EASY-LASER®

MEASUREMENT AND ALIGNMENT SYSTEMS

PRODUCT CATALOGUE

22

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www.easylaser.com

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Note!

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.

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 measure flatness of flanges. Similar applications can be e.g. slewin bearings. You can see the result as a true 3D image in the display u directly after measuring. Then evaluate the result easily with differ calculation settings, for example three point reference, best fit or a positive. This can also be done directly on site without having to st 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 rotatin head. This is how it works in brief: The laser beam from the transm ter rotates constantly and creates a reference plane over the entir measurement object. Measurements are performed quicker as yo not have to align the beam for each new measurement position. Y place the detector at the desired measurement points and registe reading by a push of a button. In principle, one person can perforn the measurement themselves. It is then possible to generate a PD

|D| |D550| |E| |XT|: Indicates which product range the part is compatible with. If no letter is present, the part fits all ranges.
|XT*| |D*| |E*|: An asterisk * means bracket will need an adaptor to fit. Or XT App is needed also for D/E users.
Note: If there are other compatibility limitations these are mentioned for each product. For more information see next page.

| E |

Detector E5
Part No: 12-0509
Description: Detector for the E [0.79”x0.79”]. Built-in 360° ele making it possible to connect t ly mounted on rods, but has m thanks to threads on two sides
Note: With Dual Detection Tec fixed point laser and spinning l

Main product picture [1]

Additional pictures [1]
Can show the system/product in an application, a product function or another view.

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

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

STRAIGHTFORWARD *BY ALL MEASURES*

EASY-LASER®

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.

CE

ISO 9001 CERTIFIED

3 YEAR WARRANTY

OUR SERVICE CONCEPT

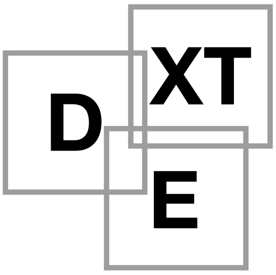
Our service department usually takes care of servicing or calibration within seven working days. All this makes Easy-Laser® a safer working partner for your operation. As an extra service, we provide a 48 hour express service for shaft alignment systems when accidents occur and time is of the essence.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

GLOBAL SUPPORT

48™ EXPRESS SERVICE

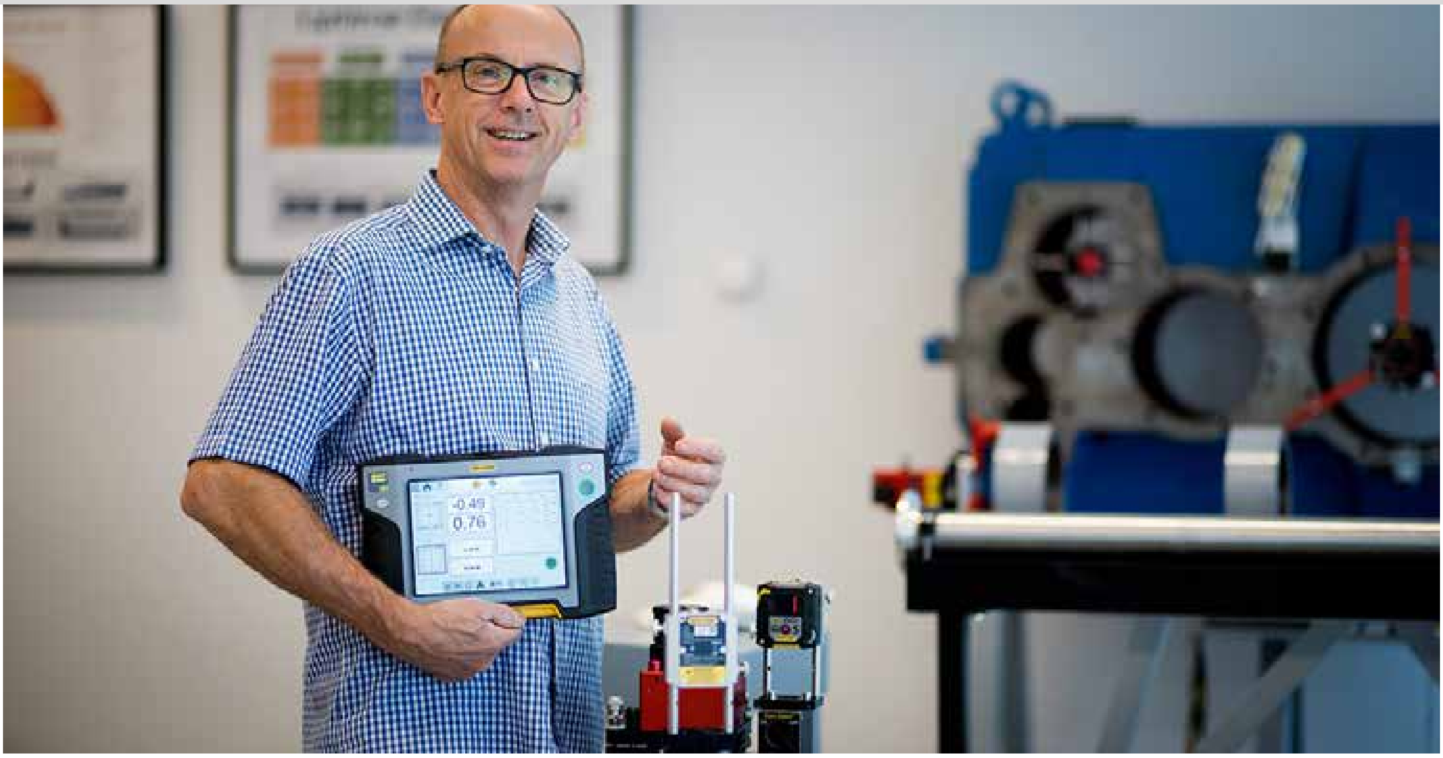
COMPATIBILITY BETWEEN *D*, *E* AND *XT*

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. The XT laser transmitters also communicate with the XT Alignment App, which for example is required when calibrating and setting up the unit before measuring.
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 **XT**550Ex (rod C–C 56 mm).

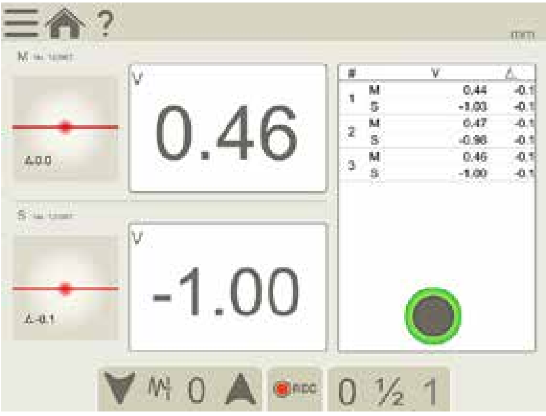
Easy-Laser® is manufactured by Easy-Laser AB, Alfagatan 6, 431 49 Mölndal, Sweden.
Phone +46 31 708 63 00, Fax +46 31 708 63 50, email: info@easylaser.com, www.easylaser.com.



Measure and align anything you can think of!

All Easy-Laser alignment systems come with the ”Values” program. In principle, that has always been the case! And there is a simple explanation as to why.

Jan Oscander, Sales Engineer at Easy-Laser, is a big fan of the Values program. This is what he has to say about it:
”The philosophy and idea behind having the Values program in the measurement systems is to be completely open and honest regarding how the measuring units work. They are actually only two dial gauges, although they are digital and laser-based. But they are extremely precise and flexible! With the Values program you can measure exactly where you want in the machine, thus getting a better understanding of the machine’s functionality and condition.
Our other measurement programs have step-by-step-guidance and help the user with all difficult calculations instantaneously. They are designed to be as user-friendly as possible, for any technician. That is true also for “Values” thanks to its incredibly easy-to-read displayed measurement values. However, just reading values may not be enough, you may also want to know what the measurement values mean so that you can make the right adjustment calculation. On the other hand, in principle, you can measure and align anything imaginable!



#		V	Δ
1	M	0.44	-0.1
	S	-1.00	-0.1
2	M	0.47	-0.1
	S	-0.98	-0.1
3	M	0.46	-0.1
	S	-1.00	-0.1

Program Values with single-axis detector. We see the two measurement devices’ vertical measurement values (V).

Dot or line?

The Values program has been part of the Easy-Laser systems from the beginning. This is just one example of our ”Straightforward by all measures” philosophy. In order to get the best out of the program, you should have measuring units with dot laser technology. For certain applications a separate laser transmitter, such as D22 for example, might be preferable. However, it can also be used with line laser units.
The accuracy of the measurement differs between measuring units for technical reasons, but a resolution of 1/100 mm [0.5 mils] is usually sufficient, even if there is an option to take measurements in thousandths [0.05 mils].

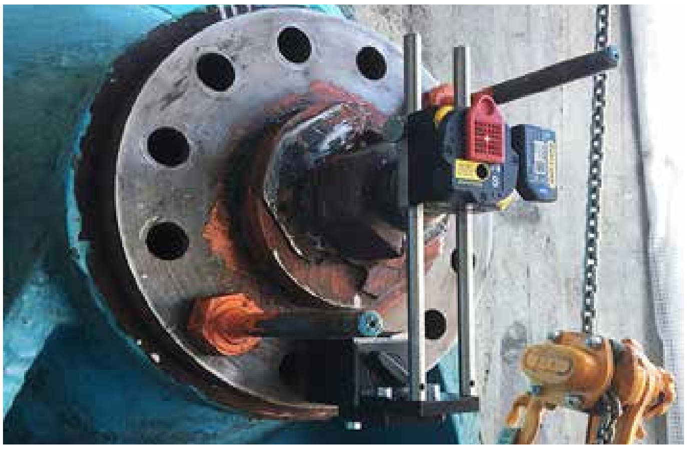
A few examples of areas of use

Jan goes on to explain:
“I would like to highlight a few examples in order for you to understand the flexibility and power of the Values program:
• Raising the end of a shaft and verifying the combined play in the bearings carrying the shaft helps us to find out how well we can align that particular machine.
• Having the measurement devices at the 12 o’clock position, zeroing and then loosening the mounted flanges on a pump (before it is filled with media), and then seeing if the stresses from these joints affect the alignment. If they do, the pump and motor will “settle” after time and the centering will be altered, which will most likely shorten the service life of the machine!
• Loading the installation to see if the base is sufficiently rigid. Simply climbing around on a machine can reveal ”weaknesses” that were not apparent before! Doing this prior to starting the machine can prevent many future problems.
• It is also possible to record values over a period of time at any interval, for example to see if any changes occur to the base when the machinery devices are loaded. I.e. under operating conditions. A dynamic check.
• A further example is if our measuring units (M and S) point the laser beams on each other, and we then reset the measurement values and rotate the shafts. The measurement value should then be low all the way around, if the shafts are

centred towards each other. Within bearing play tolerance! A quick test without having to specify any machine parameters.

Checking bearing play

Most recently, I held a training course regarding the use of an E-series system (dot laser) on a bearing for a floodgate, i.e. at the pivot points of the gate. Upon inspection, damage was noted on the sliding bearing. We then wanted to find the cause of the damage and to obtain a figure to indicate the extent of the fault.



Measuring unit mounted in the rotational centre. The entire blue section rotates.

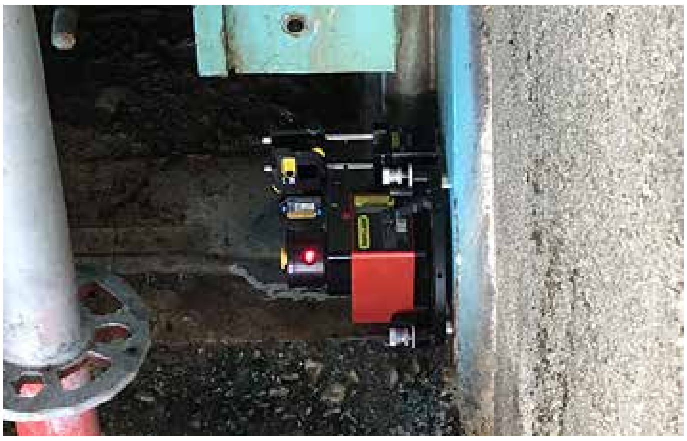
The laser hit point from the opposite side.

We started by mounting the measuring unit according to the image above, with the transmitter in the rotational centre. We then started the Values program, rotated and coned the beam to a point on the opposite side. The distance between the bearings is approximately 14 metres, but these measuring units have a range of 20 metres so there was plenty of margin. We did this on both sides to be able to check visually that they pointed towards each other relatively well. Then we performed a normal shaft alignment and obtained a formal figure for the deviation.

Nest step, using lasertransmitter

The next step was to check what was causing the deviation. We then mounted laser transmitter D22 vertically, and at the seal face on the side of the floodgate, and then directed the beam towards the bearing where we mounted the M unit on the upper side.
We then rotated the bearing 180°, swept the beam downwards, read off the value, halved the value and thus obtained a figure. The same measurement was performed on both sides of the floodgate.

A sealing side before the gate is installed.



Laser transmitter D22 mounted with its integrated magnets on the sealing side.

The measuring unit installed on the outer side.

In this case, we were able to prove that there was play three times greater on one side than on the other and that the direction of the play matched the pointing direction we had obtained from previous measurements. There was no doubt where the corrections were to be made. I.e. where the play was three times greater. The Values program, a straight and right-angled laser beam together with a large dose of common sense helped us make the right decision and take the right corrective action!
Knowing where the problem is offers breathing space, allowing us to then study the view from the top of the floodgate.
Thanks to the Values program, many of our users find completely new ways of improving and aligning their machinery. Keep measuring, and become a better machine connoisseur!"

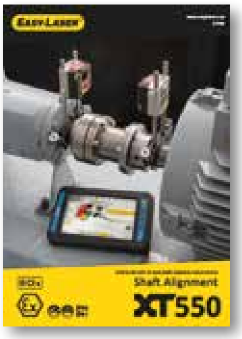
Jan Oscander
Sales Engineer, Problem solver etc.!

LEARN MORE ABOUT A SPECIFIC MEASUREMENT SYSTEM OR APPLICATION

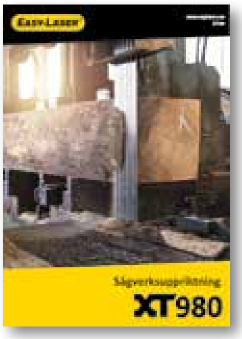
In our measurement system brochures you can find technical specifications and more information on the systems and products in this Product overview. Available for download in different languages from: www.easylaser.com

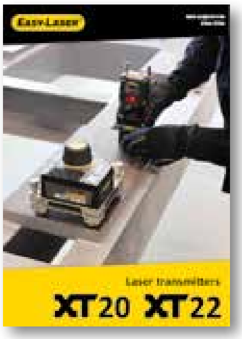
Easy-Laser® XT770

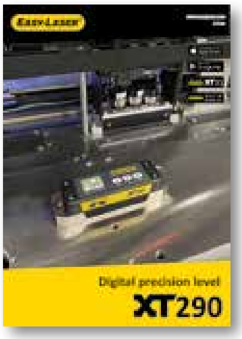
Easy-Laser® XT660

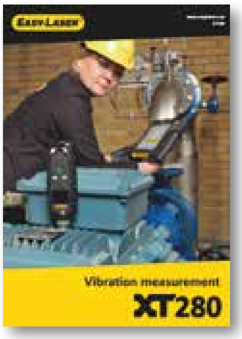

Easy-Laser® XT550 Ex

Easy-Laser® XT440

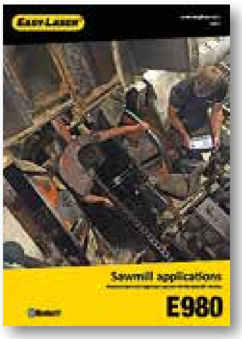

Easy-Laser® XT980

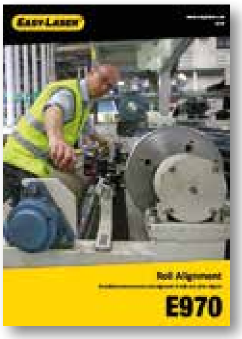

Easy-Laser® XT20/XT22

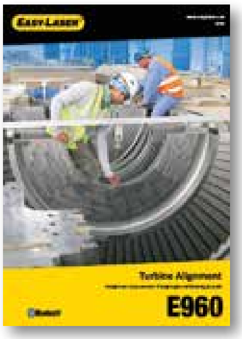

Easy-Laser® XT290

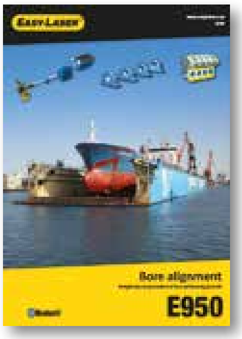

Easy-Laser® XT280

Easy-Laser® XT190


Easy-Laser® E980

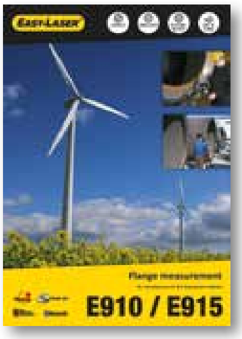

Easy-Laser® E970


Easy-Laser® E960


Easy-Laser® E950

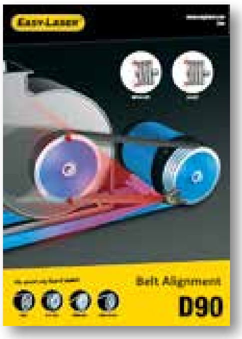
Easy-Laser® E930

Easy-Laser® E920

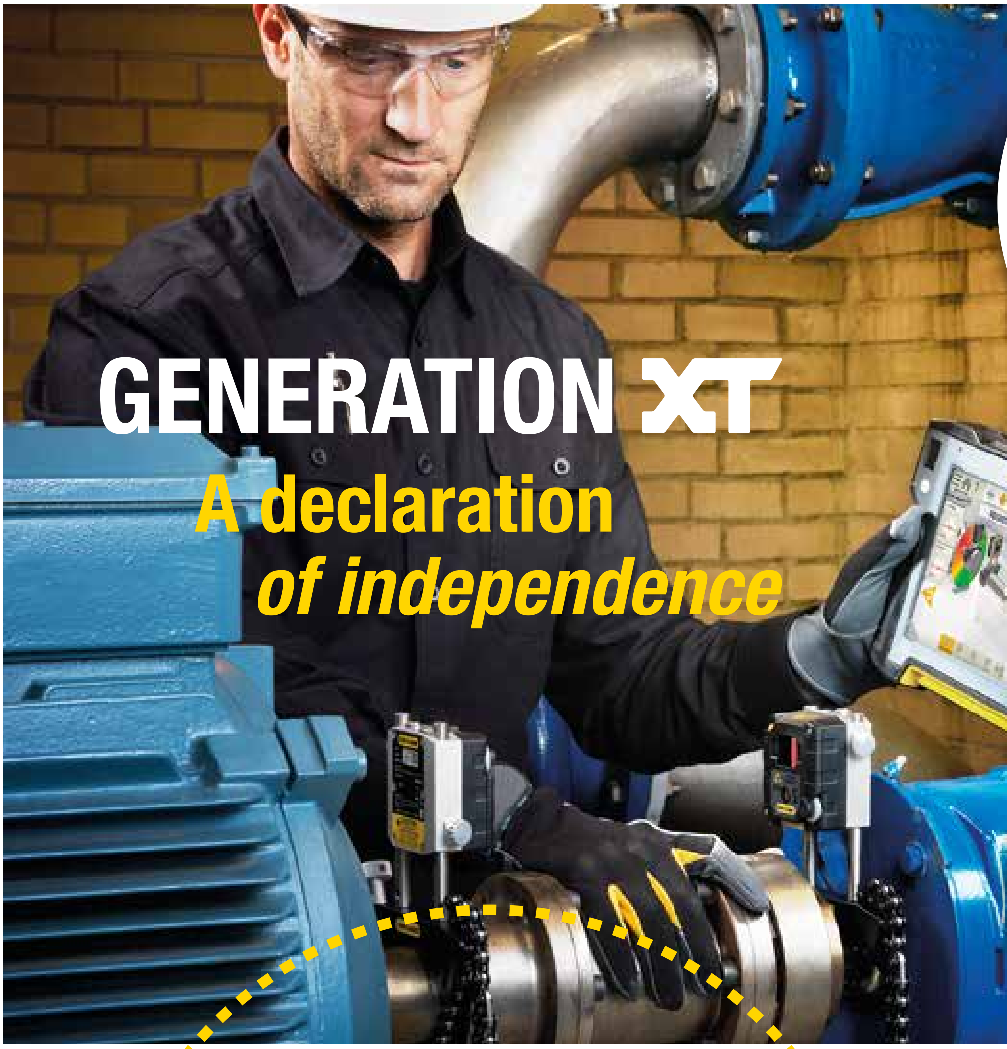

Easy-Laser® E910/E915

Easy-Laser® E710

Easy-Laser® E290


Easy-Laser® D90

COMPLETE SYSTEMS



GENERATION XT

A declaration of independence

reddot design award
winner 2018

iF DESIGN AWARD 2017

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

GET YOUR EASY-LASER® XT11 WITH THERMAL CAMERA!

GET IT ON Google Play

RUN IT ON EASY-LASER® XT11

Download on the App Store

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.

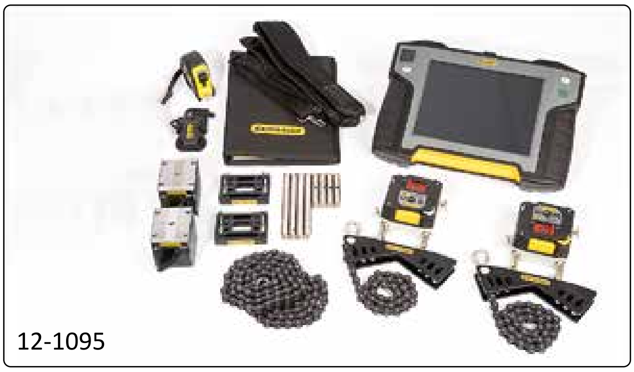
Maximum flexibility and trainability!
Purchase multiple systems with various capabilities, train once! The training costs are minimized significantly since the app interface and basic functionality is identical for all systems.

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.

XT980
XT770
XT660
XT550 Ex
XT440
XT290
XT280
XT190
XT22
XT20

Easy-Laser® XT770 Shaft / XT770 Shaft+GEO

Part No: See below. Four combinations available.


12-1095

2 AXIS PSD

IP67

20 m / 66'

IP66

Please also see the Programs and functions overview on page 35!

Download on the App Store

GET IT ON Google Play

RUN IT ON EASY-LASER XT11

Large case/Large case GEO

With wheels and extendable handle

Large case interior

(shown with accessories)

Multi-platform alignment system

Easy-Laser® XT770 is a multi-platform system. It runs on your iOS and Android unit[1]. 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 multipoint, continuous sweep and uncoupled 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, Straightness or Basic Flatness program, be able to do flatness and straightness measurements with the highest reliability and precision.

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

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System with display unit,
Large case (Part No. 12-1095)
Weight complete system: 14.6 kg [32.1 lbs]

System *without* display unit,
Large case (Part No. 12-1096)
Weight complete system: 13.0 kg [28.7 lbs]

System with display unit and GEO Kit
Large case GEO (Part No. 12-1127)
Weight complete system: 17.6 kg [38.8 lbs]

System *without* display unit, with GEO Kit
Large case GEO (Part No. 12-1128)
Weight complete system: 16.0 kg [35.3 lbs]

12-0961	(1)	Display unit XT11
12-1045	1	Measuring unit XT70-M
12-1046	1	Measuring unit XT70-S
12-0963	2	Shaft bracket with chain and rods
12-1008	2	Offset bracket for XT-series
12-0013	2 #	Magnet bases
12-1161	1	Set of Rods 4x75 mm
12-0987	1	Rods (4x120 mm)
12-1060	1	Extension chain (2x900 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
05-0913	1	Quick manual (Note: Refers to English manual)
03-0878	1	Cleaning cloth for optics
03-0914	1	USB memory stick with documentation
04-0307	1	Set of QR code stickers
12-0991	1	Documentation folder
12-1049	(1)	Carrying case Large, with wheels
12-1132	(1)	Carrying case Large GEO, with wheels WxHxD: 580x460x295 mm [22.8x18.1x11.6"]

(1) = Included depending on system Part No.

GEO Kit for XT includes:

12-1272	1	Laser transmitter XT20
12-1275	1	Multi-bracket for XT laser transmitter
12-1133	1	Magnet base with turnable head (# replaces one of the regular magnet bases)
12-0987	1	Rods (4x120 mm)

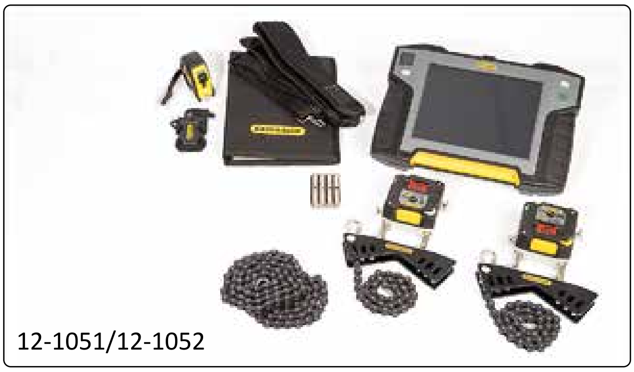
Options for XT11: (Note! Cannot be retrofitted.)

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)
12-1147	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
12-1244	1	XT290 Digital precision level

Note: Always check number of items included for each Part No. before ordering.
Accessories not included in the specified system weight above.



12-1051/12-1052

1 AXIS PSD

IP67

20 m / 66'

IP66

Please also see the Programs and functions overview on page 35!

Download on the App Store

GET IT ON Google Play

RUN IT ON EASY-LASER® XT11

Medium case

Medium case interior

Easy-Laser® XT660 Shaft

Part No: See below. Four combinations available.

Multi-platform alignment system

Easy-Laser® XT660 is a multi-platform system. It runs on your iOS and Android unit[1]. 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, machine trains (3 machines) and cardan/offset mounted 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, continuous sweep and uncoupled 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. *(*requires accessories)*

[1] Please see our web site for a complete list of which tablets we recommend: easylaser.com > 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: 12.3 kg [27.1 lbs]
(without accessories)

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

Please see example of Large case with wheels on XT770 system page.

System *without* display unit,
Large case (Part No. 12-1059)
Weight complete system: 10.9 kg [24.0 lbs]
(without accessories)

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

12-0961	(1)	Display unit XT11
12-1028	1	Measuring unit XT60-M
12-1029	1	Measuring unit XT60-S
12-0963	2	Shaft bracket with chain and rods
12-1161	1	Set of Rods 4x75 mm
12-1060	1	Extension chain (2x900 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
05-0863	1	Quick manual (Note: Refers to English manual)
03-0878	1	Cleaning cloth for optics
03-0914	1	USB memory stick with documentation
04-0307	1	Set of QR code stickers
12-0991	1	Documentation folder
12-0973	(1)	Carrying case Medium WxHxD: 460x350x175 mm [18.1x13.8x6.9"]
12-1049	(1)	Carrying case Large, with wheels WxHxD: 580x460x295 mm [22.8x18.1x11.6"]

(1) = Included depending on system Part No.

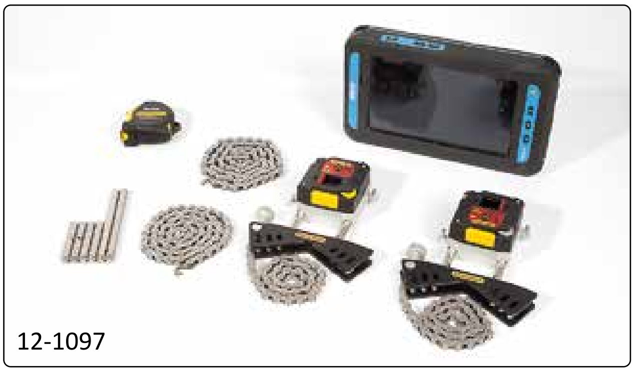
Options for XT11: (Note! Cannot be retrofitted.)

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

Examples of accessories for XT660:

12-0013	1	Magnet base (Note: offset bracket also needed.)
12-1008	1	Offset bracket for XT-series
12-1147	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
12-1244	1	XT290 Digital precision level

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


12-1097

1 AXIS PSD

IP67

20 m / 66'

IP66

IECEx

Please also see the Programs and functions overview on page 35!

Download on the App Store

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RUN IT ON EASY-LASER XT11

Note! XT11 isn't ATEX approved.

Easy-Laser® XT550 Ex/ATEX Shaft

Part No: See below.

Shaft alignment system for hazardous areas

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 8 MP camera for documentation built-in. The XT Alignment app also runs on other iOS and Android units. [1] [2] 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, machine trains and cardan/offset mounted machines* 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, continuous sweep and uncoupled 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. *(*requires accessories)*

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/

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

[2] *For 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]

12-1196	(1)	Display unit ECOM Tab-Ex-02
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
01-0873	2	Rods 120 mm
12-1038	2	Extension chain (900 mm)
03-0824	1	Measuring tape 3 m
03-0967	1	Rod tool
12-1281	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
04-0307	1	Set of QR code stickers
12-1063	1	Carrying case WxHxD: 450x300x180 mm [17.7x11.8x7.1"]

(1) = Included depending on system Part No.

Examples of accessories for XT550:

12-0013	1	Magnet base (Note: offset bracket also needed.)
12-1008	1	Offset bracket for XT-series
12-1147	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.

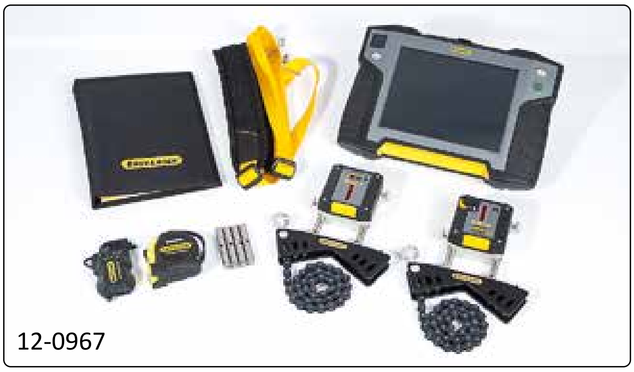
CERTIFICATIONS:

CE
0470
0102

XT50 measuring units:
EX certificate number: Presafe 17 ATEX 10552X, IECEx PRE 17.0049X
EX classification: ⟨Ex⟩ II 2 G Ex ib op is IIC T4 Gb, -10°C ≤ Ta ≤ +50°C
ecom display unit TabEx02:
EX certificate number: Sira 19 ATEX 1017X, IECEx SIR 19.0012X
EX classification: ⟨Ex⟩ II 2G Ex db ia op is IIC T5 Gb, -20°C ≤ Ta ≤ +50°C,
⟨Ex⟩ II 2D Ex tb ia op is IIIC T100°C Db, -20°C ≤ Ta ≤ +50°C
IECEx classification: Ex db ia op is IIC T5 Gb, -20°C ≤ Ta ≤ +50°C,
Ex tb i a op is IIIC T100°C Db, -20°C ≤ Ta ≤ +50°C

Easy-Laser® XT440 Shaft

Part No: 12-0967 (with Display unit XT11, in Medium case)
Part No: 12-0966 (without Display unit, in Small case)*


12-0967

1 AXIS PSD

IP67

10 m / 33'

IP66

Please also see the Programs and functions overview on page 35!

Download on the App Store

GET IT ON Google Play

RUN IT ON EASY-LASER XT11

IR CAMERA
CAMERA
FLASH
IR Camera is optional

Medium case with XT11

Multi-platform alignment system

Easy-Laser® XT440 is a multi-platform system. It runs on your iOS and Android unit[1]. 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.

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

In the Medium Case you can fit a tablet with the size WxHxD 280x195x45 mm [11.0x7.6x1.8"], or the XT11.

System with Medium case and XT11 (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
04-0307	1	Set of QR code stickers
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

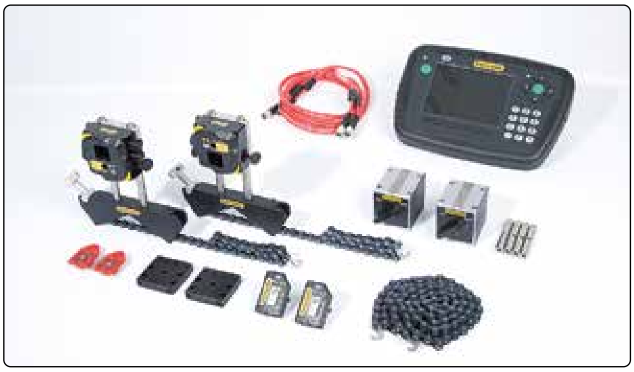
Note: always check number of items included for each Part No. before ordering.

System with Medium case (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
12-0973	1	Carrying case Medium
		Weight complete system: 5.3 kg [11.8 lbs]
		WxHxD: 460x350x175 mm [18.1x13.8x6.9"]

Examples of accessories for XT440:

12-0013	1	Magnet base (Note: offset bracket also needed.)
12-1008	1	Offset bracket for XT-series
12-1147	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"].
12-1053	1	XT190 BTA Digital belt alignment tool
12-1090	1	XT280 Vibrometer
12-1244	1	XT290 Digital precision level



2 AXIS PSD

20 m / 66'

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.

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. The system is expandable for more measurement applications.

**Cardan bracket is optional equipment.*

A complete system contains:

12-0418	1	Display unit E51
12-0433	1	Measuring unit ES
12-0434	1	Measuring unit EM
12-0436	2	Wireless units
12-0074	2	Cables 2 m
12-0016	2	Shaft bracket with chain
12-0319	2	Extension chain
12-0013	2	Magnet base
01-1165	2	Offset bracket
01-0873	4	Rods 120 mm
12-0059	1	Set of Rods 4x60 mm
05-0461	1	Manual (Note: Refers to English manual)
05-0486	1	Quick manual (Note: Refers to English manual)
03-0824	1	Measuring tape 3 m
03-0914	1	USB memory stick with documentation
03-0822	1	USB cable
03-1243	1	Battery charger (100–240 V AC)
03-0792	2	Toolbox
12-0495	1	Shoulder strap for Display unit
03-0878	1	Cleaning cloth for optics
12-0442	1	Carrying case

Complete system:

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

Examples of accessories:

12-1053	1	XT190 BTA
12-1147	1	Magnetic bracket
12-1012	1	Thin shaft bracket
12-1010	1	Sliding bracket
12-0615	1	Cardan bracket
12-0617	1	Battery pack
12-0597	1	Splitter box
12-0059	1	Rods (4x60 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"].
12-0022	1	Laser transmitter D22

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

Easy-Laser® XT190 BTA digital Wireless

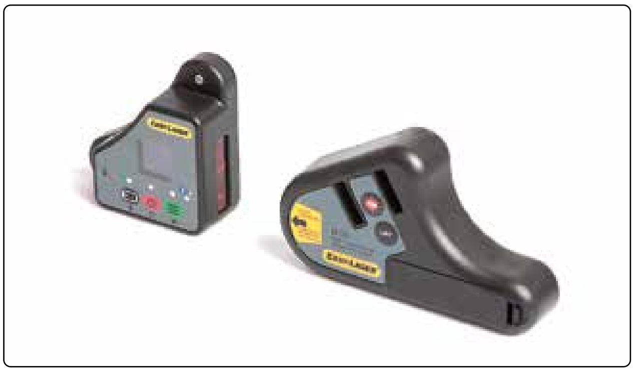
Part No: 12-1053

“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.)

(Note2: There is no separate display unit included. The detector connects wireless to the E51, E52 and XT11 display units with Belt alignment program.)



2 AXIS V+H

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RUN IT ON EASY-LASER XT11

3 m / 10'

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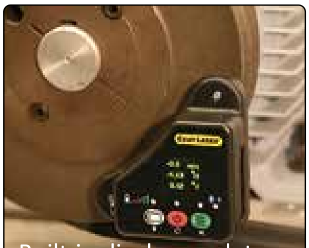
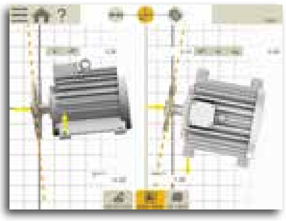
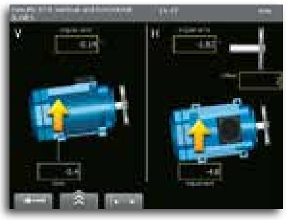
EASY-LASER BUILT-IN DISPLAY


Built-in display on detector unit. Angle and offset.


XT app for XT11 and iOS/ Android display units.


Belt alignment program for E51 and E52.

A complete system contains:

12-0309	1	Laser transmitter
12-1054	1	Detector unit with built-in display, wireless
12-0394	2	Targets
03-1256	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

3m / 10'

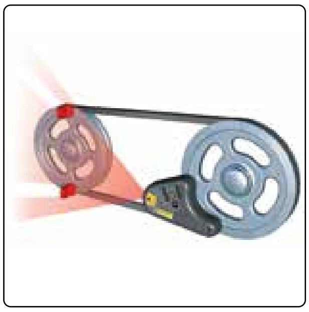
Easy-Laser® D90 BTA

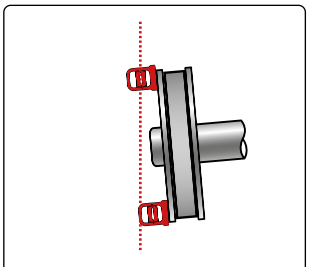
Part No: 12-0415

For quick and easy alignment of sheaves/pulleys

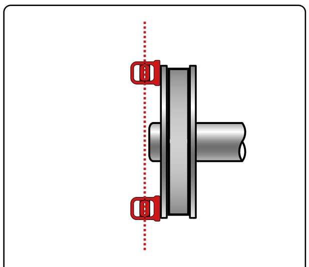
Easy-Laser® D90 is installed in a few seconds, and the laser line that is projected on the targets clearly shows how to adjust the machines. The tool has targets that can be read out “visually” and which give excellent degrees of accuracy that are sufficient for most users. If, in the future, you wish to have the option of digital readouts with the corresponding advantages, you can add a digital detector (see system XT190).

D90 BTA is compact and light. Suitable for most types of drive, such as V-belt, timing belt, flat belt and chain drives.





Misaligned



Aligned

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

INCLINOMETERS
2-AXIS

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RUN IT ON EASY-LASER® XT11

PRECISION LEVEL
1-AXIS

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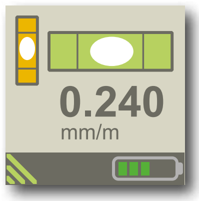
EASY-LASER® BUILT-IN DISPLAY



Built-in display on unit.

System case.

XT app for XT11 and iOS/ Android display units.

Legs for measurement on large cylindrical surfaces.

Easy-Laser® XT290 Digital precision level

Part No: 12-1244

For reliable machinery installation

Digital levels are extremely useful tools for setting-up and aligning most types of machines, for example, levelling machine bases, rolls, tables, etc. 0.1 mm/m [mils/inch] is a normal requirement for level at machine installations to ensure correct functionality. Other applications include checking straightness, flatness and parallelism. Easy-Laser® XT290 is simply the must-have addition to your laser-based alignment system.

Accuracy is guaranteed by the precision-ground, hardened steel base. Wide measurement range, very fast inclinometer/value stabilisation, and an easy-to-read TFT colour display with graphics makes the measurement procedure quick and easy. Two mounting holes allow for your own adaptations and brackets.

Connect to a separate display unit

The XT290 connects to the free XT Alignment app (iOS/Android) and our XT11 display unit. Using a separate display unit, for example your smartphone, makes it all even easier as you can read off and follow the adjustment at the point on the machine where the adjustment is made. It is also safer for some applications, where you can leave the unit inside the safety fence, then follow the measurement outside it.

You can make a measurement report with pictures and share it (PDF and Excel). Using the app you can also record values during a set time and frequency, i.e. dynamic measurements. Another possibility with the app is to connect up to four digital levels (or e.g. two levels and two measuring units) at the same time, displayed in the same screen view.

Precision level accuracy: ±0.02 mm/m ±1% [±0.02 mils/inch ±1%]
Inclinometers accuracy: ±0.2° (within range ±5°), ±1° (within range ±180°)
Please see chapter *Technical specifications and drawings* for more data.

(Note: The XT290 does not work with the E-series display units. You can of course still use it as a separate tool.)

A complete system contains:

12-1241	1	Digital Precision Level
01-1402	1	Screw for mounting safety strap*
03-1256	1	Charger (100–240 V AC) and cable
03-0914	1	USB memory stick with documentation
05-0990	1	Quick manual (Note: Refers to English manual)
12-1243	1	Carrying case

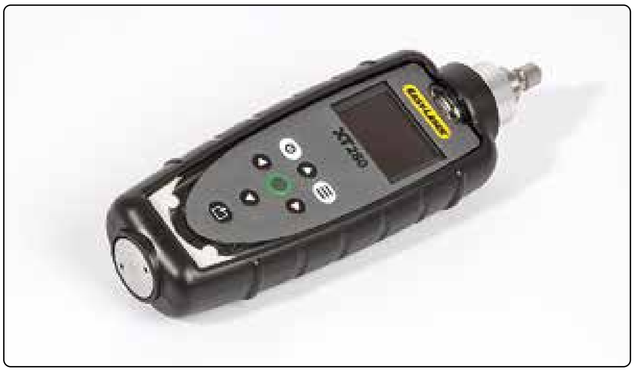
Complete system:

Weight: 2.2 kg [4.85 lbs]
WxHxD: 270x240x120 mm [10.6x9.4x4.7"]

Examples of accessories:

12-0901	1	Legs for measurement on cylindrical surfaces 55–800 mm
03-1406	1	Safety strap Bahco 3875-LY2*

*Please note that safety regulations differ from country to country.



RUN IT ON EASY-LASER XT11

EASY-LASER BUILT-IN DISPLAY

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XT280 Vibrometer

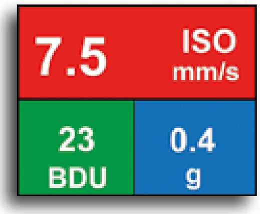
Part No: 12-1090

FOR QUICK VIBRATION ANALYSIS

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.*



7.5 ISO mm/s

23 BDU

0.4 g

Built-in display.

Padded case

TAP ● TO REGISTER VALUE
0.034
0.0

XT app for XT11 and iOS/ Android display units.

Stinger

Accelerometer magnet

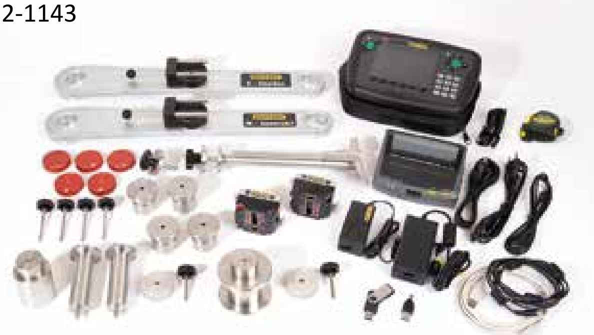
A complete system contains:

12-1050	1	Vibrometer (with short tip)
05-0934	1	Quick manual
03-0914	1	USB memory stick with documentation
03-1429	1	Screw driver Torx T8
03-1336	1	Padded case

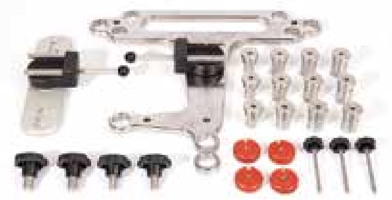
Examples of accessories:

03-1327	1	Accelerometer magnet
03-1326	1	Stinger (100 mm)

12-1143



12-1142



1 AXIS PSD

10 m / 33'

Shaft alignment system for Vestas wind turbines

Part No: 12-1143 (Vestas 5/VT20025637)
Part No: 12-1284 (Vestas 5.5 - Mechanical bracket kit)
Part No: 12-1142 (Vestas 6/VT20025635)
Part No: 12-1183 (Installation Kit Upgrade)

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 Easy-Laser® Vestas shaft alignment systems consist of one general installation kit, one supplement kit for use on more turbines, plus one upgrade kit (or just the bushings, see below).

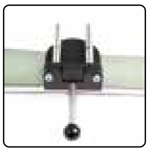
Installation kit, Wireless, Vestas 5.

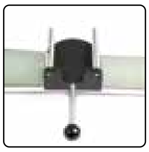
Mechanical bracket kit, Vestas 5.5.
Same as Vestas 5, but without display unit, measuring units, printer and associated items like cables, see items marked with * in the list.

Supplement Service kit, Vestas 6.

Installation Kit Upgrade
If you have an older system Vestas 4 you can upgrade this for use at MK3E.

Please note that the brackets in all kits fit both E-series and XT-series measuring units. New design of bracket shown below.





A Vestas 5 system contains:

12-0700*	1	Display unit E52
01-1379*	1	Protective case for display unit E52
12-0777*	1	Measuring unit ELS40, PSD 30 mm, inclinometer
12-0776*	1	Measuring unit ELM40, PSD 30 mm, inclinometer
12-0712	5	Nut to adapters with magnet M6 V112
12-0714	4	Screw to Adapters V112, L=75mm
12-0713	2	Fixture Kit for V112
01-1520	4	Adaptor for fixture V112
03-0613	1	Distance gauge incl. adaptor, incl. fastening screw L=35mm
03-1034	1	Distance gauge incl. adaptor, incl. fastening screw L=55mm
01-2163	1	Bushings for MK3E / V150
01-2142	1	Bushings for MK3E / V150
01-2143	2	Washer for MK3E / V150
12-1140	2	Screw to bushings V150 L=45mm
12-0495*	1	Strap to display unit
03-0914*	1	USB memory stick 4GB
03-0822*	1	USB cable A to B 1.8 m
03-1243*	1	Battery charger (100-240 V AC) Lev. 6
12-0989*	1	DC split cable for charging
12-0751*	1	DC to USB adapter, for charging
03-1004*	1	Printer Seiko DPU-S445, including charger, cable and USB
03-0824	1	Measurement tape 3m
05-0954*	1	Manual E540 Vestas
12-1164	1	Carrying Case Vestas 5

Weight: 28 kg [61.7 lbs]
WxHxD: 670x600x220 mm [26.4x23.6x8.7]

* These items are not included with Vestas 5.5.
System weight: 25 kg [55.1 lbs]

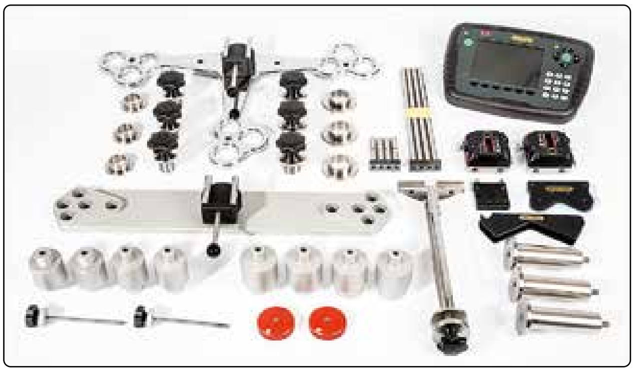
A Vestas 6 system contains:

12-0703	1	Detector-fixture Generator flange
12-0297	2	Screw knob to Generator fixture M12
12-0298	2	Screw knob to Generator fixture M16
12-0718	1	Detector-fixture Gearbox flange
01-0815	3	Adapter for Gearbox fixture 25 mm
01-0816	3	Adapter for Gearbox fixture 24 mm
01-0817	3	Adapter for Gearbox fixtrure 22 mm
01-0818	3	Adapter for Gearbox fixture 17 mm
12-0296	3	Screw to adapters
12-0299	4	Nut to adapters with magnet M6
12-1165	1	Carrying case Vestas 6

Weight: 12.3 kg [27.1 lbs
WxHxD: 570x470x220 mm [22.4x18.5x8.7]

A Vestas Laser Installation Upgrade Kit contains:

12-1154	1	Bushings for MK3E, set of 2 (VT20025636)
12-1164	1	Carrying case Vestas 5
12-1165	1	Carrying case Vestas 6



Shaft alignment system GA1 for wind turbines

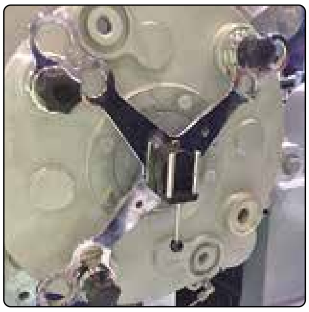
Part No: 12-1118 (Includes 12-1113+12-1114)

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.

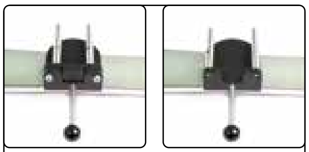
NOTE:
Complete system GA1, Part No. 12-1118 consist of Part No. 12-1113+12-1114, but still come in two separate carrying cases.
12-1113 and 12-1114 also sold separately.

1 AXIS PSD

10 m / 33'



Built-in battery and wireless functionality.



Note: brackets in 12-1114 fit both E-series and XT-series measuring units.
New design shown above.

12-1118
12-1113
12-1114

System 12-1113 contains:

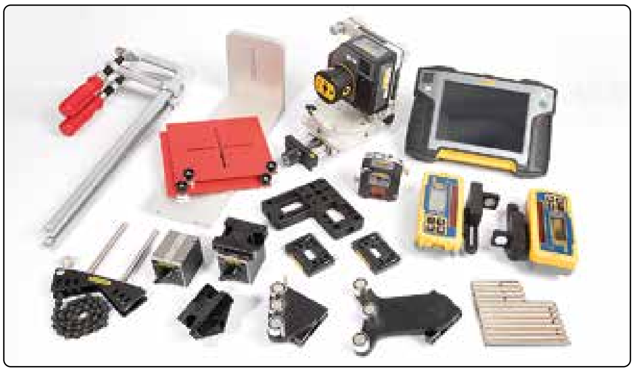
12-0700	1	Display unit E52
01-1379	1	Protective case for display unit
12-0777	1	Measuring unit ELS40
12-0776	1	Measuring unit ELM40
12-0016	1	Shaft bracket with chain
12-0626	1	Chain 900 mm complete
12-0059	1	Rods Ø10x60 mm, set of 4 pcs
01-0873	4	Rods Ø10x120 mm
12-0987	1	Rods Ø10x120 mm, set of 4 pcs
12-1147	1	Magnetic bracket
01-1165	1	Offset bracket
03-0045	1	Screw MC6S M6x16 mm
05-0689	1	Quick manual
05-0809	1	Manual GA1
03-0824	1	Measuring tape 3.0 m
03-0914	1	USB memory stick 4GB
03-0822	1	USB cable A to B 1.8 m
03-1243	1	Battery charger (100-240 V AC)
12-0989	1	DC Split cable, for charging
12-0751	1	DC to USB adapter, for charging
03-0792	1	Toolbox
03-0967	1	Hexagon wrench set
01-0048	1	Rod tightening tool, 4 mm
12-0495	1	Strap to display unit
12-1020	1	Plastic carrying case for 12-1113

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

System 12-1114 contains:

12-0975	1	Detector-fixture Generator flange GA1
01-1889	2	Adapters to Generator flange GA1 M24
01-1892	2	Adapters to Generator flange GA1 Ø40
01-1891	2	Adapters to Generator flange GA1 Ø31
01-1890	2	Adapters to Generator flange GA1 Ø25
12-0974	2	Screw to Adapters L=120mm
12-0712	2	Nut to adapters with magnet M6
12-0976	1	Detector-fixture Gearbox flange GA1
12-0977	3	Screw M24 for Gearbox fixture
12-0978	3	Screw M30 for Gearbox fixture
01-1884	3	Adapters for M24 Screw to Gearbox fixture
01-1885	3	Adapters for M30 Screw to Gearbox fixture
03-0613	1	Distance Gauge (coupling flanges), incl. adapter
03-1034	2	Ext. adapter distances gauge
12-1116	1	Plastic carrying case for 12-1114

Weight: 17.0 kg [37.5 lbs]
WxHxD: 565x455x210 mm [22.2x17.9x8.2"]



2 AXIS PSD

40 m /132'

Please also see the Programs and functions overview on page 35!

Easy-Laser® XT980 Sawmill

Part No: 12-1296

Measurement and alignment of sawmill machinery

Easy-Laser® XT980 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. Laser transmitter XT22 has a manually rotated laser head with an angular prism, making it very versatile and suitable for most geometrical measurements.

With Easy-Laser® XT980 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® XT980 are:
- Higher production speed
- Less unplanned downtime
- Better product quality
- Longer lifetime for blades
- Longer lifetime for bearings
- Less vibration
- Less waste material

There is a standard system configuration plus some useful accessories. Together with our Easy-Laser representative, the system is adapted to best fit your actual machinery.

A complete system contains:

12-0961	1	Display unit XT11
12-1273	1	Laser transmitter XT22
12-1045	1	Measuring unit XT70-M
03-0833	2	Electronic target
12-1275	1	Multi bracket for XT laser
12-1133	1	Magnet base with turnable head
12-0013	1	Magnet base
12-0963	1	Shaft bracket with chain
12-1008	2	Offset bracket
12-0624	2	Bracket for electronic target
12-1209	1	Rotating detector bracket for rods
12-1210	1	Magnet bracket long, with turnable head
12-1211	1	Magnet bracket short, with turnable head
12-1087	1	Set square bracket for index table
12-1083	1	Index table 90°
12-0987	2	Set of Rods (4x120 mm)
12-1161	1	Set of Rods (4x75 mm)
12-1232	2	Large target with magnets
05-0993	1	Quick Guide (English)
03-0842	1	Measuring tape 5 m
12-1299	1	Documentation folder GEO
03-0822	1	USB cable
12-1256	1	Battery charger (100–240 V AC)
12-0989	1	DC split cable for charging
12-0751	1	DC to USB adapter
03-1419	2	Screw clamps
03-0967	1	Hexagon wrench set
12-1300	1	Toolbox XT GEO
12-0997	1	Shoulder strap for Display unit
12-1298	1	Transportation case, with wheels

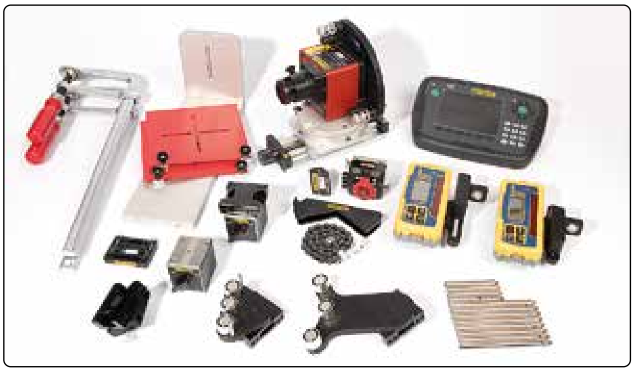
Examples of accessories:

12-1010	1	Sliding bracket for XT-series
12-0060	1	Rods (4x240 mm)
12-1262	1	Detector bracket for centering on wire position
12-0503	1	Bracket (Set square) for transmitter
12-1123	1	Extension for set square 12-1087, 295 mm
12-1124	1	Extension for set square 12-1087, 430 mm
12-1060	1	Extension chain (2x900 mm). For diameters up to 450 mm [12.7"].
12-1053	1	XT190 BTA Digital belt alignment tool
12-1090	1	XT280 Vibrometer
12-1244	1	XT290 Digital precision level

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

Complete system:

Weight: 29.5 kg [65.0 lbs]
WxHxD: 622x492x310 mm [24.5x19.4x12.2"]



2 AXIS PSD

20 m / 66'

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 system has the D23 Spin laser transmitter (motor driven laser head), which makes it easier for just one person to measure, if required. 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

There is a standard system configuration plus some useful accessories. Together with our Easy-Laser representative, the system is adapted to best fit your actual machinery.

Please note that the application picture show older design of index table.

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
12-1133	1	Magnet base with turnable head
12-0013	1	Magnet base
12-0016	1	Shaft bracket with chain
12-1008	2	Offset bracket
12-0624	2	Bracket for electronic target
12-1209	1	Rotating detector bracket for rods
12-1210	1	Magnet bracket long, with turnable head
12-1211	1	Magnet bracket short, with turnable head
12-1087	1	Set square bracket for index table
12-1083	1	Index table 90°
12-1161	1	Set of Rods (4x75 mm)
12-0987	2	Set of Rods (4x120 mm)
12-1232	2	Large targets
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 (incl. with 12-0168)
03-1409	2	Screw clamps
12-0495	1	Shoulder strap for Display unit
03-0878	1	Cleaning cloth for optics
12-1007	1	Transportation case, with wheels

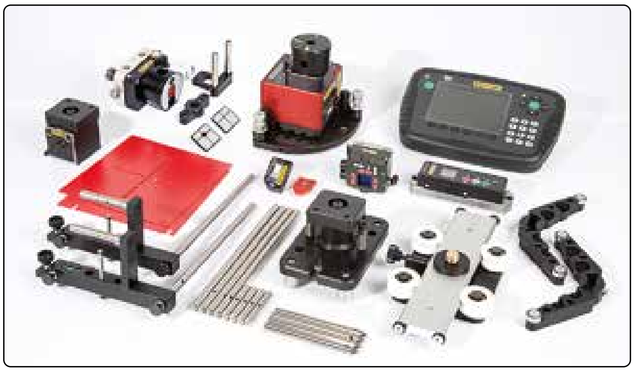
Examples of accessories:

12-1010	1	Sliding bracket (for vertical support rolls)
12-0022	1	Laser transmitter D22 (add or exchange the D23)
12-0752	1	Detector E7 (add an extra unit for more measurement possibilities)
12-0060	1	Rods (4x240 mm)
12-0696	1	Small magnet base with turnable head
12-1262	1	Detector bracket for centering on wire position
12-0503	1	Bracket (Set square) for transmitter
12-1123	1	Extension for set square 12-1087, 295 mm
12-1124	1	Extension for set square 12-1087, 430 mm
12-1060	1	Extension chain (2x900 mm). For diameters up to 450 mm [12.7"].
12-1053	1	XT190 BTA Digital belt alignment tool
12-1090	1	XT280 Vibrometer
12-1244	1	XT290 Digital precision level

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

Complete system:

Weight: 29.0 kg [63.9 lbs]
WxHxD: 622x492x310 mm [24.5x19.4x12.2”]



2 AXIS PSD

40 m /132'

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
12-1136	1	Angular prism (incl. laser alignment target)
01-2232	1	Tripod adaptor for Angular prism
12-0269	2	Tripod
12-0203	1	Parallelity kit
12-0060	1	Set of Rods 4x240 mm
12-0987	1	Set of Rods 4x120 mm
12-0059	1	Set of Rods 4x60 mm
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)
12-0989	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
12-0856	1	Roll alignment Kit
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. ∅120 mm
12-0543	1	Slide bracket Min. ∅200 mm
12-0510	1	Slide bracket Min. ∅300 mm
12-0269	1	Tripod
03-1406	1	Safety strap Bahco 3875-LY2

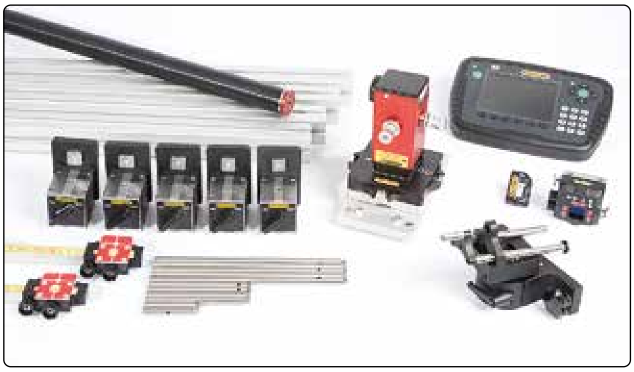
Note: always check number of items included for each Part No. before ordering.

Complete system:

Weight: 19.5 kg [43.0 lbs]
WxHxD: 620x490x220 mm [24.4x19.3x8.7"]

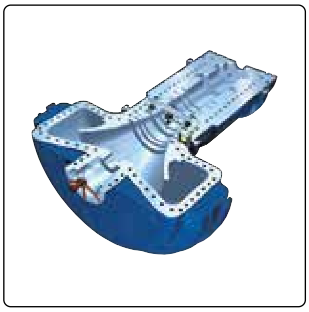
Tripod:

Weight: 7.9 kg [17.4 lbs]
Transport length: 1110 mm [44"]



2 AXIS PSD

40 m /132'



Easy-Laser® E960-A Turbine alignment

Part No: 12-0710

Reliability and precision

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

Versatile programs

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

The measurement result

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

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
05-0685	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)
03-0878	1	Cleaning cloth for optics
12-0724	1	Carrying case with wheels

Complete system:

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

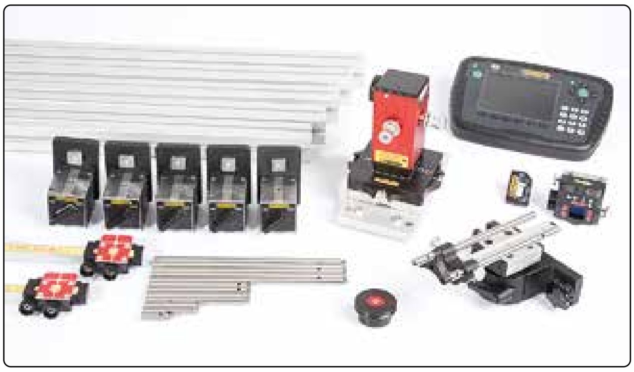
Examples of accessories:

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
12-0707	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
12-0022	1	Laser transmitter D22
12-0706	1	Laser transmitter D25

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

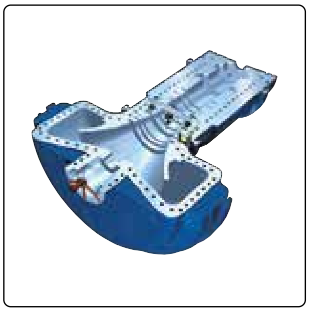
Easy-Laser® E960-B Turbine alignment

Part No: 12-0711



2 AXIS PSD

40 m /132'



Reliability and precision

Easy-Laser® E960-**B** has a measuring probe with a stroke of 60 mm (Long stroke). Suitable for larger turbines. The system makes the measurement and adjustment work of diapraghms and bearings easier thanks to the 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	Laser transmitter bracket
12-0661	1	Offset hub for Laser transmitter
12-0715	1	Detector bracket Long stroke
12-0443	2	Centering target
12-0495	1	Shoulder strap for Display unit
05-0685	1	Manual (Note: Refers to English manual)
03-0842	1	Measuring tape 5 m
03-0914	1	USB Memory stick with documentation
03-0822	1	USB Cable
03-1243	1	Battery charger (100–240 V AC)
03-0878	1	Cleaning cloth for optics
12-0724	1	Carrying case with wheels

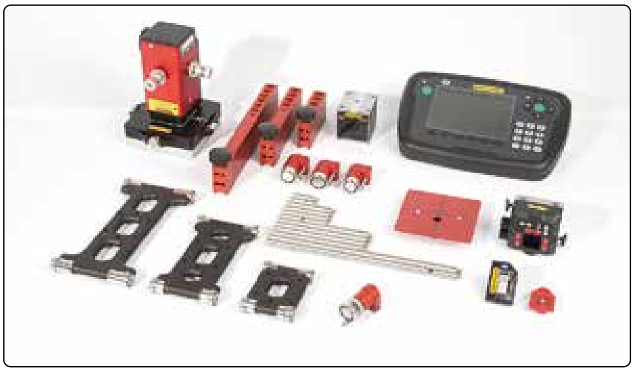
Complete system:

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

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
12-0707	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
12-0022	1	Laser transmitter D22
12-0706	1	Laser transmitter D25

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



2 AXIS PSD

40 m /132'

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:

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
12-0384	1	Set of offset hub arms for diameters 100–500 mm
12-0154	1	Set of magnets for offset hub arms
12-0990	1	Adjustable magnet for offset hub arms
12-0455	1	Slide bracket Min. ∅120 mm
12-0543	1	Slide bracket Min. ∅200 mm
12-0510	1	Slide bracket Min. ∅300 mm
12-0588	1	Large target E-series
12-0013	1	Magnet base
12-0059	1	Set of rods (4x60 mm)
01-0938	2	Rods 30 mm
01-0873	4	Rods 120 mm
01-0044	2	Rods 240 mm
12-0495	1	Shoulder strap for Display unit
05-0685	1	Manual (Note: Refers to English manual)
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
03-0878	1	Cleaning cloth for optics
12-0684	1	Carrying case Linebore A

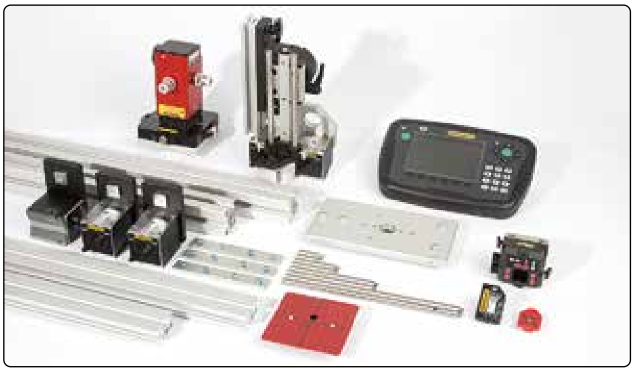
Examples of accessories:

12-0434	1	Measuring unit M
12-0433	1	Measuring unit S
12-0016	1	V-bracket with chain
01-1165	1	Offset bracket
12-0187	1	Magnetic bracket for D75
12-0282	1	Set of extension arms
12-0580	1	Axial extension arms
12-0597	1	Splitter box
03-1004	1	Thermal printer
12-0022	1	Laser transmitter D22

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"]



2 AXIS PSD

40 m /132'

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 ∅300–1200 mm
12-0588	1	Large target E-series
12-0013	1	Magnet base
12-0059	1	Set of rods (4x60 mm)
01-0938	2	Rods 30 mm
01-0873	4	Rods 120 mm
01-0044	2	Rods 240 mm
12-0495	1	Shoulder strap for Display unit
05-0685	1	Manual (Note: Refers to English manual)
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
03-0878	1	Cleaning cloth for optics
12-0685	1	Carrying case Linebore B

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

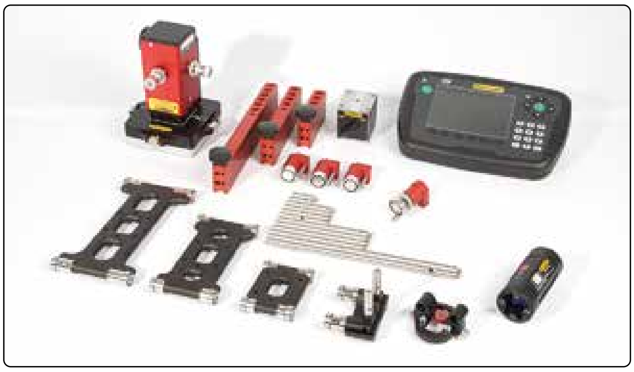
Examples of accessories:

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.

Easy-Laser® E950-C Bore alignment

Part No: 12-0772



2 AXIS PSD

40 m /132'

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 E51
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
12-0990	1	Adjustable magnet for offset hub arms
12-0768	1	Slide bracket, Width 25 mm, Min. ∅80 mm
12-0767	1	Rod adapter with built in target
12-0455	1	Slide bracket Min. ∅120 mm
12-0543	1	Slide bracket Min. ∅200 mm
12-0510	1	Slide bracket Min. ∅300 mm
12-0013	1	Magnet base
12-0059	1	Set of rods (4x60 mm)
01-0938	2	Rods 30 mm
01-0873	4	Rods 120 mm
01-0044	2	Rods 240 mm
12-0495	1	Shoulder strap for Display unit
05-0685	1	Manual (Note: Refers to English manual)
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
03-0878	1	Cleaning cloth for optics
12-0782	1	Carrying case

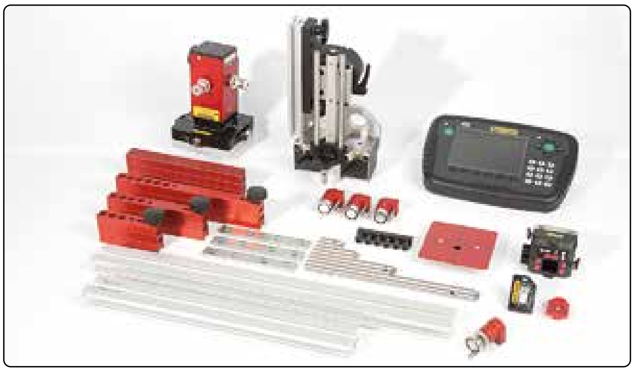
Examples of accessories:

12-0553	1	Bore bracket adapter plate
12-0314	1	Detector arms Linebore
12-0343	1	Slide bracket Min. ∅100 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
12-0434	1	Measuring unit EM
12-0433	1	Measuring unit ES
12-0016	1	V-bracket with chain
01-1165	1	Offset bracket
12-0187	1	Magnetic bracket for D75
12-0282	1	Set of extension arms
12-0580	1	Axial extension arms
12-0597	1	Splitter box
03-1004	1	Thermal printer
12-0022	1	Laser transmitter D22

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"]



2 AXIS PSD

40 m /132'

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:

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
12-0707	1	Arm kit with magnets
12-0990	1	Adjustable magnet for offset hub arms
12-0282	1	Extension arms Linebore
12-0341	1	Self centering detector bracket for ∅300–1200 mm
12-0588	1	Large target E-series
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)
03-0792	1	Toolbox
03-0967	1	Hexagon wrench set
03-0878	1	Cleaning cloth for optics
12-0986	1	Carrying case Linebore D

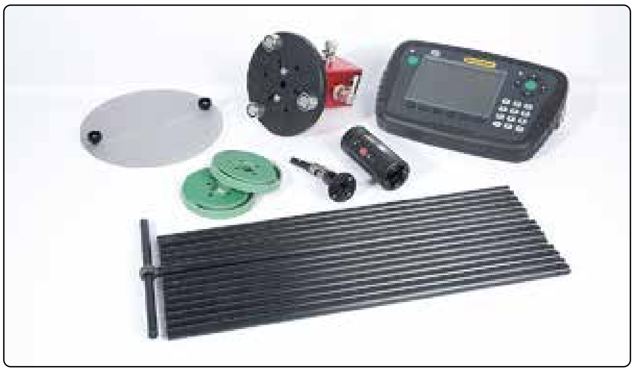
Complete system:

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

Examples of accessories:

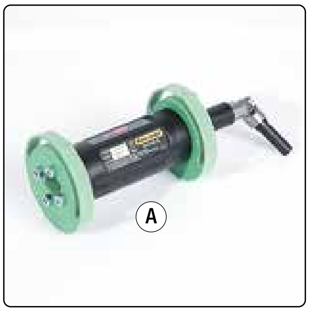
12-0823	1	E30 Long Range laser
12-0434	1	Measuring unit M
12-0433	1	Measuring unit S
12-0016	1	V-bracket with chain
01-1165	1	Offset bracket
12-0187	1	Magnetic bracket for D75
12-0282	1	Set of extension arms
12-0597	1	Splitter box
03-1004	1	Thermal printer
12-0022	1	Laser transmitter D22
12-0455	1	Slide bracket Min. ∅120 mm
12-0543	1	Slide bracket Min. ∅200 mm
12-0510	1	Slide bracket Min. ∅300 mm

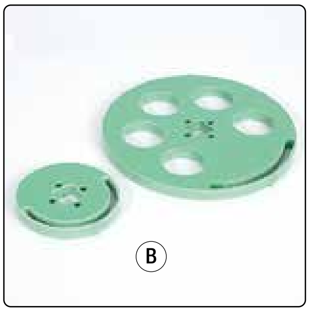
Note: always check number of items included for each Part No. before ordering.

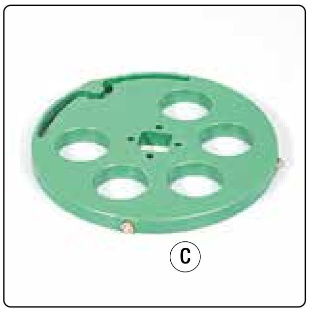


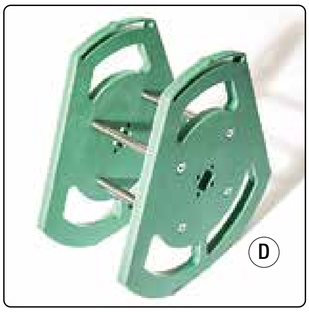
2 AXIS PSD

40 m /132'









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 barrels. Another application can be hydraulic pipes for example. With the system, barrels with diameters from 50 mm to 250 mm can be measured. The actual measurable length depends on the diameter and type of barrel, therefore always consult your Easy-Laser representative for further discussions. 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.

D. Tube adapters for fluted barrels is an option, not included.

A complete system contains:

12-0418	1	Display unit E-series E51
12-0075	1	Laser transmitter D75
12-0759	1	Detector E9
12-0074	1	Cable 2 m
12-0108	1	Cable 5 m, extension
12-0187	1	Bracket for D75 with magnets
01-0777	(1)	Set of brackets for detector (Single barrel)
01-2222	(1)	Set of brackets for detector (Dual barrel)
12-0792	1	Set of extension rods for detector (6.3 m)
12-0810	1	Target for extruder
12-0495	1	Shoulder strap for Display unit
05-0685	1	Manual (Note: Refers to English manual)
03-0842	1	Measuring tape 5 m
03-0914	1	USB Memory stick with documentation
03-0822	1	USB Cable
03-1243	1	Battery charger (100–240 V AC)
03-0967	1	Hexagon wrench set
03-0878	1	Cleaning cloth for optics
12-0811	1	Carrying case

(1)=Included depending on customer choice.

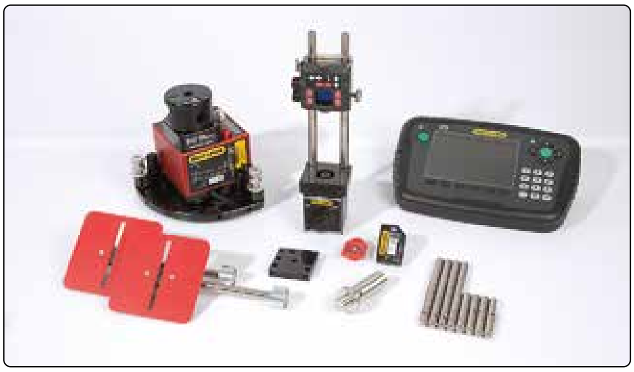
Examples of accessories:

12-1270	1	Tube adapters for fluted barrels
12-0767	1	Rod adapter with built in target
12-0022	1	Laser transmitter D22
12-0436	1	Wireless unit
12-0434	1	Measuring unit EM
12-0433	1	Measuring unit ES
12-0016	1	V-bracket with chain
12-0013	1	Magnet base
12-1011	1	Magnetic bracket
12-1012	1	Thin shaft bracket
12-1010	1	Sliding bracket
01-1165	1	Offset bracket
12-0125	1	Cardan bracket
12-0553	1	Bore bracket adapter plate
12-0314	1	Detector arms Linebore
12-0597	1	Splitter box
03-1004	1	Thermal printer

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

Easy-Laser® E920 Geometric

Part No: 12-0771



2 AXIS PSD

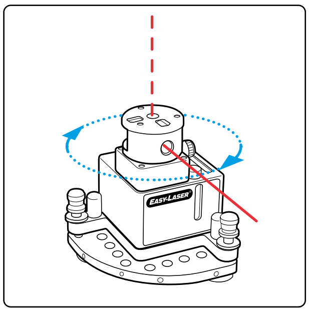
40 m /132'

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
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

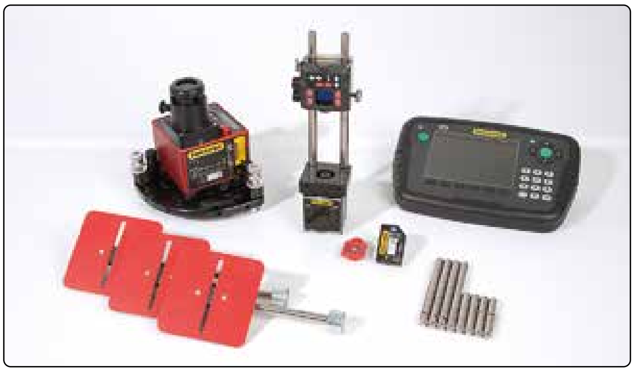
Complete system:

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

Examples of accessories:

12-0759	1	Detector E9, 2-axis
12-1053	1	XT190 BTA
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. ∅120 mm
12-0543	1	Slide bracket Min. ∅200 mm
12-0510	1	Slide bracket Min. ∅300 mm
12-0269	1	Tripod
12-1136	1	Angular prism
01-2232	1	Tripod adaptor for Angular prism
03-1406	1	Safety strap Bahco 3875-LY2

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



2 AXIS PSD

20 m / 66'

SPIN LASER TECHNOLOGY™

DUAL DETECTION TECHNOLOGY™

Easy-Laser® E915 Flange Spin

Part No: 12-0526

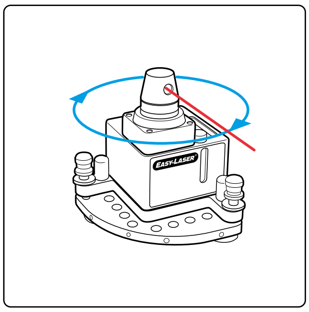
Measure flatness easily with spinning laser

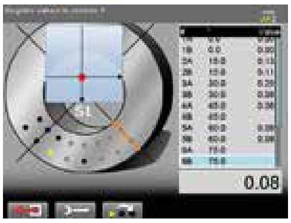
This system is mainly for wind turbine tower producers who want to measure flatness of flanges. Similar applications can be e.g. slewing bearings. You can see the result as a true 3D image in the display unit directly after measuring. Then evaluate the result easily with different calculation settings, 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.*





Sectional flatness program

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 E5
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
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
03-0878	1	Cleaning cloth for optics
12-0781	1	Carrying case

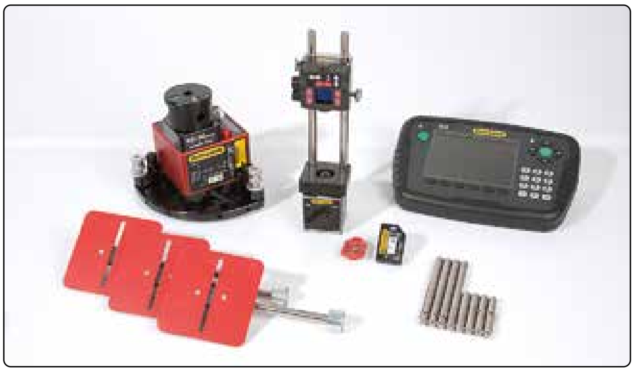
Examples of accessories:

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. ∅120 mm
12-0543	1	Slide bracket Min. ∅200 mm
12-0510	1	Slide bracket Min. ∅300 mm
03-1406	1	Safety strap Bahco 3875-LY2

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

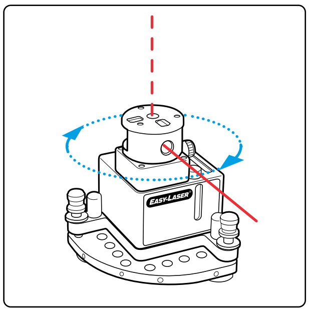
Complete system:

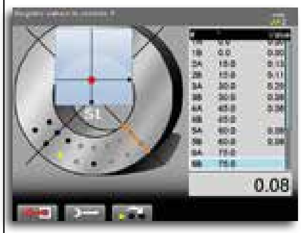
Weight: 12.1 kg [26.7 lbs]
WxHxD: 550x450x210 mm [21.6x17.7x8.3"]



2 AXIS PSD

40 m /132'





Sectional flatness program

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.*

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
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
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
03-0878	1	Cleaning cloth for optics
12-0781	1	Carrying case

Examples of accessories:

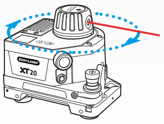
12-0434	1	Measuring unit EM
12-0433	1	Measuring unit ES
12-0016	1	V-bracket with chain
01-1165	1	Offset bracket
12-0597	1	Splitter box
03-1004	1	Thermal printer
12-0455	1	Slide bracket Min. ∅120 mm
12-0543	1	Slide bracket Min. ∅200 mm
12-0510	1	Slide bracket Min. ∅300 mm
12-0269	1	Tripod
12-1136	1	Angular prism
01-2232	1	Tripod adaptor for Angular prism
03-1406	1	Safety strap Bahco 3875-LY2

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

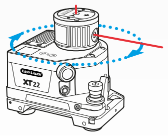
Complete system:
Weight: 12.1 kg [26.7 lbs]
WxHxD: 550x450x210 mm [21.6x17.7x8.3"]

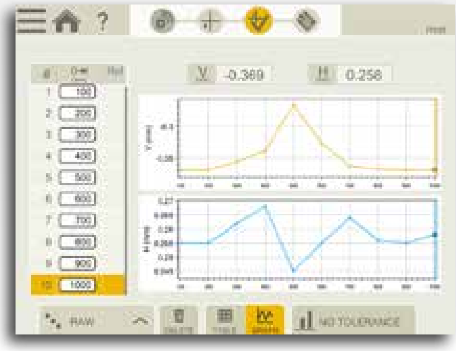
Now presenting the most user-friendly precision laser transmitters ever designed!

XT20

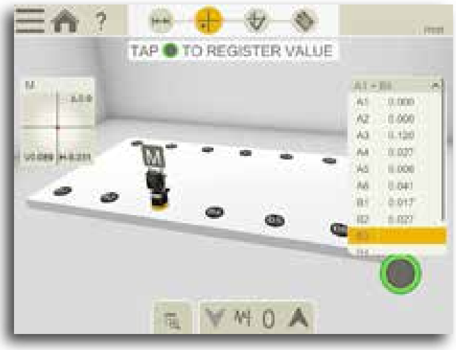


XT22



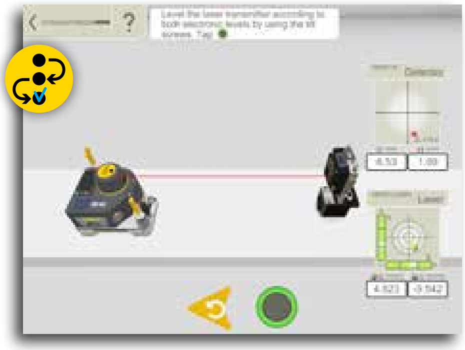


The Straightness program.

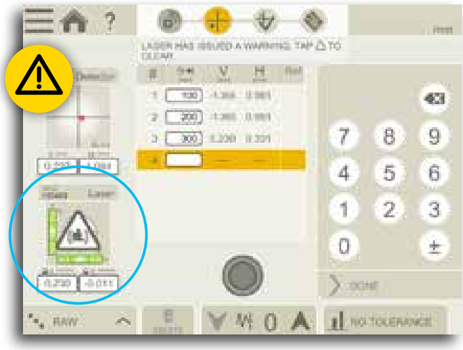


TAP ● TO REGISTER VALUE

The program for basic flatness.



Calibrating the electronic precision levels is super easy with the step-by-step guidance provided by the software.



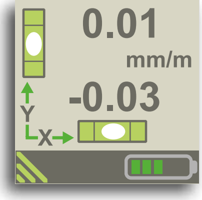
LASER HAS ISSUED A WARNING. TAP △ TO CLEAR

The built-in sensors warns on the display on events which can affect the measurement reliability.

Two models are available

Both transmitters can be used for flatness and straightness measurement. In addition, the XT22 can direct the laser beam at 90 degrees to the laser plane, which means you can solve virtually all types of geometric measurement jobs. The XT22 also has a higher technical specification for straightness thanks to fiber laser technology, and can take measurements at distances up to 40 m. The XT20 can take measurements at distances up to 20 m, but is also IP55 rated water and dust proof. Find out more in the technical specifications section at the end of this catalogue.

New technology improves reliability



We have installed electronic precision vials in the XT transmitters. This gives the advantage of faster feedback when levelling and less risk of errors during calibration, because all users see the same angular value (compared with reading spirit levels). The laser transmitters are wirelessly connected to the XT Alignment app. In this way, the user can be guided during calibration and the measurement procedure. In the event of temperature changes, vibrations or impacts that can affect the measurement result negatively, the app gives a warning during measurement. Data about the transmitter and measurement environment can be downloaded together with the report. This all provides greater reliability and traceability for your measurement jobs.

Functions for easier use

The rotating head is completely stable and retains its position during measurement. At the same time, it is easy to set the pointing direction of the laser beam to hit the detector, even at distances up to 40 m. We guarantee that this will be very much appreciated by users out in the field. All operation is also managed without the need to lock/unlock rotation, which facilitates use considerably.
Just like Easy-Laser's previous laser transmitter, the new XT20/XT22 can be mounted and positioned in many different ways: with integrated super magnets, on rods to be height adjustable, on stands and magnetic feet etc. We know that this is an important factor in practice to combat all those situations the user faces in reality.

Developed for use with the XT Alignment app

The XT20 and XT22 are used with the Value, Basic Flatness and Straightness programs in the XT Alignment app. The laser transmitters can be purchased separately (as a kit with charger and bracket) but are also included in complete systems, such as the XT770 GEO. The XT70-M device can be used as a detector. They can also be used with E series detectors. Note, however, that the XT Alignment app is required to calibrate the electronic precision vials, and other things in the design of the XT transmitters differ from previous products. They can therefore not be exchanged straight off. Ask your local distributor before purchase.

E-series Measurement programs

E

	E915 E910	E710	E980 E970 E960 E950 E930 E920
HORIZONTAL 9-12-3		●	●
SOFT FOOT		●	●
EASYTURN™		●	●
MULTIPOINT HORIZONTAL SHAFT		●	●
VERTICAL/FLANGE MOUNTED		●	●
CARDAN		●	●
MACHINE TRAIN		●	●
OFFSET AND ANGLE		●	●
VALUES (Digital Dial Indicator)	●	●	●
BELT TRANSMISSION ALIGNMENT		●	●
STRAIGHTNESS 1-point		●	●
STRAIGHTNESS 2-point (Centre of Circle)			●
STRAIGHTNESS 4-point			●
STRAIGHTNESS Multipoint			●
STRAIGHTNESS 3-point (Half circle)			●
ROUNDNESS/OVALITY MEASUREMENT			●
SPINDLE DIRECTION			●
SQUARENESS			●
FLATNESS		●	●
TWIST		●	●
FLANGE FLATNESS	●	●	●
FLANGE PARALLELISM	●		●
PARALLELISM		●	●

Easy-Laser XT Alignment App for Generation XT

RUN IT ON EASY-LASER® XT11

Download on the App Store

GET IT ON Google Play

Please note that what you can measure is in reality depending on the measurement equipment included in your system, not the *XT Alignment App*. The app always includes all programs and functions, and is free to download.

		XT190	XT280	XT290	XT440 | XT40-M/S	XT550 | XT50-M/S	XT660 | XT60-M/S	XT770 | XT70-M/S | XT20	XT980 | XT70-M | XT22
	HORIZONTAL 9-12-3				●	●	●	●	
	MACHINE TRAIN (UNLIMITED)					●		●	
	MACHINE TRAIN (3 MACHINES/2 COUPLINGS)					●	●	●	
	SOFT FOOT				●	●	●	●	
	EASYTURN™				●	●	●	●	
	MULTIPOINT HORIZONTAL SHAFT					●	●	●	
	CONTINUOUS SWEEP HORIZONTAL SHAFT					●	●	●	
	UNCOUPLED SWEEP					●	●	●	
	WIDE LIVE Allows for live adjustment at larger angles, vertically and horizontally separately.				●	●	●	●	
	360 LIVE Allows for live adjustment at any position, in both directions simultaneously.							●	
	ADJUSTMENT GUIDE Simulate effects of shimming to decide optimum adjustment. For programs Horizontal and Machine train.					●		●	
	VERTICAL/FLANGE MOUNTED				●	●	●	●	
	CARDAN/OFFSET MOUNTED (NOTE: Requires the Cardan bracket kit.)					●	●	●	
V 0.00 H 0.00	**VALUES (Digital Dial Indicator)**				●	●	●	●	●
	LEVEL Part of Values program. (NOTE: The level function requires XT290 Level.)			●	●	●	●	●	●
	TWIST Check base twist and flatness with the M and S measuring units.					●	●	●	
	BASIC FLATNESS Measure two rows of points, 2 to 8 at each. To be used with separate laser transmitter like the XT20, XT22 or D22.							●	●
	STRAIGHTNESS For use with separate laser transmitter (e.g. XT20/XT22/D22).							●	●
	EASYTREND™ Monitor and record machine movement over time. (NOTE: The EasyTrend™ program requires DM-brackets.)							●	
	BELT TRANSMISSION ALIGNMENT (NOTE: The Belt alignment program requires XT190 BTA.)	●			●	●	●	●	●
	VIBRATION MEASUREMENT (NOTE: The Vibration measurement program requires XT280 VIB.)		●		●	●	●	●	●

Continued on next page >>

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Easy-Laser XT Alignment App for Generation XT

	XT190	XT280	XT290	XT440	XT550	XT660	XT770	XT980
ONE FREE APP All measurement programs in one app. Available functionality based on which measuring unit is connected.	●	●	●	●	●	●	●	●
SHARE FILES Share via email directly from your display unit.	●	●	●	●	●	●	●	●
BUILT-IN HELP Searchable Users Manual which opens the relevant chapter depending where in the process you are.	●	●	●	●	●	●	●	●
MULTI-LINGUAL The XT Alignment App is available in multiple languages: en / de / sv / es / pt / ru / ja / ko / zh / it / fr / pl / fi	●	●	●	●	●	●	●	●
DOT LASER TECHNOLOGY – 2 AXIS							●	●
DOT LASER TECHNOLOGY – 1 AXIS					●	●		
LINE LASER TECHNOLOGY	●			●				

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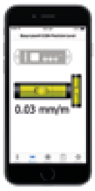
Easy-Laser® Precision Level App for E290



Download on the App Store

EASY-LASER® BUILT-IN DISPLAY

	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. *Note! Does not work with XT290.*	●

EasyLink™ 3.0 PC database program

EASYLINK™ PROGRAM

Welcome to
EasyLink™ 3.0

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. 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.

PARTS

| XT |

XT11 – Display unit for Generation XT

Part No: 12-0961

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

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.

reddot design award winner 2018

DESIGN AWARD 2017

| XT |

ECOM Tab-Ex® 02 – Display unit for Generation XT Intrinsically safe, EX/ATEX approved

Part No: 12-1196

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 Zone 1/21 & DIV1, not mining. For more detailed information, please see the ecom web site: https://www.ecom-ex.com

| E |

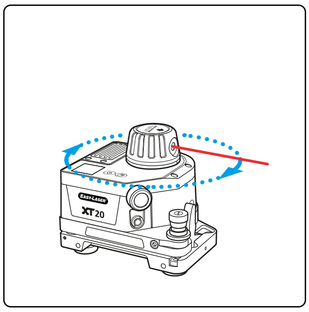
Display unit E-series: E51

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.

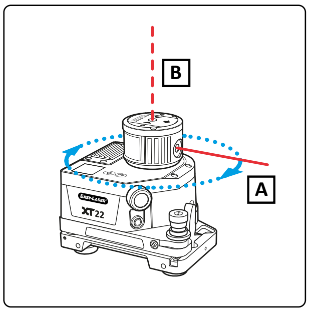
| XT | D* | E* |



Laser transmitter XT20

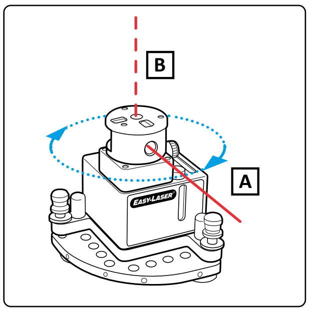
Part No: 12-1272 (only transmitter)
Part No: 12-1293 (Kit in case, incl. Multibracket and charger/cables)
Description: Laser transmitter XT20 can be used to measure flatness and straightness. The laser beam can sweep 360° with a measurement distance of up to 20 metres [66'] in radius.
Can also be used with D- and E-series systems, but with limitations.
Please also see *Technical specifications* at the end of this catalogue.
Note: The laser beam is used only for a 360° sweep.

| XT | D* | E* |



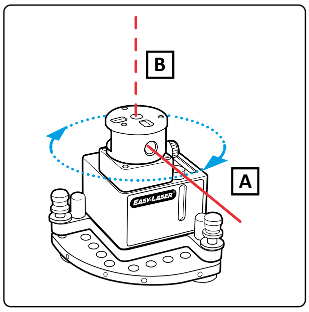
Laser transmitter XT22

Part No: 12-1273 (only transmitter)
Part No: 12-1294 (Kit in case, incl. Multibracket and charger/cables)
Description: Laser transmitter XT22 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 [132'] in radius.
Can also be used with D- and E-series systems, but with limitations.
Please also 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 pointed 90° to the sweep.



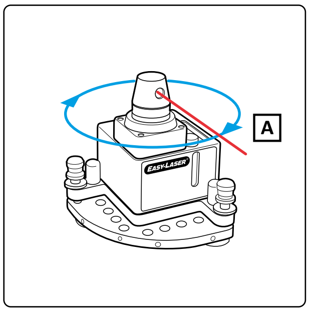
Laser transmitter D26 Swivel

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.



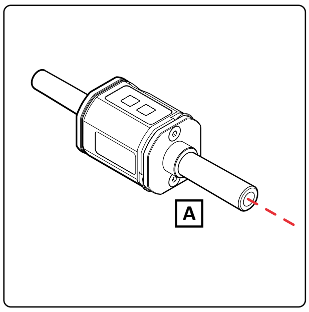
Laser transmitter D22 Swivel

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

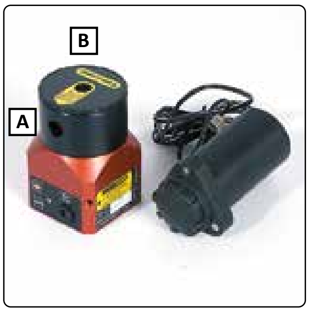
Part No: 12-0146
Description: For measuring spindle direction and straightness. Can be used in a rotating spindle (max. 2000 rpm). Measurement distance 20 metres [65']. Mounting pin ∅20 mm [0.79"].
Note: A. An extra mounting pin (Part No. 12-0568) can be fitted at the laser aperture side (A), making it possible to align, for example, bar feeders. (Be aware that the standard mounting pin displayed on the left image cannot be detached from the transmitter.)

Laser transmitter D75

Part No: 12-0075

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

Note: With tilting screws for laser beam adjustment.



Laser transmitter D25

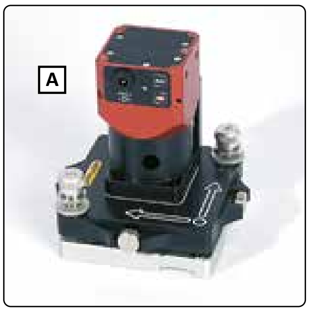
Part No: 12-0594

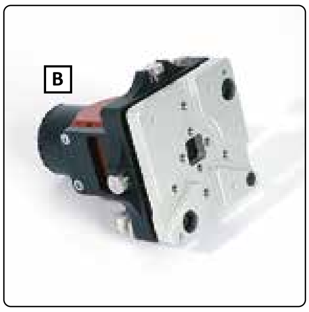
Description: For measuring straightness primarily in turbine applications. Measurement distance 40 m [130’]. The laser beam can sweep 360°, and can be angled 90° to the sweep.

Note: Battery adaptor included. Brackets, arms and/or offset hub may also be needed, but are not included. See also 12-0706.

Option A. The laser beam is used for a 360° sweep.

Option B. The laser beam is angled at 90° to the sweep.





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).

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).

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.)

| E |

Detector E9, 2-axis PSD

Part No: 12-0759

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

Note: Make sure you have a suitable bracket!

| E |

Detector E7H, HyperPSD™

Part No: 12-0824

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

| E |

Detector E7

Part No: 12-0752

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

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

| E |

Detector E5

Part No: 12-0509

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

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

| E |

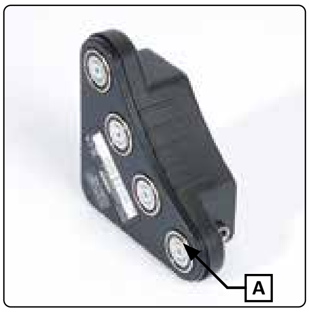
Detector E3

Part No: 12-0799

Description: Detector for the E-series. 2 axis PSD, 30x30 mm [1.18”x1.18”]. 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.

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

| E | XT |



XT & E-series wireless Detector for belt alignment

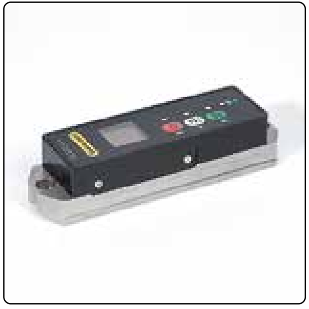
Part No: 12-1054

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.

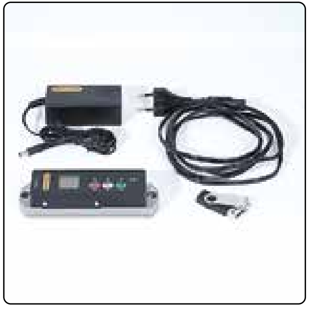
| E |



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.

| E |



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).

| E |

Measuring unit EMH, dot laser, 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.

| E |

Measuring unit ESH, dot laser, 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.

| E |

Measuring unit EM, dot laser, 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 [0.79x0.79"].
Note: To be used in pair with S unit 12-0433. E-series measuring unit.

| E |

Measuring unit ES, dot laser, 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 [0.79x0.79"].
Note: To be used in pair with M unit 12-0434. E-series measuring unit.

| XT |

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.

| XT |

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.

| XT |

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.

| XT |

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.

| XT |

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.

| XT |

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.

| XT |

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, or as a separate detector for GEO-programs. XT-series measuring unit.

| XT |

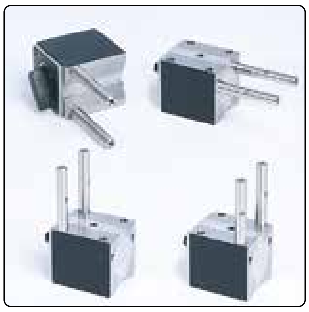
Measuring unit XT70-S, dot laser, PSD 20x20 mm, 2-axis

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.

| D | E | XT* |



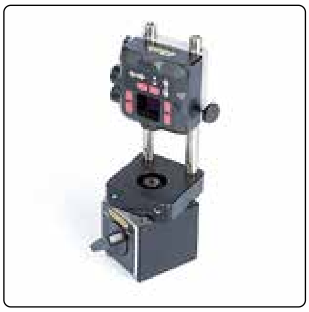
Magnet base

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.

| D | E | XT* |



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.

| D | E | XT |

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: -

| D | E |

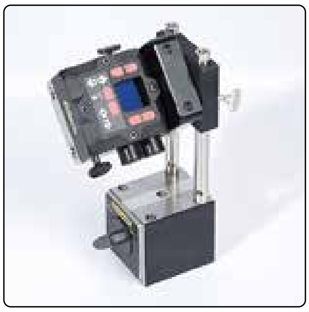
Tilt table with magnet base

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.

| D | E |



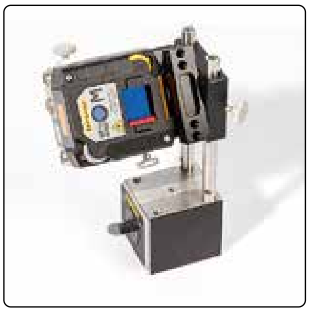
Rotating detector bracket for rods

Part No: 12-0169

Description: Allows for 360° swivel.

Note: -

| D | E | XT |



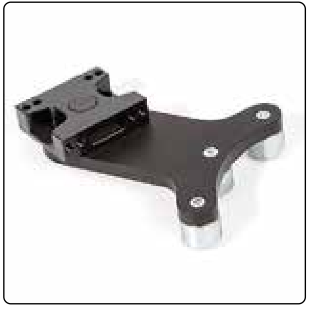
Rotating detector bracket for rods

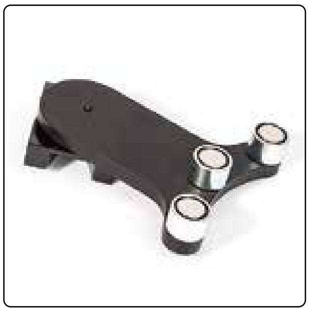
Part No: 12-1209

Description: Allows for 360° swivel.

Note: -

| D | E | XT |





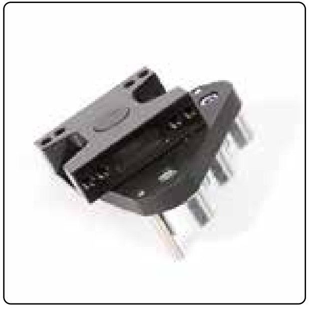
Magnet bracket long, with turnable head

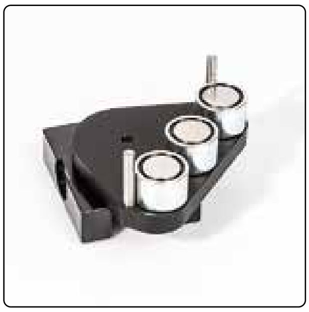
Part No: 12-1210

Description: Allows for 360° swivel.

Note: -

| D | E | XT |





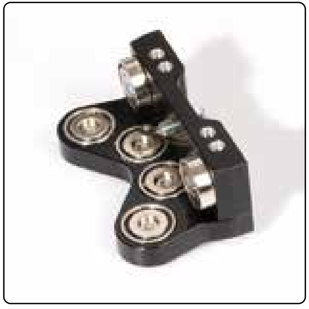
Magnet bracket short, with turnable head

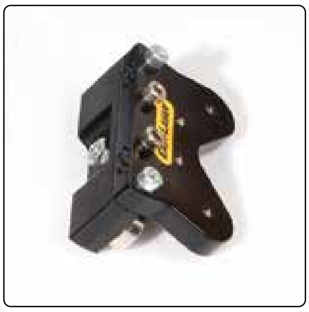
Part No: 12-1211

Description: Allows for 360° swivel.

Note: -

| D | E | XT |





Detector bracket for centering on wire position

Part No: 12-1262

Description: Mainly for sawmill applications.

Note: -

Extension for set square 12-1087, 295 mm

Part No: 12-1123

Description: Extension plate for set square Part. No. 12-1087.

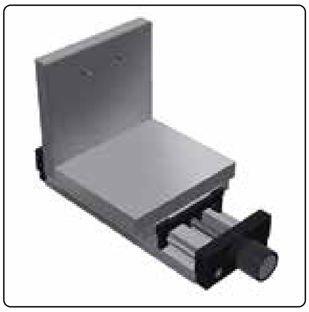
Note: -

Extension for set square 12-1087, 430 mm

Part No: 12-1124

Description: Extension plate for set square Part. No. 12-1087.

Note: -



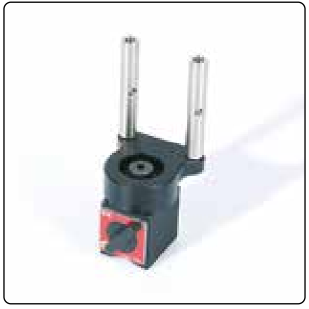
Bracket (Set square) for transmitter

Part No: 12-0503

Description: -

Note: Mainly for sawmill applications.

| D | E |



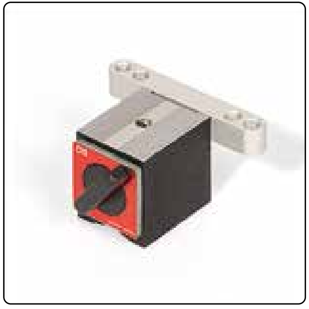
Small magnet base with turnable head

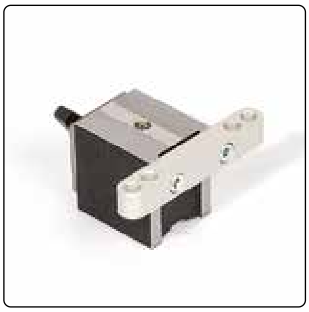
Part No: 12-0696

Description: With On/Off function and 360° turnable head.

Note: Includes 2 rods 60 mm [2.36"].

| D | E | XT |





Small magnet base

Part No: 12-1092

Description: To be used when a low and small magnet base is needed. Height 35 mm [1.38"], magnet base width x length appr. 35x30 mm [1.38x1.18"].

Note: Can be used with D, E and XT series units.

| D | E |

Magnet base with linear digital scale

Part No: 12-0230

Description: -

Note: Choose length of the linear guide: Standard lengths 100/150/200/300/400 mm. Comes with standard magnet base, but can be also mounted on 12-0045 and 12-1133. Detector not included.

| E |

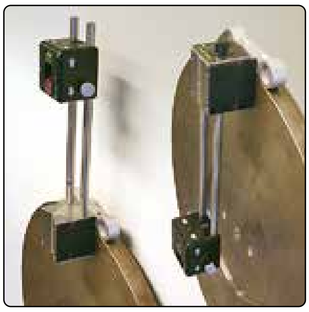
Height adjustment bracket for detector

Part No: 12-0937

Description: For fine adjustment of detector on rods.

Note: -

| D | E | XT |



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: -

| D550 |

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.

| D | E |

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.

| D | E | XT |

Magnetic bracket

Part No: 12-1147

Description: For axial mounting on flanges or shafts. With M6 screws working as radial supports, and four super magnets.

Note1: For rod C–C 40 and 56 mm.

Note2: Older design of bracket on rightmost picture.

| D | E | XT |

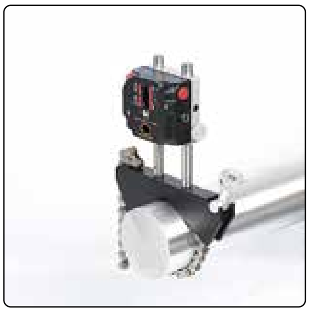
Magnetic brackets and rods, kit

Part No: 12-1017

Description: 2 magnetic brackets and 4pcs rods 120 mm [4.72”] in small case.

Note: -

| D | E |



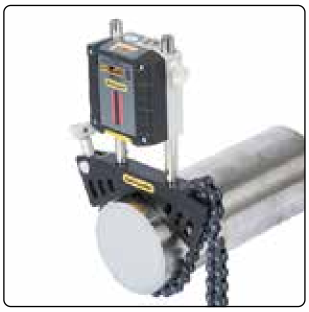
V-bracket with chain

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.

| XT |



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"].

| XT |

V-bracket with stainless steel chain and rods

Part No: 12-1040

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. 12-1038] for shafts larger than diameter 150 mm [6"].

| D | E | XT |

Standard chains

Part No: 12-0625

Description: Standard chains for shaft alignment brackets.

Note: 2 pcs. Includes plastic box.

| D | E |

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.

| E | XT |

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.

| XT |

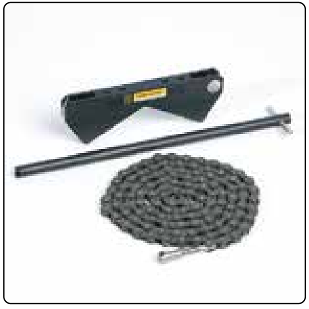
Extension chain stainless steel, set

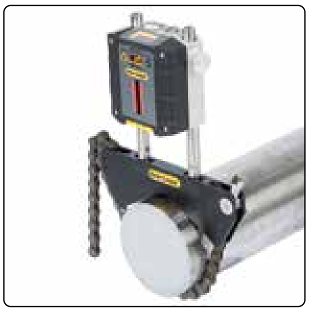
Part No: 12-1038

Description: For extension of stainless steel chains. For shaft diameters 150–450 mm [5.9–17.7"].

Note: 2 pcs. included, with plastic box.

| D | E | XT |





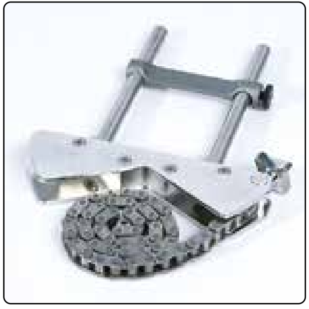
Thin chain bracket

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.

| D550 |



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: -

| D550 |

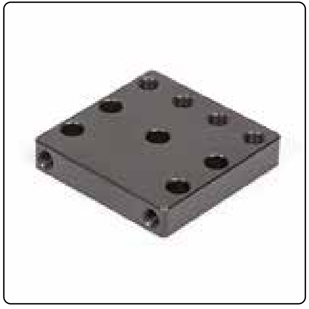
Extension chain, stainless steel

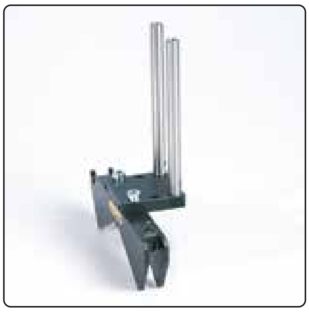
Part No: 12-0363

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.

| D | E |





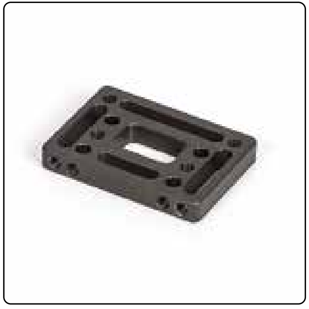
Offset bracket

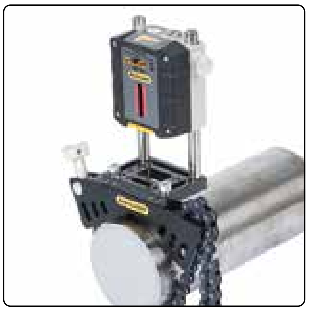
Part No: 01-1165

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.

| D | E | XT |





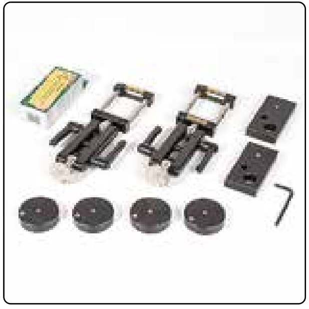
Offset bracket

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.

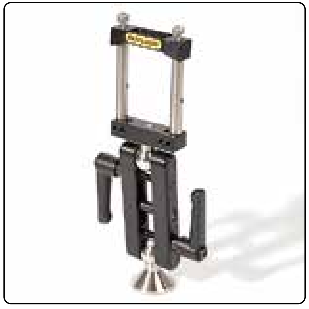
| XT | E |



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: -

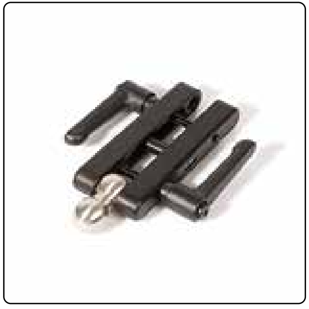
| XT | E |



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.

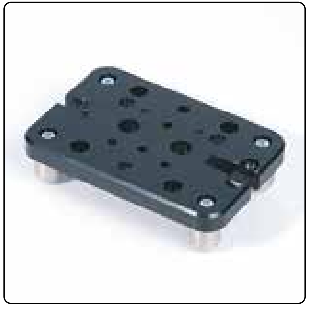
| XT | E |



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.

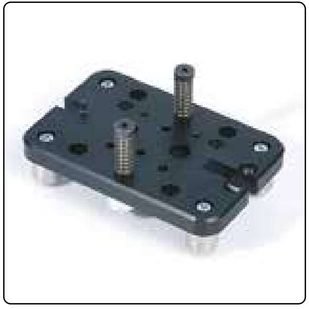
| D | E | XT |



Sliding bracket

Part No: 12-1010
Description: For shaft alignment. The spherical feet can be placed in two different positions for adaption to small or large shaft diameters. Min./Max. diameters 90–600 mm [3.5–23.6”].
Used when the shafts cannot be rotated. Mounted with standard chains (not included).
Note: Photos show old threadings, but are otherwise correct.

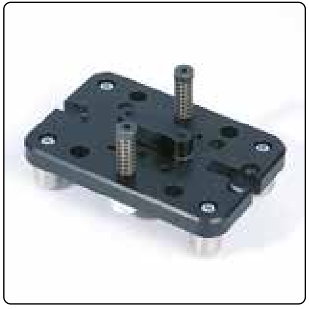
| D | E |



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: -

| D | E |



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: -

| D | E |

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: -

| D |

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.

| E |

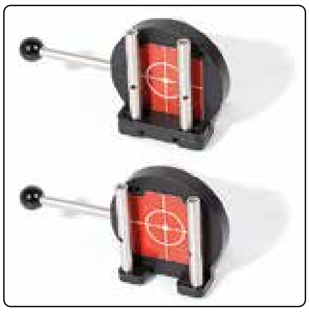
Cardan bracket set

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.

| E | XT |



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. Weight: 8 kg [17.6 lbs], WxHxD: 500x380x140 [19.7x15.0x5.5"]

| D | E | XT |

Rod, 30 mm [1.18"]

Part No: 01-0938

Description: Stainless steel. Diameter 10 mm. Extendable.

Note: 1 pcs.

| D | E | XT |

Rods, 60 mm [2.36"]

Part No: 12-0059

Description: Stainless steel. Diameter 10 mm. Extendable. Plastic holder included.

Note: 4 pcs.

| D | E | XT |

Rods, 75 mm [2.95"]

Part No: 12-1161

Description: Stainless steel. Diameter 10 mm. Extendable. Plastic holder included.

Note: 4 pcs.

| D | E | XT |

Rods, 120 mm [4.72"]

Part No: 12-0987

Description: Stainless steel. Diameter 10 mm. Extendable. Plastic holder included.

Note: 4 pcs.

| D | E | XT |

Rods, 120 mm [4.72”]

Part No: 12-0324

Description: Stainless steel. Diameter 10 mm. Extendable. Plastic holder included.

Note: 8 pcs.

| D | E | XT |

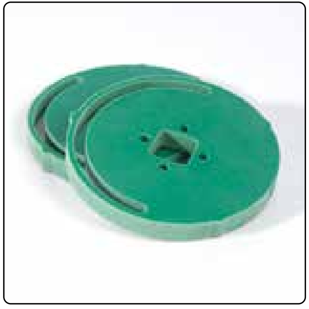
Rods, 240 mm [9.44"]

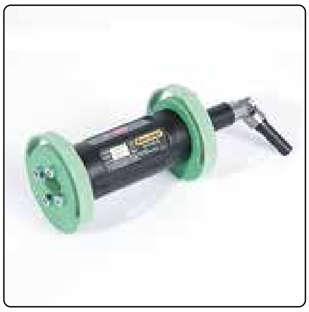
Part No: 12-0060

Description: Stainless steel. Diameter 10 mm. Extendable. Plastic holder included.

Note: 4 pcs.

| D | E |





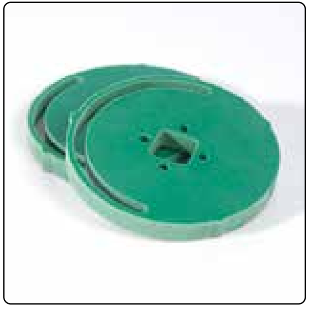
Tube adapters for detector E9

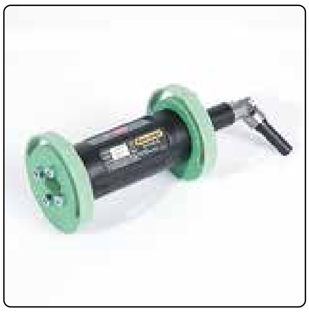
Part No: 01-0777

Description: Adapters mainly for mounting of detector when used for extruder measurements. For use in single barrels.

Note: Manufactured on request to your specified diameter up to 250 mm [9.84"]. 2 pcs included. Includes items as pictured leftmost. Can also fit on detector D157 (discontinued).

| D | E |





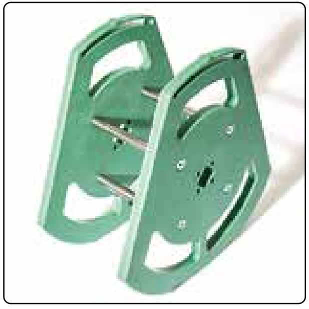
Tube adapters for detector E9, for dual barrels

Part No: 01-2222

Description: Adapters mainly for mounting of detector when used for extruder measurements. These adapters are designed specifically for use in dual barrels.

Note: Manufactured on request to your specified diameter up to 250 mm [9.84"]. 2 pcs included. Includes items as pictured leftmost. Can also fit on detector D157 (discontinued).

| D | E |



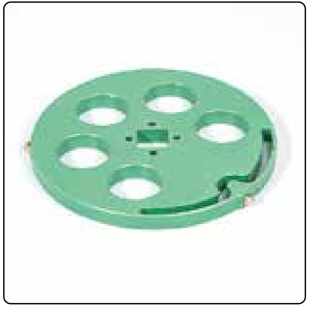
Tube adapters for fluted barrels

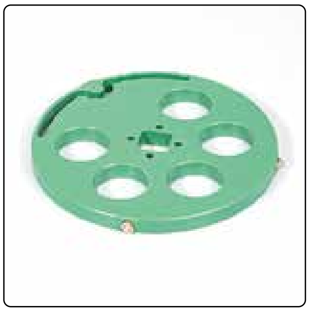
Part No: 12-1270

Description: Adapters mainly for mounting of detector E9 and used for extruder measurements.

Note: Manufactured on request to your specified diameter up to 250 mm [9.84”]. Included items: 2 pcs adapters, 4 pcs rods 99.9 mm, 8 pcs M5x16 MF6S, 4 pcs M5x16 MC6S, 4 pcs M5x20 MC6S.

| D | E |





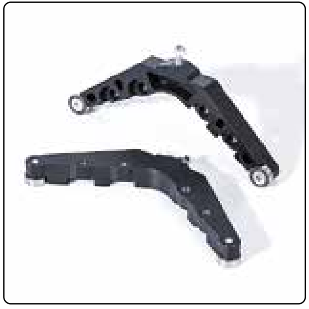
Tube adapters with metal points

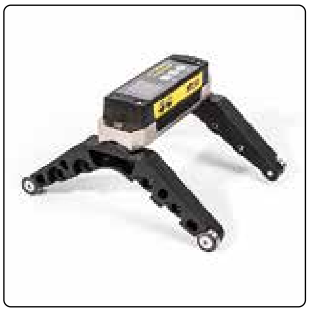
Part No: -

Description: Adapters mainly for mounting of detector 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 up to 250 mm [9.84”]. 2 pcs included. Can also fit on detctor D157 (discontinued).

| E | XT |





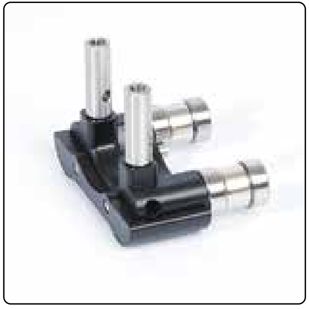
Extension Kit for precision level for large diameters

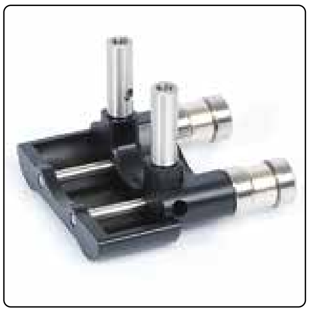
Part No: 12-0901

Description: For using the E290 or XT290 Precision Level on diameters 55–800 mm [2.16–31.50"].

Note: Includes 2 legs, 4 magnets and mounting screws.

| E |





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 ∅80– mm [3.15"–]. Magnetic feet holds the bracket safely also upside down. With positioning guide (extended on picture to the right). Guide can be removed.

Note: Designed to fit with rod adapter 12-0767 and detectors E8/E9. If used with other detectors and adapters, it is those which determines the minimum measurable diameter.

| E |

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.

| D | E |

Slide bracket min. ∅100 mm [3.94"]

Part No: 12-0343

Description: For bore straightness measurement. Hard anodised surface. For bores ∅100–200 mm [3.94"–7,88"].

Note: -

| D | E |

Slide bracket min. ∅120 mm [4.72"]

Part No: 12-0455

Description: For bore straightness measurement. With magnetic feet. For bores ∅120–250 mm [4.72"–9.84"], width Min. 60 mm [2.36"].

Note: When used with detector E7 the Min. diameter is 150 mm. With detector E9 Min. diameter is 120 mm.

| D | E |

Slide bracket min. ∅200 [7.87"]

Part No: 12-0543

Description: For bore straightness measurement. With magnetic feet. For bores ∅200–350 mm [7.87"–13.78"], width Min. 80 mm [3.15"].

Note: -

| D | E |

Slide bracket min. ∅300 mm [11.81"]

Part No: 12-0510

Description: For bore straightness measurement. With magnetic feet. For bores ∅300–500 mm [11.81"–19.68"], width Min. 100 mm [3.94"].

Note: -

| D | E |

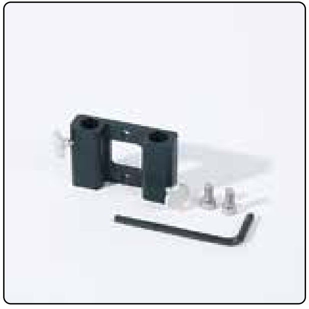
Bore bracket adapter plate

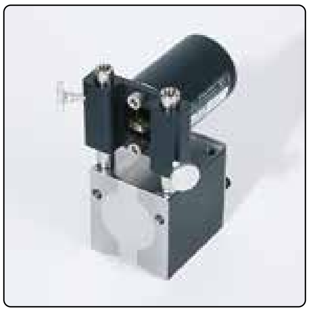
Part No: 12-0553

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.

| D |





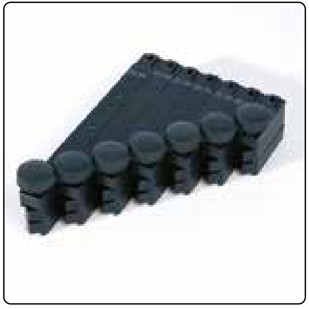
Rod adapter for D157

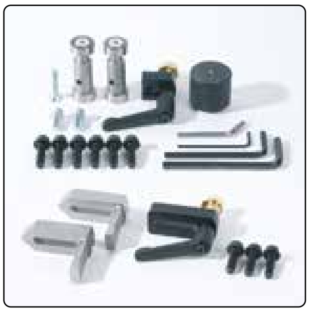
Part No: 12-0320

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.

| D | E |





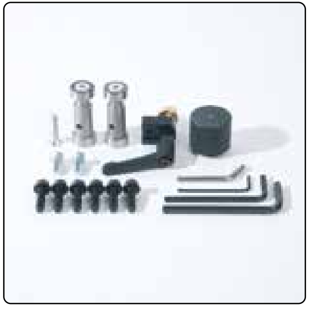
Detector arms Linebore

Part No: 12-0314

Description: For bracket 12-0553. For bores ∅120–500 mm [4.72–19.68"], 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).

| D | E |



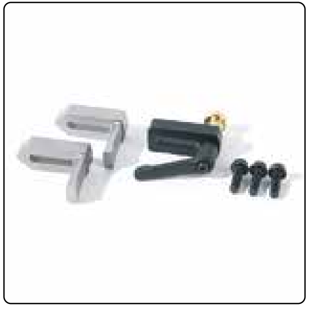
Foot set for linebore arms

Part No: 12-0134

Description: For use with linebore detector arms. Included in 12-0314.

Note: -

| D | E |



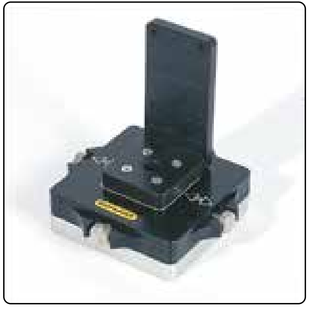
Foot set for ∅120–150 mm

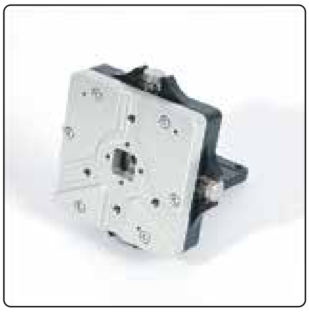
Part No: 12-0143

Description: For use with linebore detector 12-0032 and bracket 12-0553. Included in 12-0314.

Note: -

| D | E |





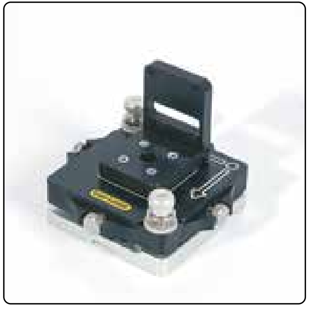
Offset hub with counterlock

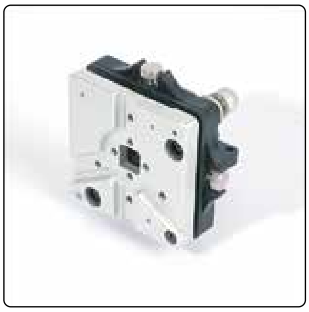
Part No: 12-0661

Description: For laser transmitter 12-0075.

Note: -

| D | E |





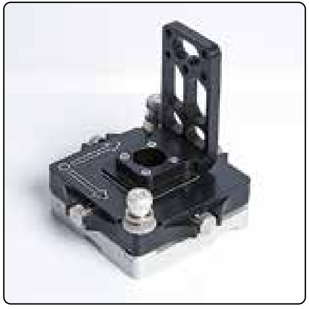
Offset hub with counterlock and tilt function

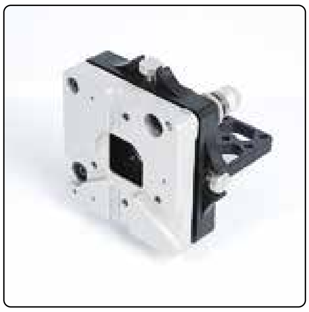
Part No: 12-0537

Description: For laser transmitter 12-0594.

Note: -

| E |





Offset hub with counterlock and tilt function for transmitter E30

Part No: 12-0828

Description: For laser transmitter E30, Part No. 12-0823.

Note: -

| D | E |

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.

| D | E |

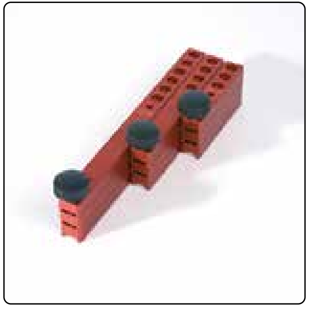
Arm kit with magnets

Part No: 12-0707

Description: For offset hub 12-0661 and 12-0537. Arms for bores ∅100–500 mm [3.94–19.68"].

Note: -

| D | E |



Offset hub arms

Part No: 12-0384

Description: For offset hub 12-0661 and 12-0537. For bores ∅100–500 mm [3.94–19.68"]. Also includes centering plug.

Note: -

| D | E |

Extension arms Linebore

Part No: 12-0282

Description: For extension of the Linebore offset hub arms. For bores ∅500–1000 mm [19.68–39.36"]

Note: -

| D | E |

Magnets for offset hub arms

Part No: 12-0154

Description: For arms 12-0384. With plastic holder.

Note: -

| D | E |

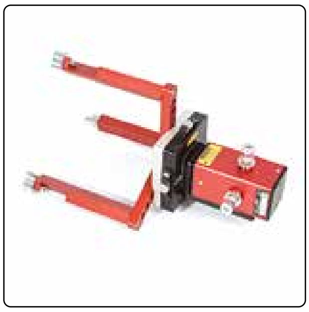
Adjustable magnet for offset hub arms

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: -

| D | E |



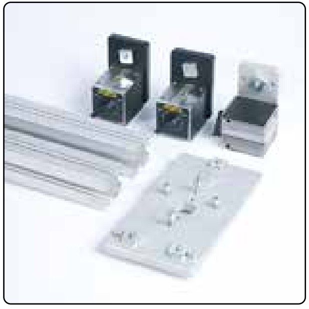
Axial extension arms, Linebore

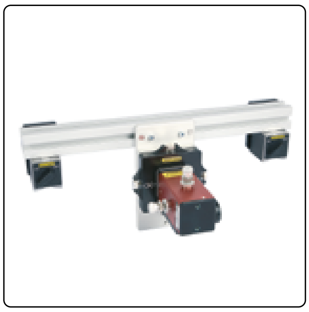
Part No: 12-0580

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.

| D | E |





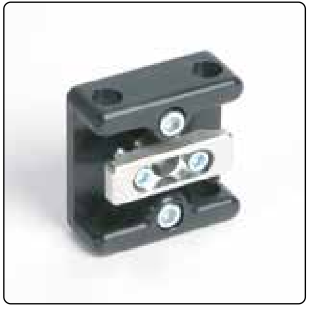
Laser transmitter bracket Turbine/Bore alignment

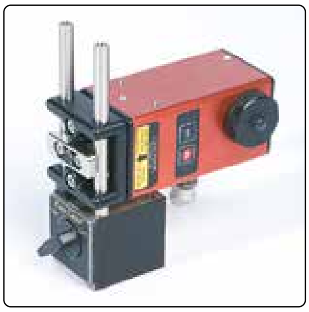
Part No: 12-0385

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.

| D | E |





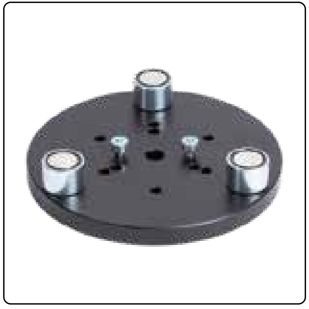
Rod bracket for laser D75

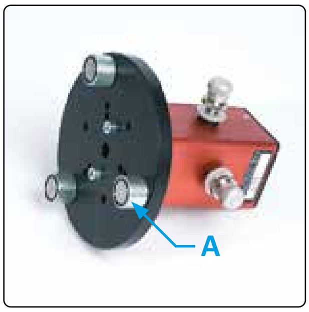
Part No: 12-0149

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

Note: -

| D | E |





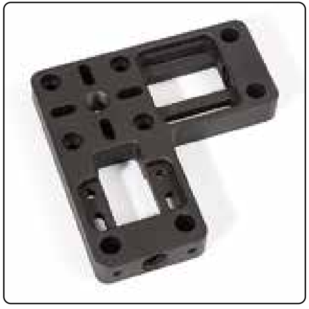
Bracket for laser D75

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.

| XT |



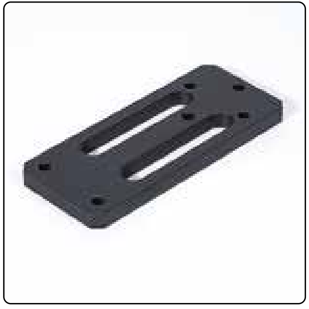
Multi bracket for XT laser transmitters

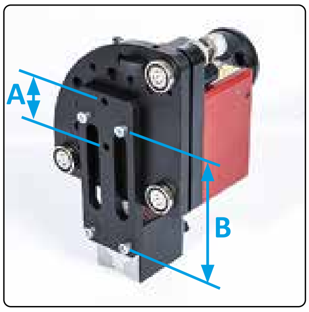
Part No: 12-1275

Description: For more mounting possibilities of the laser transmitters.

Note: For XT20 and XT22. The set of mounting screws for XT laser-transmitter (Part No. 12-1300) might also be needed if you do not already have it. Please see the *Technical specification* pages for example of use.

| D | E |





Adapter plate for tilt table to magnet base

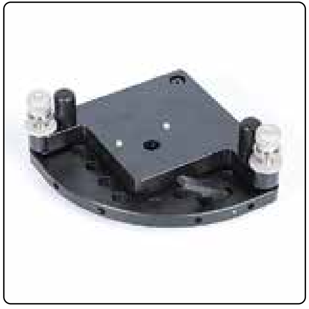
Part No: 12-0874

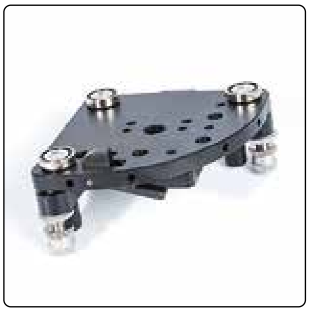
Description: For mounting D22 laser transmitter on a magnet base, or a magnet base with turnable head. Possible to turn unit 90° on bracket (mount in holes A instead).

Note: 4 screws M6x16 also needed (not included).

A: C–C=40 mm
B: C–C=106 mm

| D | E |





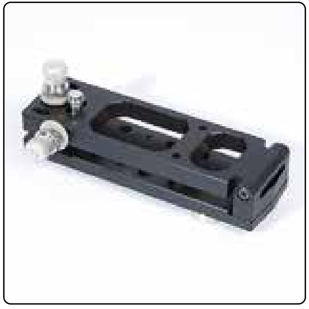
Tilt table

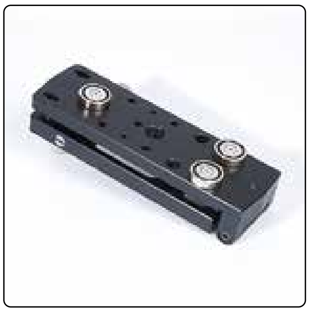
Part No: 12-0110

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).

| D | E |





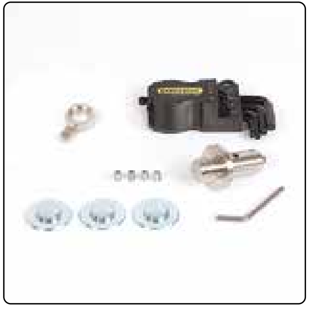
Tilt table, turnable

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: -

| D | E |



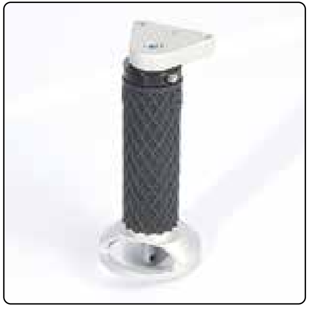
Tool kit for tilt table

Part No: 12-0622

Description: Safety strap screw (01-1402), Machine/magnet base pin (01-0139), set of Hexagon wrenches, Rod tightening tool (03-0048), Feet with flat points (3 pcs).

Note: Safety strap is separate part. Safety regulations differ from country to country. Tool kit for, and included with, Tilt table Part No. 12-0110.

| D | E |



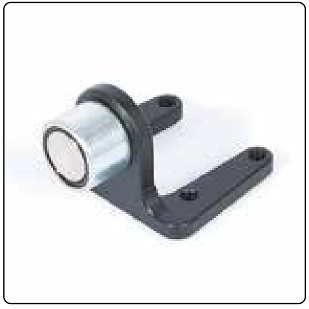
Handheld detector bracket

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.

| E |



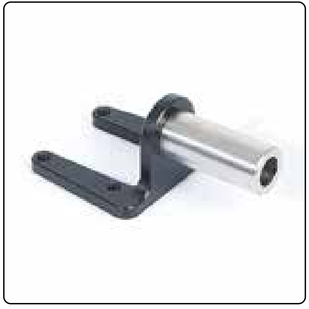
Bar bracket

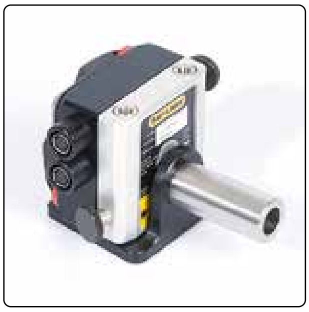
Part No: 12-0988

Description: For alignment of e.g. bar feeders. With super magnet.

Note: Rotational centre of magnet is centre for PSD.

| E |





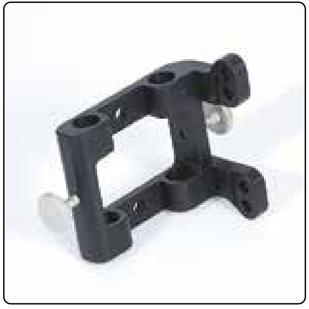
Spindle bracket for measuring unit

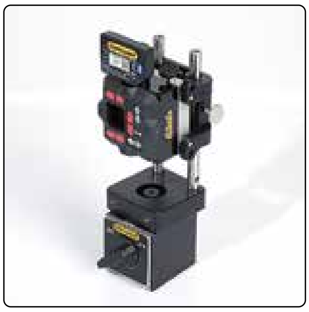
Part No: 12-0787

Description: Bracket for use with an ES-unit as laser transmitter. Clamping pin ∅ 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.

| D | E | XT |





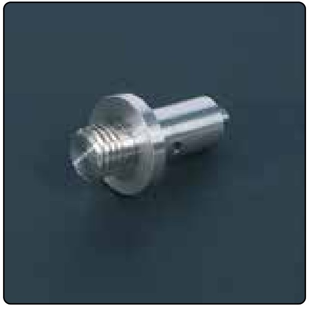
Angular adapter for detector, 90°

Part No: 12-1018

Description: Adapter positions detector exactly 90° to other direction. Mainly used for machine tool applications.

Note: -

| D | E |



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 ∅ 16 mm[0.63"], clamping length 30 mm [1.18"].

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

| D | E | XT |

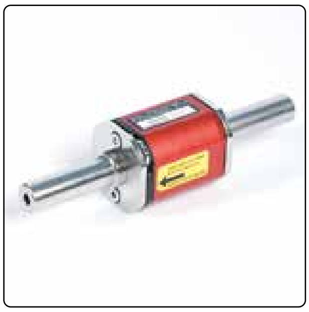
Machine/magnet base pin for D22 and D26, Long

Part No: 01-1333

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

Note: Also for laser transmitters XT20/XT22 when used with Multi bracket Part No. 12-1275.

| D | E |



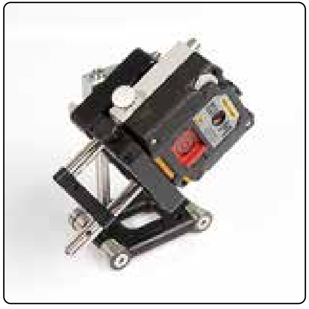
Mounting pin for D146

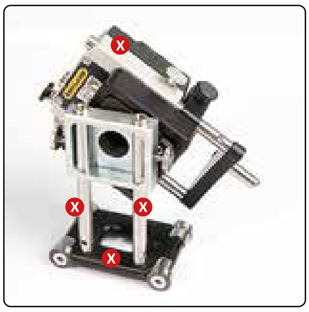
Part No: 12-0568

Description: Accessory mounting pin for laser transmitter D146. Makes it possible to point the laser beam into e.g. the chuck. Clamping ∅20 mm [0.79”].

Note: -

| XT |





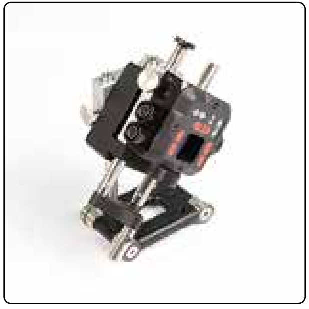
Bracket with rotatable bore probe, XT-series

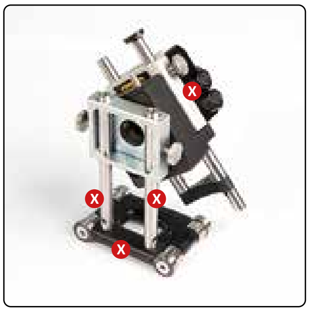
Part No: 12-1277

Description: For bore measurements. Smallest diameter 220 mm [8.67"] when mounted as pictured. This is just one example of how the bracket can be assembled, and other magnetic or non-magnetic brackets with C–C 56 mm can also be used. The detector unit can be turned, allowing the laser beam to pass through the hole in the bracket and hit the PSD. Includes 2 rods 30 mm and 4 rods 60 mm (not pictured).

Note: Items marked with X is *not* included.

| E |





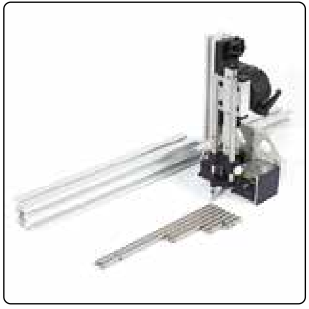
Bracket with rotatable bore probe, E-series

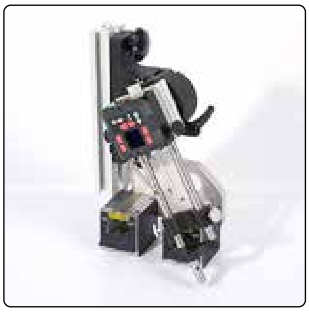
Part No: 12-1282

Description: For bore measurements. Smallest diameter 170 mm [6.70"] when mounted as pictured. This is just one example of how the bracket can be assembled, and other magnetic or non-magnetic brackets with C–C 40 mm can also be used. The detector unit can be turned, allowing the laser beam to pass through the hole in the bracket and hit the PSD. Includes 2 rods 30 mm and 4 rods 60 mm (not pictured).

Note: Items marked with X is *not* included.

| D | E |





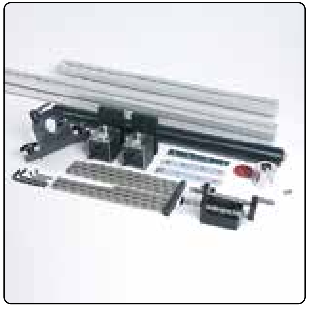
Self centering bracket, Linebore

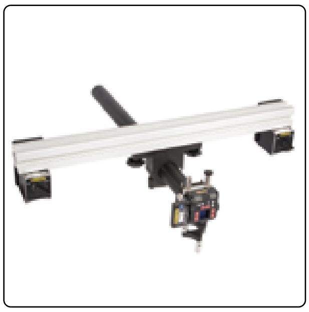
Part No: 12-0341

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.

| D | E |





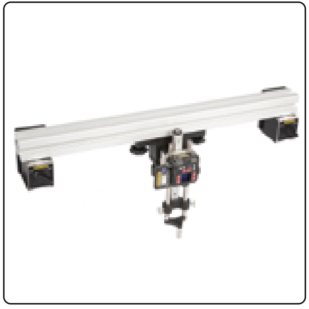
Detector bracket “short stroke”, Turbine

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 ∅ 150–1700mm [5.9”–66.9”].

Note: Detector not included.

| E |



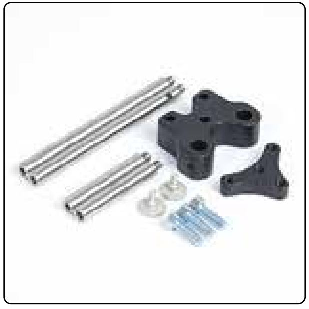
Detector bracket “long stroke”, Turbine

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 ∅ 200–1700mm [7.8”–66.9”].

Note: Detector not included.

| D | E |



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.

| D | E |

Tube bracket

Part No: 12-0814

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

Note: -

| D | E |

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]

| D | E |

Aluminium beam, 500 mm [19.68"]

Part No: 03-0769

Description: Cross section measures 44x44 mm [1.73x1.73"].

Note: -

| D | E |

Aluminium beam, 600 mm [23.62”]

Part No: 03-0770

Description: Cross section measures 44x44 mm [1.73x1.73"].

Note: -

| D | E |

Aluminium beam, 1100 mm [43.31”]

Part No: 03-0771

Description: Cross section measures 44x44 mm [1.73x1.73”].

Note: -

| D | E |

Ball top probe

Part No: 12-0439

Description: Probe for turbine measurement.

Note: -

| D | E |

Short ball top probe

Part No: 12-0490

Description: Probe for turbine measurement.

Note: -

| D | E |

Measuring probe Ruby ∅5 mm

Part No: 12-0805

Description: Probe for turbine measurement. With ruby top.

Note: -

| D | E |

Measuring probe Ruby ∅2.5 mm

Part No: 12-0801

Description: Probe for turbine measurement. With ruby top.

Note: -

| D | E |

Gauge block

Part No: 03-1291

Description: For use mainly in turbine applications. Nominal measure 8 mm [size of block 30x8x9 mm].

Note: -

| D | E |

Measuring probe, cylindrical

Part No: 12-1047

Description: For use in turbine applications.

Note: -

| D | E |

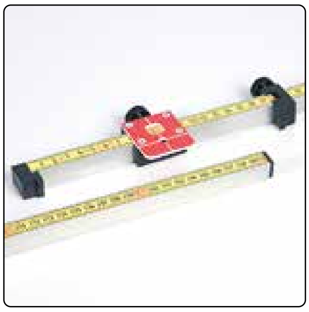
Measuring probe, cylindrical, with magnet

Part No: 12-1048

Description: For use in turbine applications.

Note: With neodym magnet in the cylinder probe.

| D | E |



Centering target, Turbine

Part No: 12-0443

Description: For rough alignment of laser beam. 1 m + 0.5 m extension.

Note: -

| D | E |

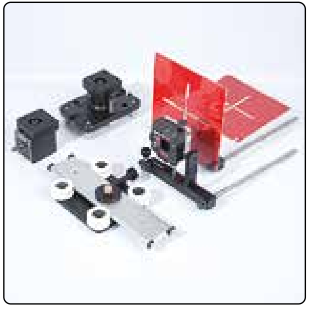
Tripod

Part No: 12-0269

Description: For use with Laser transmitter and Angular prism. Min./Max. height 500–2730 mm [19.7–107.5"]

Note: Includes tripod head Part No. 03-1338, with 5/8-11 UNC threads.

| E |



Parallelity kit

Part No: 12-0203

Description: For parallelism measurement of rolls. Includes Magnet base D45, Sliding bracket 12-0137, Sliding table 12-0202, 2 x Large target base line. Delivered in plastic case.

Note: Detector not included.

| D | E | XT |

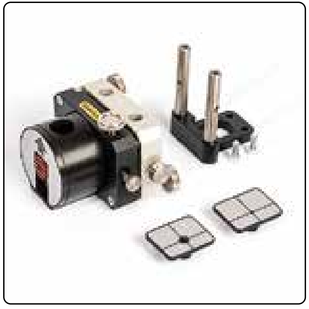
Sliding table for tripod

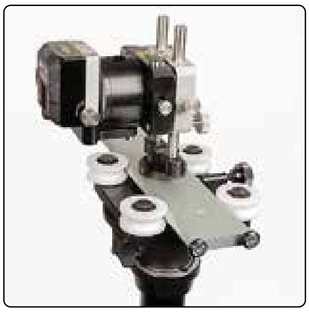
Part No: 12-0202

Description: Sliding table to mount on a tripod. For laser transmitters and angular prism. Mounted using 5/8-11 UNC thread .
Allows for 150 mm [5.9"] slide of the unit, for example to point the laser beam to a detector on a rod or flange without moving the tripod.

Note: Also for laser transmitters XT20/XT22 when used with Multi bracket Part No. 12-1275.

| D | E |





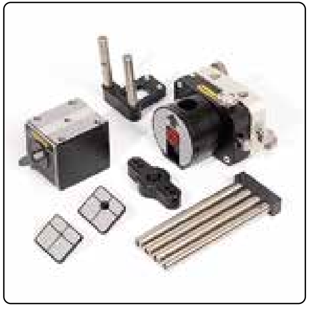
Angular prism

Part No: 12-1136

Description: Angular prism with built-in penta prism which deflects the beam 90°. With the rotatable angular prism you can reach a detector at any height on a flange or a roll when measuring parallelity.

Note: Angular prism has a rod C–C of 40 mm. Items as pictured leftmost included (prism, bracket for detector unit, laser transmitter alignment targets). The rightmost picture shows setup with detector, on tripod with sliding table 12-0202, and tripod adaptor 01-2232.

| D | E |



Angular prism, kit

Part No: 12-1221

Description: Angular prism kit in rugged carrying case.

Note: Carrying case plus items as pictured leftmost included (prism, tripod adaptor, bracket for detector unit, laser transmitter alignment targets, magnet base, 4 pcs rods 120 mm [4.72"]). Interior precut to also fit 2 pcs 12-1200 (accessories). Case measures WxHxD: 335x280x140 [13.2x11.0x5.5"], kit weight 3.8 kg [8.4 lbs].

| D | E | XT |

Tripod adaptor for Angular prism

Part No: 01-2232

Description: To be used for mounting of Angular prism on tripod. Directly mounted as pictured here, or preferably on sliding table 12-0202 as pictured at Part No. 12-1136 above.

Note: Item as pictured leftmost included. Can be used for other applications if suitable. Rod C–C 40 and 56 mm.

| D | E |

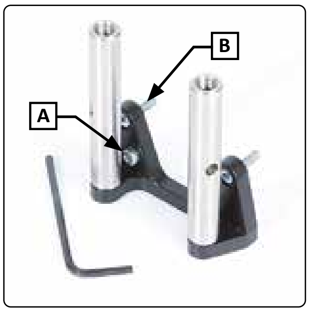
Sliding table for magnet base

Part No: 12-1200

Description: For precision adjustment, mainly of angular prism. For rod C–C 40 mm. To be mounted on magnet base 12-0013.

Note: Includes 4 pcs screws. Magnet base not included.

| D | E |



Measuring unit holder for Angular prism D46

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.
C. Does not fit 12-1136. Prism D46 (12-0046) is discontinued.

| E |

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: -

| XT |

Sun visor for XT40

Part No: 12-1205

Description: To use in very sunny conditions when light causes unstable values. Fits measuring units XT40-M/S (12-0943/12-0944).

Note: -

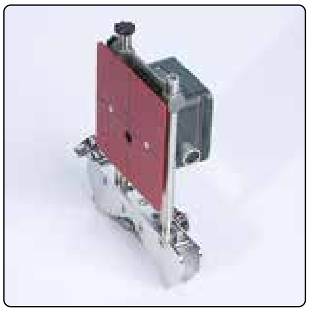
| D | E |

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.

| D550 |



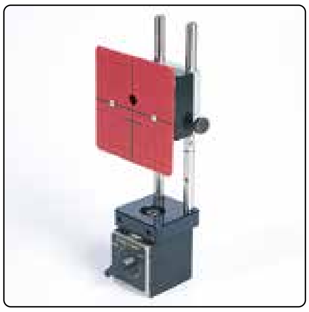
Target D550 cardan

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: -

| E |



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: -

| E |

Target E-series 20 x 20

Part No: 12-0794

Description: Rough alignment target for measuring units ES/EM, detectors E4, E5 and E7. Can be mounted to cover laser opening, functioning as dust cover and protection. With reflective centre point.

Note: Only one target included per Part No., i.e. if you order targets for a pair of measuring units, you will need two 12-0794.

| D | E |

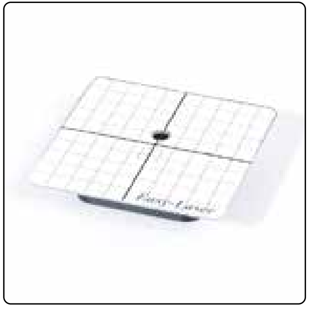
Large target extruder

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: -

| D |



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: -

| E |

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.

| D | E |

AC adaptor for D23

Part No: 12-1225

Description: For continuous power supply of the laser transmitter D23. 100–240V AC, 50–60 Hz, 600 mA / 5V DC, 4A.

Note: Also includes wall socket cable for the region where it is to be shipped (not pictured).

| E |

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.

| E |

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.

| E | XT |

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: -

| E | XT |

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.

| E |

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.

| E | XT |

DC split cable for charging

Part No: 12-0989
Description: Cable for charging the units of system E420, E540 and XT440, XT550, XT660, XT770, XT980.
Note: This cable cannot transfer any measurement data.

| D | E |

“Red cable”, 2.0 m [78.7"]

Part No: 12-0074
Description: For connecting Easy-Laser® measurement equipment. With Push-Pull connectors.
Note: -

| D | E |

“Red cable”, 0.16 m [6.3"]

Part No: 12-0494
Description: For connecting Easy-Laser® measurement equipment. With Push-Pull connectors.
Note: -

| D | E |

“Red cable”, 0.4 m [15.7"]

Part No: 12-0289
Description: For connecting Easy-Laser® measurement equipment. With Push-Pull connectors.
Note: -

| D | E |

“Red cable”, 1.0 m [39.3"]

Part No: 12-0179
Description: For connecting Easy-Laser® measurement equipment. With Push-Pull connectors.
Note: -

| D | E |

“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.

| D | E |

“Red cable”, extension, 5.0 m [16.4']

Part No: 12-0108

Description: For connecting Easy-Laser® measurement equipment. With Push-Pull connectors.

Note: Extension cable.

| D | E |

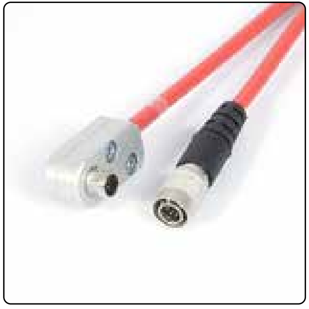
“Red cable”, extension, 10.0 m [32.8']

Part No: 12-0180

Description: For connecting Easy-Laser® measurement equipment. With Push-Pull connectors.

Note: Extension cable.

| D | E |



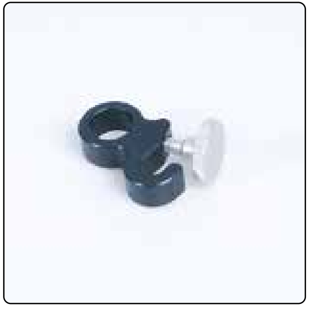
“Red cable”, 2.0 m [78.7"] with angled connector

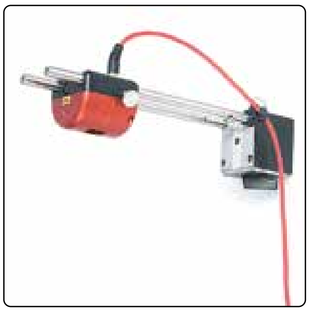
Part No: 12-0735

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: -

| D | E |





Cable support

Part No: 12-0321

Description: If the cable is accidentially 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: -

| D |

Printer cable

Part No: 03-0241

Description: For connection of the thermal printers 03-0341 and 03-0032 to display unit D279.

Note: -

| D |

PC cable (“null modem”)

Part No: 03-0333

Description: Length 1.8 m [71”]

Note: -

| D |

USB/RS232 adaptor

Part No: 03-0722

Description: Adaptor and cable extension.

Note: Requires internet connection and Windows update.

| E | XT |

USB A - USB B cable

Part No: 03-0822

Description: Cable with USB A to USB B connectors.

Note: -

| E | XT |

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: -

| E |

Charger for E-series display unit

Part No: 03-1243

Description: -

Note: Wall socket connection cable (charger cable) also needed, choose part depending on country of use.

| XT |

Charger for XT-series*

Part No: 03-1256
Description: -
Note: *Not for system XT550 or XT50 units. Wall socket connection cable also needed, choose part depending on country of use.

| XT550 |

Charger for XT550 and XT50 units

Part No: 12-1281
Description: -
Note: Wall socket connection cable (charger cable) also needed, choose part depending on country of use.

| E | XT |

Charger cable, EUR

Part No: 03-0892
Description: -
Note: Charger unit also needed.

| E | XT |

Charger cable, USA

Part No: 03-0893
Description: -
Note: Charger unit also needed.

| E | XT |

Charger cable, UK

Part No: 03-0894
Description: -
Note: Charger unit also needed.

| E | XT |

Charger cable, AUS

Part No: 03-0895
Description: -
Note: Charger unit also needed.

| E | XT |

HDMI to HDMI cable

Part No: 03-0901
Description: Length 3 m.
Note: -

| E |

VGA to VGA cable

Part No: 03-0902
Description: Length 3 m.
Note: -

| E |

Barcode reader

Part No: 12-0619
Description: For registration of machine data. Connected to the USB port.
Note: Barcode stickers are no more available from Easy-Laser, but any other type can be used instead.

| D |

Printer for D-series

Part No: 03-1323
Description: Battery operated thermal printer. With cable and 110-220V charger. For connection to all systems with display unit D279.
Note: Cable D-Sub 9-pole included. 1 paper roll included. Spare rolls, Part No. 03-0041.

| E |

Printer for E-series

Part No: 03-1004
Description: Battery operated thermal printer. With USB cable and 110–220V charger. For connection to all systems with E-series display units. Wall socket connection cable also needed, choose part depending on country of use.
Note: 1 paper roll included. Spare rolls, Part No. 03-0041.

| E |

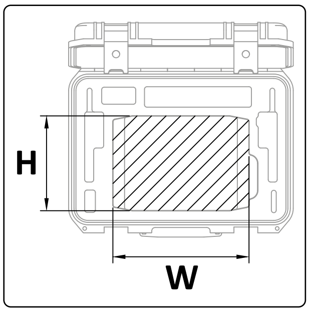
VGA/HDMI kit, for serial number 94177 and newer

Part No: 12-0840

Description: Makes it possible to show the display unit screen on a TV or projector. Includes cable 03-0901 (HDMI), cable 03-0902 (VGA), converter and VGA circuit board.

Note: Only for Display unit 12-0418 (E51) with serial number 94177 and higher. The VGA kit (the circuit board) must be ordered at system purchase for factory installation, it cannot be mounted afterwards.

| XT |



Carrying case Medium for system XT440/XT660

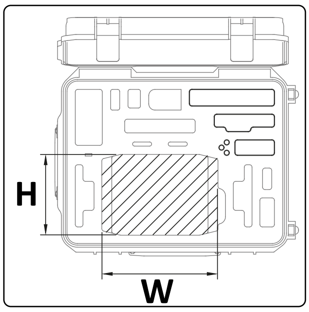
Part No: 12-0973

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.

| XT |



Carrying case Large for XT440/XT660/XT770

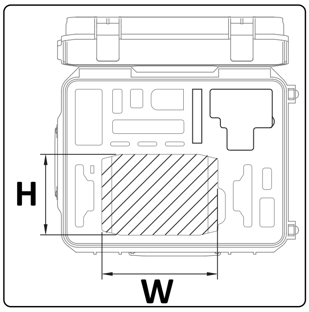
Part No: 12-1049

Description: With wheels. 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.

| XT |



Carrying case Large for XT770 + laser transmitter

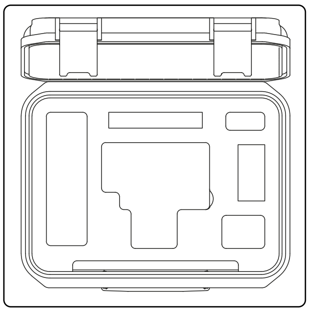
Part No: 12-1132

Description: With wheels. Pre-shaped interior for system XT770 with XT laser transmitter. Please note: No pre-cut space for BTA or VIB accessories, but the general space under the XT11 might be used.

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.

| XT |



Carrying case for XT laser transmitters

Part No: 12-1290

Description: Carrying case with pre-shaped interior for laser transmitter XT20 or XT22, plus associated accessories.

Note: No system name sticker is included if not asked for.

| E |

Carrying case for system E710

Part No: 12-0442

Description: Carrying case with pre-shaped interior for system E710.

Note: -

| D | E |

Transportation case, Cardan

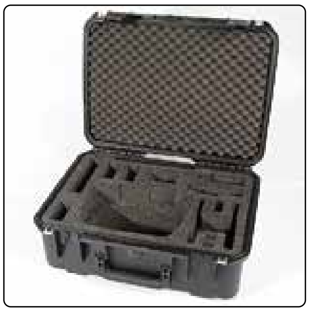
Part No: 12-0237

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.

| E |

EASY-LASER
E540



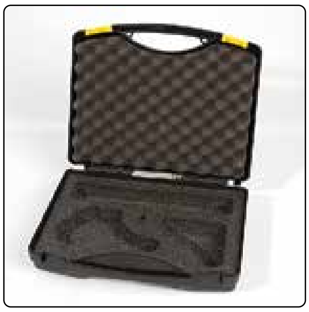
Carrying case Large for system E540

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).

| E | XT |



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.

| E | XT |

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].

| E |

Protective case for display unit E51, E52 and E53

Part No: 01-1379

Description: With strap.

Note: -

| E |

Shoulder strap for display unit E-series

Part No: 12-0495

Description: -

Note: -

| D | E | XT |

Safety strap

Part No: 03-1406

Description: Bahco 3875-LY2, for 3 kg [6.6 lbs] weight. For use with laser transmitter D22, D23 and Digital Levels E290 and XT290.

Note: Screw 01-1402 for fastening the strap might also be needed.

Screw for safety strap

Part No: 01-1402

Description: For fastening the safety strap Part No. 03-1406

Note: -

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: -

| E | XT |

Measuring tape, 3 m [9.8']

Part No: 03-0824

Description: Fits the cases for the E- and XT-systems.

Note: -

| E |

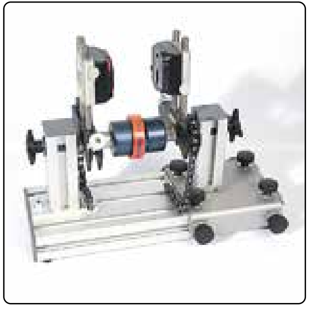
Measuring tape, 5 m [16.4']

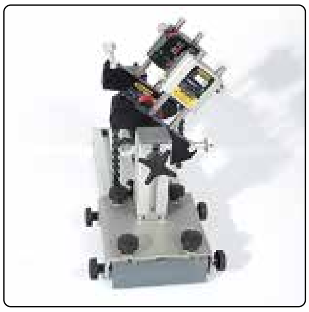
Part No: 03-0842

Description: Fits the cases for the E-series systems.

Note: -

| D | E | XT |





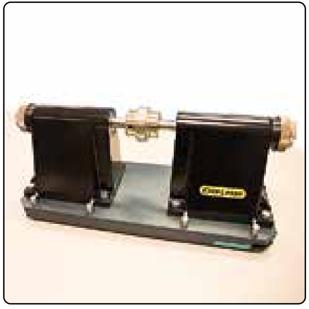
Demo unit Shaft

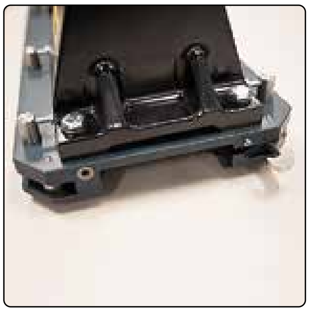
Part No: 12-0416

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.

| D | E | XT |



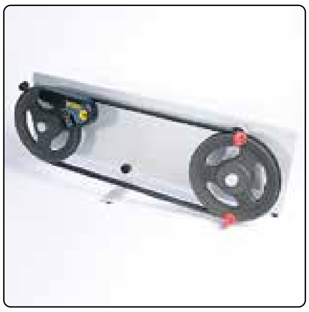


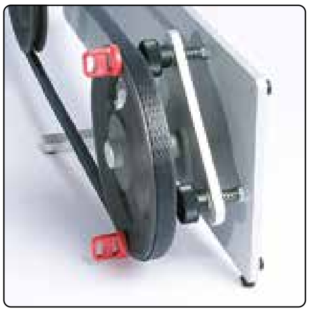
Demo unit Shaft, steel

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: WxHxD appr. 640x275x255 mm [25.2x10.8x10.0"].

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.

| XT |

Stinger for XT280

Part No: 03-1326

Description: Accessory probe for the XT280 Vibrometer.

Note: Length 100 mm.

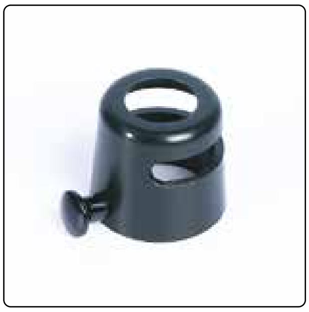
| XT |

Accelerometer magnet for XT280

Part No: 03-1327

Description: Accessory probe for the XT280 Vibrometer.

Note: -

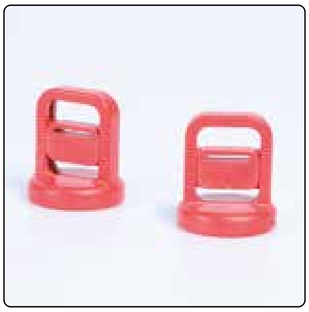


Top for D23

Part No: 01-0618 + 03-0505

Description: For protection of the rotating head.

Note: Top and screw are separate articles.

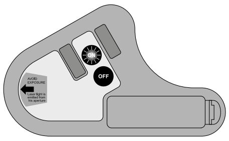


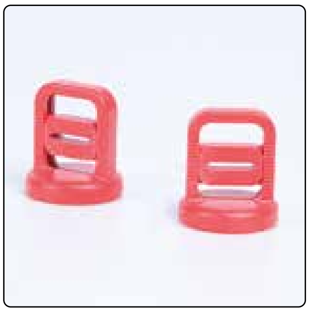
Target for BTA, 18 mm

Part No: 12-0394

Description: Suitable for laser transmitter 12-0309 and 12-0390.

Note: 1 pc.



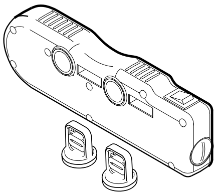


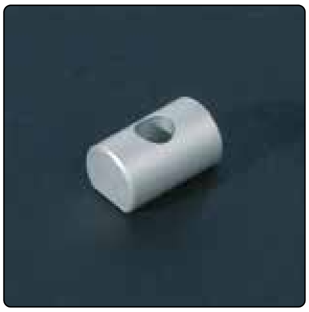
Target for BTA, 15 mm

Part No: 12-0213

Description: Suitable for Easy-Laser® D80.

Note: 1 pc.



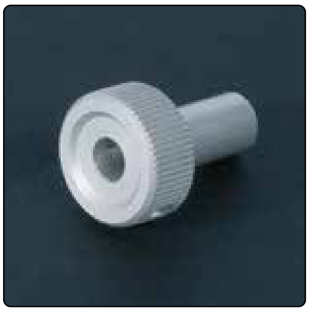


Barrel nut

Part No: 01-0045

Description: For the standard chain.

Note: -

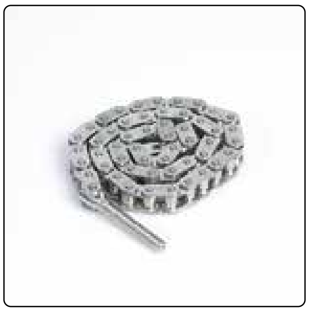


Nut

Part No: 01-0042

Description: For the standard chain.

Note: -



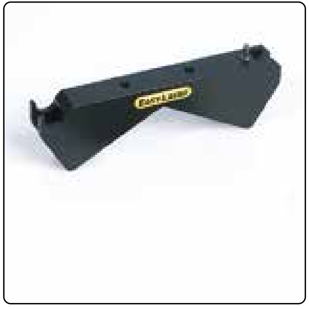
Chain, stainless steel

Part No: 12-0386

Description: For use with 12-0337.

Note: Does not fit with standard chains.

| D | E |

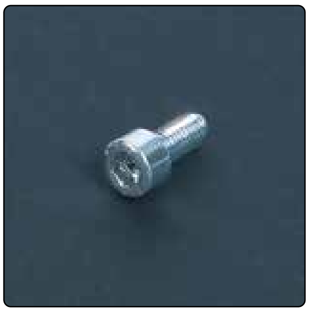


V-bracket

Part No: 12-0130

Description: For mounting on shaft or coupling.

Note: Just bracket, no chain.

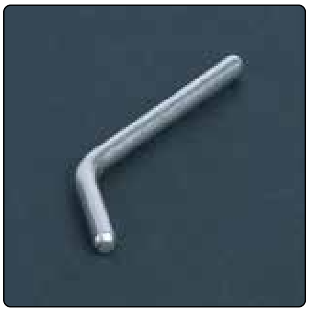


Screw M6x14

Part No: 03-0061

Description: -

Note: -

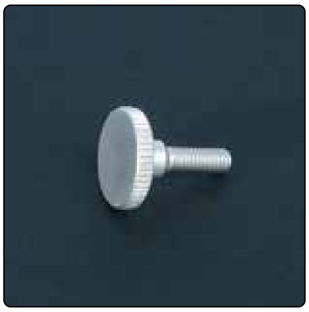


Rod tightening tool, 4 mm

Part No: 01-0048

Description: -

Note: -

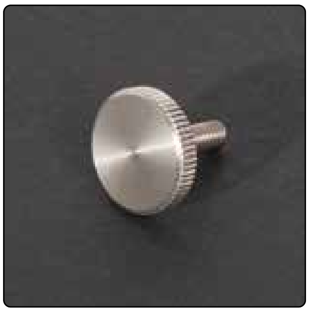


Locking screw

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: -

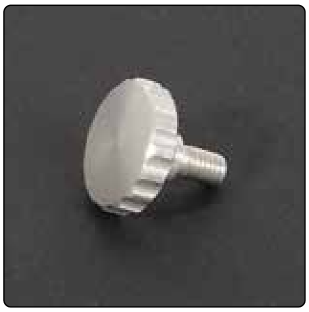


Locking screw

Part No: 01-1953

Description: Fits measuring units; 12-0434, 12-0433. Detectors; 12-0702, 12-0509, 12-0752.

Note: -



Locking screw

Part No: 01-1866

Description: Fits measuring units; 12-0943, 12-0944, 12-1028, 12-1029, 12-1026, 12-1027, 12-1045, 12-1046.

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!*

| D |

Padded case for BTA

Part No: 03-0591

Description: Padded case with belt strap.

Note: -

| Ex |

Case for BTA Ex

Part No: 03-0736

Description: Case for Ex environments. Made of antistatic material. With belt strap.

Note: -

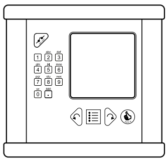
| D |

Protective case for older display units

Part No: 03-0042

Description: With strap.

Note: -



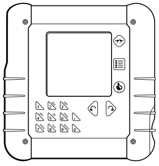
| D |

Protective case for display unit D279

Part No: 03-0592

Description: With strap.

Note: -



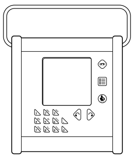
| D550 |

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: -

| E |

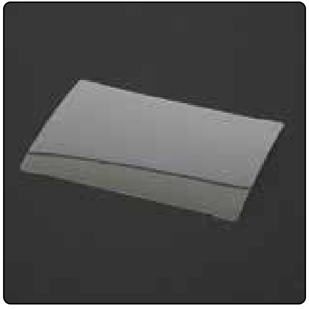
LCD display protection film for E51/E52/E53

Part No: 03-0972

Description: Thin film for scratch protection of the LCD display.

Note: -

| XT |



LCD display protection film for XT11

Part No: 01-1945

Description: Thin film for scratch protection of the LCD display.

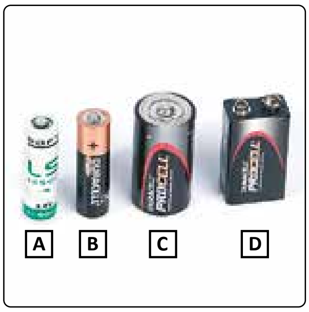
Note: -

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

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.

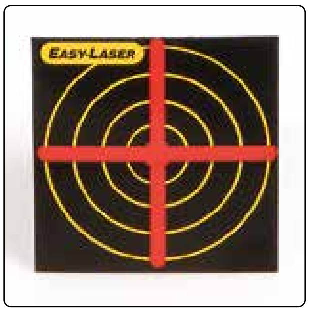
Sticker “This machine is aligned with”

Part No: 04-0053
Description: To stick on aligned machines. With writable surface for date and operator signature.
Note: 25 stickers.

| XT |

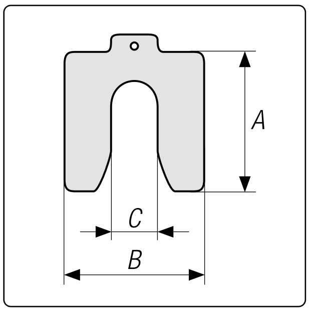
QR code sticker

Part No: 04-0307
Description: To stick on machines. Read it from within the XT app for easy access to machine data etc.
Note: 10 stickers with unique numbers.



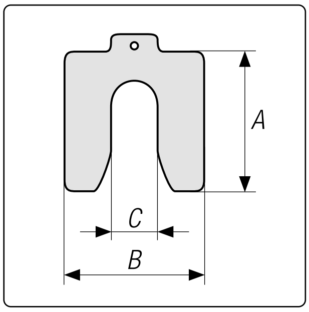
Laser target sticker

Part No: 04-0146
Description: To be used as reference point when doing geometrical measurements. Red reflectice cross for higher visibility.
Note: Size 35x35 mm [1.38x1.38"]



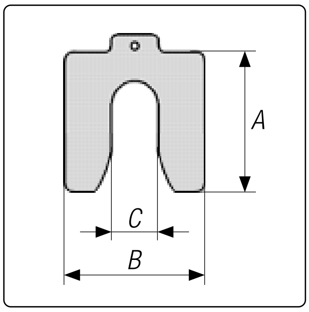
Shims case 1, 180 shims

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



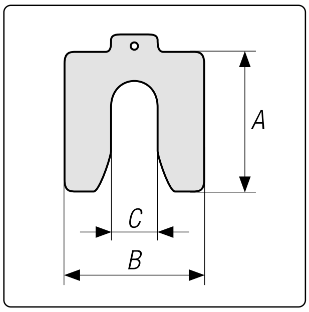
Shims case 2, 360 shims

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

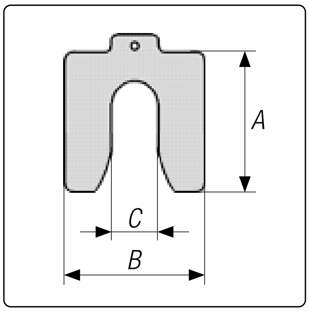
Part No: 12-0743
Description: For this case you choose number of shims yourself, from type 1, 2, 3, 4. We recommend minimum 10pcs/model. Please see price list for dimensions. Weight, case without shims 3.2 kg.
Note: Shims type 1, A: 55 mm, B: 50 mm, C: 15 mm
Shims type 2, A: 75 mm, B: 70 mm, C: 23 mm
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

Easy-Laser 1.00
Easy-Laser 1.00
Easy-Laser 1.00



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*.

| E |

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.

| D | E |

Tripod head

Part No: 03-1338

Description: For use on tripod 12-0269 with e.g. D22 and Angular prism.

Note: -

| D | E |

Extruder cardan joint

Part No: 12-1279

Description: For the extruder bracket.

Note: -

| D | E |

Extruder rod handle

Part No: 12-1280

Description: For the extruder bracket.

Note: -

| D | E |

Velcro clip with pin

Part No: 01-1703

Description: For the extruder bracket.

Note: -

| E |

Charger for E-series printer

Part No: 03-1459

Description: Replacement charger for printer Seiko DPU-S445.

Note: Wall socket connection cable (charger cable) also needed, choose part depending on country of use.

| XT |

Mounting screws for XT laser transmitters

Part No: 12-1300

Description: Screws for mounting the unit on different brackets.

Note: Rod tightening tool, Screw for safety strap, 6 pcs M6x16 mm MC6S, 8 pcs M6x20 mm MC6S, 4 pcs Set screw 6x8 mm. In plastic box.

Screwdriver Torx T8

Part No: 03-1429

Description: -

Note: -

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.

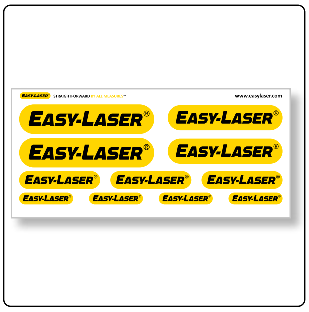
EASY-LASER®
EASY-LASER®

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

Description: Deck of cards. International symbols. Easy-Laser® logo and web address “www.easylaser.com” printed as on picture.

Note: Not always in stock. Price upon request.

NOTES
EASY-LASER

NOTES
EASY-LASER

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.

| D |

System D670 Parallelism (Discontinued)

Part No: 12-0224

Note: Please see system E970 instead.

| D |

System D800 Machine Spin (Discontinued)

Part No: 12-0220

Note: Please see system E915 instead.

| D |

System D660 Turbine (Discontinued)

Part No: 12-0185

Note: Please see system E960 instead.

| D |

System D662 Turbine (Discontinued)

Part No: 12-0662

Note: Please see system E960 instead.

| D |

System D663 Turbine (Discontinued)

Part No: 12-0663

Note: Please see system E960 instead.

| D |

System D664 Turbine (Discontinued)

Part No: 12-0664

Note: Please see system E960 instead.

| D |

System D630 Extruder (Discontinued)

Part No: 12-0193

Note: Please see system E930 instead.

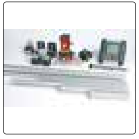
| D |

System D640 Machine tool (Discontinued)

Part No: 12-0552

Note: -

| D |



System D652 Linebore (Discontinued)

Part No: 12-0652

Note: Please see system E950 instead.

| D |

System D650 Linebore (Discontinued)

Part No: 12-0034

Note: Please see system E950 instead.

| D |

System D600 Machine (Discontinued)

Part No: 12-0133

Note: Please see system E920 instead.

| D |

System D525 Shaft (Discontinued)

Part No: 12-0231

Note: Please see system E710 instead.

| D |

System D525 B Shaft (Discontinued)

Part No: 12-0235

Note: Please see system E710 instead.

| D |

System D505 Shaft (Discontinued)

Part No: 12-0207

Note: -

| D |

System D480 Shaft (Discontinued)

Part No: 12-0422

Note: -

| D |

System D450 Shaft (Discontinued)

Part No: 12-0300

Note: -

| E |

System E530 Shaft (Discontinued)

Part No: 12-0695

Note: -

| D |

Easy-Laser® D550 Extreme™ Ex/ATEX/IECEx (Discontinued)

Part No: 12-0340

| E |

System E940 Machine tool (Discontinued)

Part No: 12-0761

Note: Replaced by different configurations.

| E |

System E975 Roll Alignment (Discontinued)

Part No: 12-0854

| E |

System E540-A Shaft (Discontinued)

Part No: 12-1043

| E |

System E540-B Shaft (Discontinued)

Part No: 12-0775

| E |

System E720 Shaft/Geo (Discontinued)

Part No: 12-0955

| D |

System D160 BTA (Discontinued)

Part No: 12-0411

Note: Please see system XT190 instead.

DISCONTINUED PRODUCTS

| D |

Easy-Laser® D130 BTA Ex (Discontinued)

Part No: 12-0400

| D |

System D150 BTA digital (Discontinued)

Part No: 12-0310

Note: Please see system XT190 instead.

| D |

System E170 BTA (Discontinued)

Part No: 12-0659

Note: Please see system XT190 instead.

| E |

System E180 BTA (Discontinued)

Part No: 12-0796 + (12-0850: system without laser transmitter)

Note: Please see system XT190 instead.

| D |

Printer 220 V (Discontinued)

Part No: 03-0032

Note: Replaced by 03-1323.

| D |

Printer 110 V (Discontinued)

Part No: 03-0341

Note: Replaced by 03-1323.

| D | E |

Back Pack System Large (Discontinued)

Part No: 03-1044

Note: -

| D | E |

Back Pack System Large (Discontinued)

Part No: 03-1045

Note: -

| D |

AC adaptor for D22 and D75 (Discontinued)

Part No: 12-0205

| D |

AC adaptor for D23 (Discontinued)

Part No: 12-0294

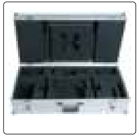
| E |

Carrying case for E540 andE530 (Discontinued)

Part No: 03-1007

Note: Replaced by case 12-1020.

| Ex |



Transportation case Ex Large (Discontinued)

Part No: 12-0456

| D |

Measuring tape, 2 m [6.5’] (Discontinued)

Part No: 12-0012

CD (Discontinued)

Part No: 06-0001

| E |

Carrying case Small for E540 (Discontinued)

Part No: 12-1025

Note: Please see 12-1020 instead.

Magnet base bracket for Linebore detector (Discontinued)

Part No: 12-0329

| D | E |

Magnetic bracket (Discontinued)

Part No: 12-0413

Note: Replaced by 12-1147.

| D | E | XT |

Magnetic bracket (Discontinued)

Part No: 12-1011

Note: Replaced by 12-1147.

| D |

Offset bracket (Discontinued)

Part No: 01-0076

Note: Please see 01-1165 instead.

| D | E | XT |

Extension chain (Discontinued)

Part No: 12-0319

Note: Please see 12-0128 instead.

Height adjustment bracket for D6 (Discontinued)

Part No: 12-0417

| D |

Sun visor for D6 (Discontinued)

Part No: 01-1352

Large target extruder (Discontinued)

Part No: 12-0199

Note: Please see 12-0810 instead.

| D | E |

Sliding bracket (Discontinued)

Part No: 12-0039

Note: Please see 12-1010 instead.

| E |

E-series Vibrometer probe E285 (Discontinued)

Part No: 12-0656

Note: -

| D |

D-series Vibrometer probe D283 (Discontinued)

Part No: 12-0283

Note: -

| E |

Wireless units kit for E530 (Discontinued)

Part No: 12-0739

Note: -

| E |

Wireless unit for E530 (Discontinued)

Part No: 12-0738

Note: -

| D | E |

Adapter bracket for 40 mm rod distance (Discontinued)

Part No: 12-0815

Note: -

| D |

Magnet base with turnable head, for D157 (Discontinued)

Part No: 12-0608

Note: -

| D |

Cam shaft bracket (Discontinued)

Part No: 12-0476

Note: -

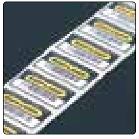
| D550 |

Sun visor D550 (Discontinued)

Part No: 12-0592

Note: -

| E |



Barcode sticker (Discontinued)

Part No: 04-0147

Note: -

| E |

Charger 12–36V for car (Discontinued)

Part No: 12-0585

| E |

Battery pack (Discontinued)

Part No: 12-0617

Note: -

| D | E |

Cable tester (Discontinued)

Part No: 12-0362

| XT |

Small case for system XT440 (Discontinued)

Part No: 12-0972

Note: Replaced by 12-0973

| XT |

ECOM Tab-Ex® 01 – (Discontinued)

Part No: 12-1086

White Vaseline (Discontinued)

Part No: 03-1193

Standard chain (Discontinued)

Part No: 12-0033

Note: Please see 12-0625 instead.

| D | E |

Side support for D75 (Discontinued)

Part No: 12-0189

| D | E |

Side support for E5, E7 and other detectors (Discontinued)

Part No: 12-0188

| D |

AC adaptor for Display unit D279 (Discontinued)

Part No: 12-0590

| E |

VGA/HDMI kit (Discontinued)

Part No: 12-0573

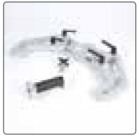
| D | E |

Safety strap (Discontinued)

Part No: 12-0915

Note: Replaced by 03-1406 and 01-1402.

| D | E |



Bracket for non-magnetic flanges, (Discontinued)

Part No: 12-0628

| D |

Laser transmitter Ex for sheave/pulley alignment (Discontinued)

Part No: 12-0390

Laser transmitter D246 (Discontinued)

Part No: 12-0246

Note: Replaced by 12-0706.

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

Part No: 12-0538

Detector Linebore (Discontinued)

Part No: 12-0032

Tool kit for system D550, complete (Discontinued)

Part No: 12-0360

Detector D6 (Discontinued)

Part No: 12-0201

Offset hub for D75 (Discontinued)

Part No: 12-0132

Description: -

Note: This product is discontinued and replaced by 12-0661.

Offset hub with arms (Discontinued)

Part No: 12-0364

Description: -

Note: Replaced by 12-0707 + 12-0661.

Detector bracket “long stroke”, Turbine (Discontinued)

Part No: 12-0248

Note: Replaced by 12-0715.

| D |

Detector for sheave/pulley alignment (Discontinued)

Part No: 12-0308

Note: Please see system XT190 instead.

| D |

D-series Detector for belt alignment (Discontinued)

Part No: 12-0403

Note: Please see system XT190 instead.

| E |

E-series Detector for belt alignment (Discontinued)

Part No: 12-0657

Note: Please see system XT190 instead.

| E |

E-series wireless Detector for belt alignment (Discontinued)

Part No: 12-0791

Note: Please see system XT190 instead.

| D |

Measuring unit M, PSD 10x10 mm (Discontinued)

Part No: 12-0001

| D |

Measuring unit M, PSD 10x10 mm (Discontinued)

Part No: 12-0002

| D |

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

Part No: 12-0119

| D |

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

Part No: 12-0120

| D |

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

Part No: 12-0423

| D |

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

Part No: 12-0424

| D |

Measuring unit S, PSD 30x30 mm, inclinometer (Discontinued)

Part No: 12-0260

| D |

Measuring unit M, PSD 30x30 mm, inclinometer (Discontinued)

Part No: 12-0256

| D |

Measuring unit M, 2 axis, PSD 18x18 mm, inclinometer (Discontinued)

Part No: 12-0116

| D |

Detector 30 mm, D-series (Discontinued)

Part No: 12-0255

| D |

Detector D5 (Discontinued)

Part No: 12-0005

| E |

Detector E4 (Discontinued)

Part No: 12-0702

Note: Please see Detector E5 or E7 instead.

| E |

Measuring unit ELS30, PSD 30 mm (Discontinued)

Part No: 12-0697

| E |

Measuring unit ELS30, PSD 30 mm (Discontinued)

Part No: 12-0698

| D |

Detector D157 (Discontinued)

Part No: 12-0157

| E |

Detector E8, 1-axis PSD (Discontinued)

Part No: 12-0758

Note: Please see Detector E9 instead.

| D |

Measuring unit M, Extreme™ (Discontinued)

Part No: 12-0334

| D |

Measuring unit M, Extreme™ (Discontinued)

Part No: 12-0335

| D |

Display unit Extreme™ EX: D336 (Discontinued)

Part No: 12-0336

| D |

Display unit D-series: D279 (Discontinued)

Part No: 12-0279

| D |

Display unit for sheave/pulley alignment (Discontinued)

Part No: 12-0404

| D | E |

Angular prism D46 (Discontinued)

Part No: 12-0046

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

Note: Replaced by 12-1136.

| E |

Shaft alignment system for Vestas (Discontinued)

Part No: 12-0797 (Vestas 4)

Part No: 12-0825 (Vestas 3)

Note: Replaced by 12-1143, 12-1142 and 12-1183.

| E |

Roll alignment kit (Discontinued)

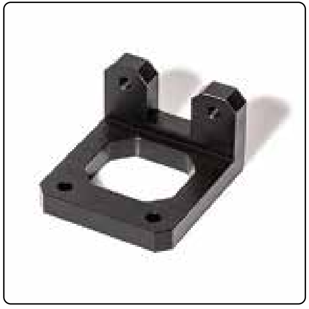
Part No: 12-0856

| E |

Angle detector E2 (Discontinued)

Part No: 12-0845

| E |



Angle bracket (Discontinued)

Part No: 01-1768

| E |

Roll bracket (Discontinued)

Part No: 12-0849

| E |

Large roll kit

(Discontinued)

Part No: 12-0885

| E |

Display unit E-series: E53

(Discontinued)

Part No: 12-0748

Note: -

| E |

Measuring unit ELS20

(Discontinued)

Part No: 12-0747

Note: -

| E |

Measuring unit ELM20

(Discontinued)

Part No: 12-0746

Note: -

| E |

Measuring unit ELS40

(Discontinued)

Part No: 12-0777

Note: -

| E |

Measuring unit ELM40

(Discontinued)

Part No: 12-0776

Note: -

| E |

Carrying case for system E420

(Discontinued)

Part No: 03-1059

| XT |

Carrying case Small for system XT440

(Discontinued)

Part No: 12-1239

Note: Please see 12-0973 instead.

| E |

System E420 Shaft

(Discontinued)

Part No: 12-0745

| E |

Battery pack with built-in wireless unit

(Discontinued)

Part No: 12-0618

| E |

Batterypack with wireless technology, Kit

(Discontinued)

Part No: 12-0740

TECHNICAL SPECIFICATIONS

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. Li-Ion battery condition also affect the operating time.
- The drawings show the most important measures. Because of limited space we cannot always place the projections according to Europen drawing projection, but that is otherwise the method used.
- Specifications are quoted to 95% confidence level (coverage factor *k*=2).
- 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.
- The XT laser transmitters requires use of the XT Alignment app for calibration.
- 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.

Software communication

D | **E** | **XT**

Brackets

D E | **XT**

SPECIFICATIONS FOR BUILT-IN RECHARGEABLE BATTERIES (2021-11-08):

Easy-Laser Part No.	MSDS Document	Type	Nominal Voltage	Nominal Capacity	Energy	Included in
12-1100	A	Li-Ion	3.65 V	11400 mAh	41.61 Wh	12-0418 Display unit E51
						12-0700 Display unit E52
						12-0748 Display unit E53
03-0765	B	Li-Ion	3.7 V	660 mAh	2.5 Wh	12-0433 Measuring unit S 20x20
						12-0434 Measuring unit M 20x20
						12-0509 Detector E5
						12-0752 Detector E7
						12-0759 Detector E9
						12-0789 Measuring unit ESH 20x20
						12-0790 Measuring unit EMH 20x20
						12-0799 Detector E3
						12-0824 Detector E7H
						12-0846 Precision level E290
03-1052	C	Li-Ion	3.7 V	330 mAh	1.22 Wh	12-0746 Measuring unit ELM 20
						12-0747 Measuring unit ELS 20
						12-0776 Measuring unit ELM 40
						12-0777 Measuring unit ELS 40
						12-1054 Detector BTA XT190
03-0971	D	Li-Ion	3.6 V	2600 mAh	9.36 Wh	12-0618 Battery pack wireless
						12-0823 Laser transmitter E30
						12-0845 Detector E2
12-0953	F	Li-Ion	3.7 V	2000 mAh	7.4 Wh	12-0943 Measuring unit XT40-M
						12-0944 Measuring unit XT40-S
						12-1028 Measuring unit XT60-M
						12-1029 Measuring unit XT60-S
						12-1045 Measuring unit XT70-M
						12-1046 Measuring unit XT70-S
						12-1241 Precision level XT290
						12-1272 Laser transmitter XT20 (2 pcs)
						12-1273 Laser transmitter XT22 (2 pcs)
12-0983	G	Li-Ion	3.7 V	2000 mAh	7.4 Wh	12-1026 Measuring unit XT50-M
						12-1027 Measuring unit XT50-S
N/A	H	Li-Ion	3.8 V	4450 mAh	16.91 Wh	12-1196 Ecom Tablet XT550
						12-1086 Ecom Tablet XT550
12-1099	I	Li-Ion	7.3 V	5700 mAh	41.64 Wh	12-0961 Display unit XT11 (2 pcs)

INFORMATION ABOUT CHARGERS

Part No. 03-1243, Charger for E-series
Model: GPE024D-120200D
AC Input: 100–240VAC ~0.75A, 50–60Hz
DC Output: 12.0VDC 2.0A, 24.0W
Efficiency:
≥86.8% (avg.) at 115Vac/60Hz or 230Vac/50Hz input voltage and 25%, 50%, 75% or 100% of max output current.
≥76.8% at 115Vac/60Hz or 230Vac/50Hz input voltage and 10% of max output current.
≤0.075W at no load power consumption, at normal line input.

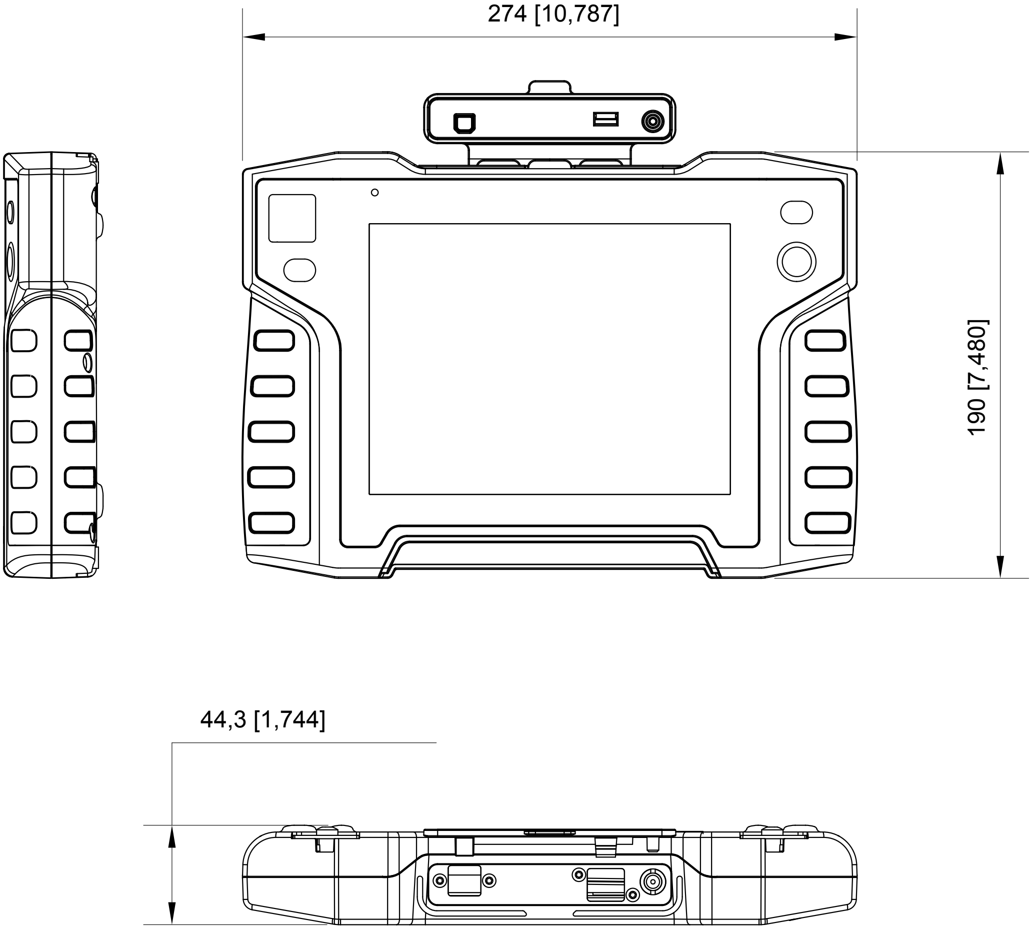
Part No. 12-1281, Charger for XT50/XT550
Specifications same as for 03-1243.

Part No. 03-1256, Charger for XT-series
Model: EA10682N-150
AC Input: 100–240VAC ~2.0A, 50–60Hz
DC Output: 15.0VDC 4.0A, 60.0W
Efficiency:
≥89.0% (avg.) at 115Vac/60Hz or 230Vac/50Hz input voltage and 25%, 50%, 75% or 100% of max output current.
≥79.0% at 115Vac/60Hz or 230Vac/50Hz input voltage and 10% of max output current.
≤0.15W at no load power consumption, at normal line input.

Display unit XT11, Part No. 12-0961

	CE
Type of display/size	SVGA 8" colour screen, backlit LED, multitouch
Battery type	Heavy duty Li Ion chargeable
Operating time	Up to16 h continuously
Connections	USB A, USB B, Charger, AV (HDMI)
Communication	Wireless technology, WiFi
Camera, with diode lamp	13 Mp
IR camera (optional)	FLIR LEPTON® 0–450° [32–842°F]
Help functions	Built-in manual
Environmental protection	IP class 66 and 67
Operating temperature	-10–50 °C [14–122 °F]
Storage temperature	-10–50 °C [-4–122 °F]
Relative humidity	10–95%
OLED display	96x96 pixels
Housing material	PC/ABS + TPE
Dimensions	WxHxD: 274x190x44 mm [10.8x7.5x1.7"]
Weight	1450 g [3.2 lbs]

mm [inch]



Display unit E51, Part No. 12-0418

CE

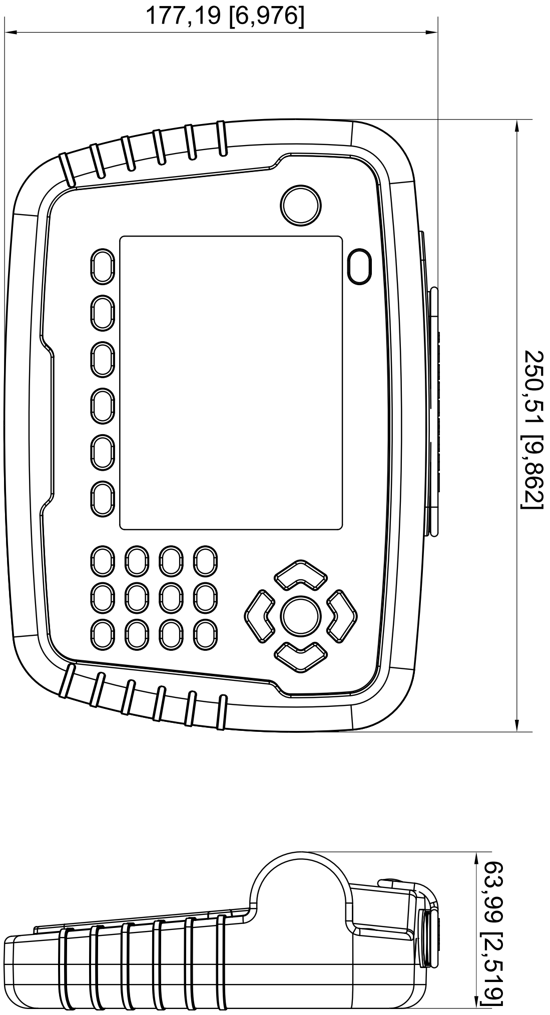
Type of display/size	VGA 5.7" colour screen, backlit LED
Displayed resolution	0.001 mm / 0.05 thou (0.0001 mm with HyperPSD units)
Battery	Heavy duty Li Ion chargeable
Temperature range	-10–50 °C [14–122 °F]
Connections	USB A, USB B, Easy-Laser® units, Charger
Communication	BT wireless technology and cable
Internal memory	>100 000 measurements can be saved
Help functions	Calculator, Unit converter
Environmental protection	IP class 65
Housing material	PC/ABS + TPE
Dimensions	WxHxD: 250x175x63 mm [9.8x6.9x2.5"]
Weight (without batteries)	1020 g [2.3 lbs]

Display unit E52, Part No. 12-0700

CE

Type of display/size	VGA 5.7" colour screen, backlit LED
Displayed resolution	0.001 mm / 0.05 thou
Internal battery	Heavy duty Li Ion chargeable
Temperature range	-10–50 °C [14–122 °F]
Connections	USB A, USB B, Easy-Laser® units, Charger
Communication	BT wireless technology
Internal memory	>100 000 measurements can be saved
Help functions	Calculator, Unit converter
Environmental protection	IP class 65
Housing material	PC/ABS + TPE
Dimensions	WxHxD: 250x175x63 mm [9.8x6.9x2.5"]
Weight	1020 g [2.3 lbs]

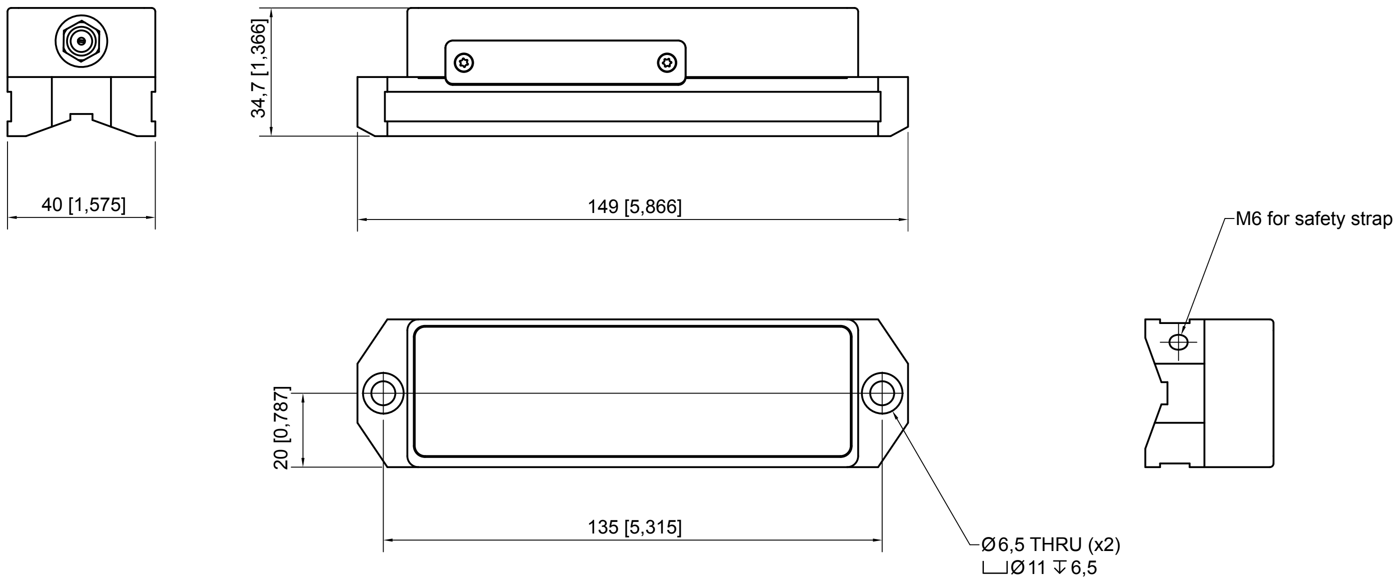
mm [inch]



E290 Digital Precision Level, Part No. 12-0846

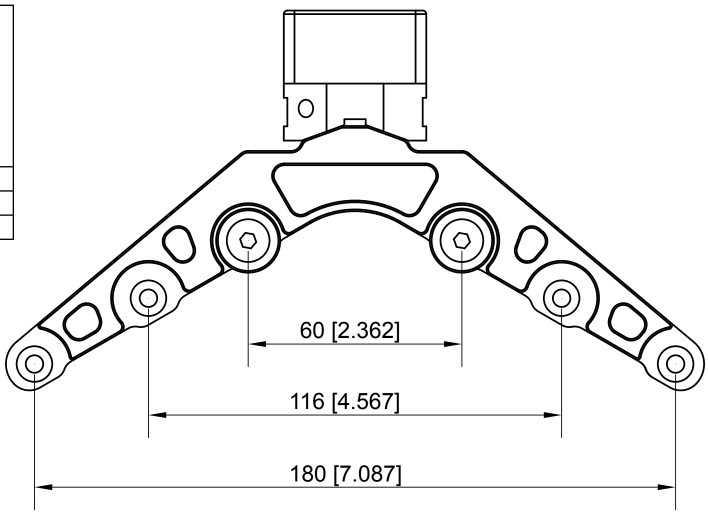
mm [inch]

	CE
Displayed resolution	OLED: 0.01 mm/m (0.001°)/App: 0.001 mm/m (0.001°)
Range	± 2 mm/m
Measurement accuracy	Range ±1 mm/m: accuracy within ±0.02 mm/m of displayed value. Range ±2 mm/m: accuracy within ±0.04 mm/m of displayed value.
Type of display	OLED
Communication	BT wireless technology
Environmental protection	IP Class 67
Operating temperature	-10–50 °C [14–122 °F]
Internal battery	Li Ion
Material	Anodized aluminium , ABS plastics
Dimensions	WxHxD: 149x40x35 mm [5.9x1.6x1.4"]
Weight	530 g [18.7oz]


34,7 [1,366]
40 [1,575]
149 [5,866]
M6 for safety strap
20 [0,787]
135 [5,315]
Ø6,5 THRU (x2)
⌴Ø11 ↧6,5

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

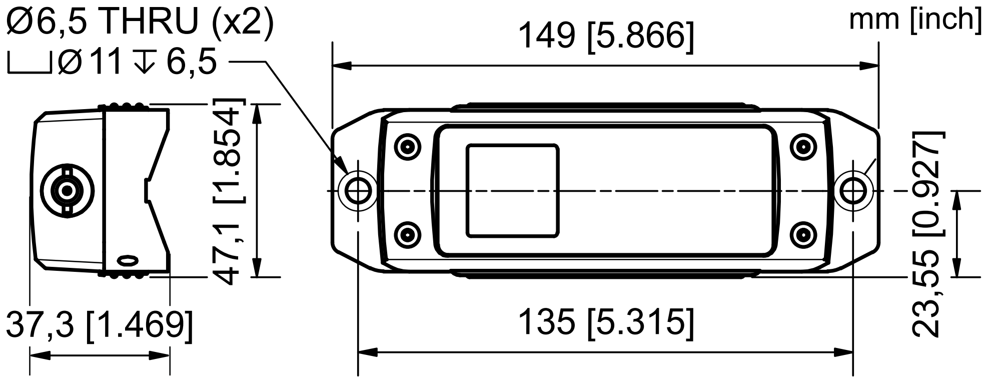
For diameters	55–800 mm [2.16–31.50"]
Material	Anodized aluminium , Stainless steel feet
Weight	430g [15.2 oz]


60 [2.362]
116 [4.567]
180 [7.087]

XT290 Digital Precision Level, Part No. 12-1241

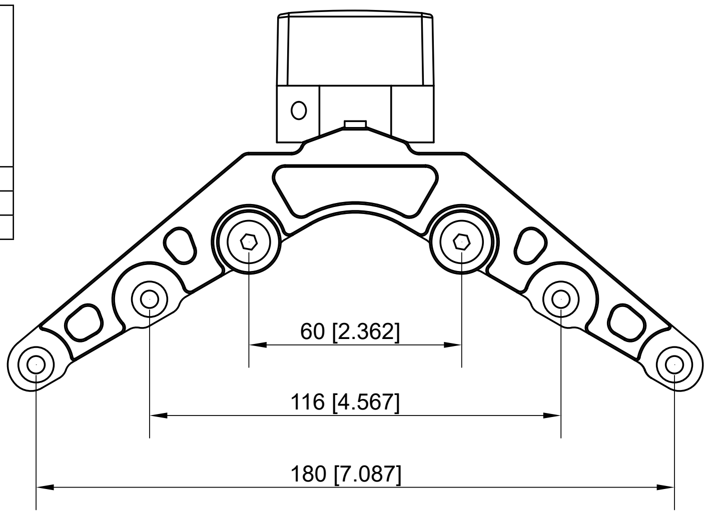
mm [inch]

	CE
Displayed resolution	0.1, 0.01, 0.001 mm/m [mils/inch]
	0.001, 0.0001, 0.00001 inch/foot
	10, 1, 0.1 arcsec
	0.01, 0.001, 0.0001 degree
Precision level range	±20 mm/m [±20 mils/inch] (pitch)
Precision level accuracy	±0.02 mm/m ±1% [±0.02 mils/inch ±1%]
Precision level sensitivity	0.001 mm/m [0.001 mils/inch]
Inclinometer range	±180° (pitch and roll)
Inclinometer accuracy	±0.2° (within range ±5°), ±1° (within range ±180°)
Type of display	TFT 240x240 pixels, RGB colour
Communication	BT wireless technology, 20 m [65'] range
Environmental protection	IP Class 66/67
Warning sensors	Temperature change and vibration
Operating temperature	-10–50 °C [14–122 °F]
Storage temperature	-20–50 °C [-4–122 °F]
Operating time	Up to 20 h continuously
Internal battery	Li-Ion
Material	Corrosion resistant hardened steel, PC/ABS plastics
Dimensions	WxHxD: 149x37.3x47.1 mm [5.86"x1.47"1.85"]
Weight	548 g [19.3 oz]



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

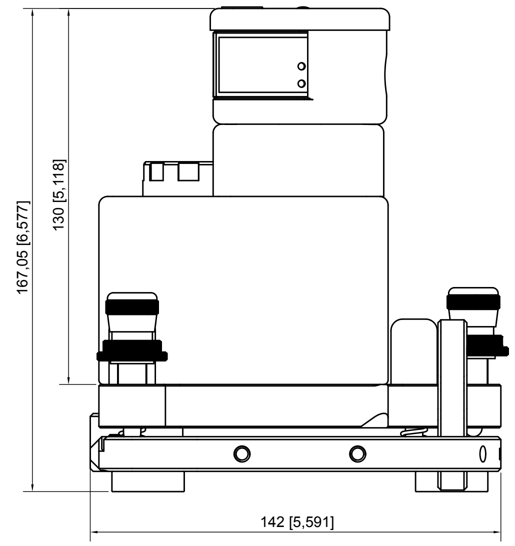
For diameters	55–800 mm [2.16–31.50]
Material	Anodized aluminium , Stainless steel feet
Weight	430g [15.2 oz]

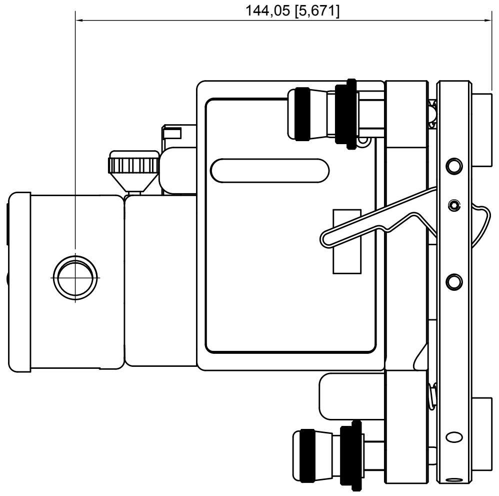


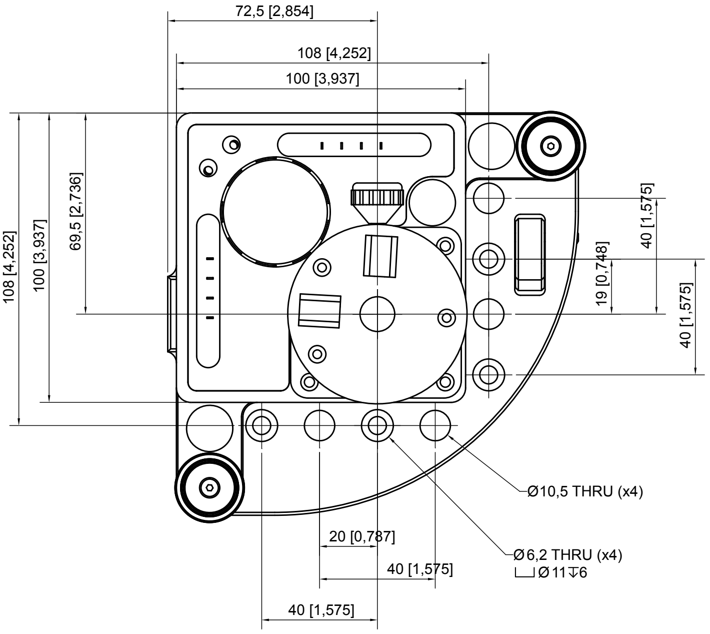
Laser transmitter D22, Part No. 12-0022

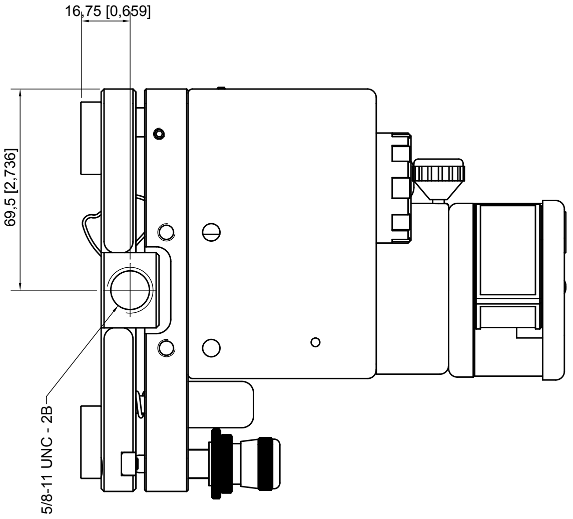
	LASER 2
Type of laser	Diode laser
Laser wavelength	630–680 nm
Laser Safety Class	Class 2
Output power	AVERAGE POWER < 0.6 mW. PULSE ENERGY < 20 nJ. PULSE DURATION 10-17 µs.
Beam diameter	6 mm [1/4"] at aperture
Working area, range	40 m radius [130"]
Type of battery	1 x R14 (C)
Operating time/battery	approx. 24 hours
Levelling range	± 30 mm/m [± 1.7°]
3 x spirit vials' scaling	0.02 mm/m
Squareness between laser beams	±0.01 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]

mm [inch]


167,05 [6,577]
130 [5,118]
142 [5,591]




72,5 [2,854]
108 [4,252]
100 [3,937]
108 [4,252]
100 [3,937]
69,5 [2,736]
40 [1,575]
19 [0,748]
40 [1,575]
Ø10,5 THRU (x4)
Ø6,2 THRU (x4)
⌴Ø11↧6
20 [0,787]
40 [1,575]
40 [1,575]

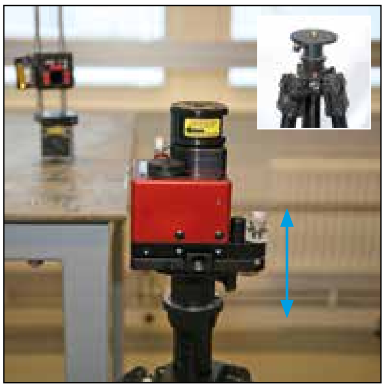

16,75 [0,659]
69,5 [2,736]
5/8-11 UNC - 2B

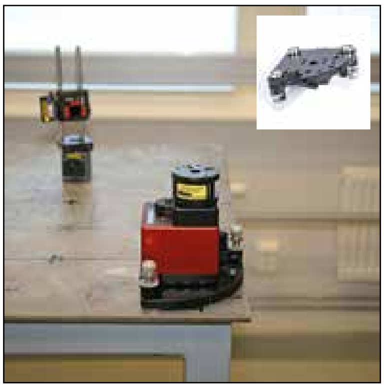
Laser transmitter D22, Part No. 12-0022

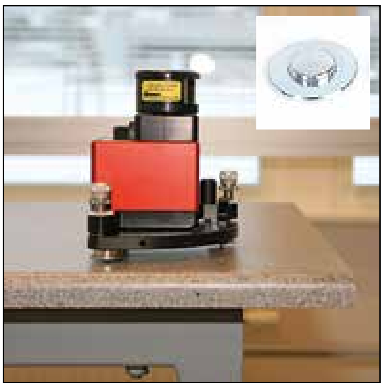
LASER 2

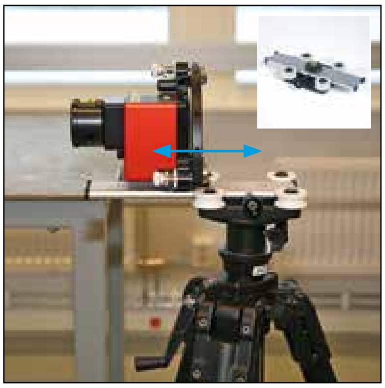
Examples of use

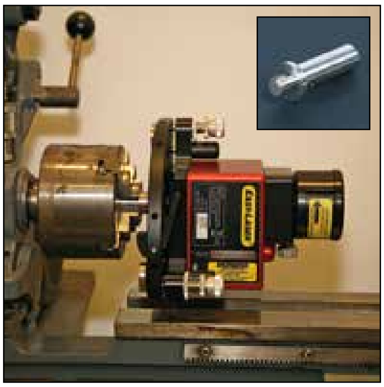
The D22 can be mounted in various ways. Below are just some examples. The important thing is to always tighten rods, screws and magnets firmly. Also be sure the surface where the magnets are attached is clean. If possible use the safety strap.

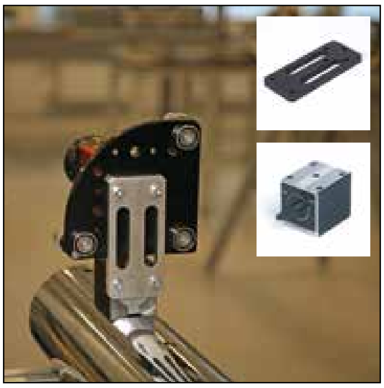

On tripod (Part No. 12-0269).

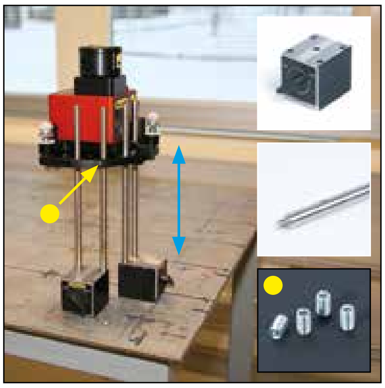

With super magnets on tilt table (included) directly on surface.

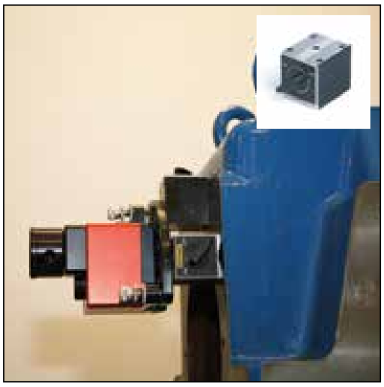

Feet with points (included), on non magnetic surface.

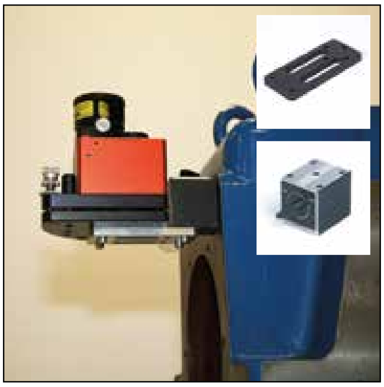

On sliding table for tripod Part No. 12-0202. For easy alignment to detector.

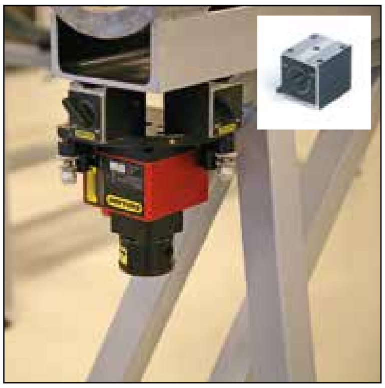

In a machine spindle. Spindle/magnet base pin Part No. 01-1333.


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

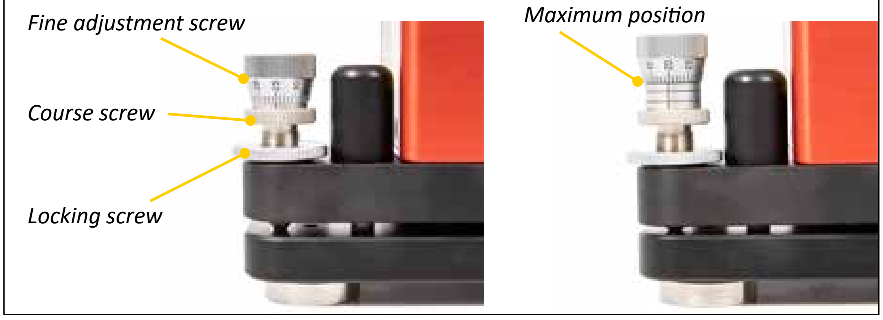

Rigid mounting, still easy to height adjust. Use rods of suitable length.


With magnet bases, very rigid mounting.


Rigid mounting, horizontal sweep.


With magnet bases, very rigid mounting.

Tilting screws. The fine adjustment screw must not exceed its maximum position. That might damage the threads of the screw.

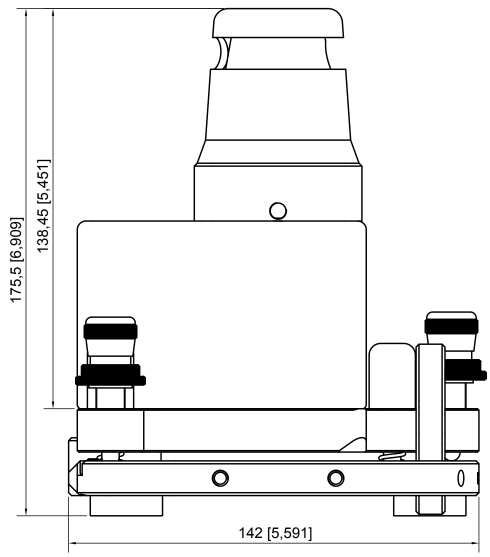


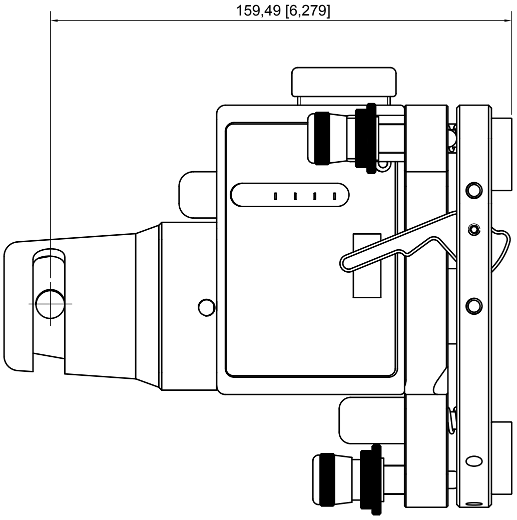
Laser transmitter D23 Spin, Part No. 12-0168

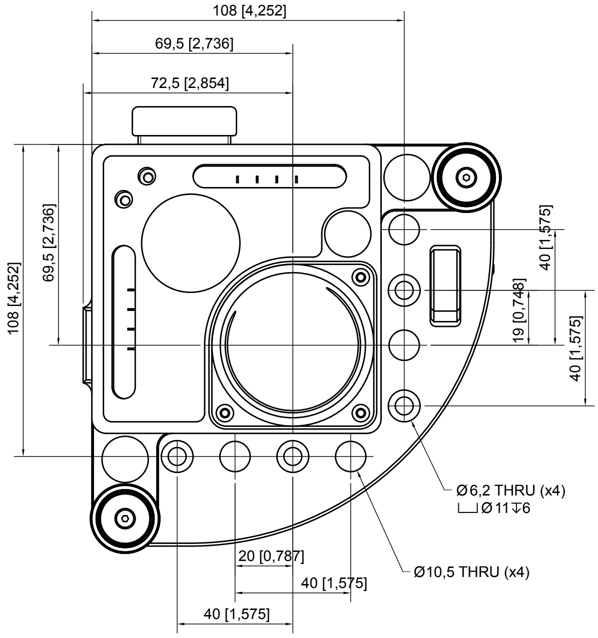
LASER
2

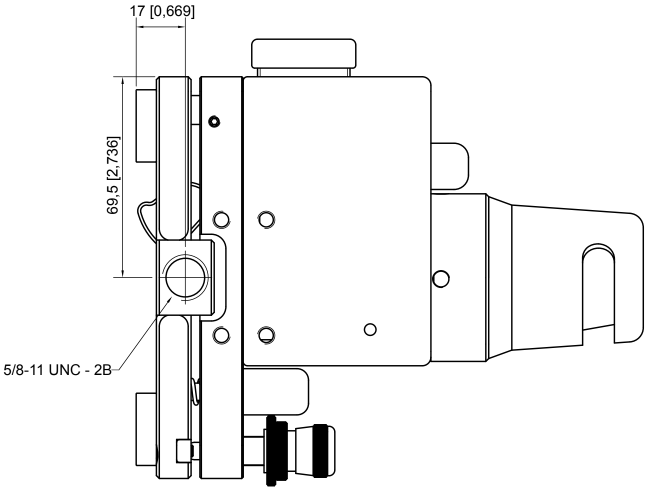
Type of laser	Diode laser
Laser wavelength	630–680 nm
Laser Safety Class	Class 2
Output power	AVERAGE POWER < 1 mW. PULSE ENERGY 2-9 µJ (spin mode) or < 20 nJ (stationary mode). PULSE DURATION 2-9 ms (spin mode) or 10-17 µs (stationary mode).
Beam diameter	6 mm [1/4"] at aperture
Working area, range	20-metre radius [65']
Type of battery	2 x R14 (C)
Operating time/battery	approx. 15 hours
Operating temperature	0–50 °C
Levelling range	± 30 mm/m [± 1.7°]
3 x spirit vials' scaling	0.02 mm/m
Flatness of sweep	0.02 mm/m
Housing material	Aluminium
Dimensions	WxHxD: 139x169x139 mm [5.47x6.64x5.47"]
Weight	2650 g [5.8 lbs]

mm [inch]


175,5 [6,909]
138,45 [5,451]
142 [5,591]



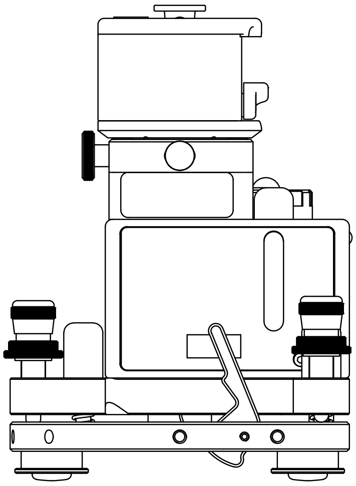

108 [4,252]
69,5 [2,736]
72,5 [2,854]
108 [4,252]
69,5 [2,736]
40 [1,575]
19 [0,748]
40 [1,575]
Ø6,2 THRU (x4)
⌴Ø11↧6
Ø10,5 THRU (x4)
20 [0,787]
40 [1,575]
40 [1,575]

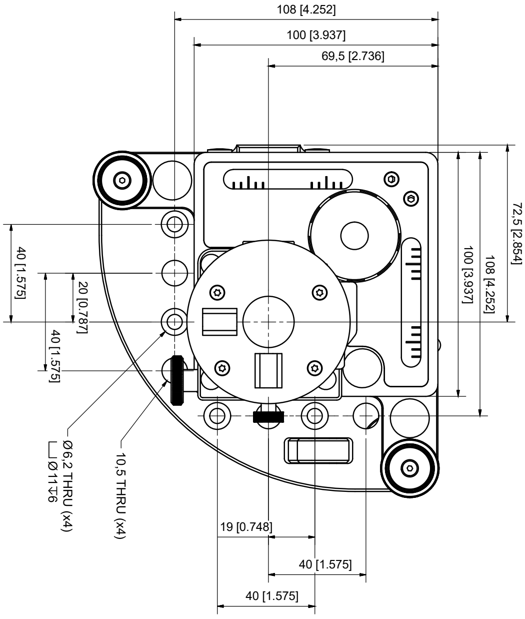

17 [0,669]
69,5 [2,736]
5/8-11 UNC - 2B

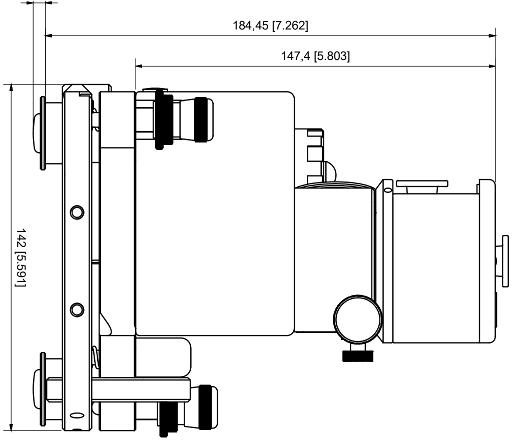
Laser transmitter D26, Part No. 12-1064

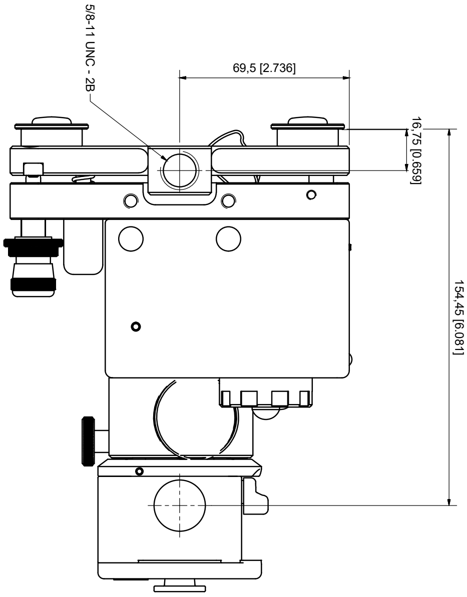
mm [inch]

	LASER 2
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 (C)
Operating time/battery	approx. 24 hours
Levelling range	±30 mm/m [± 1.7°]
3 x spirit vials' scaling	0.02 mm/m
Straightness of laser beam	±0.001 mm [±0.04 mils]
Squareness between laser beams	±0.004 ±0.002/M mm/m [±0.004 ±0.007/F mils/inch] *
Flatness of sweep, 360° sector	±0.0081 ±0.0055M mm [±0.32 ±0.066F mils] *
Flatness of sweep, 90° sector	±0.0025 ±0.0012M mm [±0.10 ±0.015F 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	±5 mm/m
Housing material	Aluminium
Dimensions	WxHxD: 142x184x139 mm [5.59x7.24x5.47"]
Weight	2760 g [6.1 lbs]




108 [4.252]
100 [3.937]
69,5 [2.736]
72,5 [2.854]
108 [4.252]
100 [3.937]
40 [1.575]
20 [0.787]
40 [1.575]
Ø6.2 THRU (x4)
⌴Ø11↧6
10.5 THRU (x4)
19 [0.748]
40 [1.575]
40 [1.575]


5 [0.197]
184,45 [7.262]
147,4 [5.803]
142 [5.591]

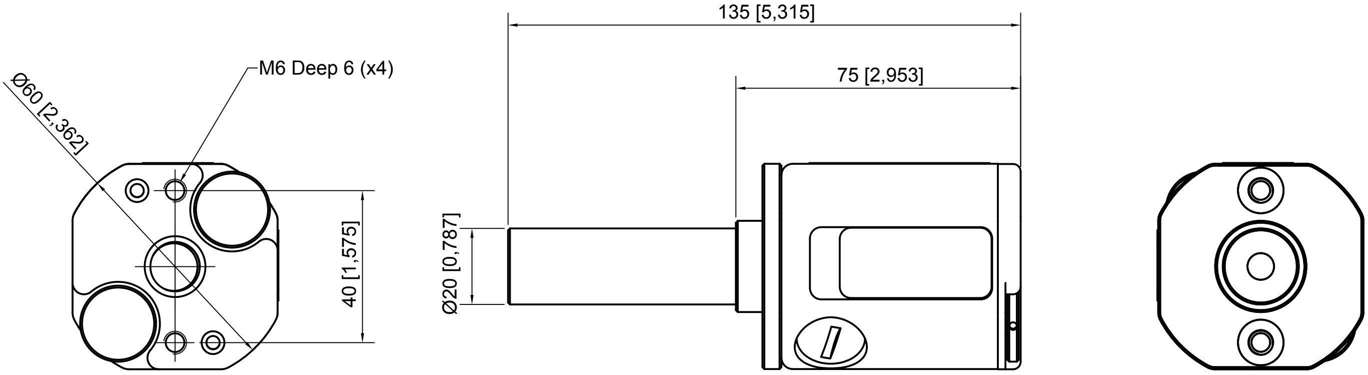

5/8-11 UNC - 2B
69,5 [2.736]
16,75 [0.659]
154,45 [6.081]

Laser transmitter D146 Spindle, Part No. 12-0146

mm [inch]

LASER
2

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	3 mm [1/8”] at aperture
Measurement distance	20 m [65´]
Type of battery	1 x R6 (AA)
Operating time/battery	approx. 6 hours
Clamping pin	∅ 20 mm, L= 60 mm [∅ 0.78”, L=2.36”]
Housing material	Anodized aluminium
Dimensions (without pin)	∅ 60 mm, L=98 mm [∅ 2.36”, L=3.86”]
Weight (with pin)	470 g [16.5 oz]

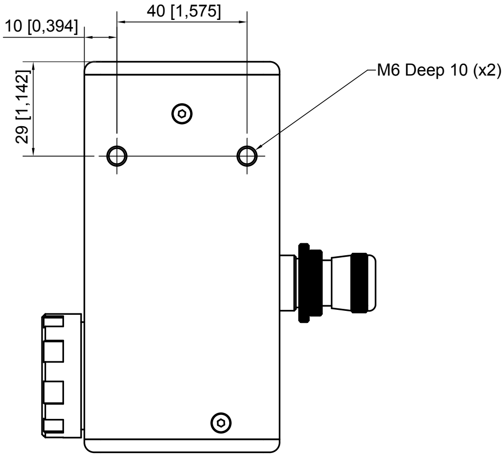


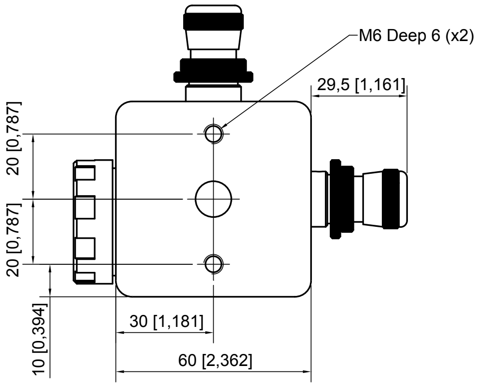
Laser transmitter D75, Part No. 12-0075

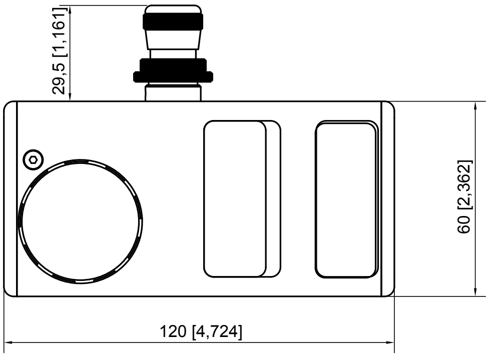
mm [inch]

LASER
2

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 distance	40-metre [130']
Type of battery	1 x R14 (C)
Operating time/battery	approx. 15 hours
Operating temperature	0–50 °C [32–122 °F]
Laser adjustment	D75: 2 ways ±2° (± 35 mm/m)
Housing material	Aluminium
Dimensions D75	WxHxD: 60x60x120 mm [2.36x2.36x4.72"]
Weight	780 g [27.5 oz]


40 [1,575]
10 [0,394]
M6 Deep 10 (x2)
29 [1,142]


M6 Deep 6 (x2)
29,5 [1,161]
20 [0,787]
20 [0,787]
10 [0,394]
30 [1,181]
60 [2,362]


29,5 [1,161]
60 [2,362]
120 [4,724]

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

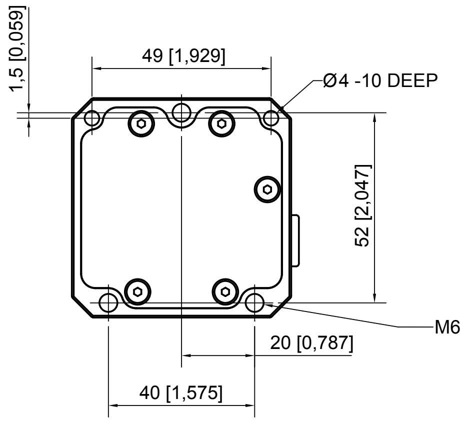
LASER 2

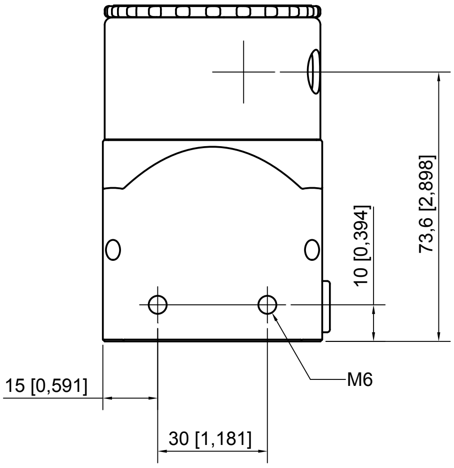
Type of laser	Diode laser
Laser wavelength	630–680 nm
Laser Safety Class	Class 2
Output power	AVERAGE POWER < 0.6 mW. PULSE ENERGY < 20 nJ. PULSE DURATION 10-17 µs.
Beam diameter	6 mm at aperture [1/4"]
Measurement range	40 m radius [130']
Battery type	1 x 1.5 V R14 (C)
Operating time / battery	>24 hours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

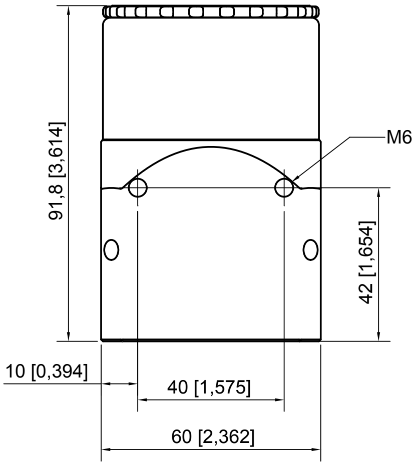
Laser transmitter D25, Part No. 12-0594

LASER 2

mm [inch]


1,5 [0,059]
49 [1,929]
Ø4 -10 DEEP
52 [2,047]
M6
20 [0,787]
40 [1,575]


73,6 [2,898]
10 [0,394]
M6
15 [0,591]
30 [1,181]

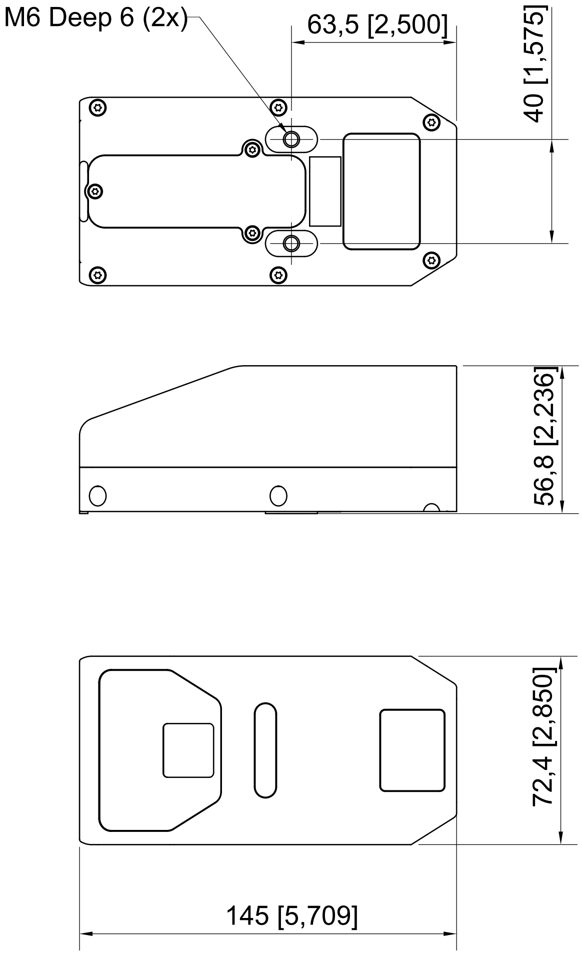

M6
91,8 [3,614]
42 [1,654]
10 [0,394]
40 [1,575]
60 [2,362]

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

LASER
2

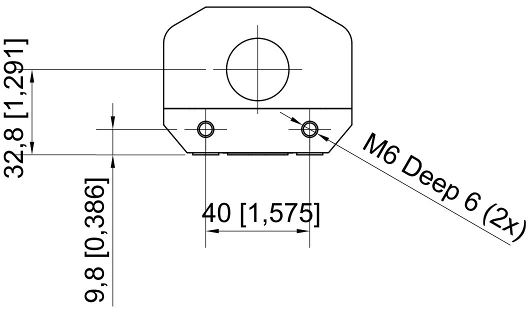
Laser	Diode laser
Laser wave length	630–680 nm
Adjustable modulation	0, 5, 32, 40, 100 KHz
Output power	AVERAGE POWER < 1 mW. PULSE ENERGY < 12-132 nJ (pulsed mode). PULSE DURATION 10-110 us (pulsed mode).
Beam diameter	12 mm (1/2") at aperture
Working area with 20mm detector	0–100 meter [328 ft]
Working area with 30mm detector	0– >200 meter [656 ft]
Type of battery	Li Ion
Operating time	>24 h
Operating temperature	-10–50 °C [14–122 °F]
Environmental protection	IP67
Wireless communication	BT wireless technology (passive). Contains FCC ID: PVH0946, IC: 5325A-0946.
Chock sensor	6 axis mems gyro with inclinometer
Type of display	O-led 96x96 pixel
Charging power	5–12 V DC
Housing material	Anodized aluminium T6060
Dimensions	WxHxD: 145.0x72.4x56.8 mm [5.71x2.85x2.24"]
Weight	620g [21.7 oz]

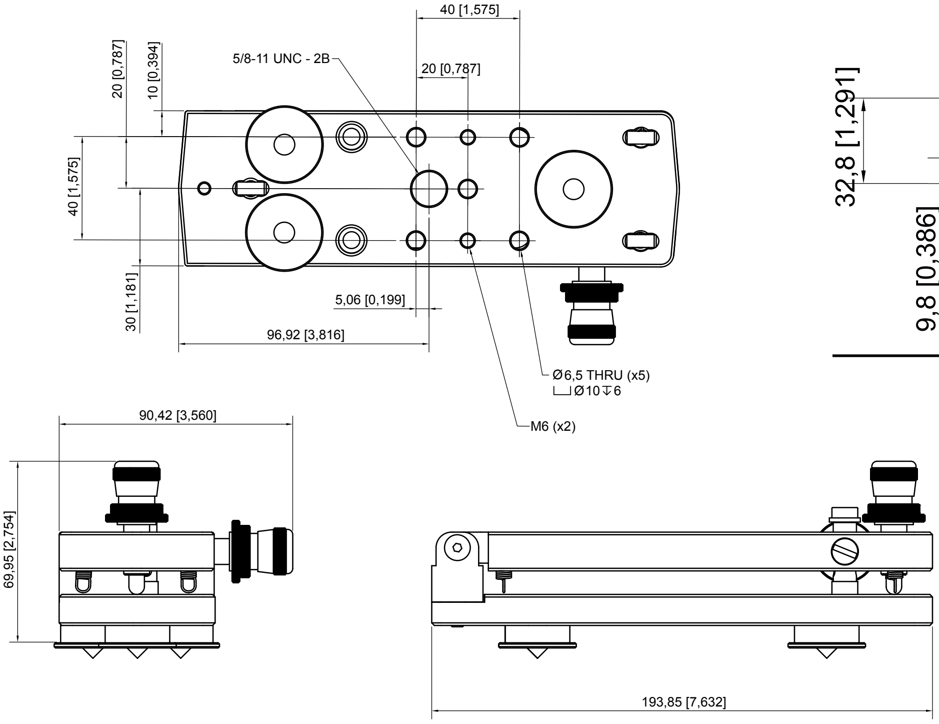
mm [inch]


M6 Deep 6 (2x)
63,5 [2,500]
40 [1,575]
56,8 [2,236]
72,4 [2,850]
145 [5,709]

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

LASER
2


32,8 [1,291]
9,8 [0,386]
40 [1,575]
M6 Deep 6 (2x)


40 [1,575]
5/8-11 UNC - 2B
20 [0,787]
20 [0,787]
10 [0,394]
40 [1,575]
30 [1,181]
5,06 [0,199]
96,92 [3,816]
Ø6,5 THRU (x5)
⌴Ø10↧6
M6 (x2)
90,42 [3,560]
69,95 [2,754]
193,85 [7,632]

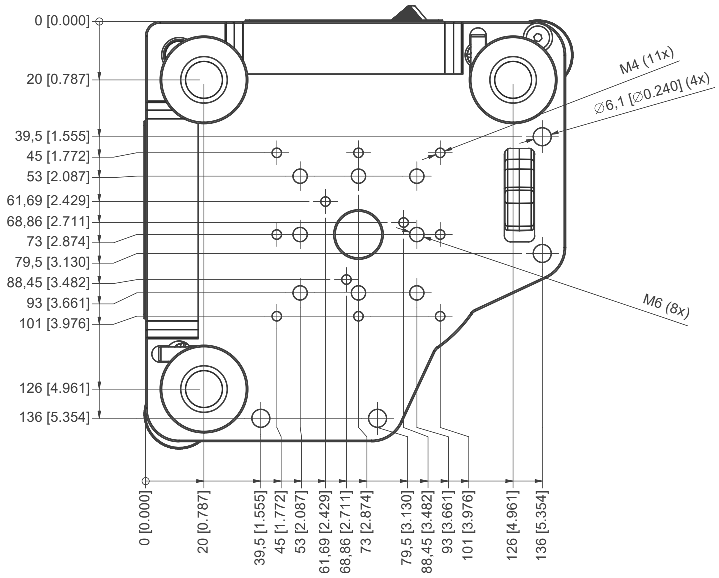
Laser transmitter XT20, Part No. 12-1272

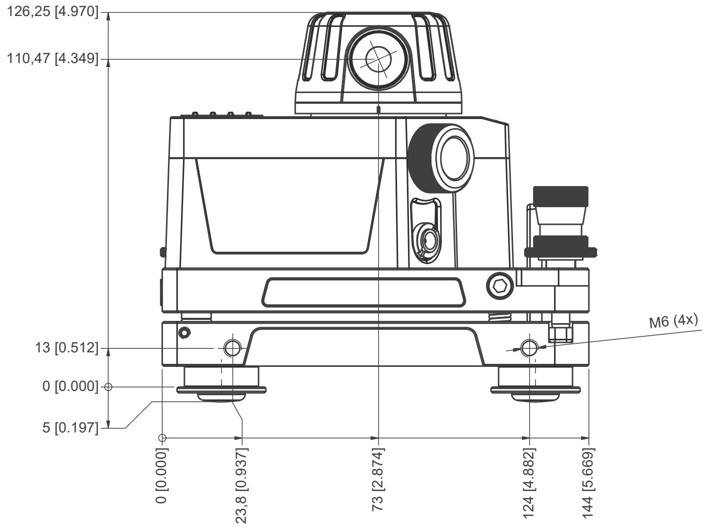
CE

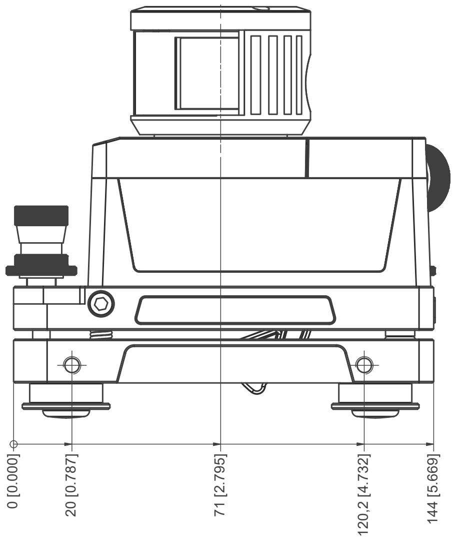
LASER 2

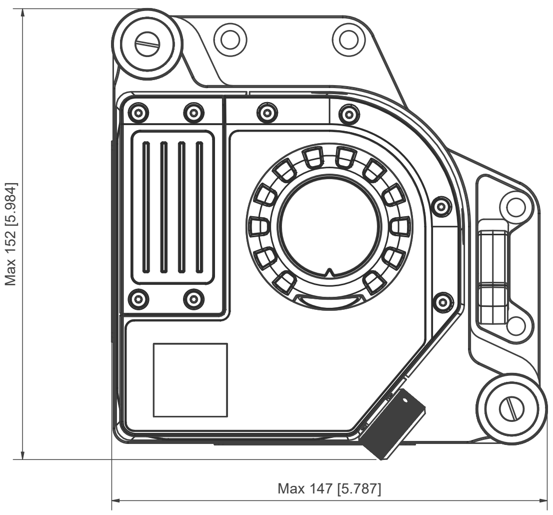
Type of laser	Diode laser
Laser wavelength	630–680 nm
Laser Safety Class	Class 2
Output power	AVERAGE POWER < 0.6 mW. PULSE ENERGY < 20 nJ. PULSE DURATION 10–17 µs.
Beam diameter	6 mm [0.24"] at aperture, 13 mm [0.51"] at 40 m [132']
Working range	20 m radius [66']
Communication	BT Wireless technology, 40 m [130'] range. Contains FCC ID: QOQBGM13P, IC: 5123A-BGM13P. NCC Taiwan ID: CCAM18LP1260T0.
Warning indications	Tempearature drift and shake/vibration
Connections	Charger
Type of battery	Heavy duty Li-Ion chargeable
Operating time	Up to 30 hours continuous use
Warmup time	15 min
Operating temperature	-10–50 °C [14–122 °F]
Charging temperature (battery)	0–50 °C [32–122 °F]
Storage temperature	-20–50 °C [-4–122 °F]
Relative humidity	10–95% non-condensing
Number of precision levels	2 pcs Horizontal
Precision level range	± 10 mm/m [± 10 mils/inch]
Precision level accuracy	± 0.02 mm/m ±1% [± 0.02 mils/inch ±1%]
Precision level sensitivity	0.001 mm/m [0.001 mils/inch]
Laser beam straightness	± 0.01 mm [± 0.4 mils]
Laser plane flatness	± 0.01 mm/m [± 0.01 mils/inch]
Laser head fine turning	1:132 gear ratio
Environmental protection	IP55, designed for outdoor use (pollution deg. 4)
TFT display	240x240 pixels, RGB colour
Housing material	Anodized aluminium + PC/ABS + TPU
Dimensions	WxHxD: 147x126x152 mm [5.79x4.97x5.98"]
Weight	2065 g [72.86 oz]

mm [inch]


0 [0.000]
20 [0.787]
39,5 [1.555]
45 [1.772]
53 [2.087]
61,69 [2.429]
68,86 [2.711]
73 [2.874]
79,5 [3.130]
88,45 [3.482]
93 [3.661]
101 [3.976]
126 [4.961]
136 [5.354]
M4 (11x)
⌀6,1 [⌀0.240] (4x)
M6 (8x)
0 [0.000]
20 [0.787]
39,5 [1.555]
45 [1.772]
53 [2.087]
61,69 [2.429]
68,86 [2.711]
73 [2.874]
79,5 [3.130]
88,45 [3.482]
93 [3.661]
101 [3.976]
126 [4.961]
136 [5.354]


126,25 [4.970]
110,47 [4.349]
13 [0.512]
0 [0.000]
5 [0.197]
M6 (4x)
0 [0.000]
23,8 [0.937]
73 [2.874]
124 [4.882]
144 [5.669]


0 [0.000]
20 [0.787]
71 [2.795]
120,2 [4.732]
144 [5.669]

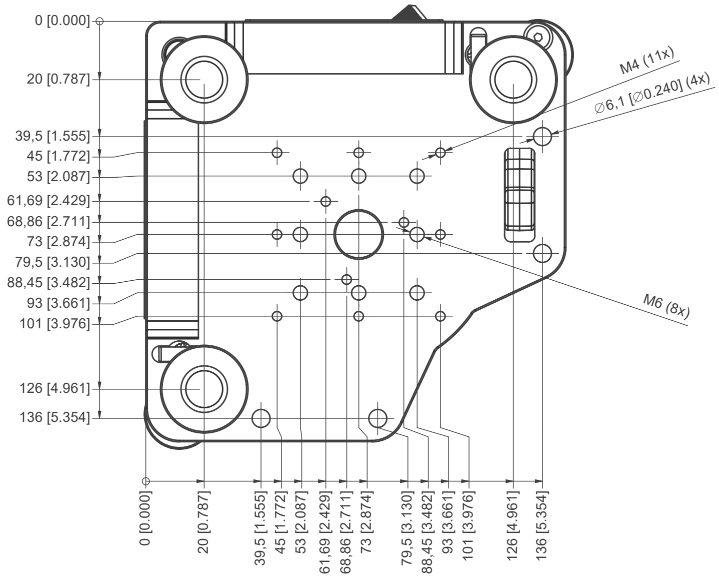

Max 152 [5.984]
Max 147 [5.787]

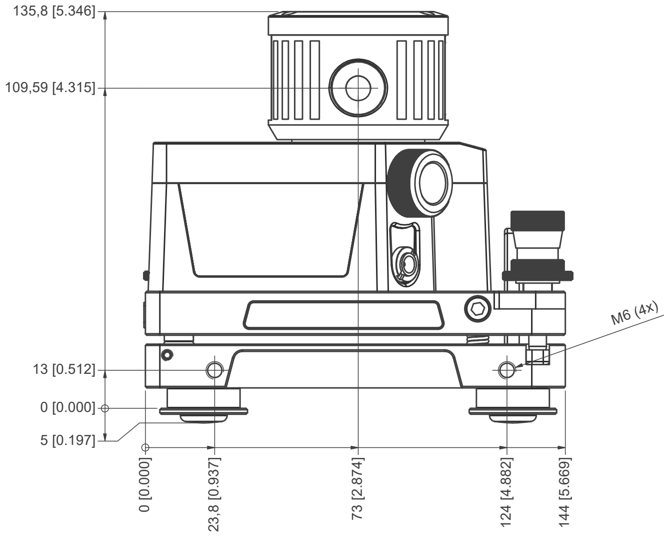
Laser transmitter XT22, Part No. 12-1273

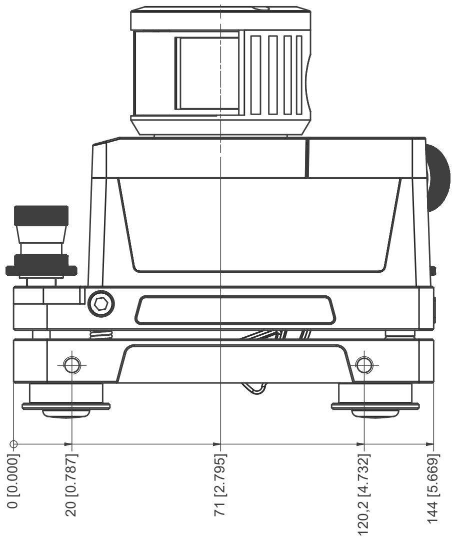
LASER
2

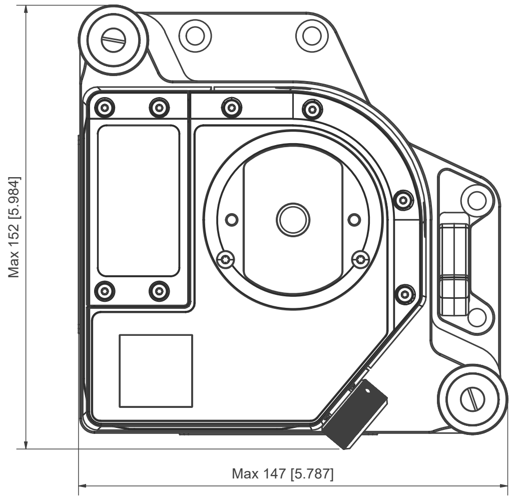
mm [inch]

Type of laser	Fiber-coupled 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 [0.24"] at aperture, 13 mm [0.51"] at 40 m [132']
Working range	40 m radius [132']
Communication	BT Wireless technology, 40 m [130'] range. Contains FCC ID: QOQBGM13P, IC: 5123A-BGM13P. NCC Taiwan ID: CCAM18LP1260T0.
Warning indications	Tempearature drift and shake/vibration
Connections	Charger
Type of battery	Heavy duty Li-Ion chargeable
Operating time	Up to 30 hours continuous use
Warmup time	15 min
Operating temperature	-10–50 °C [14–122 °F]
Charging temperature (battery)	0–50 °C [32–122 °F]
Storage temperature	-20–50 °C [-4–122 °F]
Relative humidity	10–95% non-condensing
Number of precision levels	2 pcs Horizontal, 1 pc Vertical
Precision level range	± 10 mm/m [± 10 mils/inch]
Precision level accuracy	± 0.02 mm/m ±1% [± 0.02 mils/inch ±1%]
Precision level sensitivity	0.001 mm/m [0.001 mils/inch]
Laser beam straightness	± 0.003 mm [± 0.12 mils]
Laser plane flatness	± 0.01 mm/m [± 0.01 mils/inch]
Squareness between laser beams	± 0.01 mm/m [± 0.01 mils/inch]
Laser head fine turning	1:1320 gear ratio
Environmental protection	N/A. Designed for industrial use (pollution degree 3).
TFT display	240x240 pixels, RGB colour
Housing material	Anodized aluminium + PC/ABS + TPU
Dimensions	WxHxD: 147x136x152 mm [5.79x5.35x5.98"]
Weight	2264 g [79.86 oz]


0 [0.000]
20 [0.787]
39,5 [1.555]
45 [1.772]
53 [2.087]
61,69 [2.429]
68,86 [2.711]
73 [2.874]
79,5 [3.130]
88,45 [3.482]
93 [3.661]
101 [3.976]
126 [4.961]
136 [5.354]
M4 (11x)
⌀6,1 [⌀0.240] (4x)
M6 (8x)
0 [0.000]
20 [0.787]
39,5 [1.555]
45 [1.772]
53 [2.087]
61,69 [2.429]
68,86 [2.711]
73 [2.874]
79,5 [3.130]
88,45 [3.482]
93 [3.661]
101 [3.976]
126 [4.961]
136 [5.354]

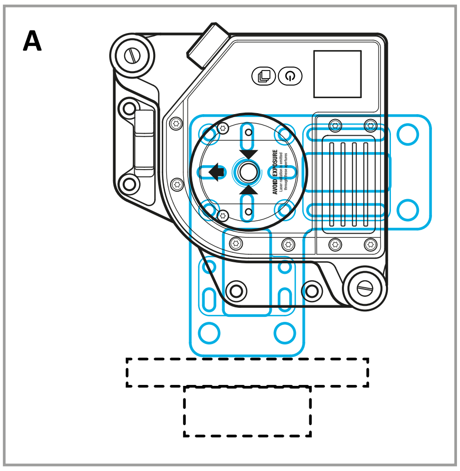

135,8 [5.346]
109,59 [4.315]
13 [0.512]
0 [0.000]
5 [0.197]
M6 (4x)
0 [0.000]
23,8 [0.937]
73 [2.874]
124 [4.882]
144 [5.669]

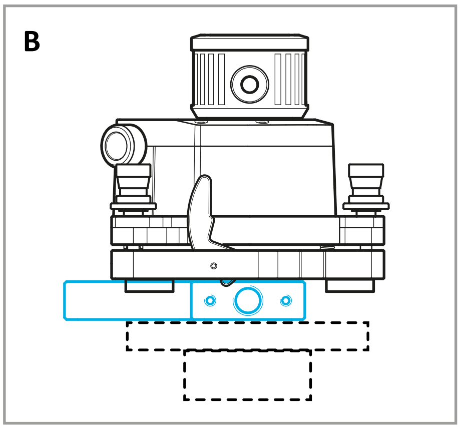

0 [0.000]
20 [0.787]
71 [2.795]
120,2 [4.732]
144 [5.669]

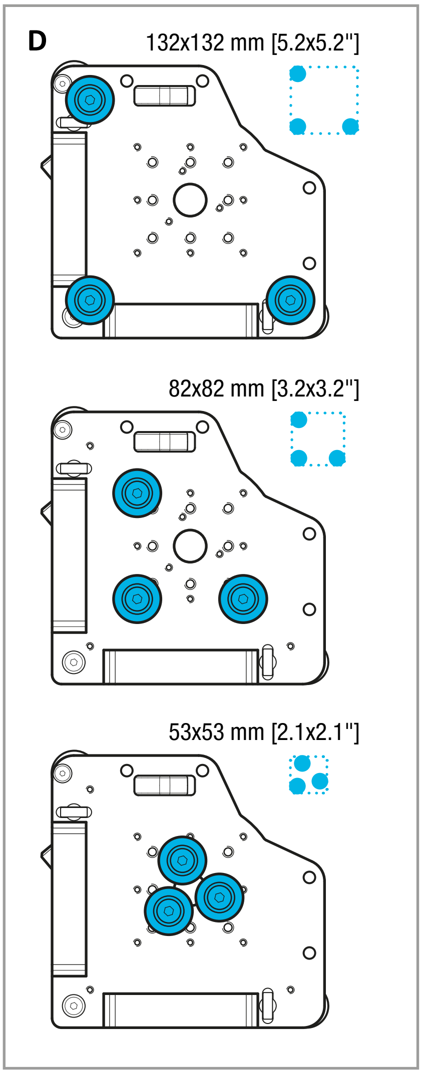

Max 152 [5.984]
Max 147 [5.787]

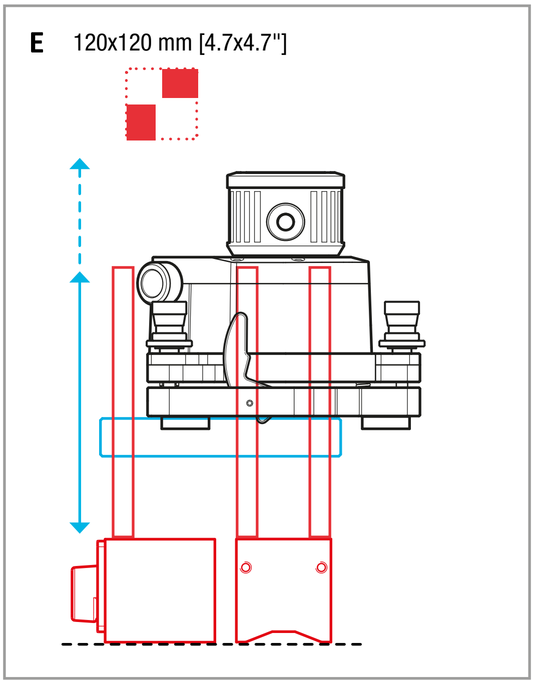
Mounting possibilities for XT20/XT22 and Multi-bracket

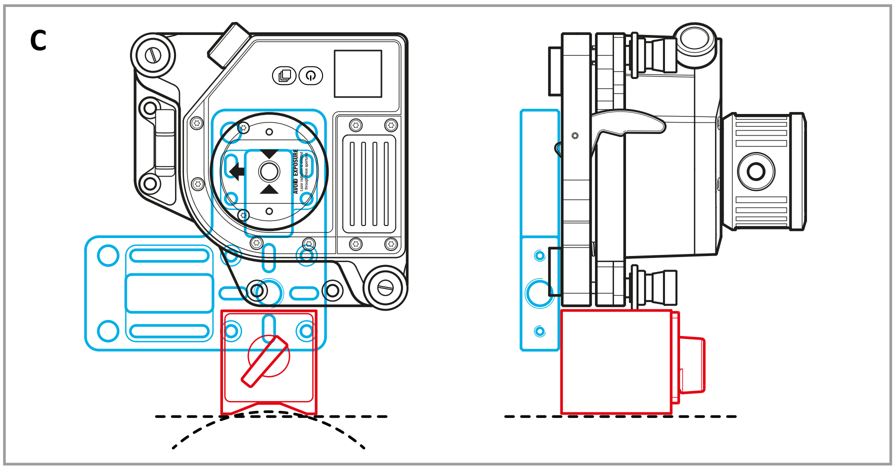
A/B: Use the Multi-bracket as adapter for mounting on tripod, vertically or horizontally.
C: Use it to mount the transmitter vertically on a magnet base.
D: The three super magnets can be mounted at many different positions, making it possible to also place the transmitter on a small surface, when needed. Here are three examples shown.
E: Use rods on regular magnet bases to position the transmitter at required height. For example when you need to place the transmitter on a lower position than the surface to be measured.
F: Mount one or two magnet bases directly on the tilt table.

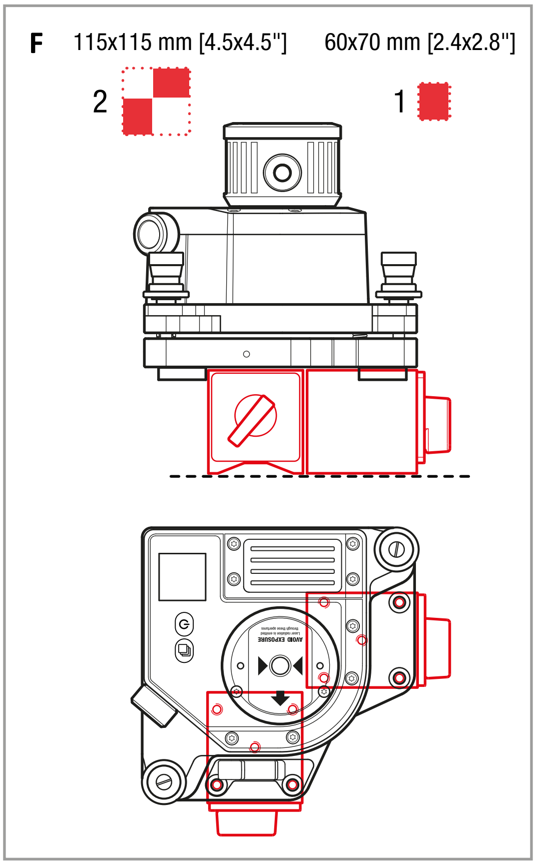




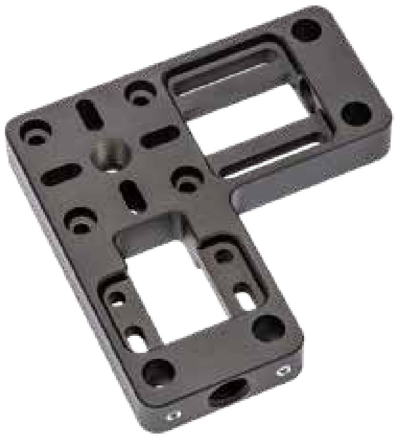




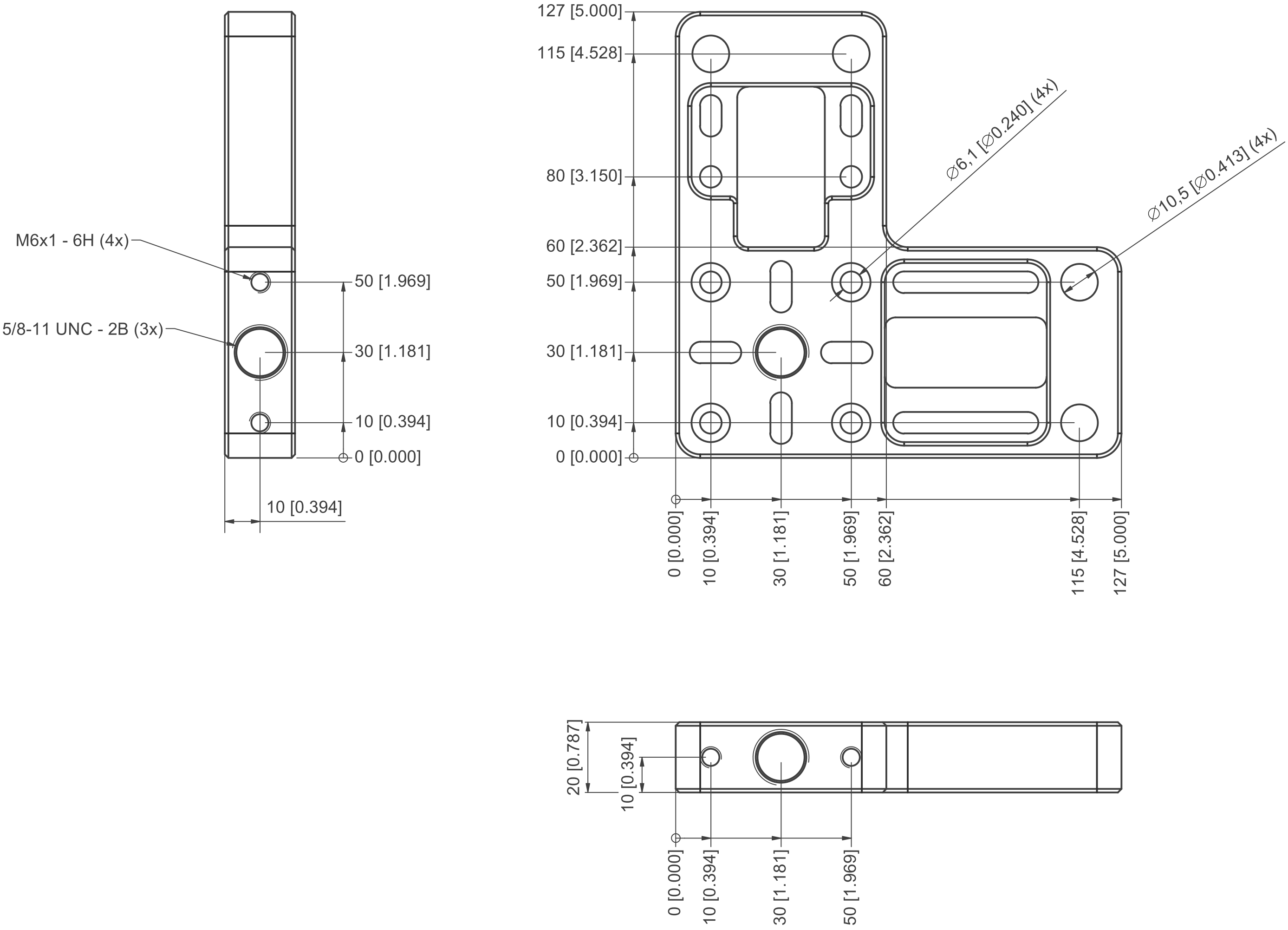




Multi bracket for XT lasertransmitter, Part No. 12-1275

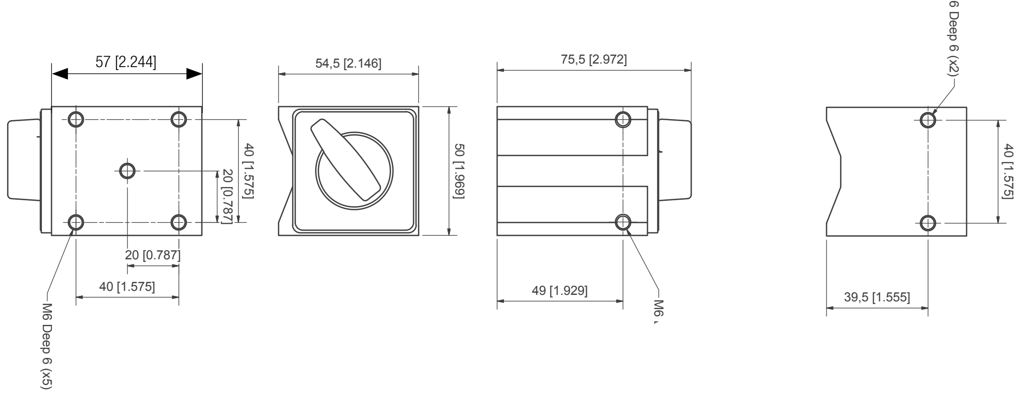


mm [inch]

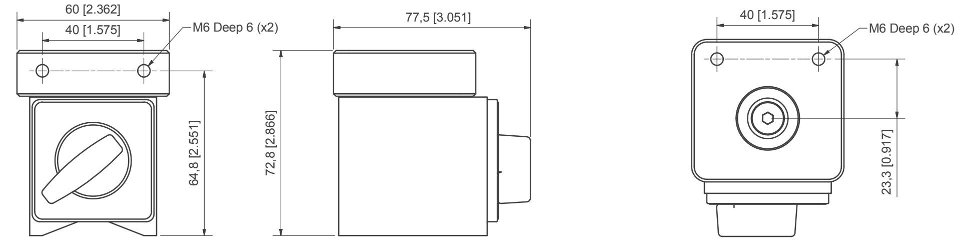

M6x1 - 6H (4x)
5/8-11 UNC - 2B (3x)
50 [1.969]
30 [1.181]
10 [0.394]
0 [0.000]
10 [0.394]
127 [5.000]
115 [4.528]
80 [3.150]
60 [2.362]
50 [1.969]
30 [1.181]
10 [0.394]
0 [0.000]
Ø6,1 [Ø0.240] (4x)
Ø10,5 [Ø0.413] (4x)
0 [0.000]
10 [0.394]
30 [1.181]
50 [1.969]
60 [2.362]
115 [4.528]
127 [5.000]
20 [0.787]
10 [0.394]
0 [0.000]
10 [0.394]
30 [1.181]
50 [1.969]

Magnet base, Part No. 12-0013

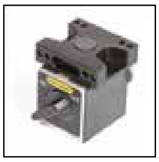
mm [inch]

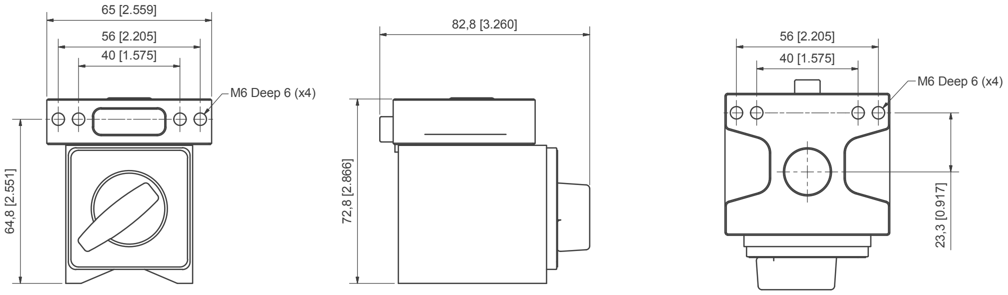

57 [2.244]
54,5 [2.146]
75,5 [2.972]
M6 Deep 6 (x2)
40 [1.575]
20 [0.787]
50 [1.969]
40 [1.575]
20 [0.787]
40 [1.575]
49 [1.929]
M6 ,
39,5 [1.555]
M6 Deep 6 (x5)

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

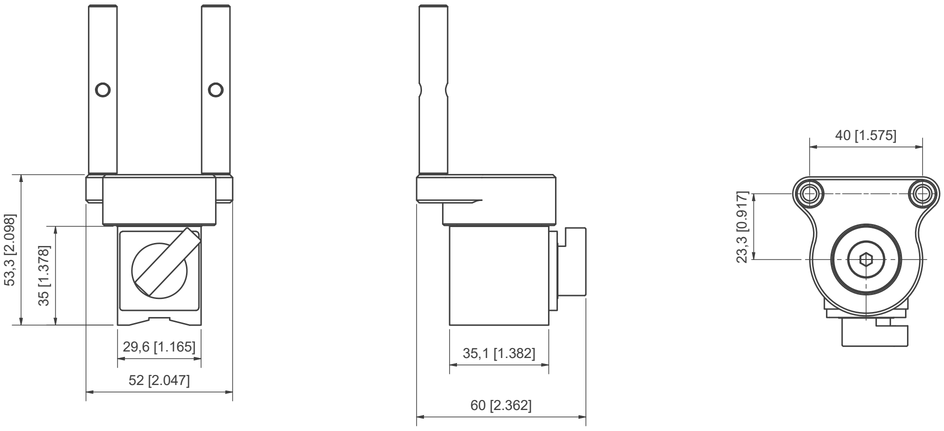

60 [2.362]
40 [1.575]
M6 Deep 6 (x2)
77,5 [3.051]
40 [1.575]
M6 Deep 6 (x2)
64,8 [2.551]
72,8 [2.866]
23,3 [0.917]

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

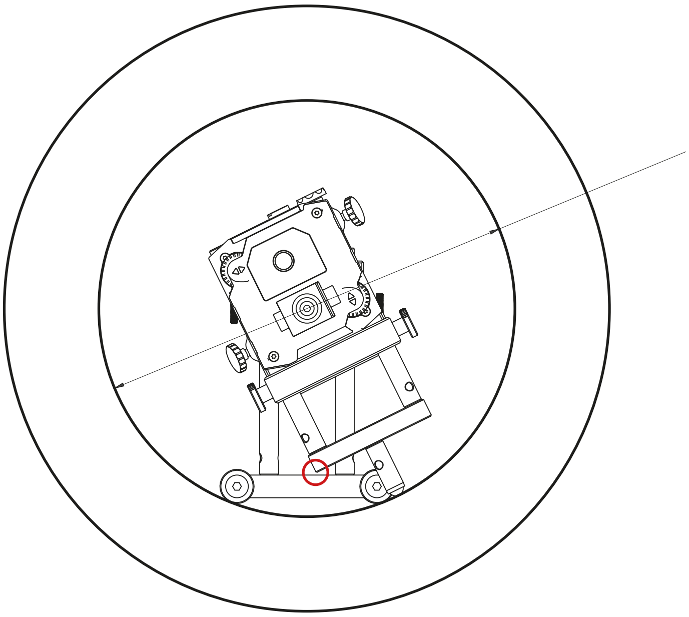



65 [2.559]
56 [2.205]
40 [1.575]
M6 Deep 6 (x4)
82,8 [3.260]
56 [2.205]
40 [1.575]
M6 Deep 6 (x4)
64,8 [2.551]
72,8 [2.866]
23,3 [0.917]

Small magnet base with turnable head, Part No. 12-0696


40 [1.575]
23,3 [0.917]
53,3 [2.098]
35 [1.378]
29,6 [1.165]
52 [2.047]
35,1 [1.382]
60 [2.362]

12-1277 (for XT-series)

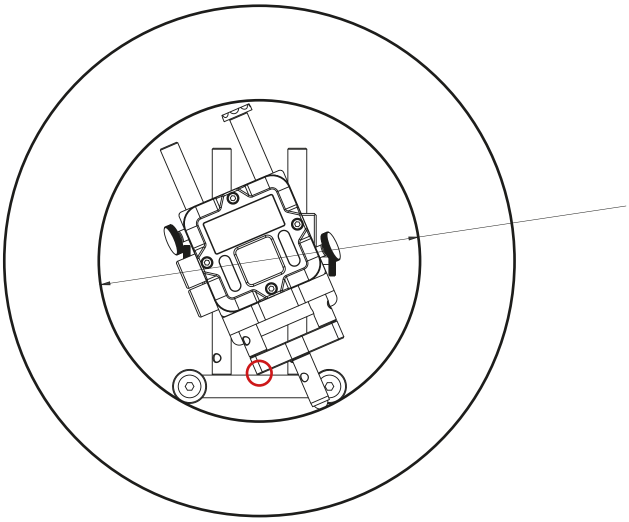


Min. ∅ 220 mm [8.67"]

Note: This bracket can be assembled in many different ways, and used also with magnet base, magnetic bracket, etc. Then the minimum measurable diameters are other than specified here. Please consult your local distributor for more information.

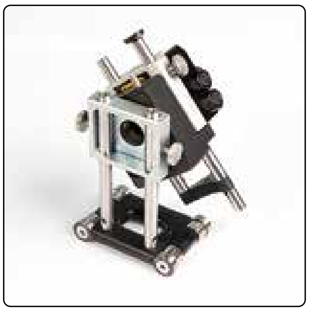
○ =possible interference point for minimum diameters.

12-1282 (for E-series)



Min. ∅ 170 mm [6.70"]

Note: This bracket can be assembled in many different ways, and used also with magnet base, magnetic bracket, etc. Then the minimum measurable diameters are other than specified here. Please consult your local distributor for more information.



Miscellaneous

Wireless unit, Part No. 12-0436

Communication	BT wireless technology
Operating temperature	-10–50 °C [14–122 °F]
Environmental protection	IP class 66 and 67
Housing material	ABS
Dimensions	WxHxD: 53x32x24 mm [2.1x1.2x0.9"]
Weight	25 g [0.9 oz]

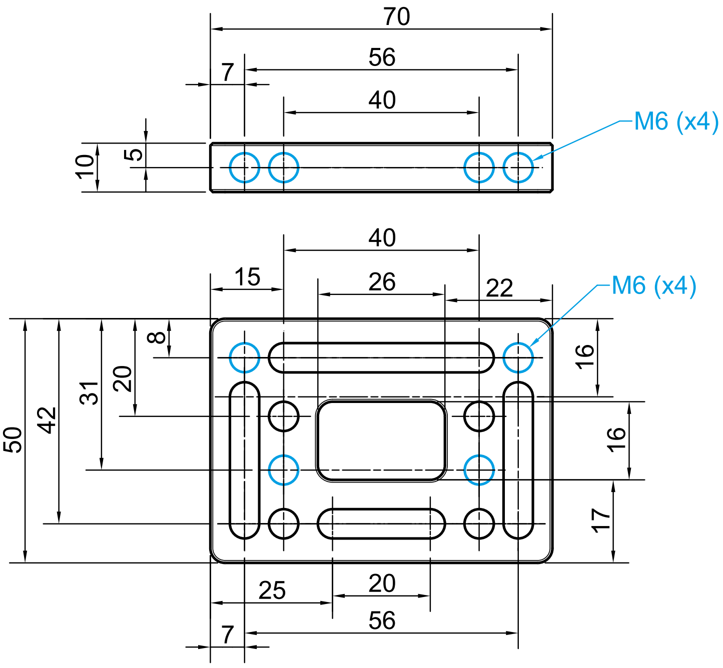
Vibrometer probe XT280, Part No. 12-1090 (system)

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 [32–122 °F]
Storage temperature	-20–70 °C [-4–158 °F]
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]

Offset bracket, Part No. 12-1008

Blue circles are threaded holes.

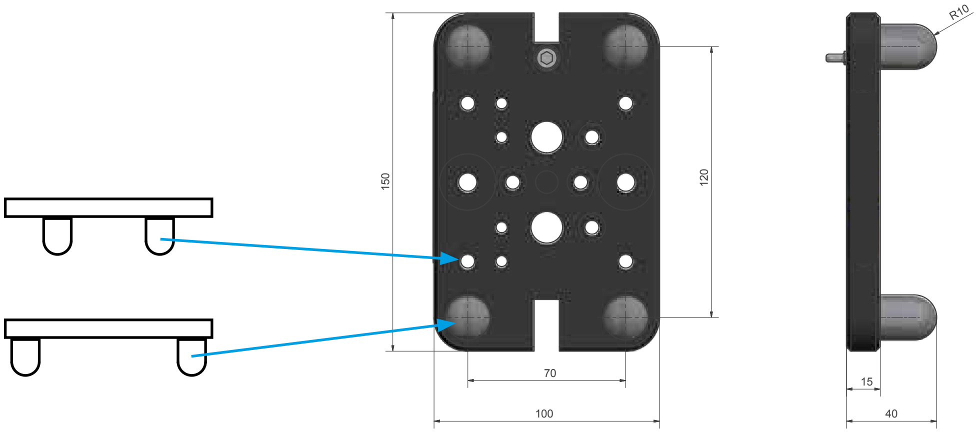
mm



Sliding bracket, Part No. 12-1010

Min. ∅90 mm [∅ 3.54"]
Max. ∅155 mm [∅6.10"]

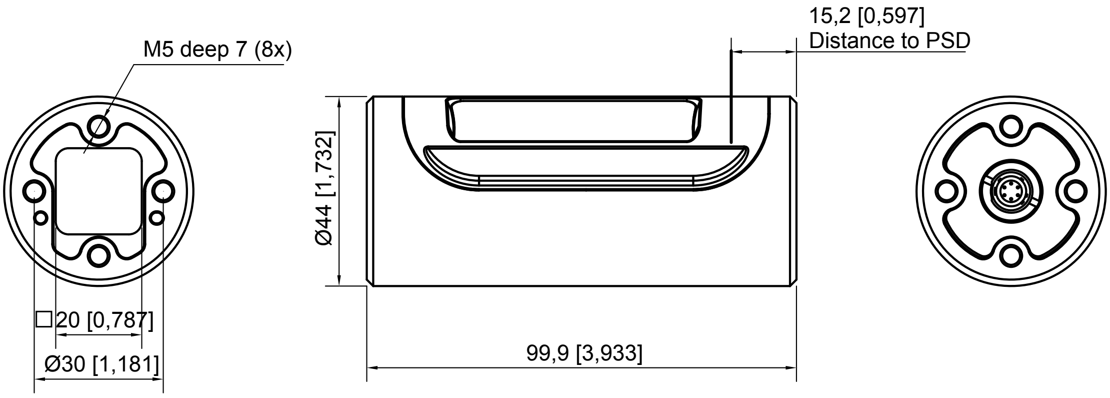
Min. ∅155 mm [∅ 6.10"]
Max. ∅600 mm [∅ 23.62"]



Detector E9, Part No. 12-0759

mm [inch]

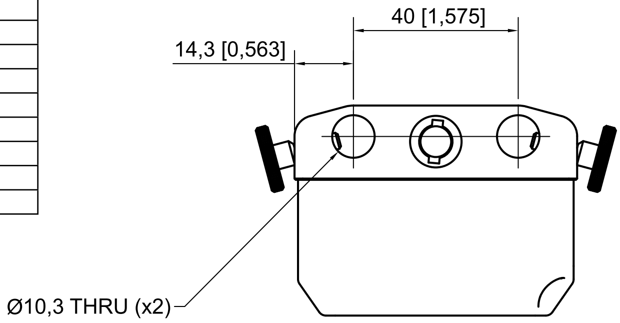
Wireless communication	BT wireless technology. Contains FCC ID: PVH0946 / IC:5325A-0946
Type of detector	2 axis PSD 20x20 mm [0.78” sq]
Resolution	0.001 mm [0.05 mils]
Measurement accuracy	±1µm ±1%
Thermal sensor	± 1° C accuracy
Environmental protection	IP class 67
Internal battery	Li Ion
Protection	No influence from ambient light
Housing material	Anodized aluminium
Dimensions	∅ 45 mm [1.77”], length 100 mm [3.94”]
Weight	180 g [6.3 oz]

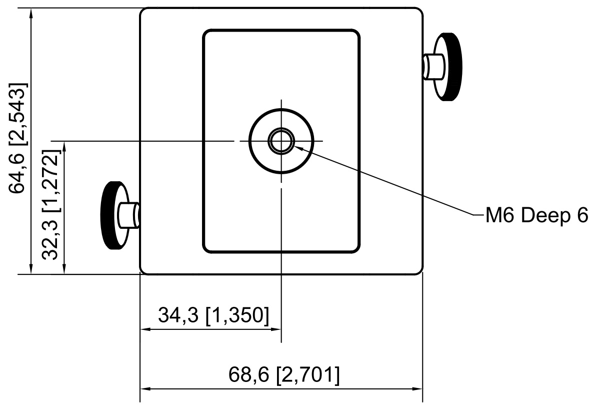


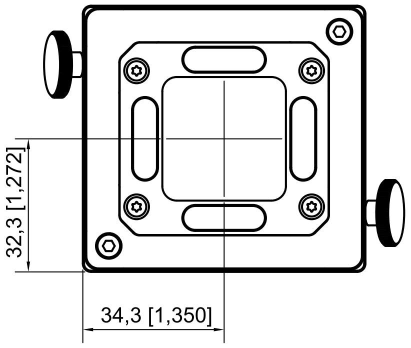
Detector E3, Part No. 12-0799

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

mm [inch]


40 [1,575]
14,3 [0,563]
Ø10,3 THRU (x2)

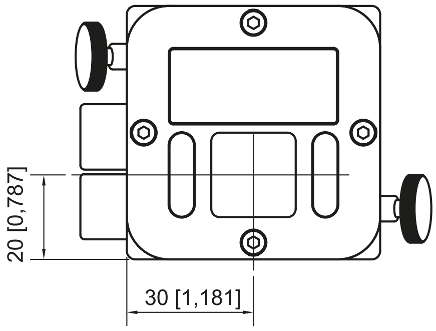

64,6 [2,543]
32,3 [1,272]
M6 Deep 6
34,3 [1,350]
68,6 [2,701]


32,3 [1,272]
34,3 [1,350]

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

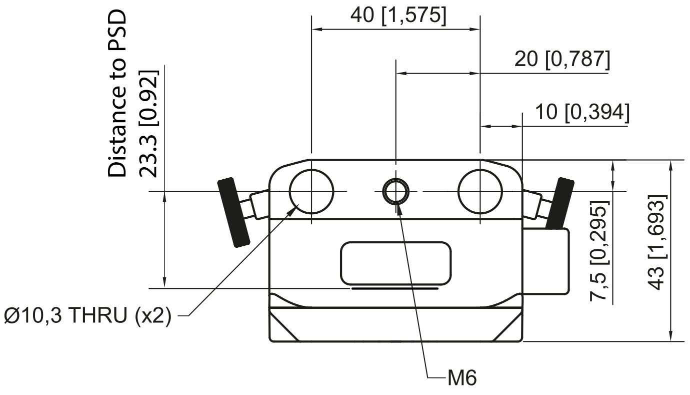
Detector E7H, Part No. 12-0824	
Type of detector	2 axis PSD 20x20 mm [0.78" sq]
Resolution	0.0001 mm [0.005 mils]
Measurement accuracy	±1µm ±0.5%
Inclinometers	0.1° resolution
Thermal sensors	± 1° C accuracy
Environmental protection	IP Class 66 and 67
Operating temperature	-10–50 °C [14–122 °F]
Internal battery	Li Ion
Housing material	Anodized aluminium
Dimensions	WxHxD: 60x60x42 mm [2.36x2.36x1.65"]
Weight	186 g [6.6 oz]

mm [inch]



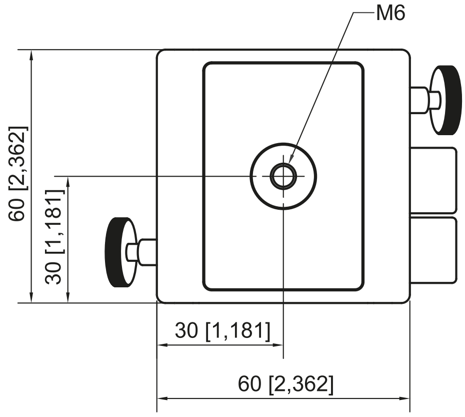
Detector E7, Part No. 12-0752

Detector E7, Part No. 12-0752	
Type of detector	2 axis PSD 20x20 mm [0.78" sq]
Resolution	0.001 mm [0.05 mils]
Measurement accuracy	±1µm ±1%
Inclinometers	0.1° resolution
Thermal sensors	± 1° C accuracy
Environmental protection	IP Class 66 and 67
Operating temperature	-10–50 °C [14–122 °F]
Internal battery	Li Ion
Housing material	Anodized aluminium
Dimensions	WxHxD: 60x60x42 mm [2.36x2.36x1.65"]
Weight	186 g [6.6 oz]



Detector E5, Part No. 12-0509

Detector E5, Part No. 12-0509	
Type of detector	2 axis PSD 20x20 mm [0.78" sq]
Dual Detection Technology™	Can detect both spinning and stationary laser beam, but is optimised for spinning laser.
Resolution	0.001 mm [0.05 mils]
Measurement accuracy	Spin ±10µm ±1% / Stationary beam ±10µm ±2%
Inclinometers	0.1° resolution
Thermal sensors	± 1° C accuracy
Environmental protection	IP Class 66 and 67
Operating temperature	-10–50 °C [14–122 °F]
Internal battery	Li Ion
Housing material	Anodized aluminium
Dimensions	WxHxD: 60x60x42 mm [2.36x2.36x1.65"]
Weight	186 g [6.6 oz]



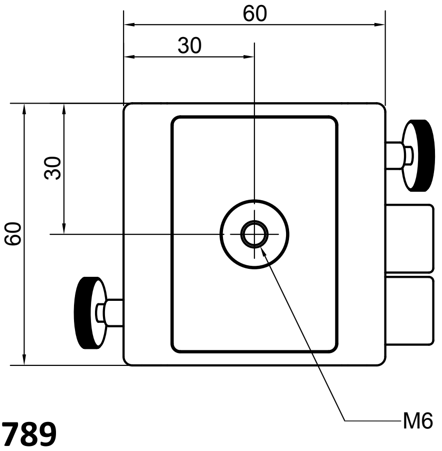
Measuring unit EM/ES, Part No. 12-0434 / 12-0433

LASER
2

Measuring unit PSD 20x20 mm. EM: Part No. 12-0434, ES: Part No. 12-0433

Type of detector	2-axis PSD 20x20 mm [0.78" sq]
Resolution	0.001 mm [0.05 mils]
Measurement accuracy	±1µm ±1%
Measurement range	Up to 20 m [66 feet]
Type of laser	Diode laser
Laser wavelength	630–680 nm
Laser class	Safety class 2
Laser output	AVERAGE POWER < 0.6 mW. PULSE ENERGY < 20 nJ. PULSE DURATION 10-17 µs.
Electronic inclinometer	0,1° resolution
Thermal sensors	± 1° C accuracy
Environmental protection	IP class 66 and 67
Operating temperature	-10–50 °C [14–122 °F]
Internal battery	Li Ion
Housing material	Anodized aluminium
Dimensions	WxHxD: 60x60x42 mm [2.36x2.36x1.65"]
Weight	202 g [7.1 oz]

mm [inch]

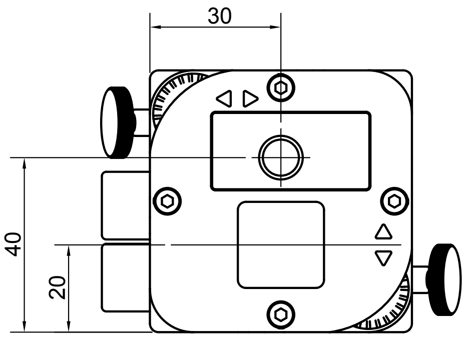


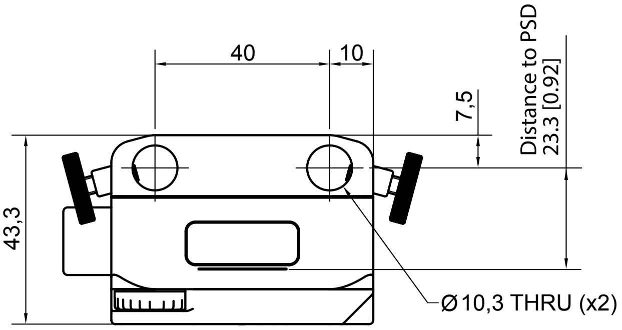
Measuring unit EMH/ESH, Part No. 12-0790 / 12-0789

LASER
2

Measuring unit PSD 20x20 mm. EMH: Part No. 12-0790, ESH: Part No. 12-0789

Type of detector	2-axis PSD 20x20 mm [0.78" sq]
Resolution	0.0001 mm [0.005 mils]
Measurement accuracy	±1µm ±0.5%
Measurement range	Up to 20 m [66 feet]
Type of laser	Diode laser
Laser wavelength	630–680 nm
Laser class	Safety class 2
Laser output	AVERAGE POWER < 0.6 mW. PULSE ENERGY < 20 nJ. PULSE DURATION 10–17 µs.
Electronic inclinometer	0,1° resolution
Thermal sensors	± 1° C accuracy
Environmental protection	IP class 66 and 67
Operating temperature	-10–50 °C [14–122 °F]
Internal battery	Li Ion
Housing material	Anodized aluminium
Dimensions	WxHxD: 60x60x42 mm [2.36x2.36x1.65"]
Weight	202 g [7.1 oz]



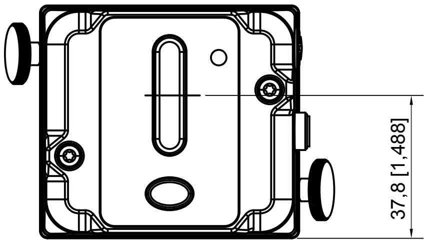


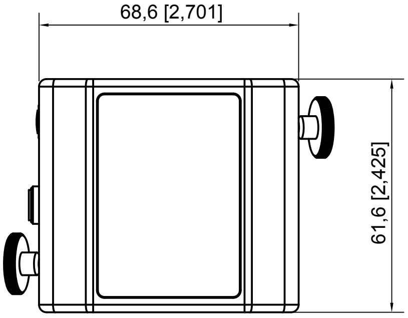
Measuring unit ELM40 / ELS40, Part No. 12-0776 / 12-0777

	LASER 2
Wireless communication	BT wireless technology Contains FCC ID: PVH0946 / IC:5325A-0946
Internal battery	Li Ion
Type of detector	True PSD 30 mm [1.2"]
Resolution	0.001 mm [0.05 mils]
Measurement accuracy	±5µm ±1%
Measurement range	Up to 10 m [33 feet]
Type of laser	Diode laser
Laser wavelength	630–680 nm
Laser class	Safety class 2
Laser output	AVERAGE POWER < 0.6 mW. PULSE ENERGY < 8 nJ. PULSE DURATION 4-6 µs.
Electronic inclinometer	0.1° resolution
Thermal sensors	-20–60 °C [-4–140 °F]
Environmental protection	IP class 65
Operating temperature	-10–50 °C [14–122 °F]
Housing material	Anodized aluminium / ABS plastics
Dimensions	WxHxD: 69.0x61.5x41.5 mm [2.72x2.42x1.63"]
Weight	164 g [5.8 oz]

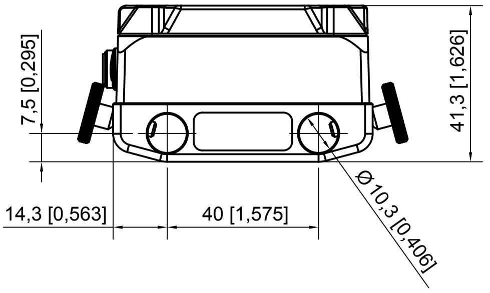
ELM40/ELS40

mm [inch]





ELM40/ELS40
ELM20/ELS20

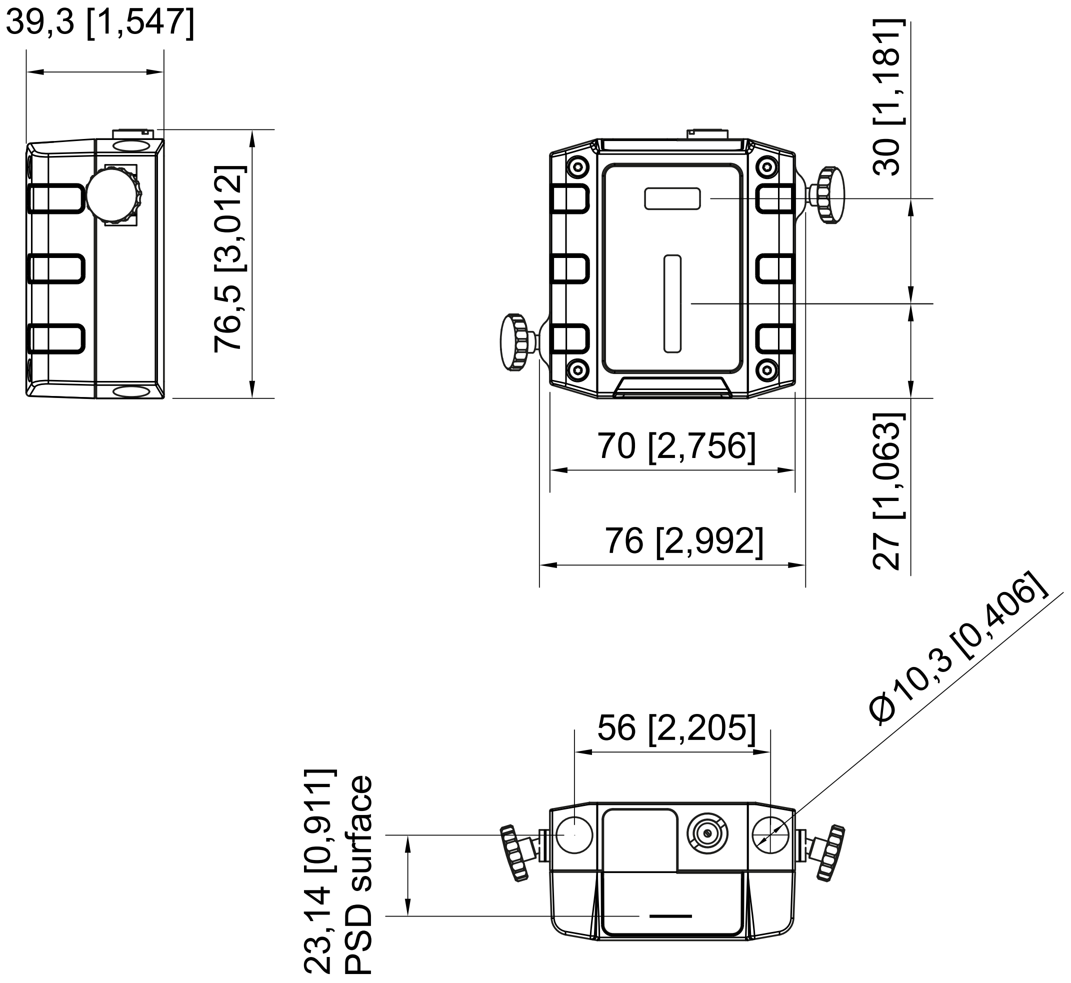


Measuring unit XT40-M, XT40-S, Part No. 12-0943 / 12-0944

mm [inch]

LASER
2

Measuring unit PSD 30 mm. XT40-M: Part No. 12-0943, XT40-S: Part No. 12-0944	
Type of detector	TruePSD 30 mm [1.2"]
Communication	BT wireless technology
Battery type	Heavy duty Li Ion chargeable
Operating time	Up to 24 h continuously
Resolution	0.001 mm [0.05 mils]
Measurement accuracy	±5µm ±1%
Measurement range	Up to 10 m [33 feet]
Type of laser	Diode laser
Laser wavelength	630–680 nm
Laser class	Safety class 2
Laser output	AVERAGE POWER < 0.6 mW. PULSE ENERGY < 8 nJ. PULSE DURATION 4-6 µs.
Electronic inclinometer	0.1° resolution
Environmental protection	IP class 66 and 67
Operating temperature	-10–50 °C [14–122 °F]
Storage temperature	-20–50 °C [-4–122 °F]
Relative humidity	10–95%
OLED display	128x64 pixels
Housing material	Anodized aluminium + PC/ABS + TPE
Dimensions	WxHxD: 76x76.5x39.3 mm [3.0x3.0x1.5"]
Weight	245 g [8.6 oz]



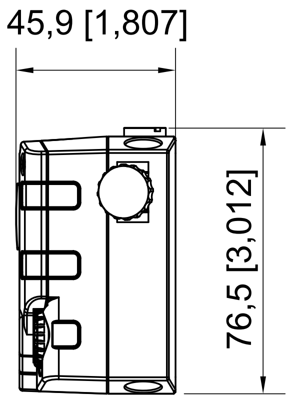
Measuring unit XT60-M, XT60-S, Part No. 12-1028 / 12-1029

mm [inch]

LASER
2

Measuring unit PSD 20x20 mm. XT60-M: Part No. 12-1028, XT60-S: Part No. 12-1029

Type of detector	1-axis TruePSD 20x20 mm [0.79x0.79"]
Communication	BT wireless technology
Battery type	Heavy duty Li Ion chargeable
Operating time	Up to 24 h continuously
Resolution	0.001 mm [0.05 mils]
Measurement accuracy	±1µm ±1%
Measurement range	Up to 20 m [66 feet]
Type of laser	Diode laser
Laser wavelength	630–680 nm
Laser class	Safety class 2
Laser output	AVERAGE POWER < 0.6 mW. PULSE ENERGY < 20 nJ. PULSE DURATION 10-17 µs. WAVELENGTH 630-680 nm.
Electronic inclinometer	0.1° resolution
Environmental protection	IP class 66 and 67
Operating temperature	-10–50 °C [14–122 °F]
Storage temperature	-20–50 °C [-4–122 °F]
Relative humidity	10–95%
OLED display	128x64 pixels
Housing material	Anodized aluminium + PC/ABS + TPE
Dimensions	WxHxD: 76x76.5x45.9 mm [3.0x3.0x1.8"]
Weight	272 g [9.6 oz]

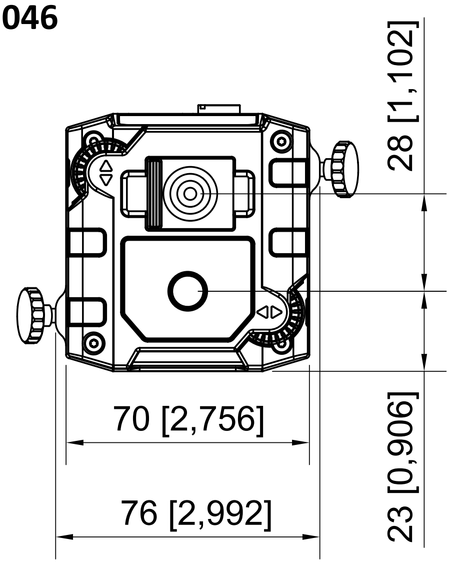


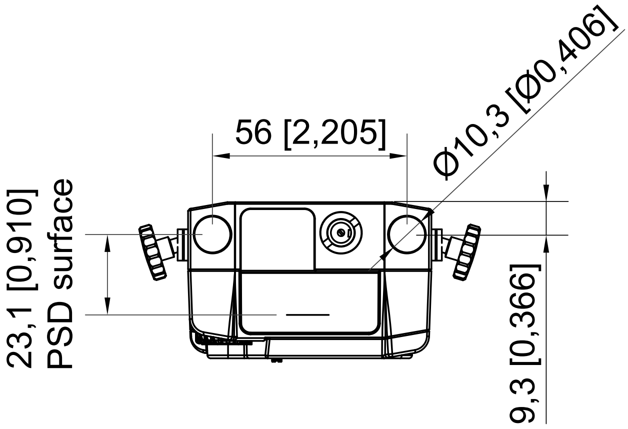
Measuring unit XT70-M, XT70-S, Part No. 12-1045 / 12-1046

LASER
2

Measuring unit PSD 20x20 mm. XT70-M: Part No. 12-1045, XT70-S: Part No. 12-1046

Type of detector	2-axis TruePSD 20x20 mm [0.79x0.79"]
Communication	BT wireless technology
Battery type	Heavy duty Li Ion chargeable
Operating time	Up to 24 h continuously
Resolution	0.001 mm [0.05 mils]
Measurement accuracy	±1µm ±1%
Measurement range	Up to 20 m [66 feet]
Type of laser	Diode laser
Laser wavelength	630–680 nm
Laser class	Safety class 2
Laser output	AVERAGE POWER < 0.6 mW. PULSE ENERGY < 20 nJ. PULSE DURATION 10-17 µs. WAVELENGTH 630-680 nm.
Electronic inclinometer	0.1° resolution
Environmental protection	IP class 66 and 67
Operating temperature	-10–50 °C [14–122 °F]
Storage temperature	-20–50 °C [-4–122 °F]
Relative humidity	10–95%
OLED display	128x64 pixels
Housing material	Anodized aluminium + PC/ABS + TPE
Dimensions	WxHxD: 76x76.5x45.9 mm [3.0x3.0x1.8"]
Weight	272 g [9.6 oz]





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

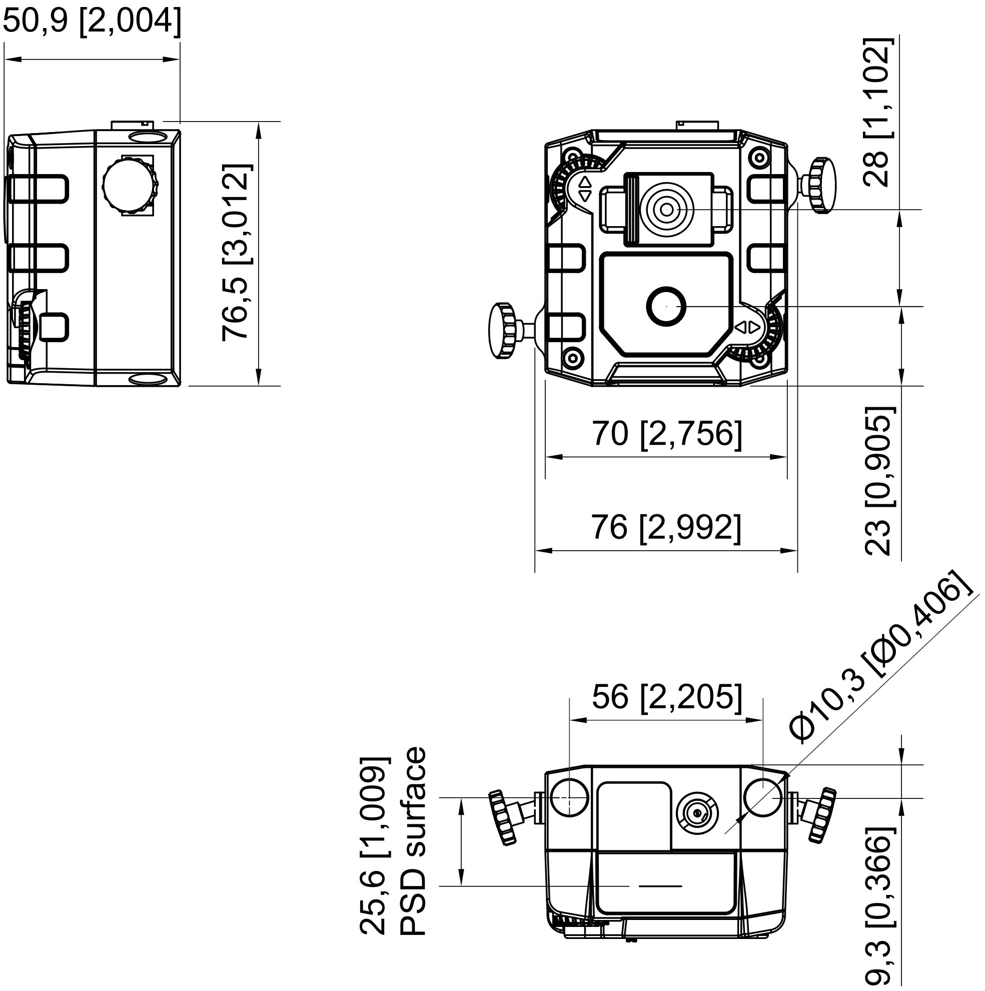
mm [inch]

LASER
2

0470

Measuring unit PSD 20x20 mm. XT50-M: Part No. 12-1026, XT50-S: Part No. 12-1027	
Type of detector	TruePSD 1 axis 20x20 mm [0.79x0.79"]
Communication	BT wireless technology
Battery type	Heavy duty Li Ion chargeable
Operating time	Up to 20 h continuously
Resolution	0.001 mm [0.05 mils]
Measurement accuracy	±1µm ±1%
Measurement range	Up to 20 m [66 feet]
Type of laser	Diode laser
Laser wavelength	630–680 nm
Laser class	Safety class 2
Laser output	AVERAGE POWER < 0.6 mW. PULSE ENERGY < 20 nJ. PULSE DURATION 10-17 µs. WAVELENGTH 630-680 nm.
Electronic inclinometer	0.1° resolution
Environmental protection	IP class 66 and 67
Operating temperature	-10–50 °C [14–122 °F]
Storage temperature	-20–50 °C [-4–122 °F]
Relative humidity	10–95%
OLED display	128x64 pixels
Housing material	Anodized aluminium + PC/ABS + TPE
Dimensions	WxHxD: 76x76.5x50.9 mm [3.0x3.0x2.0"]
Weight	316 g [11.1 oz]

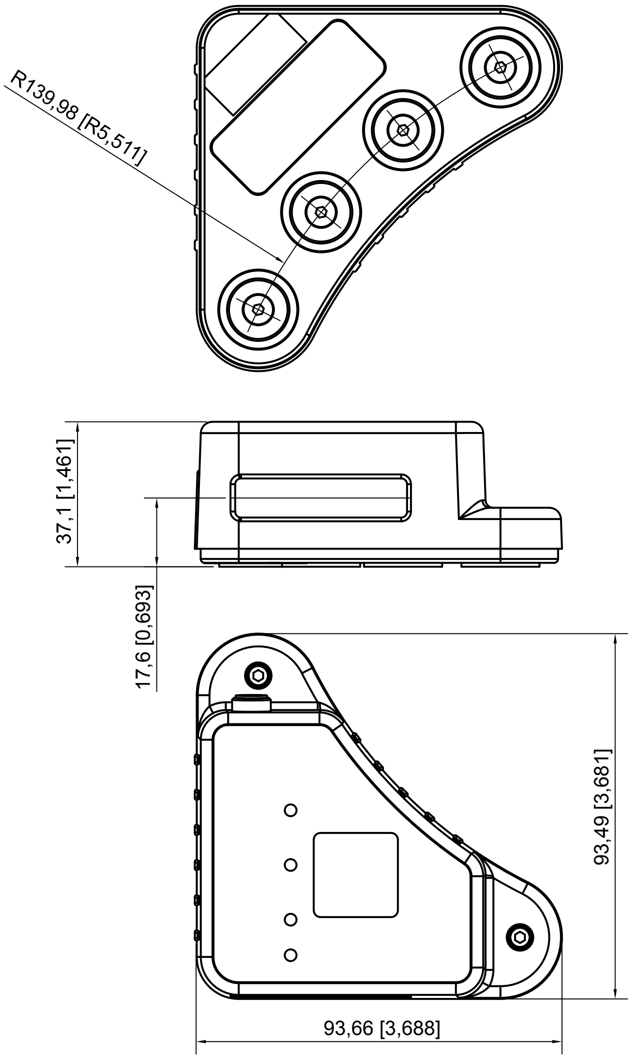
Easy-Laser® XT50 measuring units are approved in accordance with the latest ATEX directive.
EX certificate number: Presafe 17 ATEX 10552X, IECEx PRE 17.0049X
ATEX code: II 2 G
EX classification: Ex ib op is IIC T4 Gb, -10°C ≤ Ta ≤ +50°C
II=Indicates that the instrument is approved for all areas except 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



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

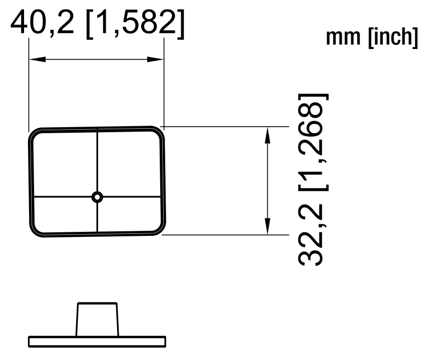
	CE
Sheave diameters	>60 mm [2.5”]
Measurement distance	Up to 3 m [9.8’] between Transmitter and Detector
Measurement range	Axial offset: ±3 mm [0.12”]. Angular value: ±8°
Displayed resolution	Offset: 0.1°, Angle: 0.01°
Display type	Yellow OLED 96x96 pixels
Connection	BT wireless technology
Battery type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

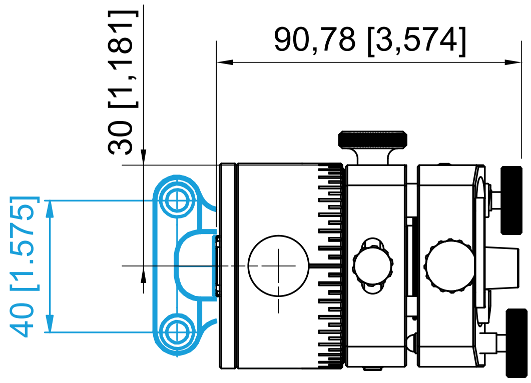
mm [inch]

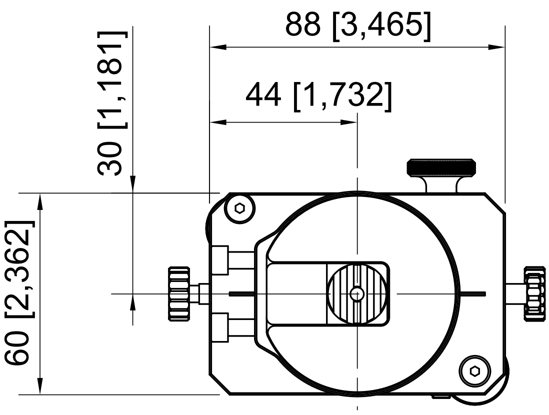


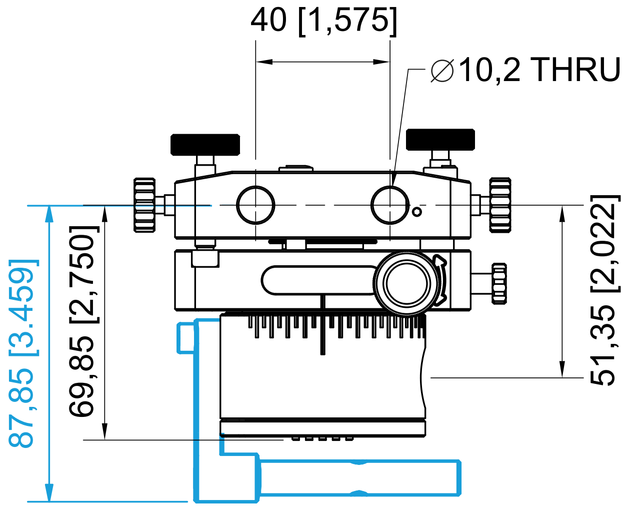
Angular prism, Part No. 12-1136

Turning range	360°
Fine turning	0.1 mm/m [20 arc sec.]
Parallelism accuracy	±0.005 ±0.002/M mm/m [±0.005 ±0.007/F mils/inch] *
	* M is the measurement range in meters [m]. F is the measurement range in feet [ft].
Aperture size	18 mm [3/4"]
Knob and rod material	Stainless steel
Housing material	Anodized aluminium
Weight (with detector bracket)	860 g [1.9 lbs]


40,2 [1,582]
mm [inch]
32,2 [1,268]


30 [1,181]
90,78 [3,574]
40 [1.575]


30 [1,181]
88 [3,465]
44 [1,732]
60 [2,362]


40 [1,575]
∅10,2 THRU
87,85 [3.459]
69,85 [2,750]
51,35 [2,022]

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