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.

<table>
<thead>
<tr>
<th>D</th>
<th>D550</th>
<th>E</th>
<th>XT</th>
</tr>
</thead>
</table>

Note! 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.

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

Measure flanges easily with spinning laser
This system is mainly for wind turbine tower producers who want measure flanges of flanges. Similar applications can be e.g. climb- bearings. You can see the result as a true 3D image in the display a directly after measuring. Then evaluates the result easily with after calculation settings, for example three point reference, best fit or positive. This can also be done directly on site without having to go to a PC with separate analysis programs, which was the case previously. This reduces production much more efficient.

The system includes laser transceiver D23 Spin with power rotate head. This is how it works in brief. The laser beam from the transmitter constantly and creates a reference plane over the entire measurement object. Measurements are performed quicker as you just have to align the beam for each new measurement position. To place the detector at the desired measurement points and remains 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 themselves. It is then possible to generate a PDF report containing graphs and measurement data directly from the measurement itself without having to go to a PC with separate analysis programs, which was the case previously. This reduces production much more efficient.

System overview:

- Complete system contains:
- Detector E5
- Laser transmitter D23 incl. tilt table
- Barcode reader
- Battery pack with wireless unit
- Can show the system/product in an application, a product function or another view.

Additional pictures

Detector E5
Part No: 12-0529
Description: Detector for the E [0.79°x0.79°]. Built in 360° ele making it possible to connect it firmly mounted on rods, but has mi thanks to threads on sides.

Note: With Dual Detection Tec fixed point laser and spinning lens.

Main product picture

Additional pictures

Easy-Laser® Product overview

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Note!

We reserve the right to make modifications of the product design and technical specifications without prior notification.

Be aware that these pictures may show items that are not included for the specific part number.

Note:

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

[3] Be aware that these pictures may show items that are not included for the specific part number.
INTRODUCTION

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. The manufacturing and quality systems are ISO9001 approved.

OUR SERVICE CONCEPT

Our service department usually takes care of servicing or calibration within seven 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 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 |D550|. Please note that D550Ex is discontinued, and replaced by XT550Ex (rod C–C 56 mm).

Easy-Laser® is manufactured by Easy-Laser AB, Alfgatan 6, 431 49 Mölndal, Sweden. Phone +46 31 708 63 00, Fax +46 31 708 63 50, email: info@easylaser.com, www.easylaser.com. © 2019 Easy-Laser AB. We reserve the right to make modifications without prior notification.
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: www.easylaser.com
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 (pictured above), 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 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!

A few examples of products produced in Emba’s machines.

Why was the decision taken to acquire laser instruments?
The equipment was principally procured in order to quality-assure 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.

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.

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.

This is a short version.
Read the full story published on our web site

Here you can learn more about EMBA:
www.emba.com
**Bilfinger first XT550 customer**  
Bilfinger Maintenance is Germany’s leading maintenance service provider. They decided to make a leap into the future of laser alignment – the app based intrinsically safe XT550 Ex system.

**The leading maintenance service provider**  
In the ‘Industriepark Höchst’ in Frankfurt/M. alone, the Bilfinger Machine and Drive Technology Division attend most of the manufacturing companies and a growing number of customers outside of the chemical park. When it comes to shaft alignment, experts from Bilfinger rely on the co-operation with the Swedish company Easy-Laser for nearly two decades. Shortly after Easy-Laser had officially launched their XT550 EX shaft alignment system at the Hannover trade show in April 2018, the innovative measurement system was delivered to Bilfinger, who was the first customer.

**Explosion protection is essential**  
A big plus for the intrinsically safe XT550 EX is its ATEX and IECEx-certification: The system can be used in the explosive atmospheres of zone 1 and 2, without the customer needing a separate ‘hot permit’ and having to shut down his production, which always means significant financial and time-consuming expenditure. “Earlier, the entire facility would have to come to a complete standstill. Today, there are more and more only partial shut downs of only one section while the adjacent production carries on running. This is a big advantage, saving considerable time for both us and the customer”, says Mr. Karl-Heinz Bank, head of Machine Technology and Service Technicians at Bilfinger.

**Smart documentation shortens downtime**  
With the XT alignment systems, the user is on-site to carry out measurements and then creates a measurement report within the system, including graphs in a PDF or Excel format, before sending it off electronically. “This saves a lot of time and makes it easier for the customer because he has the documentation on his desk straight away and can start operating the machine again straight away”, says Bank.

This is a short version. Read the full story published on our web site, [www.easylaser.com](http://www.easylaser.com)

Bilfinger is a leading international industrial service provider. With around 36,000 employees, in 2017, Bilfinger generated a sales revenue of around 4.044 billion euros. Learn more about Bilfinger services worldwide: [www.bilfinger.com](http://www.bilfinger.com)
COMPLETE SYSTEMS
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

A complete system contains:
12-0418 1 Display unit E51
12-0168 1 Laser transmitter D23
12-0509 1 Detector E5
12-0436 1 Wireless unit
03-0833 2 Electronic target
12-0074 1 Cable 2 m
12-0108 1 Cable 5 m, extension
12-0045 1 Magnet base with turnable head
12-0016 1 Shaft bracket
12-0624 2 Bracket for electronic target
12-0169 1 Rod bracket with turnable head
12-0485 1 Magnet bracket short, with turnable head
12-0484 1 Magnet bracket long, with turnable head
12-0483 1 Bracket for tilt table
12-0482 1 Index table 90°
12-0059 1 Set of Rods 4x60 mm
12-0324 1 Rods (8x120 mm)
01-0565 2 Large targets
05-0885 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
03-1243 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 1 Shoulder strap for Display unit
03-0878 1 Cleaning cloth for optics
12-1007 1 Transportation case, with wheels
Easy-Laser® E975 Roll Alignment
Part No: 12-0854

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.

A complete system contains:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0418</td>
<td>1 Display unit E-series E51</td>
</tr>
<tr>
<td>12-0022</td>
<td>1 Laser transmitter D22 incl. tilt table</td>
</tr>
<tr>
<td>12-0845</td>
<td>1 Detector E2</td>
</tr>
<tr>
<td>12-0849</td>
<td>1 Roll bracket</td>
</tr>
<tr>
<td>12-0846</td>
<td>1 Digital Precision Level E290</td>
</tr>
<tr>
<td>12-0013</td>
<td>1 Magnet base</td>
</tr>
<tr>
<td>12-0874</td>
<td>1 Adapter plate for tilt table to magnet base</td>
</tr>
<tr>
<td>01-0044</td>
<td>2 Rods 240 mm</td>
</tr>
<tr>
<td>01-0873</td>
<td>2 Rods 120 mm</td>
</tr>
<tr>
<td>01-0043</td>
<td>2 Rods 60 mm</td>
</tr>
<tr>
<td>12-0915</td>
<td>1 Safety strap for laser transmitter</td>
</tr>
<tr>
<td>05-0685</td>
<td>1 Manual (Note: Refers to English manual)</td>
</tr>
<tr>
<td>03-0842</td>
<td>1 Measuring tape 5 m</td>
</tr>
<tr>
<td>03-0914</td>
<td>1 USB memory stick with documentation</td>
</tr>
<tr>
<td>03-0822</td>
<td>1 USB cable</td>
</tr>
<tr>
<td>03-1243</td>
<td>1 Battery charger (100–240 V AC)</td>
</tr>
<tr>
<td>12-0989</td>
<td>1 DC charging cable</td>
</tr>
<tr>
<td>12-0751</td>
<td>1 DC to USB adapter</td>
</tr>
<tr>
<td>03-0967</td>
<td>1 Hexagon wrench set</td>
</tr>
<tr>
<td>12-0495</td>
<td>1 Shoulder strap for Display unit</td>
</tr>
<tr>
<td>03-0878</td>
<td>1 Cleaning cloth for optics</td>
</tr>
<tr>
<td>12-0870</td>
<td>1 Carrying case</td>
</tr>
</tbody>
</table>

Examples of accessories:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0885</td>
<td>1 Large roll kit</td>
</tr>
<tr>
<td>12-0752</td>
<td>1 Detector E7</td>
</tr>
<tr>
<td>12-1053</td>
<td>1 XT190 6TA</td>
</tr>
<tr>
<td>12-0619</td>
<td>1 Barcode reader</td>
</tr>
<tr>
<td>12-0585</td>
<td>1 Charger 12–36V</td>
</tr>
<tr>
<td>12-0434</td>
<td>1 Measuring unit EM</td>
</tr>
<tr>
<td>12-0433</td>
<td>1 Measuring unit E5</td>
</tr>
<tr>
<td>12-0016</td>
<td>1 V-bracket with chain</td>
</tr>
<tr>
<td>01-1165</td>
<td>1 Offset bracket</td>
</tr>
<tr>
<td>12-0597</td>
<td>1 Splitter box</td>
</tr>
<tr>
<td>03-1004</td>
<td>1 Thermal printer</td>
</tr>
<tr>
<td>12-0455</td>
<td>1 Slide bracket Min. 120 mm</td>
</tr>
<tr>
<td>12-0543</td>
<td>1 Slide bracket Min. 200 mm</td>
</tr>
<tr>
<td>12-0510</td>
<td>1 Slide bracket Min. 300 mm</td>
</tr>
<tr>
<td>12-0299</td>
<td>1 TriPod</td>
</tr>
<tr>
<td>12-0046</td>
<td>1 Angular prism</td>
</tr>
</tbody>
</table>

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

Complete system:
Weight: 15.0 kg [33.1 lbs]
WxHxD: 550x450x210 mm [21.6x17.7x8.3”]
GEOMETRIC MEASUREMENT SYSTEMS

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.

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 Wireless 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 Parallility kit
- 12-0269 2 Tripod
- 12-0060 1 Set of Rods 4x240 mm
- 12-0059 1 Set of Rods 4x60 mm
- 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
- 03-1243 1 Battery charger (100–240 V AC)
- 12-0899 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

Examples of accessories:

- 12-1053 1 XT190 BTA
- 12-0618 1 Battery pack with wireless 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. Ø120 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

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”]
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 diaphragms 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
- Multpoint 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.

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 Wireless 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
- 05-0885 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
- 03-1243 1 Measuring probe cylindrical
- 03-1047 1 Measuring probe cylindrical, with magnet
- 12-0618 1 Battery pack with wireless technology
- 12-0707 1 Offset hub arm kit for diameters 100–500 mm
- 12-0752 1 E7 (as reference detector)
- 12-0434 1 Measuring unit M
- 12-0433 1 Measuring unit S
- 12-0016 1 V-bracket with chain
- 12-0187 1 Magnetic bracket for D75
- 01-1165 1 Offset bracket
- 12-0282 1 Set of extension arms
- 12-0597 1 Splitter box
- 03-1004 1 Thermal printer
- 12-0224 1 Laser transmitter D22
- 12-0706 1 Laser transmitter D25

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

Examples of accessories:
- 12-0805 1 Measuring probe ruby, diameter 5 mm
- 12-0801 1 Measuring probe ruby, diameter 2.5 mm
- 12-1047 1 Measuring probe cylindrical
- 12-1048 1 Measuring probe cylindrical, with magnet
- 12-0618 1 Battery pack with wireless technology
- 12-0707 1 Offset hub arm kit for diameters 100–500 mm
- 12-0752 1 E7 (as reference detector)
- 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
- 12-0224 1 Laser transmitter D22
- 12-0706 1 Laser transmitter D25

Note: always check number of items included for each Part No. before ordering.
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 diaphragms 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 200–1700 mm [7.8–67"] as standard, and up to 4000 mm [157"] 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.

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 Wireless unit
- 12-0074 1 Cable 2 m
- 12-0108 1 Cable 5 m, extension
- 12-0385 1 Measuring probe ruby, diameter 5 mm
- 12-0801 1 Measuring probe ruby, diameter 2.5 mm
- 12-1047 1 Measuring probe cylindrical
- 12-1048 1 Measuring probe cylindrical, with magnet
- 12-0618 1 Battery pack with wireless technology
- 12-0805 1 Measuring probe ruby, diameter 5 mm
- 12-0801 1 Measuring probe ruby, diameter 2.5 mm
- 12-1047 1 Measuring probe cylindrical
- 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
- 12-0022 1 Laser transmitter D22
- 12-0706 1 Laser transmitter D25

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

Examples of accessories:

- 03-0842 1 Measuring tape 5 m
- 03-0822 1 USB Cable
- 03-0914 1 USB Memory stick with documentation
- 03-1004 1 Thermal printer
- 01-1165 1 Offset bracket
- 03-0878 1 Cleaning cloth for optics
- 12-0618 1 Battery pack with wireless technology
- 12-0706 1 Laser transmitter D25

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

A complete system contains:

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0418</td>
<td>Display unit E-series E51</td>
</tr>
<tr>
<td>12-0075</td>
<td>Laser transmitter D75</td>
</tr>
<tr>
<td>12-0752</td>
<td>Detector E7</td>
</tr>
<tr>
<td>12-0436</td>
<td>Wireless unit</td>
</tr>
<tr>
<td>12-0074</td>
<td>Cable 2 m</td>
</tr>
<tr>
<td>12-0108</td>
<td>Cable 5 m, extension</td>
</tr>
<tr>
<td>12-0661</td>
<td>Offset hub for Laser transmitter</td>
</tr>
<tr>
<td>12-0384</td>
<td>Set of offset hub arms for diameters 100–500 mm</td>
</tr>
<tr>
<td>12-0154</td>
<td>Set of magnets for offset hub arms</td>
</tr>
<tr>
<td>12-0455</td>
<td>Slide bracket Min. Ø120 mm</td>
</tr>
<tr>
<td>12-0543</td>
<td>Slide bracket Min. Ø200 mm</td>
</tr>
<tr>
<td>12-0510</td>
<td>Slide bracket Min. Ø300 mm</td>
</tr>
<tr>
<td>12-0588</td>
<td>Large target E-series</td>
</tr>
<tr>
<td>12-0013</td>
<td>Magnet base</td>
</tr>
<tr>
<td>12-0059</td>
<td>Set of rods (4x60 mm)</td>
</tr>
<tr>
<td>01-0938</td>
<td>2 Rods 30 mm</td>
</tr>
<tr>
<td>01-0873</td>
<td>4 Rods 120 mm</td>
</tr>
<tr>
<td>01-0044</td>
<td>2 Rods 240 mm</td>
</tr>
<tr>
<td>12-0495</td>
<td>Shoulder strap for Display unit</td>
</tr>
<tr>
<td>05-0685</td>
<td>Manual (Note: Refers to English manual)</td>
</tr>
<tr>
<td>03-0842</td>
<td>Measuring tape 5 m</td>
</tr>
<tr>
<td>03-0914</td>
<td>USB Memory stick with documentation</td>
</tr>
<tr>
<td>03-0822</td>
<td>USB Cable</td>
</tr>
<tr>
<td>03-1243</td>
<td>Battery charger (100–240 V AC)</td>
</tr>
<tr>
<td>03-0967</td>
<td>Hexagon wrench set</td>
</tr>
<tr>
<td>03-0878</td>
<td>Cleaning cloth for optics</td>
</tr>
<tr>
<td>12-0684</td>
<td>Carrying case Linebore A</td>
</tr>
</tbody>
</table>

Examples of accessories:

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0618</td>
<td>Battery pack with wireless technology</td>
</tr>
<tr>
<td>12-0619</td>
<td>Barcode reader</td>
</tr>
<tr>
<td>12-0585</td>
<td>Charger 12–36V</td>
</tr>
<tr>
<td>12-0434</td>
<td>Measuring unit M</td>
</tr>
<tr>
<td>12-0433</td>
<td>Measuring unit S</td>
</tr>
<tr>
<td>12-0016</td>
<td>V-bracket with chain</td>
</tr>
<tr>
<td>01-1165</td>
<td>Offset bracket</td>
</tr>
<tr>
<td>12-0187</td>
<td>Magnetic bracket for D75</td>
</tr>
<tr>
<td>12-0282</td>
<td>Set of extension arms</td>
</tr>
<tr>
<td>12-0580</td>
<td>Axial extension arms</td>
</tr>
<tr>
<td>12-0597</td>
<td>Splitter box</td>
</tr>
<tr>
<td>03-1004</td>
<td>Thermal printer</td>
</tr>
<tr>
<td>12-0022</td>
<td>Laser transmitter D22</td>
</tr>
</tbody>
</table>

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

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

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 Wireless unit
- 12-0074 1 Cable 2 m
- 12-0108 1 Cable 5 m, extension
- 12-0661 1 Offset hub for Laser transmitter
- 12-0385 1 Laser transmitter bracket for sterntube
- 12-0341 1 Self centering detector bracket for ☞300–500 mm
- 12-0588 1 Large target E-series
- 12-0013 1 Magnet base
- 12-0059 1 Set of rods (4×60 mm)
- 01-0938 2 Rods 30 mm
- 01-0873 4 Rods 120 mm
- 01-0944 2 Rods 240 mm
- 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
- 03-1243 1 Battery charger (100–240 V AC)
- 03-0867 1 Hexagon wrench set
- 03-0878 1 Cleaning cloth for optics
- 12-0685 1 Carrying case Linebore B

Examples of accessories:

- 12-0618 1 Battery pack with wireless 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
- 12-0597 1 Splitter box
- 03-1004 1 Thermal printer
- 12-0022 1 Laser transmitter D22
- 12-0455 1 Slide bracket Min. ☞120 mm
- 12-0543 1 Slide bracket Min. ☞200 mm
- 12-0510 1 Slide bracket Min. ☞300 mm
- 03-0769 1 Aluminium extension beam L=500 mm
- 03-0770 1 Aluminium extension beam L=600 mm
- 03-0771 1 Aluminium extension beam L=1100 mm

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

Complete system:

Weight: 27.0 kg [59.5 lbs]
WxHxD: 1220x460x170 mm [48.0x18.1x6.7"]
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.

A complete system contains:
12-0418 1 Display unit E-series E61
12-0075 1 Laser transmitter D75
12-0759 1 Detector E9, 2-axis
12-0074 1 Cable 2 m
12-0108 1 Cable 5 m, extension
12-0661 1 Offset hub for Laser transmitter
12-0384 1 Set of offset hub arms for diameters 100–500 mm
12-0154 1 Set of magnets for offset hub arms
12-0768 1 Slide bracket, Width 25 mm, Min. ø80 mm
12-0767 1 Rod adapter with built in target
12-0455 1 Slide bracket Min. ø120 mm
12-0543 1 Slide bracket Min. ø200 mm
12-0510 1 Slide bracket Min. ø300 mm
12-0013 1 Magnet base
12-0059 1 Set of rods (4x60 mm)
01-0838 2 Rods 30 mm
01-0837 4 Rods 120 mm
01-0444 2 Rods 240 mm
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
03-0922 1 USB Cable
03-1243 1 Detector arms Linebore
03-1244 1 Slide bracket Min. ø100 mm
12-0752 1 Detector E7 reference detector
12-0436 1 Wireless unit
01-0777 1 Tube adapters (manufactured on request to specified diameter)
12-0214 1 Set of extension rods for Tube measurements
12-0433 1 Measuring unit EM
12-0016 1 V-bracket with chain
01-1165 1 Offset bracket
12-0197 1 Magnetic bracket for D75
12-0282 1 Set of extension arms
12-0580 1 Axial extension arms
12-0597 1 Splitter box
12-0585 1 Charger 12–36V
12-0619 1 Barcode reader
03-1004 1 Thermal printer
12-0022 1 Laser transmitter D22

Examples of accessories:
12-0553 1 Bore bracket adapter plate
12-0314 1 Detector arms Linebore
12-0343 1 Slide bracket Min. ø100 mm
12-0752 1 Detector E7 reference detector
12-0436 1 Wireless unit
01-0777 1 Tube adapters (manufactured on request to specified diameter)
12-0214 1 Set of extension rods for Tube measurements
12-0433 1 Measuring unit EM
12-0016 1 V-bracket with chain
01-1165 1 Offset bracket
12-0197 1 Magnetic bracket for D75
12-0282 1 Set of extension arms
12-0580 1 Axial extension arms
12-0597 1 Splitter box
12-0585 1 Charger 12–36V
12-0619 1 Barcode reader
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]
WxHxD: 550x450x210 mm [21.6x17.7x8.3"]
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 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]. 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.

A complete system contains:

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0418</td>
<td>1 Display unit E-series E51</td>
</tr>
<tr>
<td>12-0075</td>
<td>1 Laser transmitter D75</td>
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<tr>
<td>12-0752</td>
<td>1 Detector E7</td>
</tr>
<tr>
<td>12-0436</td>
<td>1 Wireless unit</td>
</tr>
<tr>
<td>12-0074</td>
<td>1 Cable 2 m</td>
</tr>
<tr>
<td>12-0108</td>
<td>1 Cable 5 m, extension</td>
</tr>
<tr>
<td>12-0661</td>
<td>1 Offset hub for Laser transmitter</td>
</tr>
<tr>
<td>12-0707</td>
<td>1 Arm kit with magnets</td>
</tr>
<tr>
<td>12-0262</td>
<td>1 Extension arms Linebore</td>
</tr>
<tr>
<td>12-0341</td>
<td>1 Self centering detector bracket for 300–500 mm</td>
</tr>
<tr>
<td>12-0588</td>
<td>1 Large target E-series</td>
</tr>
<tr>
<td>12-0495</td>
<td>1 Shoulder strap for Display unit</td>
</tr>
<tr>
<td>05-0685</td>
<td>1 Manual (Note: Refers to English manual)</td>
</tr>
<tr>
<td>03-0842</td>
<td>1 Measuring tape 5 m</td>
</tr>
<tr>
<td>03-0914</td>
<td>1 Measuring tape 5 m</td>
</tr>
<tr>
<td>03-0822</td>
<td>1 USB Cable</td>
</tr>
<tr>
<td>03-1243</td>
<td>1 Battery charger (100–240 V AC)</td>
</tr>
<tr>
<td>03-0792</td>
<td>1 Toolbox</td>
</tr>
<tr>
<td>03-0967</td>
<td>1 Cleaning cloth for optics</td>
</tr>
<tr>
<td>12-0986</td>
<td>1 Carrying case Linebore D</td>
</tr>
</tbody>
</table>

Complete system:

Weight: 16.3 kg [40.3 lbs]
WxHxD: 550x450x210 mm [21.6x17.7x8.3”]

Examples of accessories:

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0618</td>
<td>1 Battery pack with wireless technology</td>
</tr>
<tr>
<td>12-0823</td>
<td>1 E30 Long Range laser</td>
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<tr>
<td>12-0619</td>
<td>1 Barcode reader</td>
</tr>
<tr>
<td>12-0585</td>
<td>1 Charger 12–36V</td>
</tr>
<tr>
<td>12-0434</td>
<td>1 Measuring unit M</td>
</tr>
<tr>
<td>12-0433</td>
<td>1 Measuring unit S</td>
</tr>
<tr>
<td>12-0016</td>
<td>1 V-bracket with chain</td>
</tr>
<tr>
<td>01-1165</td>
<td>1 Offset bracket</td>
</tr>
<tr>
<td>12-0187</td>
<td>1 Magnetic bracket for D75</td>
</tr>
<tr>
<td>12-0282</td>
<td>1 Set of extension arms</td>
</tr>
<tr>
<td>12-0597</td>
<td>1 Splitter box</td>
</tr>
<tr>
<td>03-1004</td>
<td>1 Thermal printer</td>
</tr>
<tr>
<td>12-0022</td>
<td>1 Laser transmitter D22</td>
</tr>
<tr>
<td>12-0455</td>
<td>1 Slide bracket Min. 120 mm</td>
</tr>
<tr>
<td>12-0543</td>
<td>1 Slide bracket Min. 200 mm</td>
</tr>
<tr>
<td>12-0510</td>
<td>1 Slide bracket Min. 300 mm</td>
</tr>
</tbody>
</table>

Note: always check number of items included for each Part No. before ordering.
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 accidental 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 D26 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 [0.00005”/0.005 mils].

A complete system contains:
12-0418 1 Display unit E51 (with HyperPSD™ support)
12-1064 1 Laser transmitter D26 incl. tilt table
12-0768 1 Measuring unit ESH (HyperPSD™)
12-0790 1 Measuring unit EMH (HyperPSD™)
12-0436 2 Wireless units
12-0074 2 Cable 2 m
12-0108 2 Cable 5 m, extension
01-1333 1 Machine/magnet base pin for D26
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 (6x120 mm)
12-0059 1 Set of Rods 4x60 mm
12-0060 1 Rods (4x240 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
03-0822 1 USB cable
03-1243 1 Battery charger (100–240 V AC)
03-0978 1 Cleaning cloth for optics
12-0760 1 Carrying case

Examples of accessories:
12-0846 1 E290 Digital Precision Level
12-0901 1 Extension Kit for E290
12-0146 1 Laser transmitter D146
12-0988 1 Bar bracket
12-0759 1 Detector E9, 2-axis
12-1053 1 XT190 BTA
12-0619 1 Barcode reader
12-0016 1 V-bracket with chain
12-0413 1 Magnetic bracket
12-1012 1 Thin shaft bracket
12-1010 1 Sliding bracket
12-0585 1 Charger 12–36V
12-0618 1 Battery pack with wireless technology
12-0597 1 Splitter box
12-0059 1 Rods (4x60 mm)
12-0324 1 Rods (6x120 mm)
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]
WxHxD: 550x450x210 mm [21.6x17.7x8.3”]
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, which means that you 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.

A complete system contains:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0418</td>
<td>Display unit E-series E51</td>
</tr>
<tr>
<td>12-0075</td>
<td>Laser transmitter D75</td>
</tr>
<tr>
<td>12-0759</td>
<td>Detector E9</td>
</tr>
<tr>
<td>12-0074</td>
<td>Cable 2 m</td>
</tr>
<tr>
<td>12-0108</td>
<td>Cable 5 m, extension</td>
</tr>
<tr>
<td>12-0187</td>
<td>Bracket for D75 with magnets</td>
</tr>
<tr>
<td>01-0777</td>
<td>Set of brackets for detector</td>
</tr>
<tr>
<td>12-0792</td>
<td>Set of extension rods for detector (6.3 m)</td>
</tr>
<tr>
<td>12-0610</td>
<td>Target for extruder</td>
</tr>
<tr>
<td>12-0495</td>
<td>Shoulder strap for Display unit</td>
</tr>
<tr>
<td>05-0685</td>
<td>Manual (Note: Refers to English manual)</td>
</tr>
<tr>
<td>03-0842</td>
<td>Measuring tape 5 m</td>
</tr>
<tr>
<td>03-0914</td>
<td>USB Memory stick with documentation</td>
</tr>
<tr>
<td>03-0822</td>
<td>USB Cable</td>
</tr>
<tr>
<td>03-1243</td>
<td>Battery charger (100–240 V AC)</td>
</tr>
<tr>
<td>03-0687</td>
<td>Hexagon wrench set</td>
</tr>
<tr>
<td>03-0878</td>
<td>Cleaning cloth for optics</td>
</tr>
<tr>
<td>12-0811</td>
<td>Carrying case</td>
</tr>
</tbody>
</table>

Examples of accessories:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0767</td>
<td>Rod adapter with built in target</td>
</tr>
<tr>
<td>12-0022</td>
<td>Laser transmitter D22</td>
</tr>
<tr>
<td>12-0436</td>
<td>Wireless unit</td>
</tr>
<tr>
<td>12-0434</td>
<td>Measuring unit EM</td>
</tr>
<tr>
<td>12-0433</td>
<td>Measuring unit ES</td>
</tr>
<tr>
<td>12-0016</td>
<td>V-bracket with chain</td>
</tr>
<tr>
<td>12-0013</td>
<td>Magnet base</td>
</tr>
<tr>
<td>12-1011</td>
<td>Magnetic bracket</td>
</tr>
<tr>
<td>12-1012</td>
<td>Thin shaft bracket</td>
</tr>
<tr>
<td>12-1010</td>
<td>Sliding bracket</td>
</tr>
<tr>
<td>01-1165</td>
<td>Offset bracket</td>
</tr>
<tr>
<td>12-0125</td>
<td>Cardan bracket</td>
</tr>
<tr>
<td>12-0553</td>
<td>Bore bracket adapter plate</td>
</tr>
<tr>
<td>12-0314</td>
<td>Detector arms Linebore</td>
</tr>
<tr>
<td>12-0597</td>
<td>Splitter box</td>
</tr>
<tr>
<td>12-0585</td>
<td>Charger 12–36V</td>
</tr>
<tr>
<td>12-0619</td>
<td>Barcode reader</td>
</tr>
<tr>
<td>03-1004</td>
<td>Thermal printer</td>
</tr>
</tbody>
</table>

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

A complete system contains:

12-0418  1  Display unit E51
12-0022  1  Laser transmitter D22 incl. tilt table
12-0752  1  Detector E7
12-0436  1  Wireless unit
12-0074  1  Cable 2 m
12-0108  1  Cable 5 m, extension
01-1333  1  Machine/magnet base pin for D22
12-0045  1  Magnet base with turnable head
12-0544  2  Targets for rough alignment
01-1165  1  Offset bracket
01-0043  6  Rods 60 mm
01-0873  6  Rods 120 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
03-1243  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
12-0781  1  Carrying case

Examples of accessories:

12-0799  1  Detector E9, 2-axis
12-1053  1  XT190 BTA
12-0618  1  Battery pack with wireless 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. 2120 mm
12-0543  1  Slide bracket Min. 2200 mm
12-0510  1  Slide bracket Min. 3300 mm
12-0289  1  Tripod
12-0046  1  Angular prism

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

Complete system:
Weight: 12.3 kg [27.1 lbs]
WxHxD: 550x450x210 mm [21.6x17.7x8.3”]
**Easy-Laser® E915 Flange Spin**

Part No: 12-0526

**Measure flatness easily with spinning laser**

This system is mainly for wind turbine tower producers who want to measure flatness of flanges. Similar applications can be e.g. slewing bearings. You can 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.

*The sectional measurement flatness program is patented in Sweden, Germany, China and USA.

**A complete system contains:**

- 12-0418 1 Display unit E-series E51
- 12-0168 1 Laser transmitter D23 incl. tilt table
- 12-0509 1 Detector ES
- 12-0436 1 Wireless 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
- 03-1243 1 Battery charger (100–240 V AC)
- 03-0967 1 Hexagon wrench set
- 03-0678 1 Cleaning cloth for optics
- 12-0781 1 Carrying case

**Examples of accessories:**

- 12-0618 1 Battery pack with wireless unit
- 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
- 03-1004 1 Thermal printer
- 12-0455 1 Slide bracket Min. \(\varnothing 120\) mm
- 12-0453 1 Slide bracket Min. \(\varnothing 200\) mm
- 12-0510 1 Slide bracket Min. \(\varnothing 300\) 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”]
Easy-Laser® E910 Flange
Part No: 12-0525

Measurement system for flange measurements
This system is mainly for wind turbine tower producers who want to measure flatness and parallelism of flanges. Similar applications can be e.g. slewing bearings. You can 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 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 possible to generate a PDF report containing graphs and measurement data. 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.

*The sectional measurement flatness program is patented in Sweden, Germany, China and USA.

Examples of accessories:
- 12-0618 1 Battery pack with wireless unit
- 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
- 03-1004 1 Thermal printer
- 12-0455 1 Slide bracket Min. 120 mm
- 12-0543 1 Slide bracket Min. 200 mm
- 12-0510 1 Slide bracket Min. 300 mm
- 12-0269 1 Tripod
- 12-0046 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”]
**ALL XT PROGRAMS IN ONE FREE APP**
All XT measurement programs in one straightforward application available for free. Functionality for iOS, Android and Easy-Laser® XT display units.

**NO LOCK-INS**
Buy with or without the user-friendly, shockproof and waterproof Easy-Laser® XT11 display unit. Awarded both the RedDot2018 and IF Design 2017 for its ergonomics, features and looks.

**MAXIMUM FLEXIBILITY AND TRAINABILITY!**
Purchase multiple systems with various capabilities, train once! The training costs are minimized significantly since the app interface and basic functionality is identical for all systems.

**LONG OPERATING TIMES**
The long operating times of up to 16 hours for the Display unit and 24 hours for the Measuring units mean even the toughest jobs will be finished on time with no interruptions.

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Easy-Laser® XT11 was awarded the iF DESIGN AWARD 2017 and Red Dot 2018 for its design, ergonomics and innovative features.
Multi-platform alignment system

Easy-Laser® XT770 is a crossover multi-platform system. The system runs on your iOS and Android unit. 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. You can also 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 wireless technology, an integrated rechargeable battery and large 20x20 mm [0.79”x 0.79”] 2 axis TruePSD detectors and dot type laser technology. 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 horizontal, vertical/flange mounted machines, machine trains and cardan/offset mounted machines* plus EasyTrend for dynamic measurements* are included. Functions for soft foot check, thermal growth compensation and tolerance check. The XT70-M/S units allow for multpoint and continuous sweep measurements. They also support the 360°LIVE move feature. With the Twist measurement program you easily check the base flatness. The very versatile Values program, together with the dot-type laser technology adds functionality for e.g. checking bearing clearance. The built-in Users Manual opens the relevant chapter depending on where in the process you are. (*requires accessories)

Geometric measurements

With the GEO kit added to your XT770 you will, using the Values or Basic Flatness program, be able to do flatness and straightness measurements with the highest reliability and precision.

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

System with display unit,
Large case (Part No. 12-1095)
Weight complete system: 11.9 kg [26.2 lbs]

System with display unit and GEO Kit
Large case GEO (Part No. 12-1127)
Weight complete system: 14.7 kg [32.4 lbs]

System without display unit,
Large case (Part No. 12-1096)
Weight complete system: 10.4 kg [22.9 lbs]

System without display unit, with GEO Kit
Large case GEO (Part No. 12-1128)
Weight complete system: 13.2 kg [29.1 lbs]

GEO Kit for XT includes:
12-0022 1 Laser transmitter D22
12-1133 1 Magnet base with turnable head (*replaces one of the regular magnet bases)
12-0987 1 Rods (4x120 mm)

Options for XT11: (Note! Cannot be retrofitted.)
12-0968 1 IR Camera added to XT11
12-0985 1 Camera (and LED light) removed from XT11

Examples of accessories for XT770:
12-1151 1 Cardan bracket kit
12-1130 1 Dynamic measurement brackets (complete kit)
12-1011 1 Magnetic bracket for XT-series
12-1012 1 Thin shaft bracket for XT-series
12-1010 1 Sliding bracket for XT-series
12-1161 1 Rods (4x75 mm)
12-0324 1 Rods (8x120 mm)
12-0060 1 Rods (4x240 mm)
12-1053 1 XT190 BTA Digital belt alignment tool
12-1090 1 XT280 Vibrometer

Note: Always check number of items included for each Part No. before ordering. Accessories not included in the specified system weight above.
Easy-Laser® XT660 Shaft
Part No: See below. Four combinations available.

Multi-platform alignment system
Easy-Laser® XT660 is a crossover multi-platform system. The system runs on your iOS and Android unit. 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 wireless technology, an integrated rechargeable battery and large 20x20 mm [0.79”x 0.79”] 1 axis TruePSD detectors and dot type laser technology. 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 horizontal, vertical/flange mounted machines and machine trains (3 machines) are included. Added to that are functions for soft foot check, thermal growth compensation and tolerance check. The XT60-M/S units allow for multipoint and continuous sweep measurements. With the Twist measurement program you easily check the base flatness. As always, Easy-Laser® comes with the very versatile Values program, which together with the dot-type laser technology adds functionality for e.g. checking bearing clearance. 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

Note: the system can be delivered in two different carrying cases, model Large with space also for accessories. See pictures to the left.

System with display unit,
Large case (Part No. 12-1052)
Weight complete system: 9.8 kg [21.6 lbs] (without accessories)

System with display unit,
Medium case (Part No. 12-1051)
Weight complete system: 7.2 kg [15.9 lbs]

System without display unit,
Large case (Part No. 12-1059)
Weight complete system: 8.2 kg [18.1 lbs] (without accessories)

System without display unit,
Medium case (Part No. 12-1058)
Weight complete system: 5.8 kg [11.0 lbs]

Options for XT11:
- 12-0968 1 IR Camera added to XT11
- 12-0985 1 Camera (and LED light) removed from XT11

Examples of accessories for XT660:
- 12-0013 1 Magnet base (Note: offset bracket also needed.)
- 12-1008 1 Offset bracket for XT-series
- 12-1011 1 Magnetic bracket for XT-series
- 12-1012 1 Thin shaft bracket for XT-series
- 12-1010 1 Sliding bracket for XT-series
- 12-1161 1 Rods (4x75 mm)
- 12-0324 1 Rods (8x120 mm)
- 12-0360 1 Rods (4x240 mm)

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0961</td>
<td>Display unit XT11</td>
</tr>
<tr>
<td>12-1028</td>
<td>Measuring unit XT60-M</td>
</tr>
<tr>
<td>12-1029</td>
<td>Measuring unit XT80-S</td>
</tr>
<tr>
<td>12-0963</td>
<td>Shaft bracket with chain and rods</td>
</tr>
<tr>
<td>12-1161</td>
<td>Set of Rods 4x75 mm</td>
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<tr>
<td>12-1060</td>
<td>Extension chain (2x900 mm)</td>
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<tr>
<td>03-0824</td>
<td>Measuring tape 3 m</td>
</tr>
<tr>
<td>03-0967</td>
<td>Hexagon wrench set</td>
</tr>
<tr>
<td>03-1256</td>
<td>Battery charger (100–240 V AC)</td>
</tr>
<tr>
<td>12-0989</td>
<td>DC split cable for charging</td>
</tr>
<tr>
<td>12-0751</td>
<td>DC to USB adapter, for charging</td>
</tr>
<tr>
<td>12-0997</td>
<td>Shoulder strap for display unit</td>
</tr>
<tr>
<td>05-0863</td>
<td>Quick manual (Note: Refers to English manual)</td>
</tr>
<tr>
<td>03-0878</td>
<td>Cleaning cloth for optics</td>
</tr>
<tr>
<td>03-0914</td>
<td>USB memory stick with documentation</td>
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<td>12-0991</td>
<td>Documentation folder</td>
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<tr>
<td>12-0973</td>
<td>Carrying case Medium (WxHxD: 460x350x175 mm [18.1x13.8x6.9”])</td>
</tr>
<tr>
<td>12-1049</td>
<td>Carrying case Large (WxHxD: 565x455x210 mm [22.2x17.9x8.2”])</td>
</tr>
</tbody>
</table>

(1) = Included depending on system Part No.
Easy-Laser® XT550 Ex/ATEX Shaft

Part No: See below.

Intrinsically safe shaft alignment system

Easy-Laser® XT550 is designed for use in potentially explosive environments. You can choose a complete system with the zone 1 approved ECOM display unit. It has a 3 MP camera for documentation built-in. The XT Alignment app also runs on other iOS and Android units. The measuring units are rugged and IP66/67 approved, featuring wireless technology, an integrated rechargeable battery and large 20x20 mm [0.79”x 0.79”] 1 axis TruePSD detectors and dot type laser technology. A built-in OLED display shows battery status and the angular value of the unit for easy positioning. Using high capacity rechargeable batteries the operating times are very long; 20 hours.

All functions are available in one app

Programs for alignment of horizontal, vertical/flange mounted machines and machine trains are included. Added to that are functions for soft foot check, thermal growth compensation and tolerance check. The XT50-M/S units allow for multipoint and continuous sweep measurements. With the Twist measurement program you easily check the base flatness. As always, Easy-Laser® comes with the very versatile Values program, which together with the dot-type laser technology adds functionality for eg. checking bearing clearance. The app has a built-in Users Manual, which opens the relevant chapter depending on where in the process you are.

Note: the system can be delivered with or without the ECOM tablet. For local purchase, find your ECOM reseller here: https://www.ecom-ex.com/company/locations/

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

2For use in potentially explosive environments, the display device you use has to be at least approved for the same level of Ex/ATEX requirements as your work zone. Note that the XT11 isn’t ATEX approved.

System with ECOM display unit,
Ex approved case (Part No. 12-1097)
Weight complete system: 8.4 kg [18.5 lbs]

System without display unit,
Ex approved case (Part No. 12-1031)
Weight complete system: Weight: 6.9 kg [15.2 lbs]

Examples of accessories for XT550:

12-0013 1 Magnet base (Note: offset bracket also needed.)
12-1008 1 Offset bracket for XT-series
12-1011 1 Magnetic bracket for XT-series
12-1012 1 Thin shaft bracket for XT-series
12-1010 1 Sliding bracket for XT-series
12-1161 1 Rods (4x75 mm)
12-0324 1 Rods (8x120 mm)
12-0060 1 Rods (4x240 mm)

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

CERTIFICATIONS:

XT50 measuring units:
EX certificate number: Presafe 17 ATEX 10552X, IECEx PRE 17.0049X
EX classification: © II 2 G Ex ib op is IIC T4 Gb, -10°C ≤ Ta ≤ +50°C
ecom display unit:
EX certificate number: Sira 15 ATEX 1205X, IECEx SIR 15.0075X
EX classification: © II 2 GD Ex db ia op is IIC T5 Gb, -20°C ≤ Ta ≤ +50°C

WxHxD: [17.7x11.8x7.1”]

(1) Display unit ECOM Tab-Ex-01
12-1026 1 Measuring unit XT50-M Ex/ATEX
12-1027 1 Measuring unit XT50-S Ex/ATEX
12-1040 2 Shaft bracket Ex/ATEX, with chain and rods
12-1161 1 Set of Rods 4x75 mm
01-0073 2 Rods 120 mm
12-1038 2 Extension chain (900 mm)
03-0824 1 Measuring tape 3 m
03-0967 1 Rod tool
03-1256 1 Battery charger (100–240 V AC)
12-0989 1 DC split cable for charging
05-0889 1 Quick manual (Note: Refers to English manual)
03-0878 1 Cleaning cloth for optics
03-0914 1 USB memory stick with documentation
12-1063 1 Carrying case

Note! XT11 isn’t ATEX approved.
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 unit. 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 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 vertical 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

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 with display unit (Part No. 12-0967):
12-0961 1  Display unit XT11
12-0943 1  Measuring unit XT40-M
12-0944 1  Measuring unit XT40-S
12-0963 2  Shaft bracket with chain and rods
12-1161 1  Set of Rods 4x75 mm
03-0824 1  Measuring tape 3 m
03-0967 1  Hexagon wrench set
03-1256 1  Battery charger (100–240 V AC)
12-0989 1  DC split cable for charging
12-0751 1  DC to USB adapter, for charging
12-0997 1  Shoulder strap for display unit
05-0833 1  Quick manual (Note: Refers to English manual)
03-0878 1  Cleaning cloth for optics
03-0914 1  USB memory stick with documentation
12-0991 1  Documentation folder
12-0973 1  Carrying case Medium

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

Options for XT11: (Note! Cannot be retrofitted.)
12-0968 1  IR Camera added to XT11
12-0985 1  Camera (and LED light) removed from XT11

System without display unit (Part No. 12-0966):
12-0943 1  Measuring unit XT40-M
12-0944 1  Measuring unit XT40-S
12-0963 2  Shaft bracket with chain and rods
12-1161 1  Set of Rods 4x75 mm
03-0824 1  Measuring tape 3 m
03-0967 1  Hexagon wrench set
03-1256 1  Battery charger (100–240 V AC)
12-0989 1  DC split cable for charging
12-0751 1  DC to USB adapter, for charging
05-0833 1  Quick manual (Note: Refers to English manual)
03-0878 1  Cleaning cloth for optics
03-0914 1  USB memory stick with documentation
12-0972 1  Carrying case Small

Weight complete system: 3.8 kg [8.4 lbs]
WxHxD: 335x280x130 mm [13.2x11.0x5.1”]

Examples of accessories for XT440:
12-0013 1  Magnet base (Note: offset bracket also needed.)
12-1008 1  Offset bracket for XT-series
12-1011 1  Magnetic bracket for XT-series
12-1012 1  Thin shaft bracket for XT-series
12-1010 1  Sliding bracket for XT-series
12-1161 1  Rods (4x75 mm)
12-0324 1  Rods (8x120 mm)
12-0060 1  Rods (4x240 mm)
12-1060 1  Extension chain (2x900 mm). For diameters up to 450 mm [12.7”].

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

A complete system contains:

- 12-0418 1 Display unit E51
- 12-0433 1 Measuring unit EM
- 12-0434 1 Measuring unit ES
- 12-0436 2 Wireless units
- 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
- 12-1011 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
- 03-0243 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

Examples of accessories:

- 12-0846 1 E290 Digital Precision Level
- 12-1053 1 XT190 BTA
- 12-0619 1 Barcode reader
- 12-1012 1 Thin shaft bracket
- 12-1010 1 Sliding bracket
- 12-0615 1 Cardan bracket
- 12-0585 1 Charger 12–36V
- 12-0617 1 Battery pack
- 12-0618 1 Battery pack with wireless technology
- 12-0597 1 Splitter box
- 12-0059 1 Rods (4x60 mm)
- 12-0324 1 Rods (8x120 mm)
- 12-0324 1 Rods (4x240 mm)
- 12-1060 1 Extension chain (2x900 mm). For diameters up to 450 mm [12.7”].

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

Complete system:
Weight: 14.8 kg [32.6 lbs]
WxHxD: 550x450x210 mm [21.6x17.7x8.3”]
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. 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.

A complete system contains:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0418</td>
<td>Display unit E51</td>
</tr>
<tr>
<td>12-0433</td>
<td>Measuring unit ES</td>
</tr>
<tr>
<td>12-0434</td>
<td>Measuring unit EM</td>
</tr>
<tr>
<td>12-0436</td>
<td>Wireless units</td>
</tr>
<tr>
<td>12-0074</td>
<td>Cables 2 m</td>
</tr>
<tr>
<td>12-0016</td>
<td>Shaft bracket with chain</td>
</tr>
<tr>
<td>12-0319</td>
<td>Extension chain</td>
</tr>
<tr>
<td>12-0013</td>
<td>Magnet base</td>
</tr>
<tr>
<td>01-1165</td>
<td>Offset bracket</td>
</tr>
<tr>
<td>01-0873</td>
<td>Rods 120 mm</td>
</tr>
<tr>
<td>12-0059</td>
<td>Set of Rods 4x60 mm</td>
</tr>
<tr>
<td>05-0461</td>
<td>Manual (Note: Refers to English manual)</td>
</tr>
<tr>
<td>05-0486</td>
<td>Quick manual (Note: Refers to English manual)</td>
</tr>
<tr>
<td>03-0824</td>
<td>Measuring tape 3 m</td>
</tr>
<tr>
<td>03-0914</td>
<td>USB memory stick with documentation</td>
</tr>
<tr>
<td>03-0822</td>
<td>USB cable</td>
</tr>
<tr>
<td>03-1243</td>
<td>Battery charger (100–240 V AC)</td>
</tr>
<tr>
<td>03-0792</td>
<td>Toolbox</td>
</tr>
<tr>
<td>12-0495</td>
<td>Shoulder strap for Display unit</td>
</tr>
<tr>
<td>03-0878</td>
<td>Cleaning cloth for optics</td>
</tr>
<tr>
<td>12-0442</td>
<td>Carrying case</td>
</tr>
</tbody>
</table>

Complete system:

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

Examples of accessories:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-1053</td>
<td>XT190 BTA</td>
</tr>
<tr>
<td>12-0619</td>
<td>Barcode reader</td>
</tr>
<tr>
<td>12-1011</td>
<td>Magnetic bracket</td>
</tr>
<tr>
<td>12-1012</td>
<td>Thin shaft bracket</td>
</tr>
<tr>
<td>12-1010</td>
<td>Sliding bracket</td>
</tr>
<tr>
<td>12-0615</td>
<td>Cardan bracket</td>
</tr>
<tr>
<td>12-0585</td>
<td>Charger 12–36V</td>
</tr>
<tr>
<td>12-0617</td>
<td>Battery pack</td>
</tr>
<tr>
<td>12-0618</td>
<td>Battery pack with wireless technology</td>
</tr>
<tr>
<td>12-0597</td>
<td>Splitter box</td>
</tr>
<tr>
<td>12-0059</td>
<td>Rods (4x60 mm)</td>
</tr>
<tr>
<td>12-0324</td>
<td>Rods (8x120 mm)</td>
</tr>
<tr>
<td>12-0060</td>
<td>Rods (4x240 mm)</td>
</tr>
<tr>
<td>12-1060</td>
<td>Extension chain (2x900 mm). For diameters up to 450 mm [12.7”].</td>
</tr>
<tr>
<td>12-0022</td>
<td>Laser transmitter O22</td>
</tr>
</tbody>
</table>

Note: always check number of items included for each Part No. before ordering.
Easy-Laser® E540 Shaft
Part No: 12-0775, E540-B (with Large case)
Part No: 12-1043, E540-A (with Small case)

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 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.

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. Using XT190 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 Large case (System E540-B) has pre-cut foam for accessories:
A. Magnetic brackets kit
B. Magnet bases (2 pcs)
C. XT190 BTA (transmitter and detector)
D. Offset brackets (2 pcs)

System E540-A (Part No. 12-1043):

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0700</td>
<td>1 Display unit E52</td>
</tr>
<tr>
<td>12-0777</td>
<td>1 Measuring unit ELS40</td>
</tr>
<tr>
<td>12-0776</td>
<td>1 Measuring unit ELM40</td>
</tr>
<tr>
<td>12-0016</td>
<td>2 Shaft bracket with chain</td>
</tr>
<tr>
<td>12-0319</td>
<td>2 Extension chain</td>
</tr>
<tr>
<td>01-0873</td>
<td>4 Rods 120 mm [4.72&quot;]</td>
</tr>
<tr>
<td>12-0059</td>
<td>1 Set of Rods 4x60 mm [2.36&quot;]</td>
</tr>
<tr>
<td>05-0689</td>
<td>1 Quick manual (Note: Refers to English manual)</td>
</tr>
<tr>
<td>03-0824</td>
<td>1 Measuring tape 3 m</td>
</tr>
<tr>
<td>03-0914</td>
<td>1 USB Memory stick with documentation</td>
</tr>
<tr>
<td>03-0822</td>
<td>1 USB cable</td>
</tr>
<tr>
<td>03-1243</td>
<td>1 Battery charger (100–240 V AC)</td>
</tr>
<tr>
<td>12-0998</td>
<td>1 DC charging cable</td>
</tr>
<tr>
<td>12-0751</td>
<td>1 DC to USB adapter</td>
</tr>
<tr>
<td>12-0495</td>
<td>1 Shoulder strap for Display unit</td>
</tr>
<tr>
<td>12-1025</td>
<td>1 Carrying case Small</td>
</tr>
</tbody>
</table>

Complete system:
Weight: 6.6 kg [14.5 lbs]
WxHxD: 460x350x175 mm [18.1x13.8x6.9”]

System E540-B (Part No. 12-0775):

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0700</td>
<td>1 Display unit E52</td>
</tr>
<tr>
<td>12-0777</td>
<td>1 Measuring unit ELS40</td>
</tr>
<tr>
<td>12-0776</td>
<td>1 Measuring unit ELM40</td>
</tr>
<tr>
<td>12-0016</td>
<td>2 Shaft bracket with chain</td>
</tr>
<tr>
<td>12-0319</td>
<td>2 Extension chain</td>
</tr>
<tr>
<td>01-0873</td>
<td>4 Rods 120 mm [4.72&quot;]</td>
</tr>
<tr>
<td>12-0059</td>
<td>1 Set of Rods 4x60 mm [2.36&quot;]</td>
</tr>
<tr>
<td>05-0689</td>
<td>1 Quick manual (Note: Refers to English manual)</td>
</tr>
<tr>
<td>03-0824</td>
<td>1 Measuring tape 3 m</td>
</tr>
<tr>
<td>03-0914</td>
<td>1 USB Memory stick with documentation</td>
</tr>
<tr>
<td>03-0822</td>
<td>1 USB cable</td>
</tr>
<tr>
<td>03-1243</td>
<td>1 Battery charger (100–240 V AC)</td>
</tr>
<tr>
<td>12-0989</td>
<td>1 DC charging cable</td>
</tr>
<tr>
<td>12-0751</td>
<td>1 DC to USB adapter</td>
</tr>
<tr>
<td>12-0495</td>
<td>1 Shoulder strap for Display unit</td>
</tr>
<tr>
<td>12-1020</td>
<td>1 Carrying case Large</td>
</tr>
</tbody>
</table>

Complete system:
Weight: 7.7 kg [17.0 lbs]
WxHxD: 500x400x200 mm [19.7x15.7x7.9”]

Example of accessories:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0619</td>
<td>1 Barcode reader</td>
</tr>
<tr>
<td>12-1053</td>
<td>1 XT190 BTA</td>
</tr>
<tr>
<td>12-0074</td>
<td>1 Cable 2 m [78.7&quot;]</td>
</tr>
<tr>
<td>12-0013</td>
<td>1 Magnet base</td>
</tr>
<tr>
<td>01-1165</td>
<td>1 Offset bracket</td>
</tr>
<tr>
<td>12-1011</td>
<td>1 Magnetic bracket</td>
</tr>
<tr>
<td>12-1012</td>
<td>1 Thin shaft bracket</td>
</tr>
<tr>
<td>12-1010</td>
<td>1 Sliding bracket</td>
</tr>
<tr>
<td>12-0585</td>
<td>1 Charger 12–36V</td>
</tr>
<tr>
<td>12-0597</td>
<td>1 Splitter box</td>
</tr>
<tr>
<td>12-0059</td>
<td>1 Rods (4x60 mm)</td>
</tr>
<tr>
<td>12-0324</td>
<td>1 Rods (8x120 mm)</td>
</tr>
<tr>
<td>12-0060</td>
<td>1 Rods (4x240 mm)</td>
</tr>
<tr>
<td>12-0128</td>
<td>1 Extension chain (2x900 mm)</td>
</tr>
</tbody>
</table>

Note: always check number of items included for each Part No. before ordering.
**Easy-Laser® E420 Shaft**

**Part No:** 12-0745

**Entry level redefined!**

The Easy-Laser® E420 has wireless measuring units, a large 5.7” colour display and an IP65-rated design that withstands harsh environments.

The measuring units are compact, featuring 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. 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.

**A complete system contains:**

- **12-0748** 1 Display unit E53
- **12-0747** 1 Measuring unit ELS20
- **12-0016** 1 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
- **12-0989** 1 DC charging cable
- **12-0751** 1 DC to USB adapter
- **03-1243** 1 Battery charger (100–240 V AC) for Display unit
- **03-1059** 1 Carrying case

**Complete system:**

- Weight: 6.3 kg [13.9 lbs]
- WxDxH: 500x415x170 mm [19.7x16.3x6.7”]

**Examples of accessories:**

- **12-0013** 1 Magnet base
- **01-1165** 1 Offset bracket
- **12-1011** 1 Magnetic bracket
- **12-1012** 1 Thin shaft bracket
- **12-1010** 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.
Easy-Laser® XT190 BTA digital Wireless
Part No: 12-1053

“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 the detector wirelessly 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: The XT190 detector unit connects to both the E- and XT-series display units. You can also use it with your iOS and Android phone/tablet. Please see our web site for compatible models.)

(Note 2: There is no separate display unit included. The detector connects wireless to the E51, E52 and XT11 display units with Belt alignment program.)

A complete system contains:

- 12-0309 1 Laser transmitter
- 12-1054 1 Detector unit with built-in display, wireless
- 12-0394 2 Targets
- 03-1243 1 Charger (100–240 V AC) and cable
- 03-0247 1 Battery R6 (AA) 1.5 V
- 03-0914 1 USB memory stick with documentation
- 05-0865 1 Quick manual (Note: Refers to English manual)
- 12-0804 1 Carrying case
Easy-Laser® Product overview

SHEAVE / PULLEY ALIGNMENT SYSTEMS

Easy-Laser® D90 BTA
Part No: 12-0415

For quick and easy alignment of sheaves/pulleys
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 V-belt, timing belt, flat belt and chain drives.

A complete system contains:

- 12-0309 1 Laser transmitter
- 12-0394 2 Target
- 05-0352 1 Manual
- 03-0247 1 Battery R6 (AA) 1.5 V
- 03-0591 1 Padded cover
Easy-Laser® XT280 is an easy-to-use vibration monitoring and analysis tool that allows easy display of vibration signals. The XT280 automatically performs vibration analysis functions based on machine running speed to help diagnose faults such as unbalance, misalignment and looseness. The system is designed to enable you to take vibration measurements from assets like pumps, motors, fans and bearings. The unit displays vibration frequency plots and allows vibration severity and bearing condition to be monitored.

For documentation purpose, you can connect the XT280 to the XT Alignment App. Run the app on your phone or tablet*, or the XT11 display unit.

* Please see our web site for compatible models.

### XT280 Vibrometer

**Part No:** 12-1090

**FOR QUICK VIBRATION ANALYSIS**

A complete system contains:

- 12-1050 1 Vibrometer (with short tip)
- 05-0934 1 Quick manual
- 03-0914 1 USB memory stick with documentation
- 03-1336 1 Padded case

**Examples of accessories:**

- 03-1327 1 Accelerometer magnet
- 03-1326 1 Stinger (100 mm)
Shaft alignment system for Vestas wind turbines
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.

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”.

Price upon request.

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
01-0819 4 Centering plunges
03-0613 1 Distance gauge
03-0813 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
03-1243 1 Battery charger (100–240 V AC)
12-0989 1 DC charging cable
12-0751 1 DC to USB adapter
03-1004 1 Printer
01-1379 1 Protective case for Display unit
12-0495 1 Shoulder strap for Display unit
12-0798 1 Carrying case

(Plus miscellaneous fastening items and user manual.)
Shaft alignment system GA1 for wind turbines  
Part No: 12-1118 (Includes 12-1113+12-1114)

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 or in place. This system is designed especially for Gamesa turbines, and fits all their turbine sizes. The measurement programs are easy to learn and to use, and there are numerous options for documenting and saving the result of the work.

NOTE:
Complete system GA1, Part No. 12-1118 consist of Part No. 12-1113+12-1114, but still come in two separate carrying cases. 12-1113 and 12-1114 also sold separately.

Prices upon request.

System 12-1113 contains:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0700</td>
<td>Display unit E52</td>
</tr>
<tr>
<td>01-1379</td>
<td>Protective case for display unit</td>
</tr>
<tr>
<td>12-0777</td>
<td>Measuring unit ELS40</td>
</tr>
<tr>
<td>12-0776</td>
<td>Measuring unit ELM40</td>
</tr>
<tr>
<td>12-0016</td>
<td>Shaft bracket with chain</td>
</tr>
<tr>
<td>12-0626</td>
<td>Chain 900 mm complete</td>
</tr>
<tr>
<td>12-0059</td>
<td>Rods ø10x60 mm, set of 4 pcs</td>
</tr>
<tr>
<td>01-0873</td>
<td>Rods ø10x120 mm, set of 4 pcs</td>
</tr>
<tr>
<td>12-0987</td>
<td>Rods ø10x120 mm, set of 4 pcs</td>
</tr>
<tr>
<td>12-1011</td>
<td>Magnet bracket thin</td>
</tr>
<tr>
<td>01-1165</td>
<td>Offset bracket</td>
</tr>
<tr>
<td>03-0045</td>
<td>Screw M6x16 mm</td>
</tr>
<tr>
<td>05-0689</td>
<td>Quick manual</td>
</tr>
<tr>
<td>05-0809</td>
<td>Manual GA1</td>
</tr>
<tr>
<td>03-0824</td>
<td>Measuring tape 3.0 m</td>
</tr>
<tr>
<td>03-0814</td>
<td>USB memory stick 2GB</td>
</tr>
<tr>
<td>03-0822</td>
<td>USB cable A to B 1.8 m</td>
</tr>
<tr>
<td>03-1243</td>
<td>Battery charger (100-240 V AC)</td>
</tr>
<tr>
<td>12-0750</td>
<td>DC Split cable, for charging</td>
</tr>
<tr>
<td>12-0751</td>
<td>DC to USB adapter, for charging</td>
</tr>
<tr>
<td>03-0792</td>
<td>Toolbox</td>
</tr>
<tr>
<td>03-0967</td>
<td>Hexagon wrench set</td>
</tr>
<tr>
<td>01-0048</td>
<td>Rod tightening tool, 4 mm</td>
</tr>
<tr>
<td>12-0495</td>
<td>Strap to display unit</td>
</tr>
<tr>
<td>12-1020</td>
<td>Plastic carrying case for 12-1113</td>
</tr>
</tbody>
</table>

Weight: 8.0 kg [17.6 lbs]  
WxHxD: 500x400x200 mm [19.7x15.7x7.9”]

System 12-1114 contains:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-0975</td>
<td>Detector-fixture Generator flange GA1</td>
</tr>
<tr>
<td>01-1889</td>
<td>2 Adapters to Generator flange GA1 M24</td>
</tr>
<tr>
<td>01-1892</td>
<td>2 Adapters to Generator flange GA1 M30</td>
</tr>
<tr>
<td>01-1891</td>
<td>2 Adapters to Generator flange GA1 M30</td>
</tr>
<tr>
<td>01-1890</td>
<td>2 Adapters to Generator flange GA1 M24</td>
</tr>
<tr>
<td>12-0974</td>
<td>2 Screw to Adapters L=120mm</td>
</tr>
<tr>
<td>12-0712</td>
<td>2 Nut to adapters with magnet M6</td>
</tr>
<tr>
<td>12-0976</td>
<td>1 Detector-fixture Gearbox flange GA1</td>
</tr>
<tr>
<td>12-0977</td>
<td>3 Screw M24 for Gearbox fixture</td>
</tr>
<tr>
<td>12-0978</td>
<td>3 Screw M30 for Gearbox fixture</td>
</tr>
<tr>
<td>01-1884</td>
<td>3 Adapters for M24 Screw to Gearbox fixture</td>
</tr>
<tr>
<td>01-1885</td>
<td>3 Adapters for M30 Screw to Gearbox fixture</td>
</tr>
<tr>
<td>03-0613</td>
<td>1 Distance Gauge (coupling flanges), incl. adapter</td>
</tr>
<tr>
<td>03-1034</td>
<td>2 Ext. adapter distances gauge</td>
</tr>
<tr>
<td>12-1116</td>
<td>1 Plastic carrying case for 12-1114</td>
</tr>
</tbody>
</table>

Weight: 17.0 kg [37.5 lbs]  
WxHxD: 565x455x210 mm [22.2x17.9x8.2”]
## E-series Measurement programs

<table>
<thead>
<tr>
<th>E980</th>
<th>E975</th>
<th>E970</th>
<th>E960</th>
<th>E950</th>
<th>E940</th>
<th>E930</th>
<th>E920</th>
<th>E720</th>
</tr>
</thead>
<tbody>
<tr>
<td>E915</td>
<td>E910</td>
<td>E540</td>
<td>E420</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HORIZONTAL 9-12-3**: ![Icon](image)

**SOFT FOOT**: ![Icon](image)

**EASYTURN™**: ![Icon](image)

**MULTIPOINT HORIZONTAL SHAFT**: ![Icon](image)

**VERTICAL/FLANGE MOUNTED**: ![Icon](image)

**CARDAN**: ![Icon](image)

**MACHINE TRAIN**: ![Icon](image)

**MACHINE TRAIN (3 MACHINES)**: ![Icon](image)

**OFFSET AND ANGLE**: ![Icon](image)

**VALUES (Digital Dial Indicator)**: ![Icon](image)

**BELT TRANSMISSION ALIGNMENT**: ![Icon](image)

**STRAIGHTNESS 1-point**: ![Icon](image)

**STRAIGHTNESS 2-point (Centre of Circle)**: ![Icon](image)

**STRAIGHTNESS 4-point**: ![Icon](image)

**STRAIGHTNESS Multipoint**: ![Icon](image)

**STRAIGHTNESS 3-point (Half circle)**: ![Icon](image)

**ROUNDNESS/OVALITY MEASUREMENT**: ![Icon](image)

**SPINDLE DIRECTION**: ![Icon](image)

**SQUARENESS**: ![Icon](image)

**FLATNESS**: ![Icon](image)

**TWIST**: ![Icon](image)

**FLANGE FLATNESS**: ![Icon](image)

**FLANGE PARALLELISM**: ![Icon](image)

**PARALLELISM**: ![Icon](image)
## Easy-Laser XT Alignment App for Generation XT

### Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HORIZONTAL 9-12-3</strong></td>
<td></td>
</tr>
<tr>
<td><strong>MACHINE TRAIN (UNLIMITED)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>MACHINE TRAIN (3 MACHINES/2 COUPLINGS)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>SOFT FOOT</strong></td>
<td></td>
</tr>
<tr>
<td><strong>EASYTURN™</strong></td>
<td></td>
</tr>
<tr>
<td><strong>MULTIPOINT HORIZONTAL SHAFT</strong></td>
<td></td>
</tr>
<tr>
<td><strong>CONTINUOUS SWEEP HORIZONTAL SHAFT</strong></td>
<td></td>
</tr>
<tr>
<td><strong>WIDE LIVE</strong></td>
<td>Allows for live adjustment at larger angles, vertically and horizontally separately.</td>
</tr>
<tr>
<td><strong>360 LIVE</strong></td>
<td>Allows for live adjustment at any position, in both directions simultaneously.</td>
</tr>
<tr>
<td><strong>VERTICAL/FLANGE MOUNTED</strong></td>
<td></td>
</tr>
<tr>
<td><strong>CARDAN/OFFSET MOUNTED</strong></td>
<td>(NOTE: Requires the Cardan bracket kit.)</td>
</tr>
<tr>
<td><strong>VALUES (Digital Dial Indicator)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>TWIST</strong></td>
<td>Check base twist and flatness with the M and S measuring units.</td>
</tr>
<tr>
<td><strong>BASIC FLATNESS</strong></td>
<td>Measure two rows of points, 2 to 8 at each. To be used with separate laser transmitter like the D22.</td>
</tr>
<tr>
<td><strong>EASYTREND™</strong></td>
<td>Monitor and record machine movement over time.</td>
</tr>
<tr>
<td><strong>BELT TRANSMISSION ALIGNMENT</strong></td>
<td>(NOTE: The Belt alignment program requires XT190 BTA.)</td>
</tr>
<tr>
<td><strong>VIBRATION MEASUREMENT</strong></td>
<td>(NOTE: The Vibration measurement program requires XT280 VIB.)</td>
</tr>
<tr>
<td><strong>ONE FREE APP</strong></td>
<td>All measurement programs in one app. Available functionality based on which measuring unit is connected.</td>
</tr>
<tr>
<td><strong>SHARE FILES</strong></td>
<td>Share via email directly from your display unit.</td>
</tr>
<tr>
<td><strong>BUILT-IN HELP</strong></td>
<td>Searchable Users Manual which opens the relevant chapter depending where in the process you are.</td>
</tr>
<tr>
<td><strong>MULTI-LINGUAL</strong></td>
<td>The XT Alignment App is available in multiple languages: en / de / sv / es / pt / ru / ja / ko / zh / it / fr / pl</td>
</tr>
</tbody>
</table>

### App Technology

- **DOT LASER TECHNOLOGY – 2 AXIS**
- **DOT LASER TECHNOLOGY – 1 AXIS**
- **LINE LASER TECHNOLOGY**

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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, 10. 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.

Easy-Laser® Precision Level App for E290

| E290 |

PRECISION LEVEL
Use your iPhone, iPod or iPad as display! With our free app Precision Level for the E290 you can follow the alignment from the place where you adjust the machine, and document your measurement.

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XT11 – Display unit for Generation XT
Part No: 12-0961
Options: IR Camera (Part No. 12-0968), Camera removed for security reasons (Part No. 12-0985).
Note: Options cannot be retrofitted. Not approved for Ex/ATEX areas.

ECOM Tab-Ex® – Display unit for Generation XT
Intrinsically safe, EX/ATEX approved
Part No: 12-1086
Description: Wireless display unit for Generation XT, especially the XT50-M/S Ex/ATEX approved shaft alignment measuring units. Rugged design, with glove enabled touch screen.
Note: For more detailed information, please see the ecom web site: https://www.ecom-ex.com

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.
Laser transmitter D26 Swivel
Part No: 12-1064
Description: Laser transmitter D26 can be used to measure flatness, straightness, squareness and parallelism. Mainly for use in machine tool applications. The laser beam can sweep 360° with a measurement distance of up to 30 metres [100'] in radius. For specifications, please see Technical specifications at the end of this catalogue.
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 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. For specifications, please see Technical specifications at the end of this catalogue.
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.

Laser transmitter D146 Spindle
Part No: 12-0146
Description: For measuring spindle direction and straightness. Can be used in a rotating spindle (max. 2000 rpm). Measurement distance 20 metres [65°]. Mounting pin ø20 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.
**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.

A. Transmitter mounted to point laser through hub.

B. Transmitter mounted to point laser in opposite direction.

---

**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).

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**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 (03-1243), USB memory stick with documentation, and Carrying case (12-0872).

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**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 and 12-1053.)
<table>
<thead>
<tr>
<th>Detector</th>
<th>Part No.</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detector E9, 2-axis PSD</td>
<td>12-0759</td>
<td>Detector diameter 45 mm [1.77&quot;). 2 axis PSD, 20x20 mm [0.79&quot;x0.79&quot;]. Built-in 360° electronic inclinometer. Built-in 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).</td>
<td>Note: Make sure you have a suitable bracket!</td>
</tr>
<tr>
<td>Detector E7H, HyperPSD™</td>
<td>12-0824</td>
<td>Detector for the E-series. 2 axis PSD, 20x20 mm [0.79&quot;x0.79&quot;]. With HyperPSD™ technology, which allows for a displayed resolution of 0.0001 mm [0.000005&quot;/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.</td>
<td>Note: Optimised for fixed point laser/does not detect a spinning laser.</td>
</tr>
<tr>
<td>Detector E7</td>
<td>12-0752</td>
<td>Detector for the E-series. 2 axis PSD, 20x20 mm [0.79&quot;x0.79&quot;]. 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.</td>
<td>Note: Optimised for fixed point laser/does not detect a spinning laser.</td>
</tr>
<tr>
<td>Detector E5</td>
<td>12-0509</td>
<td>Detector for the E-series. 2 axis PSD, 20x20 mm [0.79&quot;x0.79&quot;]. 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.</td>
<td>Note: With Dual Detection Technology, making it possible to read both fixed point laser and spinning laser, but is optimised for spinning laser.</td>
</tr>
<tr>
<td>Detector E3</td>
<td>12-0799</td>
<td>Detector for the E-series. 2 axis PSD, 30x30 mm [1.18&quot;x1.18&quot;]. Built-in 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.</td>
<td>Note: Target/Dust cover for PSD included. Does not detect a spinning laser.</td>
</tr>
<tr>
<td>Angle detector E2</td>
<td>12-0845</td>
<td>Detector for angle measurements, e.g. roll parallelism measurement. Built-in OLED display and rechargeable battery.</td>
<td>Note: The E2 detector reads angles, not positions. This means that if you want to take full advantage of the measurement program package of some geometric systems, you will also need a positional detector like e.g. the E7.</td>
</tr>
</tbody>
</table>
DETectors AND OTHER RECEIVERS

Easy-Laser® Product overview

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 (03-1243), safety strap (12-0915) and USB memory stick with documentation (03-0914).
Note: Delivered in plastic case (12-0873).

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 (03-1243), DC charging cable (12-0989), 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.

XT & E-series wireless Detector for belt alignment
Part No: 12-1054
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: Laser transmitter also needed.
Note: Also for wireless connection to separate display units E51 and E52 which have the BTA digital program. Or connect it to the XT Alignment App on your iOS/Android display, or Easy-Laser XT11.
A. Super magnets x 4, for attachment to sheave side.
**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 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 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 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.
Measuring unit ELM20, PSD 20 mm  
Part No: 12-0746  
Description: Laser diode and PSD detector in one housing. Built-in wireless communication. Battery status indicator. Built-in electronic 360° inclinometer. For shaft alignment. 1 axis 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 wireless communication. Battery status indicator. Built-in electronic 360° inclinometer. For shaft alignment. 1 axis PSD 20 mm [0.79”].  
Note: To be used in pair with M unit 12-0746. E-series measuring unit.

Measuring unit XT40-M, line laser, PSD 30 mm  
Part No: 12-0943  
Description: Laser diode and PSD detector in one housing. Built-in wireless communication. OLED display shows battery status and angle of the unit on shaft. Built-in electronic 360° inclinometer. For shaft alignment. 1 axis PSD 30 mm [1.18”].  
Note: To be used in pair with S unit 12-0944. XT-series measuring unit.

Measuring unit XT40-S, line laser, PSD 30 mm  
Part No: 12-0944  
Description: Laser diode and PSD detector in one housing. Built-in wireless communication. OLED display shows battery status and angle of the unit on shaft. Built-in electronic 360° inclinometer. For shaft alignment. 1 axis PSD 30 mm [1.18”].  
Note: To be used in pair with M unit 12-0943. XT-series measuring unit.

Measuring unit XT60-M, dot laser, PSD 20x20 mm  
Part No: 12-1028  
Description: Laser diode and PSD detector in one housing. Built-in wireless communication. OLED display shows battery status and angle of the unit on shaft. Built-in electronic 360° inclinometer. For shaft alignment. 1 axis PSD 20x20 mm [0.79x0.79”].  
Note: To be used in pair with S unit 12-1029. XT-series measuring unit.

Measuring unit XT60-S, dot laser, PSD 20x20 mm  
Part No: 12-1029  
Description: Laser diode and PSD detector in one housing. Built-in wireless communication. OLED display shows battery status and angle of the unit on shaft. Built-in electronic 360° inclinometer. For shaft alignment. 1 axis PSD 20x20 mm [0.79x0.79”].  
Note: To be used in pair with M unit 12-1028. XT-series measuring unit.
### Measuring unit XT50-M, EX/ATEX, dot laser, PSD 20x20 mm

**Part No:** 12-1026  
**Description:** Laser diode and PSD detector in one housing. Built-in wireless communication. OLED display shows battery status and angle of the unit on shaft. Built-in electronic 360° inclinometer. For shaft alignment. 1 axis PSD 20x20 mm [0.79x0.79”].  
**Note:** Intrinsically safe design. To be used in pair with S unit 12-1027. XT-series measuring unit.

### Measuring unit XT50-S, Ex/ATEX, dot laser, PSD 20x20 mm

**Part No:** 12-1027  
**Description:** Laser diode and PSD detector in one housing. Built-in wireless communication. OLED display shows battery status and angle of the unit on shaft. Built-in electronic 360° inclinometer. For shaft alignment. 1 axis PSD 20x20 mm [0.79x0.79”].  
**Note:** Intrinsically safe design. To be used in pair with M unit 12-1026. XT-series measuring unit.

### Measuring unit XT70-M, dot laser, PSD 20x20 mm, 2-axis

**Part No:** 12-1045  
**Description:** Laser diode and PSD detector in one housing. Built-in wireless communication. OLED display shows battery status and angle of the unit on shaft. Built-in electronic 360° inclinometer. For shaft alignment. 2 axis PSD 20x20 mm [0.79x0.79”].  
**Note:** To be used in pair with S unit 12-1046. XT-series measuring unit.

### Measuring unit XT70-S, dot laser, PSD 20x20 mm, 2-axis

**Part No:** 12-1046  
**Description:** Laser diode and PSD detector in one housing. Built-in wireless communication. OLED display shows battery status and angle of the unit on shaft. Built-in electronic 360° inclinometer. For shaft alignment. 2 axis PSD 20x20 mm [0.79x0.79”].  
**Note:** To be used in pair with M unit 12-1045. XT-series measuring unit.
Magnet base
Part No: 12-0013
Description: Versatile magnet base with On/Off function and many optional rod mounting possibilities. Holding power 800N.
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.

Magnet base with turnable head
Part No: 12-1133
Description: Versatile magnet base with On/Off function and 360° turnable head with two rod mounting possibilities, for both C–C40 mm and C–C56 mm. It has a screw and washer with which you can lock the top rotation, and therefore still use it for jobs like shaft alignment.
Note: -

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
Description: Allows for 360° swivel.
Note: -

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: -

Radial support for magnet base
Part No: 12-0508
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 for D550
Part No: 12-0579
Description: For e.g. straightness measurement with the D550 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: 12-1011
Description: For axial mounting on flanges or shafts. With M6 screws working as radial supports, and four super magnets.
Note: -
**Magnetic brackets and rods, kit**  
**Part No:** 12-1017  
**Description:** 2 magnetic brackets and 4pcs rods 120 mm [4.72"] in small case.  
**Note:** -

**V-bracket with chain**  
**Part No:** 12-0016  
**Description:** For mounting on shaft or coupling. The V-bracket fits shafts with diameters 20–450 mm [0.8–17.7”]. The standard chain included can be used on shaft diameters up to 150 mm [6”]. Bracket width 18 mm [0.7"].  
**Note:** Extension chains available for shafts larger than diameter 150 mm [6”]. Does not fit the XT series.

**V-bracket with chain and rods**  
**Part No:** 12-0963  
**Description:** For mounting on shaft or coupling. The V-bracket fits shafts with diameters 20–450 mm [0.8–17.7”]. The standard chain included can be used on shaft diameters up to 150 mm [6”]. Chain is pre-mounted. Bracket width 18 mm [0.7"].  
**Note:** Only for XT series. 2 pcs rods 120 mm [4.72"] included. Extension chains available [Part No. 12-1060] for shafts larger than diameter 150 mm [6”].

**Standard chains**  
**Part No:** 12-0625  
**Description:** Standard chains for shaft alignment brackets.  
**Note:** 2 pcs. Includes plastic box.

**Extension chain, set**  
**Part No:** 12-0128  
**Description:** For standard chains. For shaft diameters 150–450 mm [5.9–17.7”].  
**Note:** 2 pcs. included, with plastic box. This one fits best in the system cases for E420 and D-series.

**Extension chain, set**  
**Part No:** 12-1060  
**Description:** For standard chains. For shaft diameters 150–450 mm [5.9–17.7”].  
**Note:** 2 pcs. included, with plastic box. This one fits best in XT and E system cases, except E420.
**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 chain 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:* 1 pc. included. 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.
*Note:* 2 screws M6x16 included.

**DM Bracket, complete set**
*Part No:* 12-1130
*Description:* For measuring dynamic movements. Includes 2 pcs DM brackets, 4 pcs mounting plates, glue Locktite 4070, 4 pcs screw M6x20, hexagon wrench 5 mm. Delivered in plastic case.
*Note:* -

**DM Bracket**
*Part No:* 12-1125
*Description:* For measuring dynamic movements. For complete set, please see Part No. 12-1130 instead.
*Note:* Measuring unit not included.
DM Bracket extension
Part No: 12-1129
Description: Extension for bracket 12-1125. For complete set, please see Part No. 12-1130 instead.
Note: Parts included as pictured on leftmost picture.

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).
Note: -

Cardan bracket set
Part No: 12-0125
Description: For alignment of cardan/offset mounted machines. Offset range 0–900 mm.
Note: Delivered in plastic case. For D-series.

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.
### Cardan bracket set

**Part No:** 12-1151  
**Description:** For alignment of cardan/offset mounted machines. Offset range 0–900 mm.  
**Note:** Delivered in plastic carrying case. For XT- and E-series. Please see rightmost picture for example of attachment for E or XT unit.

### Rod, 30 mm [1.18”]

**Part No:** 01-0938  
**Description:** Stainless steel. Diameter 10 mm. Extendable.  
**Note:** 1 pcs.

### Rods, 60 mm [2.36”]

**Part No:** 12-0059  
**Description:** Stainless steel. Diameter 10 mm. Extendable. Plastic holder included.  
**Note:** 4 pcs.

### Rods, 75 mm [2.95”]

**Part No:** 12-1161  
**Description:** Stainless steel. Diameter 10 mm. Extendable. Plastic holder included.  
**Note:** 4 pcs.

### Rods, 100 mm [4.72”]

**Part No:** 12-0324  
**Description:** Stainless steel. Diameter 10 mm. Extendable. Plastic holder included.  
**Note:** 8 pcs.

### Rods, 120 mm [4.72”]

**Part No:** 12-0987  
**Description:** Stainless steel. Diameter 10 mm. Extendable. Plastic holder included.  
**Note:** 4 pcs.

### Rods, 120 mm [4.72”]

**Part No:** 12-0060  
**Description:** Stainless steel. Diameter 10 mm. Extendable. Plastic holder included.  
**Note:** 4 pcs.

### Tube adapters for detector D157 and E9

**Part No:** 01-0777  
**Description:** Adapters mainly for mounting of detector when 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.
BRACKETS AND MISCELLANEOUS PRODUCTS

Easy-Laser® Product overview

Large extruder adapter/bracket
Part No: -
Description: Adapters mainly for mounting of detector D157/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: -

Angle bracket
Part No: 01-1768
Description: For use with roll bracket 12-0849.
Note: -

Large roll kit
Part No: 12-0885
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 ø80– 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.
BRACKETS AND MISCELLANEOUS PRODUCTS

Easy-Laser® Product overview

**Slide bracket min. Ø100 mm [3.94"]**
Part No: 12-0343
Description: For bore straightness measurement. Hard anodised surface. For bores Ø100–200 mm [3.94”–7.88”].
Note: -

**Slide bracket min. Ø120 mm [4.72"]**
Part No: 12-0455
Description: For bore straightness measurement. With magnetic feet. For bores Ø120–250 mm [4.72”–9.84”], width Min. 60 mm [2.36”].
Note: -

**Slide bracket min. Ø200 [7.87"]**
Part No: 12-0543
Description: For bore straightness measurement. With magnetic feet. For bores Ø200–350 mm [7.87”–13.78”], width Min. 80 mm [3.15”].
Note: -

**Slide bracket min. Ø300 mm [11.81"]**
Part No: 12-0510
Description: For bore straightness measurement. With magnetic feet. For bores Ø300–500 mm [11.81”–19.68”], width Min. 100 mm [3.94”].
Note: -

**Bore bracket adapter plate**
Part No: 12-0553
Description: Bracket for use with detector D5, D157 or E9.
Note: Detector and arm set not included. Suitable Arm set is Part No. 12-0314. Detector D5 and D157 is discontinued.

**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.
### Detector arms Linebore
**Part No:** 12-0314  
**Description:** For bracket 12-0553. For bores Ø100–500 mm [3.94”–19.68”], with the possibility to use the longest three arms as extension arms.  
**Note:** Also includes Foot set 12-0134 and 12-0143 (the rightmost picture).

### Foot set for linebore arms
**Part No:** 12-0134  
**Description:** For use with linebore detector arms. Included in 12-0314.  
**Note:** -

### 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:** -

### Offset hub with counterlock
**Part No:** 12-0661  
**Description:** For laser transmitter 12-0075.  
**Note:** -

### 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:** 12-1039  
**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. Clamping diameter 20 mm [0.79”]. The pin is hollow so laser beam can be pointed also through it.  
**Note:** 4 screws M5x8 also included.
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. For bores Ø500–1000 mm [19.68–39.36”]
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 standard magnet level.
Note: -

Axial extension arms, Linebore
Part No: 12-0580
Description: Used for making it possible to reach the Linebore detector from the same side of the bore as the transmitter.
Note: 3 arms with magnets etc. as pictured on the left picture.

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. 2 aluminium beams, length 1100 mm and 500 mm.
Note: Transmitter and hub not included.

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 D26, D22 and D23, but can also be used together with transmitter D75, for example.
Note: Tool kit also included (12-0622).

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 flat 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 Ø 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.
Note: -

Machine/magnet base pin for D22 and D26, short
Part No: 01-0139
Description: For mounting the transmitter in a spindle or on a magnet base, for example. Clamping pin Ø 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 and D26, Long
Part No: 01-1333
Description: For mounting the transmitter in a spindle (or on a magnet base), for example. Clamping pin Ø 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 \( \varnothing 20 \text{ mm} \) [0.79”].  
**Note:** - 

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**Self centering bracket, Linebore**

**Part No:** 12-0341  
**Description:** For sterntube measurement. Smallest diameter 300 mm [11.81”]. Includes extension beams and rods for diameters up to 1200 mm [47.24”].  
**Note:** Includes items as pictured leftmost. No detector included. 

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**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 \( \varnothing 150–1700 \text{mm} \) [5.9”–66.9”].  
**Note:** Detector not included. 

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**Detector bracket “long stroke”, Turbine**

**Part No:** 12-0715  
**Description:** Measures diameters 200–1700 mm [7.8”–67”] as standard. Stroke: 60 mm [2.36”].  
Two aluminium beams 1100 mm [43.3”], one 600 mm [23.6”], rods 5x240 mm [9.44”], 4x120 mm [4.72”], 2x60 mm [2.36”], 1x30 mm [1.18”] included. For \( \varnothing 200–1700 \text{mm} \) [7.8”–66.9”].  
**Note:** Detector not included. 

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**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. 

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**Tube bracket**

**Part No:** 12-0814  
**Description:** Included with Part No. 12-0438 and 12-0715.  
**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]

**Aluminium beam, 500 mm [19.68"]**  
Part No: 03-0769  
**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:** -

**Aluminium beam, 600 mm [23.62"]**  
Part No: 03-0770  
**Description:** Cross section measures 44x44 mm [1.73x1.73"].  
**Note:** -

**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:** -

**Gauge block**  
Part No: 03-1291  
**Description:** For use mainly in turbine applications.  
**Note:** -

**Measuring probe, cylindrical**  
Part No: 12-1047  
**Description:** For use in turbine applications.  
**Note:** -

**Measuring probe, cylindrical, with magnet**  
Part No: 12-1048  
**Description:** For use in turbine applications. With neodym magnet in the cylinder probe.
Centering target, Turbine
Part No: 12-0443
Description: For rough alignment of laser beam. 1 m + 0.5 m extension.
Note: -

Side support for E5, E7 and other detectors
Part No: 12-0188
Description: For straightness measurement of engine bed plate. For use together with 12-0189.
Note: -

Side support for D75
Part No: 12-0189
Description: For straightness measurement of engine bed plate. For use together with 12-0188.
Note: -

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: -

Parallellity 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.

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.  
Hexagon wrench and two rods 60 mm also included as pictured.

Sun visor E-series  
Part No: 12-0587  
**Description:** To use in very sunny conditions when light causes unstable values. Fits detector 12-0509, 12-0752, 12-0824 and measuring units 12-0433/12-0434. With magnet attachment.  
**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 D550 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:** -
Target E-series 20 x 20
Part No: 12-0794
Description: Rough alignment target for measuring units E5/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.

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: -

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.

Battery pack with built-in wireless unit
Part No: 12-0618
Description: Chargeable battery pack which gives extra operating time. With battery status indicator and On/Off button. Built-in unit for wireless measurement data transfer to the display unit.
Note: Only for the E-series. Includes “red cable” 0.16 m [6.3”].

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 wireless technology, Kit

**Part No:** 12-0740  
**Description:** Kit including two Batterypack units with wireless technology (12-0618) and one splitter cable B (12-0725).  
**Note:** The cable cannot be used for data transfer, only for charging.

### 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 measurement data. Not for use with 12-0738.

### Splitter cable A, for charging two 12-0738

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

### DC cable extension 1.5 m [59"]

**Part No:** 03-1203  
**Description:** For extension of the DC split cables Part No. 12-0989 and 12-0750.  
**Note:** -

### DC to USB adapter

**Part No:** 12-0751  
**Description:** Adaptor to be used with cable 12-0989 and 12-0750.  
**Note:** Cannot transfer any measurement data.

### 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.

### DC split cable for charging

**Part No:** 12-0989  
**Description:** Cable for charging the units of system E420, E540 and XT440, XT550, XT660.  
**Note:** This cable cannot transfer any measurement data.
**Red cable**, 2.0 m [78.7”]
Part No: 12-0074
**Description:** For connecting Easy-Laser® measurement equipment.
With Push-Pull connectors.
**Note:** -

<table>
<thead>
<tr>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Red cable&quot;, 2.0 m [78.7”]</td>
<td></td>
</tr>
</tbody>
</table>

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**Red cable**, 0.16 m [6.3”]
Part No: 12-0494
**Description:** For connecting Easy-Laser® measurement equipment.
With Push-Pull connectors.
**Note:** -

<table>
<thead>
<tr>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Red cable&quot;, 0.16 m [6.3”]</td>
<td></td>
</tr>
</tbody>
</table>

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**Red cable**, 1.0 m [39.3”]
Part No: 12-0179
**Description:** For connecting Easy-Laser® measurement equipment.
With Push-Pull connectors.
**Note:** -

<table>
<thead>
<tr>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Red cable&quot;, 1.0 m [39.3”]</td>
<td></td>
</tr>
</tbody>
</table>

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**Red cable**, extension, 0.5 m [1.6’]
Part No: 12-0762
**Description:** For connecting Easy-Laser® measurement equipment.
With Push-Pull connectors.
**Note:** Extension cable.

<table>
<thead>
<tr>
<th>D</th>
<th>E</th>
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</thead>
<tbody>
<tr>
<td>&quot;Red cable&quot;, extension, 0.5 m [1.6’]</td>
<td></td>
</tr>
</tbody>
</table>

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**Red cable**, extension, 5.0 m [16.4’]
Part No: 12-0180
**Description:** For connecting Easy-Laser® measurement equipment.
With Push-Pull connectors.
**Note:** Extension cable.

<table>
<thead>
<tr>
<th>D</th>
<th>E</th>
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</thead>
<tbody>
<tr>
<td>&quot;Red cable&quot;, extension, 5.0 m [16.4’]</td>
<td></td>
</tr>
</tbody>
</table>

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**Red cable**, extension, 10.0 m [32.8’]
Part No: 12-0180
**Description:** For connecting Easy-Laser® measurement equipment.
With Push-Pull connectors.
**Note:** Extension cable.

<table>
<thead>
<tr>
<th>D</th>
<th>E</th>
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</thead>
<tbody>
<tr>
<td>&quot;Red cable&quot;, extension, 10.0 m [32.8’]</td>
<td></td>
</tr>
</tbody>
</table>

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**Red cable**, 2.0 m [78.7”] with angled connector
Part No: 12-0735
**Description:** For connecting Easy-Laser® measurement equipment.
With Push-Pull connector on one end, and angled connector on the other. For use when there is limited space for the cable, e.g. small bore diameters.
**Note:** -

<table>
<thead>
<tr>
<th>D</th>
<th>E</th>
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</thead>
<tbody>
<tr>
<td>&quot;Red cable&quot;, 2.0 m [78.7”] with angled connector</td>
<td></td>
</tr>
</tbody>
</table>

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Cable support
Part No: 12-0321
**Description:** If the cable is accidentally pulled with great force, this support will prevent the connector from damage. It will also minimise the risk of moving the detector out of position.
**Note:** -

<table>
<thead>
<tr>
<th>D</th>
<th>E</th>
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</thead>
<tbody>
<tr>
<td>Cable support</td>
<td></td>
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</tbody>
</table>
**Cable tester**
Part No: 12-0362
Description: Easily check the cables for connection problems. The diodes indicates broken threads.
Note: -

**Printer cable**
Part No: 03-0241
Description: For connection of the thermal printers 03-0341 and 03-0032 to display unit D279.
Note: -

**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: 03-1243
Description: -
Note: Wall socket connection cable also needed, choose part depending on country of use.

**Charger for XT-series**
Part No: 03-1256
Description: -
Note: Wall socket connection cable also needed, choose part depending on country of use.

**Charger cable, EUR**
Part No: 03-0892
Description: -
Note: Charger unit also needed.

**Charger cable, USA**
Part No: 03-0893
Description: -
Note: Charger unit also needed.

**Charger cable, UK**
Part No: 03-0894
Description: -
Note: Charger unit also needed.

**Charger cable, AUS**
Part No: 03-0895
Description: -
Note: Charger unit also needed.
**BRACKETS AND MISCELLANEOUS PRODUCTS**

**Easy-Laser® Product overview**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Part No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Charger 12–36V for car</strong></td>
<td>For charging the display unit via a 12–36V outlet, in for example a car. The red adapter can be detached for use with newer (smaller) types of connectors. <strong>Note:</strong></td>
<td>12-0585</td>
<td></td>
</tr>
<tr>
<td><strong>HDMI to HDMI cable</strong></td>
<td><strong>Note:</strong></td>
<td>03-0901</td>
<td></td>
</tr>
<tr>
<td><strong>VGA to VGA cable</strong></td>
<td><strong>Note:</strong></td>
<td>03-0902</td>
<td></td>
</tr>
<tr>
<td><strong>Barcode reader</strong></td>
<td>For registration of machine data. Connected to the USB port. <strong>Note:</strong> Includes 25 pcs bar code stickers.</td>
<td>12-0619</td>
<td></td>
</tr>
<tr>
<td><strong>VGA/HDMI kit</strong></td>
<td><strong>Note:</strong> Only for Display unit 12-0418 (E51) with serial number 94176 and lower. The VGA kit (the circuit board) must be ordered at system purchase for factory installation, it cannot be mounted afterwards.</td>
<td>12-0573</td>
<td></td>
</tr>
<tr>
<td><strong>VGA/HDMI kit, for serial number 94177 and newer</strong></td>
<td><strong>Note:</strong> 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.</td>
<td>12-0840</td>
<td></td>
</tr>
<tr>
<td><strong>Printer for E-series</strong></td>
<td>Battery operated thermal printer. With USB cable and 110–220V charger. For connection to all systems with E-series display units. <strong>Note:</strong> 1 paper roll included. Spare rolls, Part No. 03-0041.</td>
<td>03-1004</td>
<td></td>
</tr>
<tr>
<td><strong>Printer for D-series</strong></td>
<td><strong>Note:</strong> Cable D-Sub 9-pole included. 1 paper roll included. Spare rolls, Part No. 03-0041.</td>
<td>03-1323</td>
<td></td>
</tr>
</tbody>
</table>
Carrying case Small for system XT440
Part No: 12-0972
Description: Carrying case with pre-shaped interior for system XT440.
Note: No place for display unit.
Note 2: No system name sticker is included if not asked for.

Carrying case Medium for system XT440/XT660
Part No: 12-0973
Description: Carrying case with pre-shaped interior for system XT440 and XT660.
Note: The interior has space for display unit XT11. If other display unit is to be placed in the case, please note the shape and dimension of the cutout (picture to the left). W=280 mm [11"], H= 195 mm [7.6"].
Note 2: No system name sticker is included if not asked for.

Carrying case Large for XT440/XT660/XT770
Part No: 12-1049
Description: Carrying case with pre-shaped interior for system XT440, XT660 and XT770. This case also carries some accessories, please see system XT660 and XT770 brochures for more information.
Note: The interior has space for display unit XT11. If other display unit is to be placed in the case, please note the shape and dimension of the cutout (picture to the left). W=280 mm [11"], H= 195 mm [7.6"].
Note 2: No system name sticker is included if not asked for.

Carrying case for system E710
Part No: 12-0442
Description: Carrying case with pre-shaped interior for system E710.
Note: -

Carrying case Large for system E540
Part No: 12-1020
Description: Carrying case with interior for system E540.
Note: Pre-cut also for accessories, just remove foam blocks (blocks removed on picture).

Carrying case Small for system E540
Part No: 12-1025
Description: Carrying case with interior for system E540.
Note: -
Carrying case for system E420  
Part No: 03-1059  
**Description:** Carrying case with interior for system E420. Only lower compartment as pictured.  
**Note:** -

**Transportation case, Cardan**  
Part No: 12-0237  
**Description:** Rigid case for Cardan bracket set, or other accessories. To use e.g. when there isn’t place in the system case.  
**Note:** The foam is cut for Cardan brackets.

**Transportation case for system E180 and XT190**  
Part No: 12-0804  
**Description:** Carrying case with interior for belt alignment units.  
**Note:** No system name sticker is included if not asked for.

**Plastic case for small items**  
Part No: 03-0792  
**Description:** Transportation case with foam interior.  
**Note:** This is the standard case included with Easy-Laser systems.

**Transportation case**  
Part No: 03-0909  
**Description:** Rigid case for D22 or D23, or other accessories. To use e.g. when there isn’t place in the system case.  
**Note:** The foam is cut to order. Specify what the case will be used for. Otherwise it will be delivered with foam uncut.

**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 display unit E51, E52 and E53**
Part No: 01-1379
Description: With 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: -

**Measuring tape, 3 m [9.8’]**
Part No: 03-0824
Description: Fits the cases for the E- and XT-systems.
Note: -

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

**Demo unit Shaft**
Part No: 12-0416
Description: For shaft alignment training. Can simulate both coupled and uncoupled shafts. With two shims 1.00 mm included.
Dimensions: appr. 400x200x200 mm [ 15.7x7,8x7.8”].
Note: To simulate an actual alignment, shims (Type A) of different thicknesses can be used. Measuring units and brackets not included.

**Demo unit Shaft, steel**
Part No: 03-1332
Description: For shaft alignment training. Can simulate both coupled and uncoupled shafts. Two units or more can be connected in series to simulate machine train. With two shims 1.00 mm included.
Dimensions: appr. 400x200x200 mm [ 15.7x7,8x7.8”].
Note: To simulate an actual alignment, shims (Type A) of different thicknesses can be used. Measuring units and brackets not included.
**Demo unit Sheave**

Part No: 12-0236  
**Description:** Can be placed standing or lying down.  
**WxHxD:** 660x200x100 mm. **Weight:** 8 kg.  
**Note:** BTA and targets not included.

**Hexagon wrench set**

Part No: 03-0967  
**Description:** Hexagon wrench set with dimensions 1.27, 1.5, 2, 2.5, 3, 4, 5 and 6 mm. Ball end.  
**Note:** -

**Stinger for XT280**

Part No: 03-1326  
**Description:** Accessory probe for the XT280 Vibrometer.  
**Note:** Length 100 mm.

**Accelerometer magnet for XT280**

Part No: 03-1327  
**Description:** Accessory probe for the XT280 Vibrometer.  
**Note:** -
**SPARE PARTS**

**Battery lid for display unit D279**
- **Part No:** 12-0354
- **Description:** -
- **Note:** -

**Battery lid for display unit D336**
- **Part No:** 12-0546
- **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.

**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.

**Barrel nut**
- **Part No:** 01-0045
- **Description:** For the standard chain.
- **Note:** -

**Nut**
- **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.

**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:** -
SPARE PARTS

Rod tightening tool, 4 mm
Part No: 01-0048
Description: -
Note: -

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: 01-1866
Description: Fits measuring units; 12-0943, 12-0944, 12-1028, 12-1029, 12-1026, 12-1027.
Note: -

Locking screw
Part No: 01-1953
Description: Fits measuring units; 12-0434, 12-0433. Detectors; 12-0702, 12-0509, 12-0752.
Note: -

Spare locks for carrying cases
Part No: -
Description: Spare locks for different models of Easy-Laser® carrying cases.
Note: Ask us for more details on pricing and availability. Always measure width before ordering!

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

Case for BTA Ex
Part No: 03-0736
Description: Case for Ex environments. Made of antistatic material. With belt strap.
Note: -

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

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: -

Cleaning cloth
Part No: 03-0878
Description: For cleaning of optical surfaces such as laser aperture and PSD window.
Note: -

LCD display protection film for E51/E52/E53
Part No: 03-0972
Description: Thin film for scratch protection of the LCD display.
Note: -
**SPARE PARTS**

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

**Thermo paper roll**  
**Part No:** 03-0041  
**Description:** Paper roll for printer 03-0032 and 03-0341.  
**Note:** -

**Batteries**  
**Description:**  
A. 3.6 V, Lithium (for BTA Ex),  
Part Nr 03-0730  
B. 1.5 V, LR6 Alkaline,  
Part Nr 03-0247  
C. 1.5 V, LR14 Alkaline,  
Part Nr 03-0242  
D. 9V, 6LR61 Alkaline,  
Part Nr 03-0642

**White Vaseline**  
**Part No:** 03-1193  
**Description:** Protects metals against rust and corrosion.  
**Note:** Weight 40 g.

**Vapor capsule Zerust VC2-2**  
**Part No:** 03-1184  
**Description:** Protects metals against rust and corrosion. Estimated life span 2 years.  
**Note:** For use in system cases. With adhesive backing.

**Sticker “This machine is aligned with”**  
**Part No:** 04-0053  
**Description:** To stick on aligned machines. With writable surface for date and operator signature.  
**Note:** 25 stickers.

**Barcode sticker**  
**Part No:** 04-0147  
**Description:** To stick on aligned machines. With barcode.  
**Note:** 25 stickers.

**Tool kit for system D550, complete**  
**Part No:** 12-0360  
**Description:** With 4 rods 120 mm, 4 extension chains, rod tightening tool and hexagon tool.  
**Note:** Antistatic fabric.

**Shims case 1, 180 shims**  
**Part No:** 12-0258  
**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 3, A: 90, B: 80, C: 32. Type 4, A: 125, B: 105, C: 44. Type 5, A: 200, B: 200, C: 85.
APPAREL / GIVE AWAYS

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: 4 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 as pictured. Good quality pen.
Note: Not always in stock. Price upon request.

Key holder
Part No: 01-1095
Description: With snap-hook and string for mobile phone.
Note: Not always in stock. Price upon request.

Logo sticker
Part No: 04-0125 (small), 04-0124 (large)
Description: Durable sticker with strong adhesive. 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.

Easy-Laser® logo stickers
Part No: 04-0252
Description: Sheet with laminated logo stickers with the following lengths: 100 mm (2 pcs), 85 mm (2 pcs), 60 mm (3 pcs) and 40 mm (4 pcs) / [3.94” (2 pcs), 3.35” (2 pcs), 2.36” (3 pcs), 1.57” (4 pcs)].
Note: -

Keychain with spirit level
Part No: 13-0013
Description: Keychain with spirit level (plastic block 40x15x15 mm). Easy-Laser® logo as pictured. For give-away purpose/not calibrated.
Note: Not always in stock. Price upon request.

A5 Notes
Part No: 13-0012
Description: 25 note papers, glued with cardboard back.
Note: -

Playing cards
Part No: 13-0007
Note: Not always in stock. Price upon request.

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.
Note: Not always in stock. Price upon request.
**Laser transmitter D246**  
(Discontinued)  
Part No: 12-0246  
Description: -  
Note: This product is discontinued and replaced by 12-0706.

**Offset hub for D75**  
(Discontinued)  
Part No: 12-0132  
Description: -  
Note: This product is discontinued and replaced by 12-0661.

**Detector Extruder, diameter 20 mm [0.79”]**  
(Discontinued)  
Part No: 12-0538

**Offset hub with arms**  
(Discontinued)  
Part No: 12-0364  
Description: -  
Note: Replaced by 12-0707 + 12-0661.

**Detector Linebore**  
(Discontinued)  
Part No: 12-0032

**Detector bracket “long stroke”, Turbine**  
(Discontinued)  
Part No: 12-0248  
Note: Replaced by 12-0715.

**Detector D6**  
(Discontinued)  
Part No: 12-0201

**Magnet base bracket for Linebore detector**  
(Discontinued)  
Part No: 12-0329

**System D670 Parallelism**  
(Discontinued)  
Part No: 12-0224  
Note: Please see system E970 instead.

**System D800 Machine Spin**  
(Discontinued)  
Part No: 12-0220  
Note: Please see system E915 instead.

**System D660 Turbine**  
(Discontinued)  
Part No: 12-0185  
Note: Please see system E960 instead.

**System D662 Turbine**  
(Discontinued)  
Part No: 12-0662  
Note: Please see system E960 instead.
DISCONTINUED PRODUCTS

Easy-Laser® Product overview

System D663 Turbine (Discontinued)
Part No: 12-0663
Note: Please see system E960 instead.

System D664 Turbine (Discontinued)
Part No: 12-0664
Note: Please see system E960 instead.

System D630 Extruder (Discontinued)
Part No: 12-0193
Note: Please see system E930 instead.

System D640 Machine tool (Discontinued)
Part No: 12-0552
Note: Please see system E940 instead.

System D652 Linebore (Discontinued)
Part No: 12-0652
Note: Please see system E950 instead.

System D650 Linebore (Discontinued)
Part No: 12-0034
Note: Please see system E950 instead.

System D600 Machine (Discontinued)
Part No: 12-0133
Note: Please see system E920 instead.

System D525 Shaft (Discontinued)
Part No: 12-0231
Note: Please see system E710 instead.

System D525 B Shaft (Discontinued)
Part No: 12-0235
Note: Please see system E710 instead.

System D505 Shaft (Discontinued)
Part No: 12-0207
Note: Please see system E540 or E710 instead.

System D480 Shaft (Discontinued)
Part No: 12-0422
Note: Please see system E540 or E710 instead.

System D450 Shaft (Discontinued)
Part No: 12-0300
Note: Please see system E420 instead.
**DISCONTINUED PRODUCTS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Easy-Laser® Product overview</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>System E530 Shaft (Discontinued)</strong></td>
<td>12-0695</td>
<td>Note: Please see system E710 or E540 instead.</td>
</tr>
<tr>
<td><strong>Easy-Laser® D550 Extreme™ Ex/ATEX/IECEx (Discontinued)</strong></td>
<td>12-0340</td>
<td></td>
</tr>
<tr>
<td><strong>Easy-Laser® D130 BTA Ex (Discontinued)</strong></td>
<td>12-0400</td>
<td></td>
</tr>
<tr>
<td><strong>System D150 BTA digital (Discontinued)</strong></td>
<td>12-0310</td>
<td>Note: Please see system XT190 instead.</td>
</tr>
<tr>
<td><strong>System D160 BTA (Discontinued)</strong></td>
<td>12-0411</td>
<td>Note: Please see system XT190 instead.</td>
</tr>
<tr>
<td><strong>System E170 BTA (Discontinued)</strong></td>
<td>12-0659</td>
<td>Note: Please see system XT190 instead.</td>
</tr>
<tr>
<td><strong>System E180 BTA (Discontinued)</strong></td>
<td>12-0796 + (12-0850: system without laser transmitter)</td>
<td>Note: Please see system XT190 instead.</td>
</tr>
<tr>
<td><strong>Laser transmitter Ex for sheave/pulley alignment (Discontinued)</strong></td>
<td>12-0390</td>
<td></td>
</tr>
<tr>
<td><strong>Detector for sheave/pulley alignment (Discontinued)</strong></td>
<td>12-0308</td>
<td>Note: Please see system XT190 instead.</td>
</tr>
<tr>
<td><strong>D-series Detector for belt alignment (Discontinued)</strong></td>
<td>12-0403</td>
<td>Note: Please see system XT190 instead.</td>
</tr>
<tr>
<td><strong>E-series Detector for belt alignment (Discontinued)</strong></td>
<td>12-0657</td>
<td>Note: Please see system XT190 instead.</td>
</tr>
<tr>
<td><strong>E-series wireless Detector for belt alignment (Discontinued)</strong></td>
<td>12-0791</td>
<td>Note: Please see system XT190 instead.</td>
</tr>
</tbody>
</table>
DISCONTINUED PRODUCTS

Easy-Laser® Product overview

Measuring unit M, PSD 10x10 mm
(Discontinued)
Part No: 12-0001

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

Measuring unit M, PSD 18x18 mm, inclinometer
(Discontinued)
Part No: 12-0119

Measuring unit S, PSD 18x18 mm, inclinometer
(Discontinued)
Part No: 12-0120

Measuring unit M, PSD 10x10 mm, inclinometer
(Discontinued)
Part No: 12-0423

Measuring unit M, PSD 10x10 mm, inclinometer
(Discontinued)
Part No: 12-0424

Measuring unit S, PSD 30x30 mm, inclinometer
(Discontinued)
Part No: 12-0260

Measuring unit M, PSD 30x30 mm, inclinometer
(Discontinued)
Part No: 12-0256

Measuring unit M, 2 axis, PSD 18x18 mm,
inclinometer
(Discontinued)
Part No: 12-0116

Detector 30 mm,
D-series (Discontinued)
Part No: 12-0255

Detector D5
(Discontinued)
Part No: 12-0005

Detector E4
(Discontinued)
Part No: 12-0702
Note: Please see Detector E5 or E7 instead.
### DISCONTINUED PRODUCTS

**Easy-Laser® Product overview**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring unit ELS30, PSD 30 mm <em>(Discontinued)</em></td>
<td>12-0697</td>
</tr>
<tr>
<td>Detector D157 <em>(Discontinued)</em></td>
<td>12-0157</td>
</tr>
<tr>
<td>Measuring unit M, Extreme™ <em>(Discontinued)</em></td>
<td>12-0334</td>
</tr>
<tr>
<td>Display unit Extreme™ EX: D336 <em>(Discontinued)</em></td>
<td>12-0336</td>
</tr>
<tr>
<td>AC adaptor for Display unit D279 <em>(Discontinued)</em></td>
<td>12-0590</td>
</tr>
<tr>
<td>Offset bracket <em>(Discontinued)</em></td>
<td>01-0076</td>
</tr>
</tbody>
</table>

**Note:** Please see Part No. 01-1165 instead.

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring unit ELS30, PSD 30 mm <em>(Discontinued)</em></td>
<td>12-0698</td>
</tr>
<tr>
<td>Detector E8, 1-axis PSD <em>(Discontinued)</em></td>
<td>12-0758</td>
</tr>
<tr>
<td>Display unit D-series: D279 <em>(Discontinued)</em></td>
<td>12-0279</td>
</tr>
<tr>
<td>Display unit for sheave/pulley alignment <em>(Discontinued)</em></td>
<td>12-0404</td>
</tr>
<tr>
<td>Magnetic bracket <em>(Discontinued)</em></td>
<td>12-0413</td>
</tr>
</tbody>
</table>

**Note:** Replaced by Part No. 12-1011.
AC adaptor for D22 and D75 (Discontinued)
Part No: 12-0205

AC adaptor for D23 (Discontinued)
Part No: 12-0294

Extension chain (Discontinued)
Part No: 12-0319
Note: Please see 12-0128 instead.

Height adjustment bracket for D6 (Discontinued)
Part No: 12-0417

Sun visor for D6 (Discontinued)
Part No: 01-1352

Large target extruder (Discontinued)
Part No: 12-0199
Note: Please see 12-0810 instead.

Measuring tape, 2 m [6.5’] (Discontinued)
Part No: 12-0012

Carrying case for system E540 and E530 (Discontinued)
Part No: 03-1007
Note: Replaced by cases 12-1020 and 12-1025.

CD (Discontinued)
Part No: 06-0001

Transportation case Ex Large (Discontinued)
Part No: 12-0456

Printer 220 V (Discontinued)
Part No: 03-0032
Note: Replaced by 03-1323.

Printer 110 V (Discontinued)
Part No: 03-0341
Note: Replaced by 03-1323.
DISCONTINUED PRODUCTS

Easy-Laser® Product overview

- Sliding bracket (Discontinued)
  Part No: 12-0039
  Note: Please see 12-1010 instead.

- Back Pack System Large (Discontinued)
  Part No: 03-1044
  Note: -

- E-series Vibrometer probe E285 (Discontinued)
  Part No: 12-0656
  Note: -

- D-series Vibrometer probe D283 (Discontinued)
  Part No: 12-0283
  Note: -

- Wireless units kit for E530 (Discontinued)
  Part No: 12-0739
  Note: -

- Adapter bracket for 40 mm rod distance (Discontinued)
  Part No: 12-0815
  Note: -

- Magnet base with turnable head, for D157 (Discontinued)
  Part No: 12-0608
  Note: -

- Cam shaft bracket (Discontinued)
  Part No: 12-0476
  Note: -

- Sun visor D550 (Discontinued)
  Part No: 12-0592
  Note: -

- Wireless unit for E530 (Discontinued)
  Part No: 12-0738
  Note: -

- Back Pack System Large (Discontinued)
  Part No: 03-1045
  Note: -
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 European drawing projection, but that is otherwise the method used.
• Specifications are quoted to 95% confidence level (coverage factor k=2).

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.
  Note! One exception is the sheave alignment detector 12-1054, which can be connected to XT11, E51 and E52.
• 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 development and adaptation of brackets.
  Note! The discontinued system D550 has a rod C–C of 70 mm.

SPECIFICATIONS FOR BUILT-IN RECHARGEABLE BATTERIES:

<table>
<thead>
<tr>
<th>Easy-Laser Part No.</th>
<th>Type</th>
<th>Voltage</th>
<th>Output</th>
<th>Capacity</th>
<th>Included in Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-0757</td>
<td>Li-Ion</td>
<td>3.65 V</td>
<td>41.61 Wh</td>
<td>10400 mAh</td>
<td>12-0418, 12-0700, 12-0748</td>
</tr>
<tr>
<td>03-0765</td>
<td>Li-Ion</td>
<td>3.7 V</td>
<td>2.5 Wh</td>
<td>660 mAh</td>
<td>12-0433, 12-0434, 12-0509, 12-0688, 12-0702, 12-0738, 12-0752, 12-0759, 12-0758, 12-0799, 12-0846</td>
</tr>
<tr>
<td>03-0971</td>
<td>Li-Ion</td>
<td>3.6 V</td>
<td>9.36 Wh</td>
<td>2600 mAh</td>
<td>12-0617, 12-0618, 12-0823, 12-0845</td>
</tr>
<tr>
<td>03-1052</td>
<td>Li-Ion</td>
<td>3.7 V</td>
<td>1.22 Wh</td>
<td>330 mAh</td>
<td>12-0746, 12-0747, 12-0776, 12-0777, 12-0791, 12-1054</td>
</tr>
<tr>
<td>12-0953</td>
<td>Li-Ion</td>
<td>3.7 V</td>
<td>7.4 Wh</td>
<td>2000 mAh</td>
<td>12-0944, 12-0943, 12-1028, 12-1029</td>
</tr>
<tr>
<td>12-0952</td>
<td>Li-Ion</td>
<td>7.3 V</td>
<td>41.61 Wh</td>
<td>5700 mAh</td>
<td>12-0961 (2 pcs)</td>
</tr>
<tr>
<td>12-0983</td>
<td>Li-Ion</td>
<td>3.7 V</td>
<td>7.4 Wh</td>
<td>2000 mAh</td>
<td>12-1028, 12-1027</td>
</tr>
<tr>
<td>N/A</td>
<td>Li-Ion</td>
<td>3.8 V</td>
<td>16.91 Wh</td>
<td>4450 mAh</td>
<td>12-1086</td>
</tr>
</tbody>
</table>
### Wireless unit, Part No. 12-0436
- **Communication**: BT wireless technology
- **Temperature range**: -10–50 °C
- **Environmental protection**: IP class 66 and 67
- **Housing material**: ABS
- **Dimensions**: WxHxD: 53x32x24 mm [2.1”x1.2”x0.9”]
- **Weight**: 25 g [0.9 oz]

### Battery pack with built-in wireless unit, Part No. 12-0618
- **Communication**: BT wireless technology
- **Internal battery**: Li Ion
- **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 XT280, Part No. 12-1090 (system)
- **Frequency range**: 2 Hz to 1kHz (ISO) 1 kHz to 10 kHz (BDU)
- **Max frequency resolution**: 1.25 Hz @ 800 lines FFT setting
- **Displayed amplitude units**: Acceleration in g
  - Velocity in mm/s (or inch/s)
  - Bearing noise in BDU (bearing damage units)
- **Displayed Frequency Units**: Hertz (Hz), RPM or CPM
- **Input range**: User selectable with accelerometer sensitivity
- **Dynamic range**: 96 dB (0.01g resolution)
- **VA diagnostic bands**
  - (RPM=run speed) Unbalance 1x RPM
  - Alignment 2x RPM
  - Looseness 3x RPM
- **Operating temperature**: 0°C to 50°C
- **Storage temperature**: -20°C to 70°C
- **Battery type**: 2 x AA batteries
- **Battery operation**: 20 hours continuously (depending on brightness setting)
- **Environmental protection**: IP67
- **Material**: ABS plastics / Hard anodized aluminium
- **Dimensions**: WxHxD: 200 mm x 60mm x 26mm [7.8 x 2.4 x 1.0”]
- **Weight**: 280 g [9.8 oz]
Display unit XT11, Part No. 12-0961

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of display/size</td>
<td>SVGA 8&quot; colour screen, backlit LED, multitouch</td>
</tr>
<tr>
<td>Battery type</td>
<td>Heavy duty Li-Ion chargeable</td>
</tr>
<tr>
<td>Operating time</td>
<td>Up to 16 h continuously</td>
</tr>
<tr>
<td>Connections</td>
<td>USB A, USB B, Charger, AV (HDMI)</td>
</tr>
<tr>
<td>Communication</td>
<td>Wireless technology, WiFi</td>
</tr>
<tr>
<td>Camera, with diode lamp</td>
<td>13 Mp</td>
</tr>
<tr>
<td>IR camera (optional)</td>
<td>FLIR LEPTON® 0–450°C [32–842°F]</td>
</tr>
<tr>
<td>Help functions</td>
<td>Built-in manual</td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP class 66 and 67</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10–50 °C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20–50 °C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>10–95%</td>
</tr>
<tr>
<td>OLED display</td>
<td>96x96 pixels</td>
</tr>
<tr>
<td>Housing material</td>
<td>PC/ABS + TPE</td>
</tr>
<tr>
<td>Dimensions</td>
<td>274x190x44 mm [10.8x7.5x1.7&quot;]</td>
</tr>
<tr>
<td>Weight</td>
<td>1450 g [3.2 lbs]</td>
</tr>
</tbody>
</table>

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

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Contains FCC ID: 2AFDI-ITCNFA324 IC: 9049A-ITCNFA324.
### TECHNICAL SPECIFICATIONS

#### Easy-Laser® Product overview

- **Display unit E51, Part No. 12-0418**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
<th>Dimensions</th>
<th>Weight (without batteries)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of display/size</td>
<td>VGA 5.7” colour screen, backlit LED</td>
<td>WxHxD: 250x175x63 mm [9.8”x6.9”x2.5”]</td>
<td>1080 g [2.4 lbs]</td>
</tr>
<tr>
<td>Displayed resolution</td>
<td>0.001 mm / 0.05 thou</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal battery (fixed)</td>
<td>Heavy duty Li Ion chargeable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>-10–50 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connections</td>
<td>USB A, USB B, Easy-Laser® units, Charger</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td>BT wireless technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal memory</td>
<td>&gt;100 000 measurements can be saved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Help functions</td>
<td>Calculator, Unit converter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP class 65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing material</td>
<td>PC/ABS + TPE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>WxHxD: 250x175x63 mm [9.8”x6.9”x2.5”]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Display unit E52, Part No. 12-0700**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
<th>Dimensions</th>
<th>Weight (without batteries)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of display/size</td>
<td>VGA 5.7” colour screen, backlit LED</td>
<td>WxHxD: 250x175x63 mm [9.8”x6.9”x2.5”]</td>
<td>1020 g [2.3 lbs]</td>
</tr>
<tr>
<td>Displayed resolution</td>
<td>0.001 mm / 0.05 thou</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal battery (fixed)</td>
<td>Heavy duty Li Ion chargeable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>-10–50 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connections</td>
<td>USB A, Easy-Laser® units, Charger</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td>BT wireless technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal memory</td>
<td>&gt;100 000 measurements can be saved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Help functions</td>
<td>Calculator, Unit converter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP class 65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing material</td>
<td>PC/ABS + TPE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>WxHxD: 250x175x63 mm [9.8”x6.9”x2.5”]</td>
<td></td>
<td></td>
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</tbody>
</table>

- **Display unit E53, Part No. 12-0748**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
<th>Dimensions</th>
<th>Weight (without batteries)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of display/size</td>
<td>VGA 5.7” colour screen, backlit LED</td>
<td>WxHxD: 250x175x63 mm [9.8”x6.9”x2.5”]</td>
<td>910 g [2.0 lbs]</td>
</tr>
<tr>
<td>Displayed resolution</td>
<td>0.001 mm / 0.05 thou</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal battery (fixed)</td>
<td>Heavy duty Li Ion chargeable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>-10–50 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connections</td>
<td>USB A, Charger</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication</td>
<td>BT wireless technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal memory</td>
<td>&gt;2000 measurements can be saved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Help functions</td>
<td>Calculator, Unit converter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP class 65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Housing material</td>
<td>PC/ABS + TPE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>WxHxD: 250x175x63 mm [9.8”x6.9”x2.5”]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Digital Precision Level, Part No. 12-0846**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displayed resolution OLED</td>
<td>0.01 mm/m (0.001°)/App: 0.001 mm/m (0.001°)</td>
</tr>
<tr>
<td>Range</td>
<td>± 2 mm/m</td>
</tr>
<tr>
<td>Measurement error</td>
<td>Better than ± 0.02 mm/m</td>
</tr>
<tr>
<td>Type of display</td>
<td>OLED</td>
</tr>
<tr>
<td>Communication</td>
<td>BT wireless technology</td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP Class 67</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10–50 °C</td>
</tr>
<tr>
<td>Internal battery</td>
<td>Li Ion</td>
</tr>
<tr>
<td>Material</td>
<td>Anodized aluminium, ABS plastics</td>
</tr>
<tr>
<td>Dimensions</td>
<td>149x40x35 mm (5.9x1.6x1.4&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>530 g (18.7 oz)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>For diameters</td>
<td>55–600+ mm (2.16–31.50&quot;)</td>
</tr>
<tr>
<td>Material</td>
<td>Anodized aluminium, Stainless steel feet</td>
</tr>
<tr>
<td>Weight</td>
<td>430g (15.2 oz)</td>
</tr>
</tbody>
</table>
**TECHNICAL SPECIFICATIONS**

**Easy-Laser® Product overview**

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

**Laser**
- Diode laser

**Laser wavelength**
- 630–680 nm

**Adjustable modulation**
- 0, 5, 32, 40, 100 kHz

**Output power**
- AVERAGE POWER < 1 mW, PULSE ENERGY < 12-132 nJ (pulsed mode), PULSE DURATION 10-110 us (pulsed mode).

**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**
- BT wireless technology (passive).

**Chock sensor**
- 6 axis mems gyro with inclinometer

**Type of display**
- 0-100 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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TECHNICAL SPECIFICATIONS

Laser transmitter D22, Part No. 12-0022

Type of laser: Diode laser
Laser wavelength: 630–680 nm
Laser Safety Class: Class 2
Output power:
- AVERAGE POWER < 0.6 mW
- PULSE ENERGY < 20 nJ
- PULSE DURATION 10-17 µs
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
Leveling range: ≤ 30 mm/m [≤ 1.7""]
3 x spirit vials' scaling: 0.02 mm/m
Squareness between laser beams:
- ±0.01 mm/m [±0.01 mils/inch] [2 arc sec.]
Flatness of sweep:
- ±0.01 mm/m
Fine turning of laser head:
- ±0.1 mm/m [20 arc sec.]
2 x spirit vials for rotation of head:
- ±5 mm/m
Housing material: Aluminium
Dimensions:
- WxHxD: 139x169x139 mm [5.47x6.64x5.47""]
- 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).

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

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

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

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

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

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

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

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

With magnet bases, very rigid mounting.

With magnet bases, very rigid mounting.

Rigid mounting, horizontal sweep.
**TECHNICAL SPECIFICATIONS**

Easy-Laser® Product overview

<table>
<thead>
<tr>
<th>Laser transmitter D23 Spin, Part No. 12-0168</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of laser</strong></td>
</tr>
<tr>
<td><strong>Laser wavelength</strong></td>
</tr>
<tr>
<td><strong>Laser Safety Class</strong></td>
</tr>
<tr>
<td><strong>Output power</strong></td>
</tr>
<tr>
<td><strong>Beam diameter</strong></td>
</tr>
<tr>
<td><strong>Working area, range</strong></td>
</tr>
<tr>
<td><strong>Type of battery</strong></td>
</tr>
<tr>
<td><strong>Operating time/battery</strong></td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
</tr>
<tr>
<td><strong>Levelling range</strong></td>
</tr>
<tr>
<td><strong>3 x spirit vials' scaling</strong></td>
</tr>
<tr>
<td><strong>Flatness of sweep</strong></td>
</tr>
<tr>
<td><strong>Housing material</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
</tbody>
</table>

---

Type of laser | Diode laser, fiber coupled  
---|---
Laser wavelength | 630–680 nm  
Laser Safety Class | Class 2  
Output power | AVERAGE POWER < 0.6 mW. PULSE ENERGY < 20 nJ. PULSE DURATION 10-17 µs.  
Beam diameter | 6 mm [1/4"] at aperture  
Working area, range | 30-metre radius [99’]  
Type of battery | 1 x R14 (D)  
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 | ±0.01 mm/m [±0.01 mils/inch] [2 arc sec.]  
Flatness of sweep, 360° sector | ±0.0081 ±0.0055M mm [±0.03 ±0.02F mils] *  
Flatness of sweep, 90° sector | ±0.0025 ±0.0012M mm [±0.10 ±0.05F mils] *  
* M is the measurement range in meters [m]. F is the measurement range in feet [ft].  
Fine turning of laser head | ±0.1 mm/m [20 arc sec.]  
2 x spirit vials for rotation of head | ±0.5 mm/m  
Housing material | Aluminium  
Dimensions WxHxD: | 142x184x139 mm [5.59x7.24x5.47"]  
Weight | 2760 g [6.1 lbs]  

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**TECHNICAL SPECIFICATIONS**

**Easy-Laser® Product overview**

### Laser transmitter D146 Spindle, Part No. 12-0146

<table>
<thead>
<tr>
<th>Type of laser</th>
<th>Diode laser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser wavelength</td>
<td>630–680 nm</td>
</tr>
<tr>
<td>Laser Safety Class</td>
<td>Class 2</td>
</tr>
<tr>
<td>Output power</td>
<td>AVERAGE POWER &lt; 0.6 mW, PULSE ENERGY &lt; 20 nJ, PULSE DURATION 10-17 µs.</td>
</tr>
<tr>
<td>Beam diameter</td>
<td>3 mm [1/8&quot;] at aperture</td>
</tr>
<tr>
<td>Measurement distance</td>
<td>20 m [65']</td>
</tr>
<tr>
<td>Type of battery</td>
<td>1 x R6 (AA)</td>
</tr>
<tr>
<td>Operating time/battery</td>
<td>approx. 6 hours</td>
</tr>
<tr>
<td>Clamping pin</td>
<td>20 mm, L= 60 mm [2 0.78&quot;, L=2.36&quot;]</td>
</tr>
<tr>
<td>Housing material</td>
<td>Anodized aluminium</td>
</tr>
<tr>
<td>Dimensions (without pin)</td>
<td>Ø 60 mm, L=98 mm [2.36&quot;, L=3.86&quot;]</td>
</tr>
<tr>
<td>Weight (with pin)</td>
<td>470 g [16.5 oz]</td>
</tr>
</tbody>
</table>

---

**Dimensions (mm [inch]):**

- M6 Deep 6 (x4)
- Ø20 (0.78")
- Ø60 (2.362)
- 40 (1.575)
- 135 (5.315)
- 75 (2.953)
- 20 (0.787)

---

---
## Laser transmitter D75, Part No. 12-0075

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of laser</strong></td>
<td>Diode laser</td>
</tr>
<tr>
<td><strong>Laser wavelength</strong></td>
<td>630–680 nm</td>
</tr>
<tr>
<td><strong>Laser Safety Class</strong></td>
<td>Class 2</td>
</tr>
<tr>
<td><strong>Output power</strong></td>
<td>AVERAGE POWER &lt; 0.6 mW, PULSE ENERGY &lt; 20 nJ, PULSE DURATION 10-17 µs.</td>
</tr>
<tr>
<td><strong>Beam diameter</strong></td>
<td>6 mm [1/4&quot;] at aperture</td>
</tr>
<tr>
<td><strong>Working distance</strong></td>
<td>40-metre [130&quot;]</td>
</tr>
<tr>
<td><strong>Type of battery</strong></td>
<td>1 x R14 (C)</td>
</tr>
<tr>
<td><strong>Operating time/battery</strong></td>
<td>approx. 15 hours</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>0–50 °C</td>
</tr>
<tr>
<td><strong>Laser adjustment</strong></td>
<td>D75: 2 ways ±2° (± 35 mm/m)</td>
</tr>
<tr>
<td><strong>Housing material</strong></td>
<td>Aluminium</td>
</tr>
<tr>
<td><strong>Dimensions D75</strong></td>
<td>WxHxD: 60x60x120 mm [2.36x2.36x4.72&quot;]</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>780 g [27.5 oz]</td>
</tr>
</tbody>
</table>

---

**Dimensions Diagram:**

- **M6 Deep 10 (x2):**
  - 10 [0.394]
  - 40 [1.575]
- **M6 Deep 6 (x2):**
  - 29.5 [1.161]
  - 20 [0.787]
  - 30 [1.181]
  - 60 [2.362]
- **Overall Dimensions:**
  - 120 [4.724]
### Laser transmitter D25 with offset hub, Part No. 12-0706

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of laser</td>
<td>Diode laser</td>
</tr>
<tr>
<td>Laser wavelength</td>
<td>630–680 nm</td>
</tr>
<tr>
<td>Laser Safety Class</td>
<td>Class 2</td>
</tr>
<tr>
<td>Output power</td>
<td>AVERAGE POWER &lt; 0.6 mW</td>
</tr>
<tr>
<td></td>
<td>PULSE ENERGY &lt; 20 nJ.</td>
</tr>
<tr>
<td></td>
<td>PULSE DURATION 10-17 μs.</td>
</tr>
<tr>
<td>Beam diameter</td>
<td>6 mm at aperture [1/4&quot;]</td>
</tr>
<tr>
<td>Measurement range</td>
<td>40 m radius [130&quot;]</td>
</tr>
<tr>
<td>Battery type</td>
<td>1 x 1.5 V R14 (C)</td>
</tr>
<tr>
<td>Operating time / battery</td>
<td>&gt;24 hours</td>
</tr>
<tr>
<td>Levelling range</td>
<td>±1.7° (=30 mm/m) in two directions [±30 mils/inch]</td>
</tr>
<tr>
<td>Perpendicularity between beams</td>
<td>2 arc sec. (0.01 mm/m) [0.5 mils/inch]</td>
</tr>
<tr>
<td>Flatness of sweep</td>
<td>±0.01 mm/m [10μg]</td>
</tr>
<tr>
<td>Housing material</td>
<td>Anodised aluminium</td>
</tr>
<tr>
<td>Dimensions (transmitter down)</td>
<td>137x137x142 mm [5.4x5.4x5.6&quot;]</td>
</tr>
<tr>
<td>Dimensions (transmitter up)</td>
<td>137x137x150 mm [5.4x5.4x5.9&quot;]</td>
</tr>
<tr>
<td>Weight</td>
<td>2124 g (battery adaptor excluded) [4.7 lbs]</td>
</tr>
</tbody>
</table>

### Laser transmitter D25, Part No. 12-0594

---

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### Roll alignment kit, Part No. 12-0856

- 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

### Large roll kit, Part No. 12-0885
## TECHNICAL SPECIFICATIONS

**Easy-Laser® Product overview**

<table>
<thead>
<tr>
<th>Wireless communication</th>
<th>BT wireless technology. Contains FCC ID: PHN0946 / IC: 5325A-0946</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of detector</td>
<td>2 axis PSD 20x20 mm [0.78” sq]</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001 mm [0.005 mils]</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±1µm ±1%</td>
</tr>
<tr>
<td>Thermal sensor</td>
<td>± 1°C accuracy</td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP class 67</td>
</tr>
<tr>
<td>Internal battery</td>
<td>Li Ion</td>
</tr>
<tr>
<td>Protection</td>
<td>No influence from ambient light</td>
</tr>
<tr>
<td>Housing material</td>
<td>Anodized aluminium</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Ø45 mm [1.77”], length 100 mm [3.94”]</td>
</tr>
<tr>
<td>Weight</td>
<td>160 g [6.3 oz]</td>
</tr>
</tbody>
</table>

Detector E9, Part No. 12-0759

- **Distance to PSD**: 15.2 [0.597] mm
- **Dimensions**:
  - Ø44 [1.732]
  - Ø30 [1.181]
  - 99.9 [3.933] mm

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## TECHNICAL SPECIFICATIONS

### Angle detector E2, Part No. 12-0845

- **Type of detector**: 2 axis PSD 20x20 mm [0.78” sq]
- **Type of display**: OLED
- **Wireless communication**: BT wireless technology
  - Contains FCC ID: PVH0946 / IC: 5325A-0946
- **Internal battery**: Li Ion
- **Resolution**: 0.01 mm/m (0.001°)
- **Measurement error**: Better than ± 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]

### Technical Diagram

- **Dimensions in mm**
  - 116.4 [4.583]
  - 71.4 [2.811]
  - 10 [0.394]
  - 40 [1.575]
  - 35.6 [1.402]
  - 30.47 [1.199]
  - 60 [2.362]

- **Hole Locations**
  - Ø10.3 THRU (x2)
  - M6 Deep 6 (x2)

---

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## TECHNICAL SPECIFICATIONS

### Easy-Laser® Product overview

**Detector E3, Part No. 12-0799**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless communication</td>
<td>BT wireless technology</td>
</tr>
<tr>
<td></td>
<td>Contains FCC ID: PVH0946 / IC:5325A-0946</td>
</tr>
<tr>
<td>Type of detector</td>
<td>2 axis PSD 30x30 mm [1.18&quot; sq]</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001 mm [0.05 mils]</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±1µm ±1%</td>
</tr>
<tr>
<td>Thermal sensor</td>
<td>± 1° C accuracy</td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP class 65</td>
</tr>
<tr>
<td>Internal battery</td>
<td>Li ion</td>
</tr>
<tr>
<td>Protection</td>
<td>No influence from ambient light</td>
</tr>
<tr>
<td>Housing material</td>
<td>Anodized aluminium</td>
</tr>
<tr>
<td>Dimensions</td>
<td>WxHxD: 69x65x49 mm [2.7x2.6x1.9&quot;]</td>
</tr>
<tr>
<td>Weight</td>
<td>262 g [9.2 oz]</td>
</tr>
</tbody>
</table>

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TECHNICAL SPECIFICATIONS

Easy-Laser® Product overview

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

<table>
<thead>
<tr>
<th>Detector E7H, Part No. 12-0824</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of detector</td>
</tr>
<tr>
<td>Resolution</td>
</tr>
<tr>
<td>Measurement accuracy</td>
</tr>
<tr>
<td>Inclinometers</td>
</tr>
<tr>
<td>Thermal sensors</td>
</tr>
<tr>
<td>Environmental protection</td>
</tr>
<tr>
<td>Operating temperature</td>
</tr>
<tr>
<td>Internal battery</td>
</tr>
<tr>
<td>Housing material</td>
</tr>
<tr>
<td>Dimensions</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

Detector E7, Part No. 12-0752

<table>
<thead>
<tr>
<th>Detector E7, Part No. 12-0752</th>
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<td>Type of detector</td>
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<td>Resolution</td>
</tr>
<tr>
<td>Measurement accuracy</td>
</tr>
<tr>
<td>Inclinometers</td>
</tr>
<tr>
<td>Thermal sensors</td>
</tr>
<tr>
<td>Environmental protection</td>
</tr>
<tr>
<td>Operating temperature</td>
</tr>
<tr>
<td>Internal battery</td>
</tr>
<tr>
<td>Housing material</td>
</tr>
<tr>
<td>Dimensions</td>
</tr>
<tr>
<td>Weight</td>
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</table>

Detector E5, Part No. 12-0509

<table>
<thead>
<tr>
<th>Detector E5, Part No. 12-0509</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of detector</td>
</tr>
<tr>
<td>Dual Detection Technology™</td>
</tr>
<tr>
<td>Resolution</td>
</tr>
<tr>
<td>Measurement accuracy</td>
</tr>
<tr>
<td>Inclinometers</td>
</tr>
<tr>
<td>Thermal sensors</td>
</tr>
<tr>
<td>Environmental protection</td>
</tr>
<tr>
<td>Operating temperature</td>
</tr>
<tr>
<td>Internal battery</td>
</tr>
<tr>
<td>Housing material</td>
</tr>
<tr>
<td>Dimensions</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Measuring unit PSD 20x20 mm. EM: Part No. 12-0434, ES: Part No. 12-0433</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of detector</strong></td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
</tr>
<tr>
<td><strong>Measurement accuracy</strong></td>
</tr>
<tr>
<td><strong>Measurement range</strong></td>
</tr>
<tr>
<td><strong>Type of laser</strong></td>
</tr>
<tr>
<td><strong>Laser wavelength</strong></td>
</tr>
<tr>
<td><strong>Laser class</strong></td>
</tr>
<tr>
<td><strong>Laser output</strong></td>
</tr>
<tr>
<td><strong>Electronic inclinometer</strong></td>
</tr>
<tr>
<td><strong>Thermal sensors</strong></td>
</tr>
<tr>
<td><strong>Environmental protection</strong></td>
</tr>
<tr>
<td><strong>Temperature range</strong></td>
</tr>
<tr>
<td><strong>Internal battery</strong></td>
</tr>
<tr>
<td><strong>Housing material</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>ELM40/ELS40</th>
<th>mm [inch]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless communication</td>
<td>BT wireless technology</td>
<td></td>
</tr>
<tr>
<td>Internal battery</td>
<td>LiPo</td>
<td></td>
</tr>
<tr>
<td>Type of detector</td>
<td>True PSD 30 mm [1.2&quot;]</td>
<td></td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001 mm [0.05 mils]</td>
<td></td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±5µm ±1%</td>
<td></td>
</tr>
<tr>
<td>Measurement range</td>
<td>Up to 10 m [33 feet]</td>
<td></td>
</tr>
<tr>
<td>Type of laser</td>
<td>Diode laser</td>
<td></td>
</tr>
<tr>
<td>Laser wavelength</td>
<td>630–680 nm</td>
<td></td>
</tr>
<tr>
<td>Laser class</td>
<td>Safety class 2</td>
<td></td>
</tr>
<tr>
<td>Laser output</td>
<td>AVERAGE POWER &lt; 0.6 mW, PULSE ENERGY &lt; 8 nJ, PULSE DURATION 4-6 µs.</td>
<td></td>
</tr>
<tr>
<td>Electronic inclinometer</td>
<td>0.1° resolution</td>
<td></td>
</tr>
<tr>
<td>Thermal sensors</td>
<td>-20–60 °C</td>
<td></td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP class 65</td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>-10–50 °C</td>
<td></td>
</tr>
<tr>
<td>Housing material</td>
<td>Anodized aluminium / ABS plastics</td>
<td></td>
</tr>
<tr>
<td>Dimensions WxHxD:</td>
<td>68.6 [2.701]</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>164 g [5.8 oz]</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>ELM20/ELS20</th>
<th>mm [inch]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless communication</td>
<td>BT wireless technology</td>
<td></td>
</tr>
<tr>
<td>Internal battery</td>
<td>LiPo</td>
<td></td>
</tr>
<tr>
<td>Type of detector</td>
<td>True PSD 20 mm [0.79&quot;]</td>
<td></td>
</tr>
<tr>
<td>Resolution</td>
<td>0.01 mm [0.5 mils]</td>
<td></td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±5µm ±1%</td>
<td></td>
</tr>
<tr>
<td>Measurement range</td>
<td>Up to 3 m [10 feet]</td>
<td></td>
</tr>
<tr>
<td>Type of laser</td>
<td>Diode laser</td>
<td></td>
</tr>
<tr>
<td>Laser wavelength</td>
<td>630–680 nm</td>
<td></td>
</tr>
<tr>
<td>Laser class</td>
<td>Safety class 2</td>
<td></td>
</tr>
<tr>
<td>Laser output</td>
<td>AVERAGE POWER &lt; 0.6 mW, PULSE ENERGY &lt; 8 nJ, PULSE DURATION 4-6 µs.</td>
<td></td>
</tr>
<tr>
<td>Electronic inclinometer</td>
<td>0.1° resolution</td>
<td></td>
</tr>
<tr>
<td>Thermal sensors</td>
<td>-20–60 °C</td>
<td></td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP class 65</td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>-10–50 °C</td>
<td></td>
</tr>
<tr>
<td>Housing material</td>
<td>Anodized aluminium / ABS plastics</td>
<td></td>
</tr>
<tr>
<td>Dimensions WxHxD:</td>
<td>41.3 [1.626]</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>176 g [6.2 oz]</td>
<td></td>
</tr>
</tbody>
</table>

---

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**TECHNICAL SPECIFICATIONS**

**Easy-Laser® Product overview**
TECHNICAL SPECIFICATIONS

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

<table>
<thead>
<tr>
<th>Measuring unit PSD 30 mm, XT40-M: Part No. 12-0943, XT40-S: Part No. 12-0944</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of detector</td>
</tr>
<tr>
<td>Communication</td>
</tr>
<tr>
<td>Contains FCC ID: QOQBGM111 / IC:5123A-BGM111</td>
</tr>
<tr>
<td>Battery type</td>
</tr>
<tr>
<td>Operating time</td>
</tr>
<tr>
<td>Resolution</td>
</tr>
<tr>
<td>Measurement accuracy</td>
</tr>
<tr>
<td>Measurement range</td>
</tr>
<tr>
<td>Type of laser</td>
</tr>
<tr>
<td>Laser wavelength</td>
</tr>
<tr>
<td>Laser class</td>
</tr>
<tr>
<td>Laser output</td>
</tr>
<tr>
<td>Electronic inclinometer</td>
</tr>
<tr>
<td>Environmental protection</td>
</tr>
<tr>
<td>Operating temperature</td>
</tr>
<tr>
<td>Storage temperature</td>
</tr>
<tr>
<td>Relative humidity</td>
</tr>
<tr>
<td>OLED display</td>
</tr>
<tr>
<td>Housing material</td>
</tr>
<tr>
<td>Dimensions</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>
Measuring unit XT60-M, XT60-S, Part No. 12-1028 / 12-1029

<table>
<thead>
<tr>
<th>Measuring unit PSD 20x20 mm. XT60-M: Part No. 12-1028, XT60-S: Part No. 12-1029</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of detector</strong></td>
</tr>
<tr>
<td><strong>Communication</strong></td>
</tr>
<tr>
<td><strong>Battery type</strong></td>
</tr>
<tr>
<td><strong>Operating time</strong></td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
</tr>
<tr>
<td><strong>Measurement accuracy</strong></td>
</tr>
<tr>
<td><strong>Measurement range</strong></td>
</tr>
<tr>
<td><strong>Type of laser</strong></td>
</tr>
<tr>
<td><strong>Laser wavelength</strong></td>
</tr>
<tr>
<td><strong>Laser class</strong></td>
</tr>
<tr>
<td><strong>Laser output</strong></td>
</tr>
<tr>
<td><strong>Electronic inclinometer</strong></td>
</tr>
<tr>
<td><strong>Environmental protection</strong></td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
</tr>
<tr>
<td><strong>OLED display</strong></td>
</tr>
<tr>
<td><strong>Housing material</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
</tbody>
</table>

Measuring unit XT70-M, XT70-S, Part No. 12-1045 / 12-1046

<table>
<thead>
<tr>
<th>Measuring unit PSD 20x20 mm. XT70-M: Part No. 12-1045, XT70-S: Part No. 12-1046</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of detector</strong></td>
</tr>
<tr>
<td><strong>Communication</strong></td>
</tr>
<tr>
<td><strong>Battery type</strong></td>
</tr>
<tr>
<td><strong>Operating time</strong></td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
</tr>
<tr>
<td><strong>Measurement accuracy</strong></td>
</tr>
<tr>
<td><strong>Measurement range</strong></td>
</tr>
<tr>
<td><strong>Type of laser</strong></td>
</tr>
<tr>
<td><strong>Laser wavelength</strong></td>
</tr>
<tr>
<td><strong>Laser class</strong></td>
</tr>
<tr>
<td><strong>Laser output</strong></td>
</tr>
<tr>
<td><strong>Electronic inclinometer</strong></td>
</tr>
<tr>
<td><strong>Environmental protection</strong></td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
</tr>
<tr>
<td><strong>OLED display</strong></td>
</tr>
<tr>
<td><strong>Housing material</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
</tbody>
</table>
# TECHNICAL SPECIFICATIONS

## Easy-Laser® Product overview

**Measuring unit XT50-M, XT50-S, Part No. 12-1026 / 12-1027**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring unit PSD 20x20 mm. XT50-M: Part No. 12-1026, XT50-S: Part No. 12-1027</td>
<td>mm [inch]</td>
</tr>
<tr>
<td>Type of detector</td>
<td>TruePSD 1 axis 20x20 mm [0.79x0.79&quot;]</td>
</tr>
<tr>
<td>Communication</td>
<td>BT wireless technology</td>
</tr>
<tr>
<td>Battery type</td>
<td>Heavy duty Li Ion chargeable</td>
</tr>
<tr>
<td>Operating time</td>
<td>Up to 20 h continuously</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001 mm [0.05 mils]</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±1μm ±1%</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Up to 20 m [66 feet]</td>
</tr>
<tr>
<td>Type of laser</td>
<td>Diode laser</td>
</tr>
<tr>
<td>Laser wavelength</td>
<td>630–680 nm</td>
</tr>
<tr>
<td>Laser wavelength</td>
<td>630–680 nm</td>
</tr>
<tr>
<td>Battery type</td>
<td>Heavy duty Li Ion chargeable</td>
</tr>
<tr>
<td>Operating time</td>
<td>Up to 20 h continuously</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001 mm [0.05 mils]</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±1μm ±1%</td>
</tr>
<tr>
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</tr>
<tr>
<td>Type of laser</td>
<td>Diode laser</td>
</tr>
<tr>
<td>Laser wavelength</td>
<td>630–680 nm</td>
</tr>
<tr>
<td>Battery type</td>
<td>Heavy duty Li Ion chargeable</td>
</tr>
<tr>
<td>Operating time</td>
<td>Up to 20 h continuously</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001 mm [0.05 mils]</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±1μm ±1%</td>
</tr>
<tr>
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</tr>
<tr>
<td>Type of laser</td>
<td>Diode laser</td>
</tr>
<tr>
<td>Laser wavelength</td>
<td>630–680 nm</td>
</tr>
<tr>
<td>Battery type</td>
<td>Heavy duty Li Ion chargeable</td>
</tr>
<tr>
<td>Operating time</td>
<td>Up to 20 h continuously</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001 mm [0.05 mils]</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±1μm ±1%</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Up to 20 m [66 feet]</td>
</tr>
<tr>
<td>Type of laser</td>
<td>Diode laser</td>
</tr>
<tr>
<td>Laser wavelength</td>
<td>630–680 nm</td>
</tr>
<tr>
<td>Battery type</td>
<td>Heavy duty Li Ion chargeable</td>
</tr>
<tr>
<td>Operating time</td>
<td>Up to 20 h continuously</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001 mm [0.05 mils]</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±1μm ±1%</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Up to 20 m [66 feet]</td>
</tr>
<tr>
<td>Type of laser</td>
<td>Diode laser</td>
</tr>
<tr>
<td>Laser wavelength</td>
<td>630–680 nm</td>
</tr>
</tbody>
</table>

**Easy-Laser® XT50 measuring units are approved in accordance with the latest ATEX directive.**

EX certificate number: Presafe 17 ATEX 10552X, IECEx PRE 17.0049X

ATEX code: II 2 G

EX classification: Ex ib op ia IIC T4 Gb, -10°C ≤ Ta ≤ +50°C

II=Indicates that the instrument is approved for all areas except mines

2=Unit category. Intrinsically safe equipment for zones 1 and 2 (likely occurrence of explosive atmosphere)

G=Indicates atmosphere: Gas, Vapours, Mists

ib=Type of protection from an explosion

IIC=Explosion group

T4=Temperature class
# TECHNICAL SPECIFICATIONS

E- and XT-series wireless detector for BTA, Part No. 12-1054

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheave diameters</td>
<td>&gt;60 mm [2.5&quot;]</td>
</tr>
<tr>
<td>Measurement distance</td>
<td>Up to 3 m [9.8’] between Transmitter and Detector</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Axial offset: ±3 mm [0.12”], Angular value: ±8°</td>
</tr>
<tr>
<td>Displayed resolution</td>
<td>Offset: 0.1&quot;, Angle: 0.01&quot;</td>
</tr>
<tr>
<td>Display type</td>
<td>Yellow OLED 96x96 pixels</td>
</tr>
<tr>
<td>Connection</td>
<td>BT wireless technology Contains FCC ID: QOQBT121 / IC: 5123A-BGTBT121</td>
</tr>
<tr>
<td>Battery type</td>
<td>Li Ion</td>
</tr>
<tr>
<td>Battery operation</td>
<td>5 hours continuously</td>
</tr>
<tr>
<td>Material</td>
<td>ABS plastics / Anodized aluminium</td>
</tr>
<tr>
<td>Dimensions</td>
<td>WxHxD: 95x95x36 mm [3.7x3.7x1.4”]</td>
</tr>
<tr>
<td>Weight</td>
<td>190 g [6.7 oz]</td>
</tr>
</tbody>
</table>

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## Angular prism D46, Part No. 12-0046

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deflection</td>
<td>± 0.01 mm/m (2 arc sec.)</td>
</tr>
<tr>
<td>Turning range</td>
<td>360°</td>
</tr>
<tr>
<td>Fine turning</td>
<td>0.1 mm/m (20 arc sec.)</td>
</tr>
<tr>
<td>Sliding range</td>
<td>± 50 mm (2&quot;)</td>
</tr>
<tr>
<td>Horizontal range</td>
<td>± 5 mm (3/16&quot;)</td>
</tr>
<tr>
<td>Vertical range</td>
<td>± 5 mm (3/16&quot;)</td>
</tr>
<tr>
<td>Tilling range</td>
<td>± 2°</td>
</tr>
<tr>
<td>Aperture size</td>
<td>Diameter 20 mm (3/4&quot;)</td>
</tr>
<tr>
<td>Vials scaling</td>
<td>5 mm/m (0.3&quot;)</td>
</tr>
<tr>
<td>Threads</td>
<td>5/8 UNC and M6</td>
</tr>
<tr>
<td>Housing material</td>
<td>Anodized aluminium, stainless steel</td>
</tr>
<tr>
<td>Weight</td>
<td>1800 g (4 lbs)</td>
</tr>
</tbody>
</table>

---

**Angular prism D46, Part No. 12-0046 Diagram**

- M6 Deep 6 (x2)
- 5/8-11 UNC - 2B Deep 20
- ∅ 6.1 THRU (x2)
- 40 [1.575]
- 79 [3.110]
- 107.26 [4.225]
- 12 [0.472]
- 242.5 [9.547]
- 166.18 [6.543]
TECHNICAL SPECIFICATIONS

Easy-Laser® Product overview

Magnet, Part No. 12-0013

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

Magnet base with turnable head, Part No. 12-1133

Sliding bracket, Part No. 12-1010

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<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-0842</td>
<td>Measuring tape, 5m [16.4’]</td>
<td>71</td>
</tr>
<tr>
<td>03-0822</td>
<td>USB A – USB B cable</td>
<td>67</td>
</tr>
<tr>
<td>03-0824</td>
<td>Measuring tape, 3 m [9.8’]</td>
<td>71</td>
</tr>
<tr>
<td>03-0889</td>
<td>Charger cable, USA</td>
<td>67</td>
</tr>
<tr>
<td>03-0892</td>
<td>Charger cable, EUR</td>
<td>67</td>
</tr>
<tr>
<td>03-0879</td>
<td>Cleaning cloth</td>
<td>71</td>
</tr>
<tr>
<td>03-0857</td>
<td>Measuring tape, 5 m [16.4’]</td>
<td>71</td>
</tr>
<tr>
<td>03-0839</td>
<td>Locking screw</td>
<td>74</td>
</tr>
<tr>
<td>03-0842</td>
<td>Nut (for chain)</td>
<td>73</td>
</tr>
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