SHAFT ALIGNMENT

Professional measurement and alignment system for rotating machines
A PRECISION CHOICE
is also a safe choice!

LONG EXPERIENCE
Easy-Laser® measurement systems have been developed from more than twenty-five years experience of solving measurement problems for the industry. This is long enough to understand problems out in the real world. At the same time, we are young enough to see opportunities and solutions with fresh eyes. Our development department consists of designers who specialise in mechanics, electronics, optics and programming. Taking full control from the initial idea to the finished product and working closely with our users, we are able to create user-friendly measurement systems.

LARGEST SAVINGS
Easy-Laser® measurement systems are extremely flexible 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. It is cost-effective. Your production capacity increases by being able to measure faster and with greater reliability. Easy-Laser® helps you remedy production errors quickly and easily. This can save you large amounts of money, and your investment can even be repaid within a few months.

ONE SYSTEM, MANY POSSIBILITIES
Easy-Laser® offers what is probably the most competent and cost-effective measuring system for rotating machines on the market! Using a single instrument, you now have the potential to trouble-shoot and prevent wear and breakdowns in your machines. Easy-Laser® E710 allows:

- SHAFT ALIGNMENT
- SHEAVE/PULLEY ALIGNMENT
- VIBRATION MEASUREMENT
- TWIST MEASUREMENT OF BASES
- STRAIGHTNESS MEASUREMENT
- BEARING PLAY CHECKS

OUR BEST ARGUMENTS
• The measurement system for all stages of machine set-up.
• Easy to learn and to use.
• 2 year warranty gives assurance.
• Fast service and support. 48-hours Express service if necessary.
• Ergonomic design.
• Low overall costs during the entire lifecycle of the product, for example servicing, accessories, etc.
• Endurio™ Power management system ensures that you never have to stop in the middle of a measurement because the battery has run out.
• Expandable / Adaptable
A range of accessories means that you can adapt the measurement system to your needs, now and in the future.
SIMPLE AND EFFECTIVE

Easy to use = Fast and efficient!

Easy-Laser® is used to align generators and gearboxes in wind turbines of a number of sizes and makes. Special brackets are available (accessories) for alignment with locked rotors, which increases the safety for the operator.

Engines, gearboxes and propeller shafts on ships are aligned using Easy-Laser® system. Thanks to flexible brackets you can install the equipment in the most appropriate place; shaft, coupling or flywheel.

Easy-Laser® is used to align pumps and motors for all types of industries and installations. Correctly set-up and aligned machines are a requirement for achieving optimum service life and minimal energy consumption.

NEW FEATURE! NOW WITH BARCODE READER

The barcode reader is used to enter the machine dimensions with literally one swipe. Then it is just a question of continuing the measurement procedure. It couldn’t be quicker and easier!

Measurement and alignment should be easy! That is the fundamental philosophy behind our measurement systems. When we talk about simplicity we mean several things, for example, simple to place or mount the measurement equipment on the measurement object, easy to perform the measurement and easy to interpret the measurement result. Simple to use = quick and easy!
SHAFT ALIGNMENT

HORIZONTAL MACHINES
Horizontally coupled machines often consist of a pump and motor, but there can also be other types of machine such as a gearboxes and compressors. Regardless of what the machine is it is easy to measure and align with Easy-Laser®. The measuring units (M and S) are mounted on each side of the coupling with cable or wireless communication to the display unit. Then follow the step-by-step instructions on screen (see below).

1. Enter the distances between measuring units and the machine feet. If you enter the coupling diameter you can also get the result as gap/sag.

2. Take the measurement values in three positions with as little as 20° between. It is clearly visible on the display when the laser beam hits the detector.

3. The live values are used to adjust the machine. For clarity the adjustment is displayed both graphically and numerically. Horizontal and Vertical directions are shown at the same time.

A. Information field. States what you must do at each stage of the measurement. Also displays Bluetooth® connection, warning symbols etc.
B. You can start from a previous measurement and so avoid re-entering the dimensions, the barcode reader is the fastest method.
C. The detector surface is shown on the screen and functions as an electronic target for the laser beams.
D. 20° marking. The S unit position on the shaft is shown. You can also choose to show the M unit when you align uncoupled machines.
E. Shims values for front and rear pairs of feet. Offset and angular values are colour coded in order to determine the result more quickly: red=outside tolerance, green=inside tolerance.
F. The measuring unit position on the shaft is shown.
G. Horizontal adjustment values. Offset and angular values are colour coded.

SOFT FOOT CHECK
Start the alignment work by performing a soft foot check to ensure the machine is resting evenly on all its feet. This is necessary for a reliable alignment. The program shows which foot (feet) should be corrected. After the soft foot check you can go directly to the alignment program with all of the machine’s distances saved.

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EASYTURN™ FUNCTION
With the EasyTurn™ function you can start measurement anywhere on the turn. Turn the shafts with the measuring units to three positions in any direction with as little as 20° between to register the measurement value. Measurement is complete!

Start measurement at any position!

THERMAL GROWTH COMPENSATION
In many cases, the machines (for example a pump and motor) expand considerably from a cold to a hot state (operating temperature). The Thermal Growth Compensation function allows the measurement system to calculate the correct shims and adjustment values even in such cases. The compensation values for the machines are normally supplied by the manufacturers.
TOLERANCE CHECK
Measurement results can be checked against pre-defined tolerance tables or values you determine yourself. In this way, you can see immediately whether the alignment is within the approved tolerances. This means the times for alignment are shortened considerably.

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VERTICAL/FLANGE-MOUNTED MACHINES
Alignment of vertical and flange-mounted machines. Shows centre offset, angular error and shim value at each bolt.

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Alignment of vertical and flange-mounted machines. Shows centre offset, angular error and shim value at each bolt.

CARDAN/OFFSET-MOUNTED MACHINES
Alignment of cardan/offset mounted machines. (Accessory Cardan fixture, Part No. 12-0615 is required.)

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Alignment of cardan/offset mounted machines. (Accessory Cardan fixture, Part No. 12-0615 is required.)

REFERENCE FOOT LOCKING
This function allows you to lock any pair of feet on the machine. This gives great freedom when aligning base-bound or bolt-bound machines.

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MEASUREMENT VALUE FILTER
Advanced electronic filter function that can be used for a reliable measurement result even in a very poor measurement environment, for example where there is air turbulence from open entrances or vibrations from adjacent machines.

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LIVE-ANY-ANGLE 360°
This function allows adjustment of the machines live with the measuring units positioned anywhere around the shaft. Good for when machine parts prevent normal adjuster positioning.

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THREE PAIRS OF FEET / PAIR OF FEET IN FRONT
The software can handle machine design of all types: two pairs of feet, three pairs of feet, pair of feet before the coupling etc.

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The software can handle machine design of all types: two pairs of feet, three pairs of feet, pair of feet before the coupling etc.
SHEAVE/PULLEY ALIGNMENT

Using the system you can align sheaves and pulleys with digital precision. Adjustment of the machines is displayed in real time on the screen, with readings for angle and axial displacement in both the vertical and horizontal axes, as well as an adjustment value for the front or rear foot pair. The result can be documented as normal. (Requires the E170 BTA accessory.)

VIBRATION MEASUREMENT AND BEARING CONDITION

You can measure vibration levels (mm/s, inch/s) and bearing condition (g-value). The program guides the user through the points to measure on the machine: vertical, horizontal and axial. The result can be documented as normal. (Requires the E285 Vibrometer probe accessory.)

CHECKING BEARING PLAY

All our measurement systems come with the extremely useful Values program. The program can be used e.g. when one wants to measure as with dial gauges and to check bearing play. With the standard equipment and completely normal set up on the machine!

FLATNESS MEASUREMENT OF BASES

With the value program you can, in principle, measure any type of geometry, for example flatness and twist of the base. If you add a separate laser transmitter such as Easy-Laser® D22 you extend the area of application even more. Many Easy-Laser® users therefore end up using the measurement system in more places in their operation than they first intended!

A MEASURING SYSTEM FOR ALL STAGES OF MACHINE SET-UP

With Easy-Laser® the same system is used to reassure yourself that the machines have optimal conditions for problem-free operation, without risk of unplanned downtime etc. Carry out the following:

• Check the base
• Check vibration level
• Check bearing play
• Check soft foot
• Measure the machine
• Align the machine
• Document the results
DOCUMENTATION

CREATE A PDF REPORT DIRECTLY
When measurement is complete it is possible to generate a PDF report containing graphs and measurement data directly in the measurement system’s display unit. All the information about the measurement object is documented, and you can add your company’s logo and address details if you so wish.

SAVING IN THE BUILT-IN MEMORY
You can, of course, save all measurements in the display unit’s internal memory.

SAVE TO USB MEMORY
You can easily save desired measurements on your USB memory. This enables you to take it to your computer to print reports whilst leaving the measurement system in place.

CONNECT TO YOUR COMPUTER
The display unit is connected to the computer via the USB port. It then appears on the desktop as a USB Mass Storage Device which you can easily transfer files to and from.

BARCODE READER
The barcode reader is used to enter the machine data before measurement. At the first measurement of the machine apply the adhesive bar code label. Next time the machine is checked the dimensions are read in directly. Also any compensation values. This makes it easier for new operators who don’t need to search through long lists of machine templates with descriptions that are difficult to understand. Quite simply, easier to do correctly!

MAJOR BENEFITS OF ALIGNMENT
You have much to gain in both time and money through having your machines aligned to the correct tolerances. An investment in a laser based alignment system such as Easy-Laser® rapidly pays for itself through lower costs for replacement parts, less downtime and smaller electricity bills. Correctly aligned machines reduce the risk of expensive breakdowns and downtime. The benefits of alignment are many:

- Increased availability and productivity of the machine = assured production
- Increased life of bearings and seals = less use of replacement parts
- Complete seals = less leakage and better working environment
- Optimally utilised lubricant = less risk of overheating and secondary damage
- Less lubricant leakage = less lubricant consumption
- Reduced friction = lower energy consumption
- Less vibration = reduced noise level
- Less risk of serious breakdowns = safer working environment

ADVANTAGES OF LASERS
There are many advantages to aligning using lasers compared to more traditional methods such as using dial gauges:

- Easy to learn and to use
- Stable brackets without play and slack
- Much faster to mount
- Automatically calculated shims/adjustment values
- Simple tolerance check
- Simple compensation for thermal expansion
- No risk of read off errors
- Possible to document the result

Other old methods such as rulers and feeler gauges are not sufficiently accurate for today’s modern machines. With a laser based alignment system checks are easy and fast to carry out. If you choose Easy-Laser® you also have a measurement system that has many more uses in the workplace than merely aligning shafts.

*The diagram is an estimate of the savings/costs relationship and is naturally dependent on the industry.
**SYSTEM PARTS**

**DISPLAY UNIT**
The new display unit for the E-series enables you to work more efficiently and for longer than ever before thanks to several innovative solutions. It is also ergonomically designed with easy-to-grip rubber cladding and robust construction.

**NEVER LOSE POWER!**
Easy-Laser® E710 is equipped with our Endurio™ Power management system. This ensures that you never have to stop in the middle of a measurement because the battery has run out. If the internal battery’s charge level starts to drop, simply insert the batteries into the integrated battery compartment and continue measuring. This eliminates the need to look for a wall socket, and means you do not have to wait a few hours for the unit to charge before starting work again. Shouldn’t it always have been this way? The unique Endurio™ system also checks all the electronics so that the unit consumes as little power as possible in each position.

**ERGONOMIC DESIGN**
The display unit has a thin, easy-to-grip and rubber coated profile that ensures a secure grip. It has large well-spaced buttons that give clear feedback when pushed. In addition, the two Enter buttons make the system suitable for both right and left-handed users. The display screen has clear graphics that guide you through the measurement process.

**PERSONAL SETTINGS**
You can create a user profile where you can save your personal settings. You can also have different settings for different types of measurements. It makes work faster!

**LANGUAGE SELECTION**
You can choose the language that you want to appear on screen. English, German, French, Spanish, Portuguese, Swedish, Finnish, Russian and Chinese are available. More languages to follow.

**UPGRADING**
If you wish to expand functionality in the future, the software in the display unit can be upgraded via the internet or by connecting a USB memory containing the new software. In this way you will also have access to the measurement programmes that we develop for new purposes in the future.
MEASURING UNITS
The measuring units have large 20 mm [0.78"
 sq] detector surfaces (PSD for the greatest
 accuracy) which allows the possibility of
 measuring at a distance of up to 20 metres
 [66 feet]. The substantial and rigid design of
 aluminium and stainless steel guarantees sta-
 ble measurement values and reliable align-
 ment with the greatest precision in even the
 toughest of environments. The measuring
 units are also water and dust proof to classes
 IP66 and IP67. Connect to the display unit via
 cable or wirelessly. Both cable and wireless
 units are connected quickly using Push/Pull
 connections, no screwing required.

INCLINOMETERS IN BOTH UNITS
With electronic inclinometers in both meas-
 uring units the system knows exactly how
 they are positioned. This also makes it very
 easy to align uncoupled shafts.

ELECTRONIC TARGETS
Thanks to the two axis detectors you have
 access to electronic targets, that is you can
 see on the screen where the laser beams hit.

FLEXIBLE MOUNTING OPTIONS
The thinking behind the rigid and compact
 design, is that it will simplify positioning and
 provide varying installation methods. You can
 measure all types of rotating machine, large
 and small, equally well, regardless of shaft di-
 ameter. The units also have two extra screw
 holes for additional mounting options.

TWO LASERS, TWO PSD
The so called reversed measurement method
 with two laser beams and two PSD makes it
 possible to also measure very incorrectly set
 machines. This is particularly good for new
 installations, where the machines are not yet
 in the correct position.

INCLINOMETERS IN BOTH UNITS

STANDARD BRACKETS INCLUDED IN THE SYSTEM

SHAFT BRACKET WITH CHAIN
For attachment around shaft or coupling.
 Suitable for diameters of 20–450 mm
 [0.8”–17.7”] with standard chains.

MAGNET BASE
For direct attachment to shaft or coupling.
 Very strong and stable. Three magnetic
 sides give flexible positioning possibilities.

OFFSET BRACKET
Allow axial displacement between measur-
 ing units in order to be able to rotate past
 projecting machine parts and connectors.
ACCESSORIES AND EXPANDABILITY

A FUTURE PROOF CHOICE
Easy-Laser® measurement systems are already extremely flexible 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. It is cost-effective. We have standardised measurements between the mounting holes in the different parts, and often there are mounting holes on several sides to facilitate mounting on the machine. Experience tells us that this is very much appreciated. A further advantage is that you can use one of the measuring units separately as a detector with, for example, our geometric laser D22. This expands the areas of application of the measurement system. Easy-Laser® is a system that is complete in its full meaning!

MAGNETIC BRACKET
Bracket for axial mounting on flange or shaft end. With four super magnets. Part No. 12-0413

THIN SHAFT BRACKET
This is used, for example, when there is limited space between the coupling and machine. Thin chain and lock tools included. Width: 12 mm [0.47”]. Part No. 12-0412

SLIDING BRACKET
Used when the shafts cannot be rotated. The spherical feet give a stable position against the shaft. Mounted with standard chains. Part No. 12-0039

CARDAN BRACKET
For alignment of Cardan/offset mounted machines. Part No. 12-0615

EXTENSION RODS
Screwed together. Extendable theoretically “unlimited”.
Length 60 mm [2.36”], (4 x) Part No. 12-0059
Length 120 mm [4.72”], (8 x) Part No. 12-0324
Length 240 mm [9.44”], (4 x) Part No. 12-0060

EXTENSION CHAINS
Makes it possible to align very large shafts. Length: 900 mm [35.4”], (2 x) Part No. 12-0128
**ADDITIONAL POWER SUPPLY**

Chargeable battery pack which gives extra operating time. With or without built-in Bluetooth® unit. Part No. 12-0618 or 12-0617

**CHARGER 12–36 V**

To charge the display unit via 12–36 V socket, for example in a car. Part No. 12-0585

**EXTENSION CABLES**

Length 5 m [16.4’], Part No. 12-0108
Length 10 m [32.8’], Part No. 12-0180

**PROTECTIVE COVER**

Protective case for display unit. With shoulder strap. Part No. 01-1379

**BARCODE READER**

Barcode reader for registration of machine data. Connected in the USB port. Part No. 12-0619

**VGA KIT**

Makes it possible to show display unit screen image with a projector, for example in a training context. Must be factory installed on order. Part No. 12-0573

**TARGET**

Simplifies the rough alignment at very long distance and large alignment fault. Part No. 12-0588

**SUN PROTECTION FOR PSD**

To screen against extremely strong ambient light. Part No. 12-0587

**LASER TRANSMITTER WITH SWEEP FUNCTION**

Laser transmitter D22 can be used to measure flatness, straightness, squareness and parallelism. The laser beam can sweep 360° (1) with a measurement distance of up to 40 metres [130’] in radius. The laser beam can be angled 90° to the sweep (2), within 0.01mm/m [0.5 mils/thou]. Part No. 12-0022.

**BELT ALIGNMENT**

E170 BTA. Laser transmitter and detector for alignment of belt transmissions. For connection to display unit, one of the red cables of system E710 is used. Part No. 12-0659

**VIBRATION MEASUREMENT**

E285 Vibrometer probe. For measuring vibration and bearing condition. For connection to display unit, one of the red cables of system E710 is used. Part No. 12-0656
## TECHNICAL DATA

### System

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative humidity</td>
<td>10–96%</td>
</tr>
<tr>
<td>Weight (complete system)</td>
<td>10 kg [22 lbs]</td>
</tr>
<tr>
<td>Carrying case</td>
<td>WxDxH: 500x400x200 mm [19.7”x15.7”x7.9”] Drop tested (3 m/10 feet), Dust and water proof.</td>
</tr>
</tbody>
</table>

### Measuring units M / S

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</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 [0.05 mils]</td>
</tr>
<tr>
<td>Measuring errors</td>
<td>±1% +1 digit</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>635–670 nm</td>
</tr>
<tr>
<td>Laser class</td>
<td>Safety class II</td>
</tr>
<tr>
<td>Laser output</td>
<td>&lt;1 mW</td>
</tr>
<tr>
<td>Electronic inclinometer</td>
<td>0,1° resolution</td>
</tr>
<tr>
<td>Thermal sensors</td>
<td>± 1 ° C accuracy</td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP class 66 and 67</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-10–50 °C</td>
</tr>
<tr>
<td>Internal battery</td>
<td>LiPo</td>
</tr>
<tr>
<td>Housing material</td>
<td>Anodized aluminium</td>
</tr>
<tr>
<td>Dimensions</td>
<td>WxDxH: 60x60x42 mm [2.36”x2.36”x1.65”]</td>
</tr>
<tr>
<td>Weight</td>
<td>202 g [7.1 oz]</td>
</tr>
</tbody>
</table>

### Display unit

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of display/size</td>
<td>VGA 5.7” colour screen, backlit LED</td>
</tr>
<tr>
<td>Displayed resolution</td>
<td>0.001 mm / 0.05 thou</td>
</tr>
<tr>
<td>Power management</td>
<td>Endurio™ system for unbroken power supply</td>
</tr>
<tr>
<td>Internal battery (fixed)</td>
<td>Heavy duty Li ion chargeable</td>
</tr>
<tr>
<td>Battery compartment</td>
<td>For 4 x R14 (C)</td>
</tr>
<tr>
<td>Operating time</td>
<td>Approx. 30 hours (at typical user cycle)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-10–50 °C</td>
</tr>
<tr>
<td>Connections</td>
<td>USB A, USB B, External, Easy-Laser® units, Network</td>
</tr>
<tr>
<td>Wireless communication</td>
<td>Class I Bluetooth® wireless technology</td>
</tr>
<tr>
<td>Internal memory</td>
<td>&gt;100 000 measurements can be saved</td>
</tr>
<tr>
<td>Help functions</td>
<td>Calculator, Unit converter</td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP class 65</td>
</tr>
<tr>
<td>Housing material</td>
<td>PC/ABS + TPE</td>
</tr>
<tr>
<td>Dimensions</td>
<td>WxDxH: 250x175x63 mm [9.8”x6.9”x2.5”]</td>
</tr>
<tr>
<td>Weight (without batteries)</td>
<td>1080 g [2.4 lbs]</td>
</tr>
</tbody>
</table>

### Bluetooth® wireless units

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless communication</td>
<td>Class I Bluetooth® wireless technology</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-10–50 °C</td>
</tr>
<tr>
<td>Environmental protection</td>
<td>IP class 66 and 67</td>
</tr>
<tr>
<td>Housing material</td>
<td>ABS</td>
</tr>
<tr>
<td>Dimensions</td>
<td>53x32x24 mm [2.1”x1.2”x0.9”]</td>
</tr>
<tr>
<td>Weight</td>
<td>25 g [0.9 oz]</td>
</tr>
</tbody>
</table>

### Cables

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>System cables</td>
<td>Length 2 m [78.7”], with Push/pull connectors.</td>
</tr>
<tr>
<td>USB cable</td>
<td>Length 1.8 m [70.8”]</td>
</tr>
</tbody>
</table>

### Brackets etc.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft brackets Type</td>
<td>V-fixture for chain, width 18 mm [0.7”].</td>
</tr>
<tr>
<td>Shaft diameters</td>
<td>20–450 mm [0.8”–17.7”]</td>
</tr>
<tr>
<td>Material: anodised aluminium</td>
<td></td>
</tr>
<tr>
<td>Magnet bases</td>
<td>Holding strength: 800 N</td>
</tr>
<tr>
<td>Offset brackets Displacement</td>
<td>32 or 16 mm [1.2” or 0.6”]</td>
</tr>
<tr>
<td>Rods</td>
<td>Length: 120 mm, 60 mm [4.72”, 2.36”] (extendable)</td>
</tr>
<tr>
<td>Material: Stainless steel</td>
<td></td>
</tr>
</tbody>
</table>

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System Easy-Laser® E710 Shaft, Part No. 12-0440

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A complete system contains

1. Measuring unit M
2. Measuring unit S
3. Display unit
4. Bluetooth® units
5. Cables 2 m
6. Shaft brackets with chains
7. Extension chains
8. Magnet bases
9. Offset brackets
10. Rods 120 mm
11. Rods 60 mm
13. Quick reference manual
14. Measuring tape 3 m
15. USB memory
16. USB cable
17. Charger (100–240 V AC)
18. Tool box
19. Shoulder strap for display unit
20. Optical cleaning cloth
21. CD with documentation
22. Carrying case

Easy-Laser® is manufactured by Damalini AB, Åbäcksgatan 6B, SE-431 67 Mölndal, Sweden
Tel +46 (0)31 708 63 50, Fax +46 (0)31 708 63 50
E-mail: info@damalini.se, www.damalini.com
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Easy-Laser® is a registered trademark of Damalini AB.
Other trademarks belong to the relevant copyright holder.
This product complies with: SS-EN60825-1-1994, 21 CFR 1040.10 and 1040.11

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**ISO9001 CERTIFIED**
05-0476 Rev2

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**2-YEAR WARRANTY**

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**Powered by Endurio™**

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**Bluetooth®**

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**Easy-Laser® E710 Shaft**

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**CE**

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**ISO9001 CERTIFIED**
05-0476 Rev2