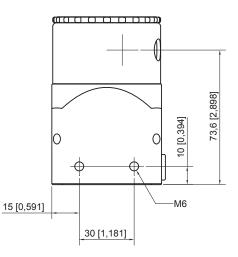
Laser transmitter D25 with offset hub, Part No. 12-0706

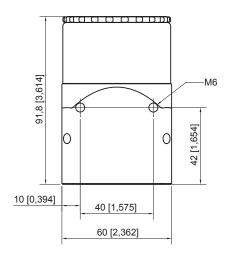
	CCE LASER RADIATION DO NOT STARE INTO BEAM DIODE LASER 1 mW MAX OUTPUT AT 600-680 nm CLASS 2 LASER PRODUCT
Laser diode	<1 mW Class 2
Laser wavelength	635–670 nm
Beam diameter	6 mm at aperture [1/4"]
Measurement range	40 m radius [130']
Battery type	1 x 1.5 V R14 (C)
Operating time / battery	>24 hours
Levelling range	±1.7° (±30 mm/m) in two directions [±30 mils/inch]
Perpendicularity between beams	2 arc sec. (0.01 mm/m) [0.5 mils/inch]
Flatness of sweep	0.02 mm/m (20µ)
Housing material	Anodised aluminium
Dimensions (transmitter down)	137x137x142 mm [5.4"x5.4"x5.6"]
Dimensions (transmitter up)	137x137x150 mm [5.4"x5.4"x5.9"]
Weight	2124 g (battery adaptor excluded) [4.7 lbs]

Laser transmitter D25, Part No. 12-0594









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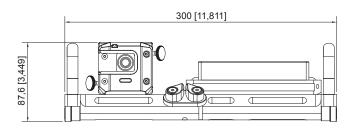
Roll alignment kit, Part No. 12-0856

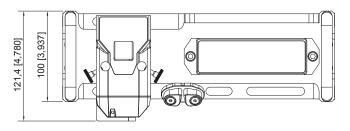
	CE LASER RADIATION DO NOT STARE INTO BEAM DIODE LASER 1 mW MAX OUTPUT AT 600-680 nm CLASS 2 LASER PRODUCT
Detector	See 12-0845 for technical specifications
Digital precision level	See 12-0846 for technical specifications
Bracket dimensions	See drawings

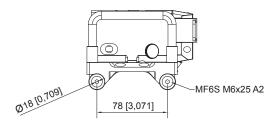
Roll bracket, Part No. 12-0849



mm [inch]

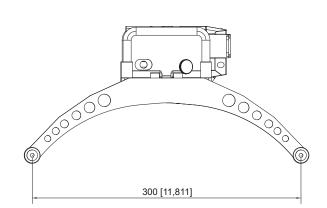






Large roll kit, Part No. 12-0885





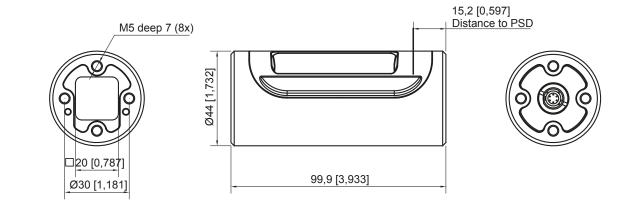
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Detector E9, Part No. 12-0759

	CE
Wireless communication	Built-in Class I Bluetooth® wireless technology
Type of detector	2 axis PSD 20x20 mm [0.78" sq]
Resolution	0.001 mm [0.05 mils]
Measurement error	<1% +1 digit
Thermal sensor	± 1° C accuracy
Environmental protection	IP class 67
Internal battery	Li Po
Protection	No influence from ambient light
Housing material	Anodized aluminium
Dimensions	Ø 45 mm [1.77"], length 100 mm [3.94"]
Weight	180 g [6.3 oz]

mm [inch]

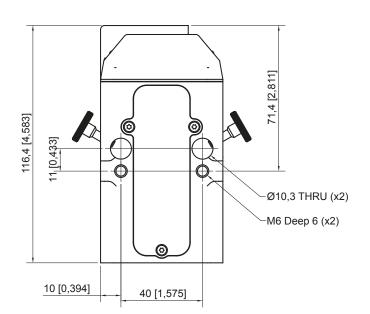


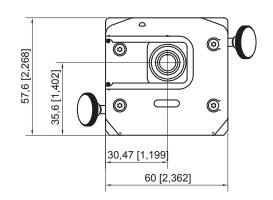
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Angle detector E2, Part No. 12-0845

Type of detector	2 axis PSD 20x20 mm [0.78" sq]
Type of display	OLED
Wireless communication	Class I Bluetooth® wireless technology
Internal battery	Li lon
Resolution	0.01 mm/m (0.001°)
Measurement error	Better than \pm 0.02 mm/m
Inclinometers	0.1° resolution
Environmental protection	IP Class 67
Operating temperature	-10–50 °C
Housing material	Anodized aluminium
Dimensions	WxHxD: 116x60x57 mm [4.6x2.4x2.2"]
Weight	530 g [18.7oz]



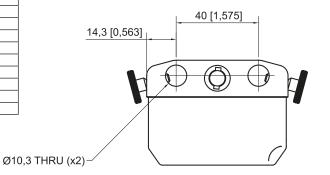


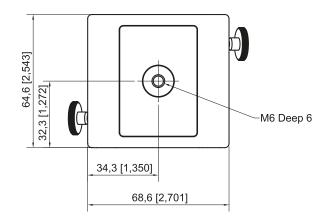
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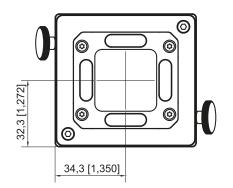


Detector E3, Part No. 12-0799

1	CE
Wireless communication	Built-in Class I Bluetooth® wireless technology
Type of detector	2 axis PSD 30x30 mm [1.18" sq]
Resolution	0.001 mm [0.05 mils]
Measurement error	<1% +1 digit
Thermal sensor	± 1° C accuracy
Environmental protection	IP class 65
Internal battery	Li Po
Protection	No influence from ambient light
Housing material	Anodized aluminium
Dimensions	WxHxD: 69x65x49 mm [2.7"x2.6"x1.9"]
Weight	262 g [9.2 oz]







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Detector E7H, HyperPSD[™], Part No. 12-0824

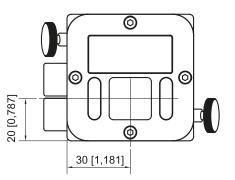
Detector E7, Part No. 12-0824	CE
Type of detector	2 axis PSD 20x20 mm [0.78" sq]
Resolution	0.0001 mm [0.005 mils]
Measurement error	± 1% +1 digit
Inclinometers	0.1° resolution
Thermal sensors	± 1° C accuracy
Environmental protection	IP Class 66 and 67
Operating temperature	-10–50 °C
Internal battery	Li Po
Housing material	Anodized aluminium
Dimensions	WxHxD: 60x60x42 mm [2.36x2.36x1.65"]
Weight	186 g [6.6 oz]

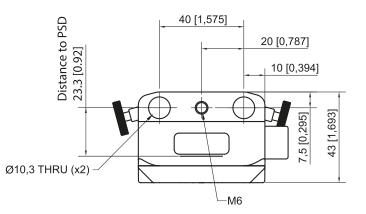
Detector E7, Part No. 12-0752

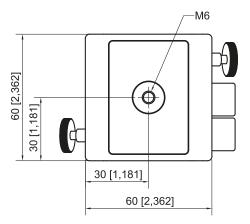
Detector E7, Part No. 12-0752	CE
Type of detector	2 axis PSD 20x20 mm [0.78" sq]
Resolution	0.001 mm [0.05 mils]
Measurement error	± 1% +1 digit
Inclinometers	0.1° resolution
Thermal sensors	± 1° C accuracy
Environmental protection	IP Class 66 and 67
Operating temperature	-10–50 °C
Internal battery	Li Po
Housing material	Anodized aluminium
Dimensions	WxHxD: 60x60x42 mm [2.36x2.36x1.65"]
Weight	186 g [6.6 oz]

Detector E5, Part No. 12-0509

Detector E5, Part No. 12-0509	CE
Type of detector	2 axis PSD 20x20 mm [0.78" sq]
Dual Detection Technology™	Can detect both spinning and stationary laser beam, but
	is optimised for spinning laser.
Resolution	0.001 mm [0.05 mils]
Measurement error	± 1% +1 digit
Inclinometers	0.1° resolution
Thermal sensors	± 1° C accuracy
Environmental protection	IP Class 66 and 67
Operating temperature	-10–50 °C
Internal battery	Li Po
Housing material	Anodized aluminium
Dimensions	WxHxD: 60x60x42 mm [2.36x2.36x1.65"]
Weight	186 g [6.6 oz]





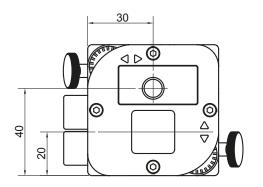


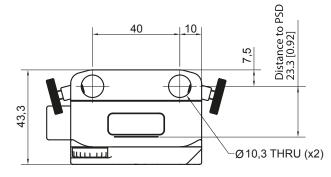
1.800.561.8187

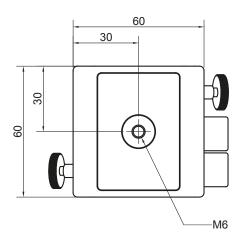


Measuring unit M/S, Part No. 12-0434 / 12-0433

7	CCE
¥	M: Part No. 12-0434, ES: Part No. 12-0433
Type of detector	2-axis PSD 20x20 mm [0.78" sq]
Resolution	0.001 mm [0.05 mils]
Measuring errors	±1% +1 digit
Measurement range	Up to 20 m [66 feet]
Type of laser	Diode laser
Laser wavelength	635–670 nm
Laser class	Safety class II
Laser output	<1 mW
Electronic inclinometer	0,1° resolution
Thermal sensors	± 1° C accuracy
Environmental protection	IP class 66 and 67
Temperature range	-10–50 °C
Internal battery	Li Po
Housing material	Anodized aluminium
Dimensions	WxHxD: 60x60x42 mm [2.36"x2.36"x1.65"]
Weight	202 g [7.1 oz]







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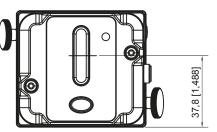
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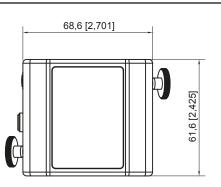
mm [inch]

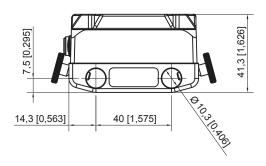
Measuring unit ELM40 / ELS40, Part No. 12-0776 / 12-0777

	CEE
Wireless communication	Built-in Class I Bluetooth® wireless technology
Internal battery	Li Po
Type of detector	True PSD 30 mm [1.2"]
Resolution	0.001 mm [0.05 mils]
Measuring errors	±1% +1 digit
Measurement range	Up to 10 m [33 feet]
Type of laser	Diode laser
Laser wavelength	635–670 nm
Laser class	Safety class II
Laser output	<1 mW
Electronic inclinometer	0.1° resolution
Thermal sensors	-20–60 °C
Environmental protection	IP class 65
Temperature range	-10–50 °C
Housing material	Anodized aluminium / ABS plastics
Dimensions	WxHxD: 69.0x61.5x41.5 mm [2.72"x2.42"x1.63"]
Weight	164 g [5.8 oz]



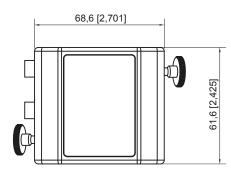
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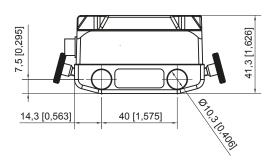




Measuring unit ELM30 / ELS30, Part No. 12-0698 / 12-0697

	CCE LASER RADIATION DO NOT STARE INTO BEAM DIDDE LASER 1 mW MAX OUTPUT AT 600-680 nm CLASS 2 LASER PRODUCT
Type of detector	True PSD 30 mm [1.2"]
Resolution	0.001 mm [0.05 mils]
Measuring errors	±1% +1 digit
Measurement range	Up to 10 m [33 feet]
Type of laser	Diode laser
Laser wavelength	635–670 nm
Laser class	Safety class II
Laser output	<1 mW
Electronic inclinometer	0.1° resolution
Thermal sensors	-20–60 °C
Environmental protection	IP class 65
Temperature range	-10–50 °C
Housing material	Anodized aluminium / ABS plastics
Dimensions	WxHxD: 69.0x61.5x41.5 mm [2.72"x2.42"x1.63"]
Weight	164 g [5.8 oz]



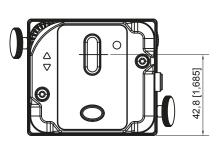


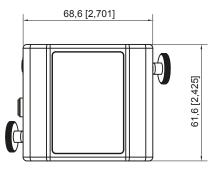
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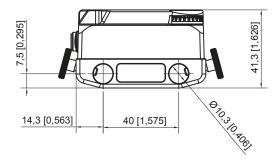


Measuring unit ELM20 / ELS20, Part No. 12-0746 / 12-0747

Measuring unit PSD 20 mm. ELM2	CCE CAUTION LASER RADIATION DO NOT STARE INTO BEAM DIODE LASER 1 mW MAX OUTPUT AT 600-680 nm CLASS 2 LASER PRODUCT 20: Part No. 12-0746, ELS20: Part No. 12-0747
Wireless communication	Built-in Class I Bluetooth® wireless technology
Internal battery	Li Po
Type of detector	True PSD 20 mm [0.79"]
Resolution	0.01 mm [0.5 mils]
Measuring errors	±1% +1 digit
Measurement range	Up to 3 m [10 feet]
Type of laser	Diode laser
Laser wavelength	635–670 nm
Laser class	Safety class II
Laser output	<1 mW
Electronic inclinometer	0.1° resolution
Thermal sensors	-20–60 °C
Environmental protection	IP class 65
Temperature range	-10–50 °C
Housing material	Anodized aluminium / ABS plastics
Dimensions	WxHxD: 69.0x61.5x41.5 mm [2.72"x2.42"x1.63"]
Weight	176 g [6.2 oz]





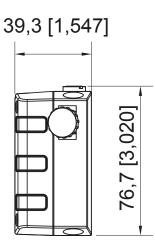


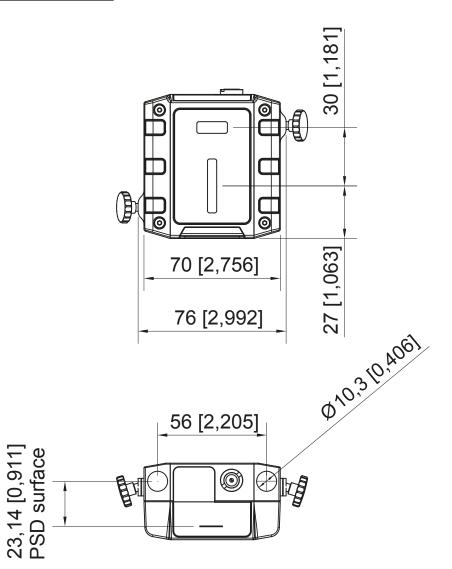
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Measuring unit XT40-M, XT40-S, Part No. 12-0943 / 12-0944

Measuring unit PSD 30 mm. XT40	CAUTION LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT OUTPUT POWER MAX 0.9 mW, PULSE DURATION 4-7 µs. PULSE ENERGY MAX 7 nJ. WAVELENGTH 630-680 nm. -M: Part No. 12-0943, XT40-S: Part No. 12-0944
Type of detector	TruePSD 30 mm [1.2"]
Communication	Bluetooth® wireless technology
Battery type	Heavy duty Li Ion chargeable
Operating time	Up to 24 h continuously
Resolution	0.01 mm [0.5 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]





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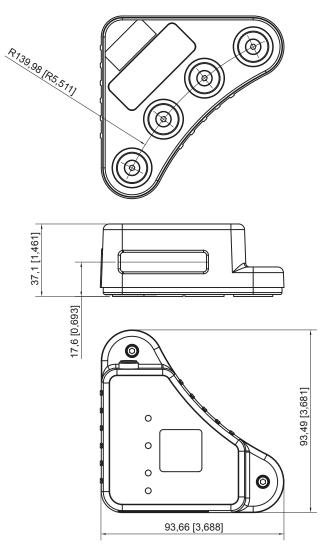


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mm [inch]

E-series wireless detector for BTA, Part No. 12-0791

	CE
Sheave diameters	>60 mm [2.5"]
Measurement distance	Up to 3 m [9.8'] between Transmitter and Detector
Measurement range	Axial offset: ±3 mm [0.12"]. Angular value: ±8°
Displayed resolution	Offset: 0.1°, Angle: 0.01°
Display type	Yellow OLED 96x96 pixels
Connection	Bluetooth® wireless technology
Battery type	Li-Po
Battery operation	5 hours continuously
Material	ABS plastics / Anodized aluminium
Dimensions	WxHxD: 95x95x36 mm [3.7x3.7x1.4"]
Weight	190 g [6.7 oz]

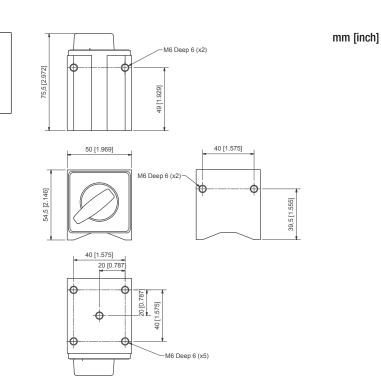


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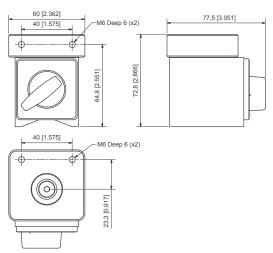
Magnet base, Part No. 12-0013



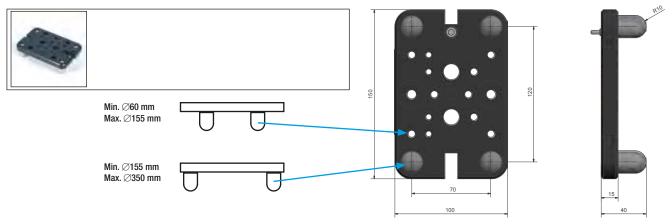


Magnet base with turnable head, Part No. 12-0045





Sliding bracket, Part No. 12-0039



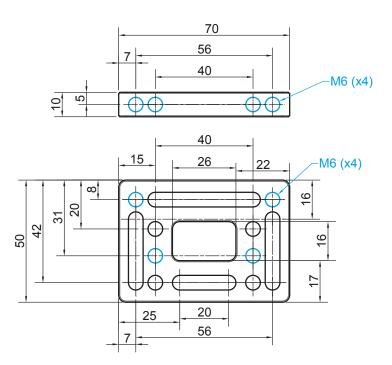
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mm

Offset bracket, Part No. 12-1008





Blue circles are threaded holes.





Notebook for the technician84

Note: New products in rev14 marked with **Bold** letters.

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Note: New products in rev14 marked with **Bold** letters.