

Product catalog for Positioning Lasers

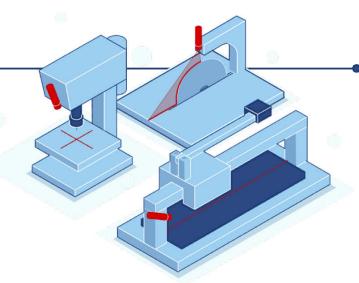
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Applications

Positioning lasers light the way

Positioning laser – the term has caught on over the years and it's what everyone is talking about when it comes to the innovative aid for positioning material in manual or semi-automated manufacturing processes.





Ideal for your field of work

Line lasers visualize the cutting path in all cutting processes across all industries.

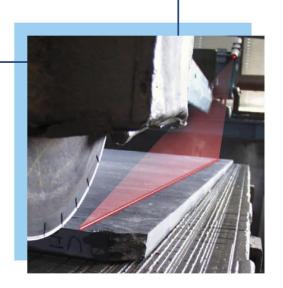
Cross lasers make it easier to position labels or mark where holes need to be drilled.

Dot lasers show where to sew on a button or help to align machine parts over long distances.

Work more quickly and efficiently •

These are just a few examples – there are no limits to possible uses. Positioning lasers help you to achieve optimum results by saving time and material. Positioning lasers don't do the work for you but they allow you to see better, decide faster and act more precisely.

The following pages give you several examples of applications from different sectors.





Heavy, valuable, and sensitive materials such as natural stone need to be processed with the utmost care. Cutting mistakes cause significant additional costs.

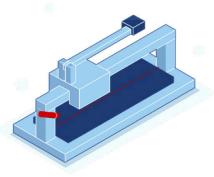
The modern stonemasonry business would be unimaginable today without line lasers as positioning aids



Bridge saw & masonry saw

The laser line marks the cutting edge of the diamond disc. The cut can be optimally aligned on the cutting table with this line. The laser can be fitted either on the bridge or on the support.

In this way it either moves with the bridge in the y-direction or tilts with the support, e.g. for mitre cuts.



Tile cutter

Mobile tile cutters are generally used for natural stone or ceramic tiles — with a battery-operated line laser, of course (see page 16).

Lasers for the wood industry

Wood has been the most popular and versatile building material since time immemorial. Machine processing makes it much easier to handle this valuable natural material. Ensure less waste and better product quality with our positioning lasers!



Our line lasers point the way into the saw gate right from the very first processing step, sawing the trunks.



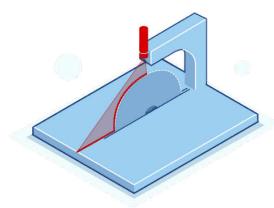
Edging saw

An effective aid for optimum material use: Using the red or green lines projected onto the board, the operator can set the edging saw to achieve the optimum result for edging and cutting. This saves time and material!



Panel saw / circular table saw

Indispensable in any workshop — a positioning laser transforms your saw into a universal tool for edging and cutting solid wood or panel material to size.



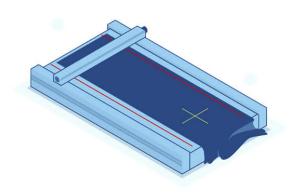


Laser marks in the form of lines or crosses are used when sewing or embroidering, cutting or textile printing.

They replace conventional alignment aids like templates, speeding up the entire manufacturing process. The result is impressive!

Cutting room

Use our line lasers as an alignment aid on your lay table. This minimizes waste and ensures pattern consistency. An additional ZRX cross laser helps to position chequered fabrics.

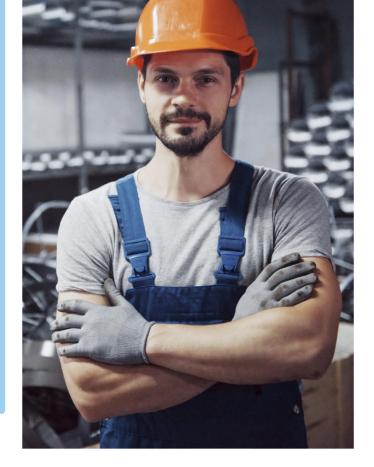


Textile finishing & printing

Whether you print, embroider, or patch – use our positioning lasers with line, line-dot, cross or dot optics to perfectly align your textiles or finishingmaterials.



Lasers for the metal industry



Sheet metal cutter or bending machine

Simulate the cutting path of your cutter on the sheet with a red or green laser line – you'll generate less waste!

Where the punch and die interlock to give your sheet metal the desired shape, a red or green laser line provides orientation.

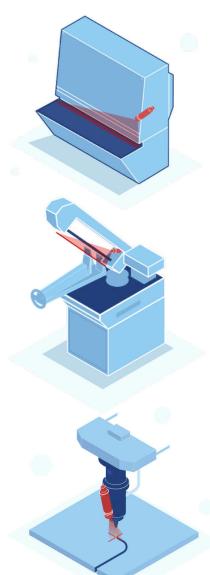
Band saw & hacksaw

This saw is used in every metalworking shop to quickly cut small workpieces, or to cut bar stock to length - a line laser can also be used here for clamping.

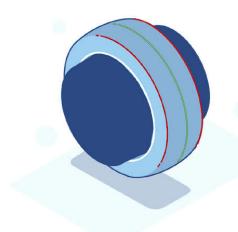
Flame or waterjet cutter

A positioning laser simplifies the setting of the machine zero point on flame and waterjet cutting systems.

The laser indicates the position at which the machine starts the cut. This enables the operator to position the material precisely. You achieve a significantly faster machine setup time and - less scrap







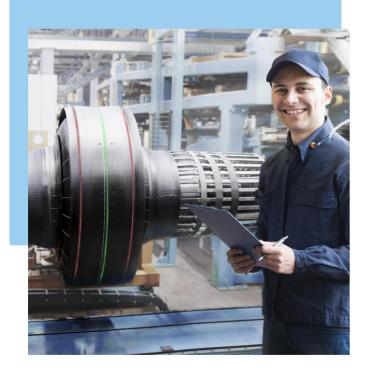
Tire building machine

The production process involves placing rubber layers of different thicknesses and widths onto a vulcanizing drum. Line lasers show the right position of the individual layer here. Typically, three lasers are used:

One line laser shows the precise middle line; another two parallel lines, which are moved in opposite directions depending on the required tire width, show the intended positions of the individual layers. Green laser lines offer the advantage of considerably better visibility, particularly on black rubber.

Lasers for the tire industry

Car tires in all sizes and variants are by far the most heavily used parts of a vehicle. Maximum precision is of great importance in production, which still requires a lot of manual work. This is the only way to ensure a permanently stable and safe product.



The exact alignment of a laser (projection) is particularly important. We recommend the precision supports developed by Z-LASER in cooperation with leading tire manufacturers for this.

Find more information on this on page 26.





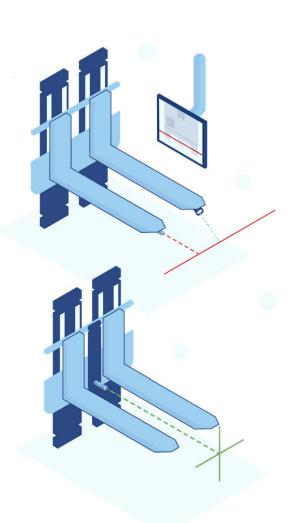
Lasers for industrial trucks



The solution is realized by mounting a line laser in a fork: a horizontal red or green line is projected forward onto the pallet. A camera is installed in the second fork which conveys the line onto a monitor in the driver's cab. This is particularly helpful with high loads that block the view of the forks.

Visualization via cross laser

An alternative technical solution is to install a cross laser, preferably green, between the forks near the adjusting gear. The additional vertical line makes it easier to aim for the middle of a pallet.





Lasers for medicine

Today's world of medicine operates at a level that can justifiably be described as high-tech medicine. Whether in diagnostic measures or curative treatments directly on the patient – we all benefit from the accomplishments of modern medical science and technology.

The central focus is on the individual, their health and safety. In many medical engineering applications today, lasers are also used; reliability, precision, and the highest quality of the individual components are key here. Z-LASER has been developing and producing laser modules for reputable manufacturers and different applications for over 35 years – here are some examples:

Pilot laser in the laser scalpel

Laser scalpels are used for many kinds of surgical procedures today. They make it possible to operate in difficult-to-access areas, without causing excessive tissue damage. However, these precision instruments work with a laser in the invisible IR (= infrared) spectrum. To enable the surgeons to see where they are cutting, pilot lasers are used. This is a laser that is coupled into the beam path of the laser scalpel and marks the target with a bright red dot.





Radiation therapy

Modern radiation therapy now belongs to the standard repertoire of treatment methods for tumor diseases. In order to irradiate as exactly and gently as possible, laser-assisted positioning of the beam source is an invaluable aid.





Lasers

ZT	
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ZAT	
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Laser module for the textile industry

The laser modules of the ZT series have been developed especially for the textile industry but are often used for leather cutting or similar applications, too. The adjustable intensity means that the lasers can be matched to a wide range of fabric colors. This allows to achieve the best possible visibility while ensuring that the activity is easy on the eyes.

- Universally deployable red laser
- Selected optics (dot, line, line-dot, small and large cross)
- Adjustable intensity

- Optical power output of 1 to 5 mW
- Wavelength 635 nm to 640 nm (red)



optics can't be changed anymore.

System specifications

Wavelength nm	635 - 645
Power output mW	1-5
Operating mode	APC with current limitation, externally adjustable intensity control
Electrical specifications	
Supply voltage	3.5 to 5.5 VDC
Protection	Polarity protection
Electrical isolation	Potential-free housing
Connection	2 m cable with Texas plug, Option: cable up to 2 m with cable-end sleeve
Optical specifications	
Lines	Gaussian line 90°, Gaussian line 90° with dot
Dot	Elliptical
DOE	Crosses 5°, 30°, 60°
Adjustable focus	No
Environmental conditions	
Ambient temperature °C	-10 °C to +40 °C
Mechanical specifications	
Length mm	69
Head diameter Ø mm	14
Material	Brass, black chrome-plated
Protection class	IP40

ZM18 product range The perfect allrounder

The products of the ZM18 series set the standard for modern laser modules for industrial use. You can select the right laser for your positioning application from more than 1,000 different variants.

The compact, sensor-like design enables easy integration into existing machines or systems. Easy-to-operate focussing optics complete the product. It's the perfect allrounder!







- Optical power output of up to 120 mW
- Wavelengths of 520 to 685 nm
- Large selection of optics (dots, lines, crosses, special optics)
- Manual focus possible

Protection class IP67

System specifications

Wavelength	nm
Wavelength tolerance	nm (typical)
Wavelength drift	nm / K (typical)
Power output	mW
Electronics variants	
Pointing stability	μrad / °C
Performance stability	(24 h)
Electrical specifications	

Supply voltage		
Protection		
Electrical isolation		
Connection		
Power input		

Optical specifications

Angle
% (of line length)
% (typical)
mm

520	532	635-685
-5 +10	±1	±10
0.06	0.06	0.25
≤40	≤40	≤120
В3	В	B, S3
<15		

÷J	70 (acio	33	tile	CITCIIC	tempera	ture ra	lige	

5 - 30 VDC	5 - 30 VDC	5 - 30 VDC		
<300 mA	<400 mA			
Overtemperature protection and LED fault display, polarity and transient protection (ESD, burst & surge)				
Potential-free housing				
4-pin M12 plug				
-2 7 M	-2.7.M -2.7.M -2.7.M			

10°, 20°, 30°, 45°, 60°, 75°, 90° (homogeneous line profile) 5°, 10°, 15°, 20°, 30°, 90° (Gaussian line profile) 20°, 30°, 110° (raster lens for homogeneous line profile) <0.05 % Elliptical Multilines, crosses, grids, etc. 100 mm up to 10,000 mm (or available customer-specifically with fixed focus); ZM18-B-532 >200 mm

ZM12B The compact allrounder

If you want to benefit from the advantages of a modular high-performance laser even with limited space, we offer you the ZM12B. The compact, freely focusable allrounder is available with 635 or 640 nm (red light) and power outputs up to 30 mW as well as the most common optics for positioning applications.



- Optical power output of up to 30 mW
- Wavelengths of 635 to 640 nm (red)
- Selected optics (dots, lines, crosses, special optics)
- Manual focus possible

Protection class IP67

System specifications

Wavelength	nm
Wavelength tolerance	nm (typical)
Wavelength drift	nm / K (typical)
Power output	mW
Electronics variants	
Pointing stability	μrad / °C
Performance stability	(24 h)
Start duration	ms.
Operating mode	

635-640	
±10	
0.25 nm	
1-30	
3	
×15	
±3 % across the entire temperature range	
<300	
APC with current limitation	

Electrical specifications

Supply voltage	
Operating current	(max. at 25 °C)
Protection	
Electrical isolation	
Connection	
Power input	

<400 mA	
Polarity and transient protection / ESD, overheating protection and LED fault display	
Potential-free housing	
4-pin M12 plug	

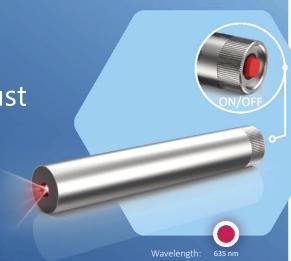
Optical specifications

Angle
% (of line length)
% (typical)
mm

10°, 20°, 30°, 45°, 60°, 75° (homogeneous line profile) 5°, 20°, 30°, 90° (Gaussian line profile)
<0.05
<±25 %
Elliptical
Crosses
100 mm to 10,000 mm

ZAT Autonomous – flexible – robust

The laser is housed in a stable metal casing; the power source, a standard AA battery, is directly beneath the screw cap. The device is operated with a small button at the end of the housing. The laser is especially suitable for mobile use in the wood, stone, and metal industries.



- Battery or rechargeable battery operation with polarity protection
- On/off switch

- Optical power outputs of 1 to 5 mW
- Wavelength 635 nm (red)
- Selected optics (dot, line, cross)
- Protection class IP40

System specifications

Wavelength	nm	635	
Power output	mW	1 - 5	
Electrical specificat	tions		
Supply voltage		1.5 VDC battery AA or 1.2 VDC rechargeable	
ZAT button		On/off switch at the end of the housing	
Optical specification	ons		
Line		Gaussian line with 90° fan angle	
Dot		Elliptical	
DOE		Cross	
Adjustable focus	mm	Up to 2,000 mm fixed focus	
Laser class		1M, 2, 2M	
Environmental cor	nditions		
Ambient temperature	°C	-10 °C to +40 °C	
Storage temperature	°C	-10 °C to +50°C	
Mechanical specifi	ications		
Length	mm	124	
Diameter Ø	mm	20	
Weight	g	162	
Material		Nickel-plated brass	
Protection class		IP40	

Z5A Belt Aligner Laser-based alignment tool for belt drives

The Belt Aligner is a tool that has proven its worth a thousand times over for aligning drive wheels. It is based on a line laser from the ZAT series. It sits neatly and perfectly aligned in a specially designed mounting block. The red laser line runs exactly parallel to the magnetic contact surface. With the help of target markers, drive wheels and impellers can be safely aligned in an idle state.



- Battery or rechargeable battery operation with polarity protection
- On/off switch

Wavelength

- Exactly calibrated red line
- 5 mW power output
- Strong magnetic mount (100 N)
- Protection class IP40
- FDA approval and CE certificate

System specifications

Power output	mW	5 mW	
Laser class	(typical)	1M (EN60825-1)	
Projection type		Standard line, 90° fan angle	
Line width	(in focus at 2,000 mm)	1 mm	
Line height	(above reference surface)	19 mm	
Focus		Fixed focus at 2,000 mm	
Boresight error		0.5 mrad	
Supply voltage		1.5 VDC battery AA or 1.2 VDC rechargeable	
Electrical specifications	5		
Connection Battery operated, service time: 15 to 20 h		Battery operated, service time: 15 to 20 h	
Modulation No		No	
Technical specifications Dimensions of laser module	S (Lר)	124 mm x 20 mm	
Dimensions of magnetic mount	(L x W x H)	49 mm x 27 mm x 32.5 mm	
Material of housing / magnetic mount		Nickel-plated brass / aluminum, black anodized	
Diameter of magnetic surface		20 mm	

Environmental conditions

Weight

Protection class

Ambient temperature	(passive cooling)	-10 C to +40 C	
Storage temperature		-10 °C to +50 °C	
Humidity (max.)		<80 %, non-condensing	

With magnetic mount approx. 250 g

ZD Universal mini laser module With outstanding visibility

The proven small laser modules of the ZD series have been used as positioning lasers in the wood, stone, textile or metal industry for over 20 years. With a diameter of just 11 mm, it fits almost anywhere and offers outstanding optical performance – with a power output of up to 15 mW (red), or even 40 mW (green)! It's a mini-laser with real power.



- Universal mini laser module with line, dot or cross projection
- Optical power output of up to 40 mW
- Wavelength 650 nm (red), 635 nm (red), or 520 nm (green)
- Electrically isolated housing
- 3-6 VDC, 24 VDC or 5-24 VDC supply voltage with polarity protection

System specifications

Wavelength	nm	520	635	65
Power output	mW	1-40	1-15	1-
Operating mode		 APC with current limitation		

Electrical specifications

Supply voltage	5-24 VDC 3-6 VDC or 24 VDC 3-6 VDC
Protection	Polarity and transient protection (ESD, burst)
Electrical isolation	Potential-free housing
Connection	2 m cable with Texas plug, Option: Cable up to 2 m with open stranded wires

Optical specifications

Lines	Gaussian line 90° (alternatively homogeneous 30°)
Dot	Elliptical, circular
DOE	Crosses, multilines, grids, etc.
Adjustable focus	No

Environmental conditions

Ambient temperature °C	-10 °C to +40 °C
Storage temperature °C	-20 °C to +70 °C
Humidity %	<90 %, non-condensing

Mechanical specifications

Weight	g	35	
Length	mm	51	
Head diameter Ø	mm	11 mm	
Material		Brass, black chrome-plated	
Protection class		IP40 IP30 for dot laser	

ZF-pe-F Small focusable dot laser

This mini-dot laser with a diameter of just 11 mm is perfect for all positioning applications where you want a bright, smaller, or larger laser spot – the focusing optic makes it possible!



- Wavelength 635 nm (red) or 520 nm (green)
- Universally applicable mini-pointer
- Optical power output of 1 mW to 5 mW
- Manual focusing optic
- Electrically isolated housing
- 3-6 VDC or 5-24 VDC supply voltage with polarity protection

System specifications

Wavelength	nm
Power output	mW
Operating mode	

520	635
1-5	1-5
APC with current limitation	

Electrical specifications

Supply voltage	
Protection	
Electrical isolation	
Connection	

5-24 VDC	3-6 VDC	
Polarity and transient protection (ESD, burst)		
Potential-free housing		
2 m cable with Texas plug, Option: Cable up to 2 m with open stra	inded wires	

Optical specifications

Dot	
Adjustable focus	

Elliptical	
Yes	

Environmental conditions

Ambient temperature	°C	
Storage temperature	°C	
Humidity	%	

-10 °C to +50 °C	
-20 °C to +70 °C	
<90 %, non-condensing	

Mechanical specifications

Weight	g
Length	mm
Head diameter Ø	mm
Material	
Protection class	

31	
40	
11	
Brass, black chrome-plated, plastic cap	
IP40	

ZR Robust entry-level model for rough working conditions

The ZR red line laser is perfect for carpentry or stonemasonry companies: Where there's dust, it's in its element! Thanks to the integrated heavy-duty power supply, it maintains great performance even when heavy machinery starts up nearby causing huge voltage spikes in the network. The line performance is impressive — it's a real hit.



- Red laser for long lines and best visibility
- Integrated heavy-duty power supply with high immunity
- Optical power output up to 40 mW
- Wavelength 635 nm (red)

System specifications

Wavelength	nm	635
Power output	mW	up to 40
Operating mode		APC with current limitation
Electrical specificatio	ns	
Supply voltage		90 - 265 VAC
Protection		IP65
Electrical isolation		Potential-free housing
Connection		Mains plug (available with standard, US or EU plug)
Lines Adjustable focus Laser class		Line No 1M, 2M
Environmental condi	tions °C/°F	-10 °C to +50 °C
Mechanical specifica	tions mm	200 x 40 Ø
Material		Aluminum, powder-coated Optic head: anodized aluminum (black)

ZRX large & precise cross projection

The lasers of the ZRX series are each fitted with two red or green diode laser modules. Each module independently generates a line with a 90° fan angle. Depending on the power output of the modules, crosses can be projected with dimensions of up to 5 x 5 m.

The ZRX – the right choice when you need a cross laser for large-scale positioning tasks.

- Best visibility and perfectly aligned lines
- Optical power output of 2 x 5 to 2 x 20 mW



• Integrated heavy-duty power supply with high immunity

Wavelength:

System specifications

Wavelength	nm
Power output	mW
Operating mode	

520	635
up to 2 x 20	up to 2 x 15
APC with current limitation	

Electrical specifications

Supply voltage Protection Electrical isolation Connection

90 - 265 VAC
IP65
Potential-free housing
Mains plug (available with standard, US or EU plug)

Optical specifications

Adjustable focus Laser class

(2x) Gaussian line 90°			
	No		
	2M		

Environmental conditions

Operating temperature

-10 °C to +40 °C

Mechanical specifications

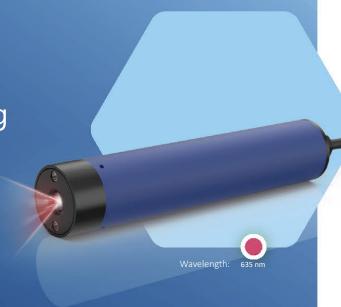
Weight Length Head diameter Ø Material Protection class

590
201
40
Aluminum, powder-coated
Optic head: Aluminum, anodized black
IP65

ZPT-F

The only positioning laser in the world with Peltier cooling

This is high-end laser technology that has long proven its value: a compact, freely focusable line or dot laser with integrated heavy-duty power supply. The Peltier element protects the heat-sensitive laser source and ensures long service life. There's nothing else like it in the world. It can't be beaten.



- Temperature-stabilised laser source
- Red laser for long lines and best visibility
- Adjustable focus

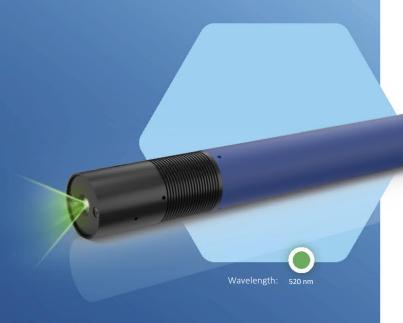
- Integrated heavy-duty power supply with high immunity
- Optical power output of up to 80 mW (nominal)
- Wavelengths 635-642 nm

System specifications

Wavelength	nm	635-642
Output power	mW	up to 80
Operating mode		APC with current limitation
Electrical specification	าร	
Supply voltage		90 - 265 VAC
Protection		IP65
Connection		Mains plug (available with standard, US or EU plug)
Electrical isolation		Potential-free housing
Optical specifications		Line, elliptical dot
Adjustable focus		Yes
Laser class		1M, 2M
Environmental condit	ions °C/°F	-10 °C to +50 °C
Mechanical specificat	ions	280 x 40 Ø
Material		Aluminum, powder-coated Optic head: anodized aluminum (black)

ZRG-F As bright as it gets!

The ZRG-F is a diode-pumped solid-state laser (DPSS) that emits green light at a wavelength of 532 nm. It remains unbeaten as a line laser when it comes to generating bright green lines, such as in sawmills or for the textile lay table. Its robust design makes it popular in the field of natural stone, too. Thanks to the integrated power supply, it is ready to connect and can easily be operated on the usual mains voltage.



- Green DPSS laser for long lines and best visibility
- Adjustable focus

- Integrated heavy-duty power supply with high immunity
- Optical power output of up to 40 mW
- Wavelength 532 nm
- Optimum heat dissipation via cooling fins on the laser head

System specifications

Wavelength	nm	532
Power output	mW	up to 40
Operating mode		APC with current limitation
Electrical specificati	ons	
Supply voltage		90 - 265 VAC
Protection		IP65
Connection		Mains plug
Electrical isolation		Potential-free housing
Optical specification Optics Focus range	ns mm	Line, circular dot Focusable
Laser class		2M
Environmental cond	ditions °C/°F	0 °C to +35 °C
Mechanical specific	ations	
Dimensions	mm	329 x 40 Ø
Housing		Aluminum, powder-coated Optic head: anodized aluminum (black)

Now it's time to rock a'round!

The ZKV uses a rotating mirror to generate perfectly visible red or green circles on a corresponding work surface. The required diameter is set via a wired remote control using a joystick.

With e.g. an installation height of 1.000 mm you can project a circle with a diameter from 270 mm to 1.400 mm. The ZKV is mainly used for barrel construction or for producing wooden cable drums. It does away with the need for templates.



- Circle projection, freely scalable diameter
- Wired remote control
- Simple installation above the work surface
- Power supply with EU or US plug

• Maintenance-free

System speci	fications			
Wavelength	nm	515	635	
Power output	mW	15	15	
Electrical specificat	ions			
Supply voltage		100 - 230 VAC ±10 %; 50 - 60 Hz	100 - 230 VAC ±10 %; 50 - 60 Hz	
Optical specificatio	ons			
Projections available		Circle: Rotating dot laser with circle projection		
Fan angle	gle 15° to 70° (variable)			
Environmental cond	ditions °c	0 °C to +40 °C		
Mechanical specific	cations			
Dimensions		Ø 150 x 345 mm		
Housing		Aluminum		
Connection		AC/DC adapter, European plug or US plug		
Protection class		IP65		
Standardisation		2M (EN 60825-1)		

C

Distance*	
500 mm	
1000 mm	
2000 mm	
3000 mm	
4000 mm	

Min. diameter (15°)	Max. diameter (70°)
135 mm	700 mm
270 mm	1400 mm
540 mm	2800 mm
810 mm	4200 mm
1080 mm	5600 mm
	·

*Measured from the front edge of the laser

Products



-Accessories

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Mounts

H0

Rotatable block mount for lasers with 40 (H0-40-20) or 20 mm housing diameter (H0-20-20) for fitting on Ø20 mm round material. The aluminum housing ensures optimum heat dissipation. The H0-20-20 can also be used with adapters for lasers with smaller diameters.





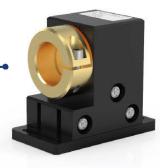
H2

Tiltable aluminum mount with optimum heat dissipation for lasers with a housing diameter of 11 to 40 mm



H6

Precision mount for lasers with a M12 thread or housing diameter of 20 mm for mounting on a level surface



H3

Flexibly adjustable ball joint mount made of PVC for lasers with a housing diameter of 11 to 20 mm



H8

Precision mount for lasers with a housing diameter of 20 mm for mounting on Ø20 mm round material



HX-11

Precision disc-spring mount made of PVC for lasers with a housing diameter of 11 mm



MXYZ

Precision mount for lasers with a housing diameter of 20 mm or M18 thread

The MXYZ precision mounts made of aluminum have been developed specifically for use on machines that may require a quick change and precise repeat adjustment of the laser. The laser can be turned around its own axis with a self-locking action, parallely shifted or pivoted. The mounts are maintenance-free.

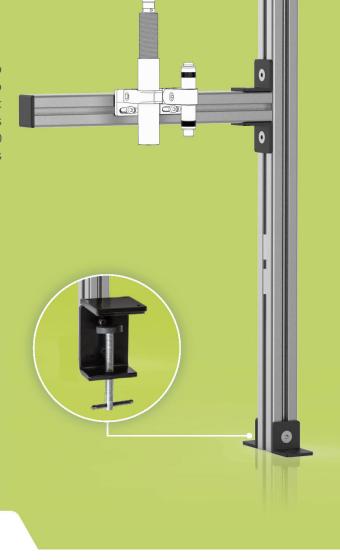


Mounting system BG

The mounting system BG is simple and flexible to install. The lasers can be mounted individually to the aluminum profiles in combination with the right mount. The set consists of two aluminum profiles (500 mm x 30 mm) and the fastening material. Installation takes place directly on the work table or on the wall.

BG2 with table clamp

The table clamp allows the mounting system to be moved quickly and easily.



Wall & ceiling mount BD

A typical example of how this solid ceiling mount is used is to install a positioning laser above the circular saw in a carpentry workshop. The flange made of cast aluminum is screwed onto the ceiling. A Ø40 mm aluminum tube combined with a stable cross joint and a horizontal stainless steel shaft allows the laser to be adjusted to the right height.



An overview of further accessories

WPS & WPSB power supplies

The right power supply for your laser, optionally with M12 socket (female), Texas plug or socket. The power supplies are available with 3.5 VDC, 5 VDC or 9 VDC. Exchangeable inserts allow operation in Europe as well as the US or Asia.

British and Australian plug adapters are optionally available.



Distribution boxes

VB4-M12: convenient distribution box for operating up to four lasers of the M18 or M12B series on a WPS-5-M12 power supply. The outputs are separately switchable.

VB4: Simple switchable distribution box for up to 4 lasers of the ZD, ZF-pe-F or ZT series on a WPS-3.5 power supply.



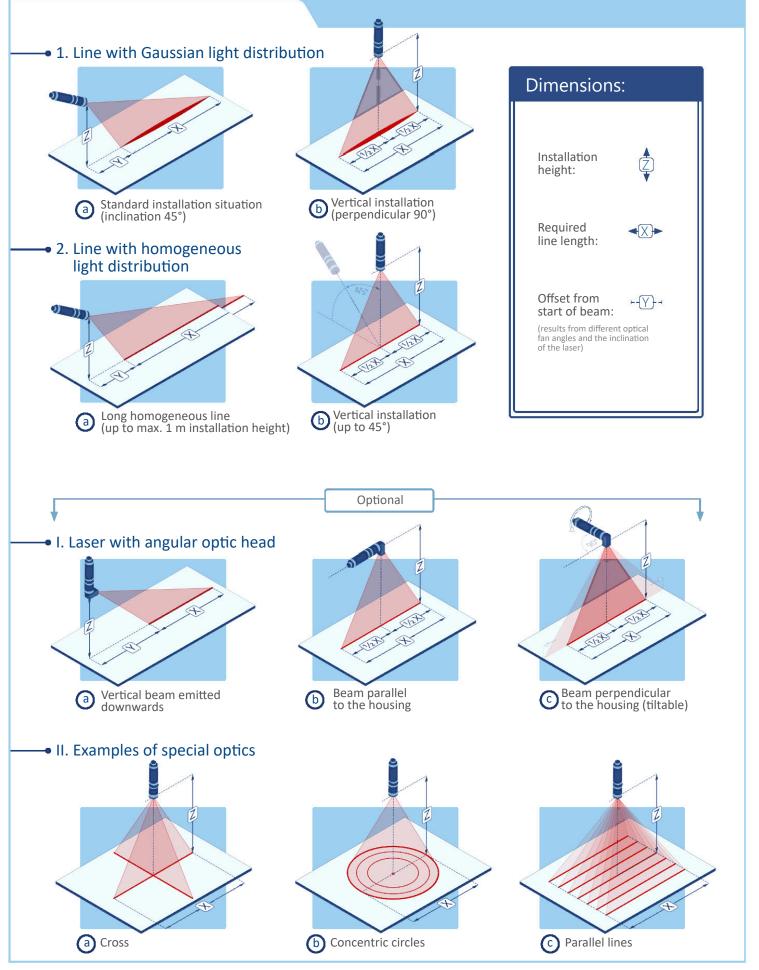
Battery pack 18 V

Ideal for mobile use of your ZM18 or ZM12B series laser. 18 VDC output voltage. Can be used with two 9 VDC block batteries or equivalent rechargeable batteries.



Z-LASER application and installation options.

This page shows you the different options for employing and installing our positioning lasers. The examples are numbered. We can use the dimensions x, y and z to provide you with a more accurate offer for your special laser.

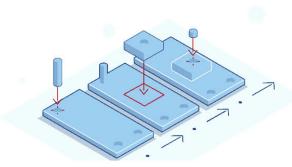


About Z-LASER

Z-LASER is THE German manufacturer of laser sources for innovative customer applications. In the last 35 years, we have successfully established ourselves in the following fields:

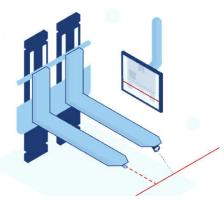
- Lasers as positioning aids (industry and trade)
- Lasers for image processing
- Laser projectors as positioning aids (industry and trade)
- Customer-specific lasers (OEM laser solutions)





Intelligent technologies

Our intelligent systems — consisting of mechanics, electronics and optics — enable high coverage of all customer requirements and help to set us apart from competitors. Numerous patents and registered designs have been registered successfully over the past years.



Innovations for the future

Today, the company is successful in many new innovative sectors where highly developed laser technologies and product designs are required.

'Quality is when customers return to us – not lasers.'

- Kurt-Michael Zimmermann, founder of Z-LASER GmbH

Quality policy & guiding principle

Quality begins when you start discussions with the customer. Their wishes, needs and expectations determine our business actions. We are constantly rethinking our activities. Misunderstandings should be avoided and the products and services should match the customer's quality requirements. With us, every employee from every area is responsible for quality in all activities.

Supplier policies

Z-LASER is a socially responsible company that prioritizes the well-being of people and the environment. Observing ethical principles and legally binding regulations is self-evident for us.





We see it as our duty to conduct our business accordingly and also demand this from our suppliers. That is why we require REACH, RoHs compliance of all products and articles supplied to us, as well as avoiding conflict materials as far as possible.



Z-LASER generates a considerable portion of its energy requirements from its own solar system, actively contributing to climate protection.



"Quality is when customers return to us - not lasers."

- Kurt-Michael Zimmermann, Founder Z-LASER GmbH

Our mission is to develop laser sources and laser projectors of the highest quality for our customers. Since founding Z-LASER in 1985 in Freiburg, we supply the industry with top functional and easy-to-use laser systems.

Z-LASER is a socially responsible company that cares about the well-being of people and its environment. A significant part of the energy requirement is gained through the in-house solar system. Furthermore, we only supply civil applications.

Laser technology from Freiburg made in Germany

COMTRONIC

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