



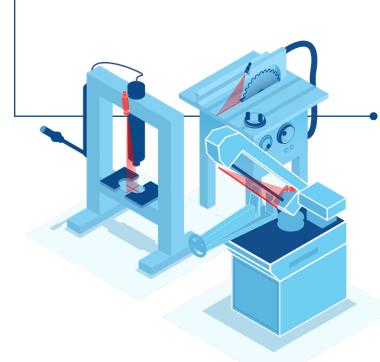


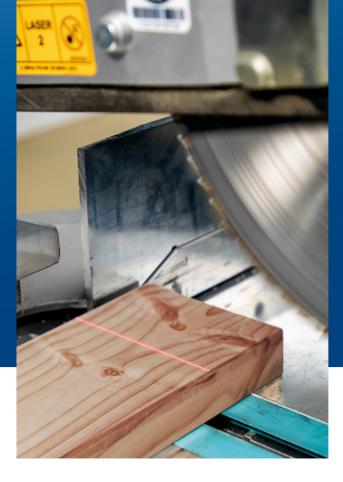
Product catalog for Positioning Lasers

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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.

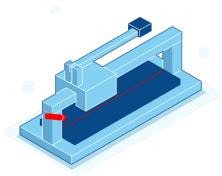
The modern stonemasonry business would be unimaginable today without line lasers as positioning



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!

Gang saw / saw mill

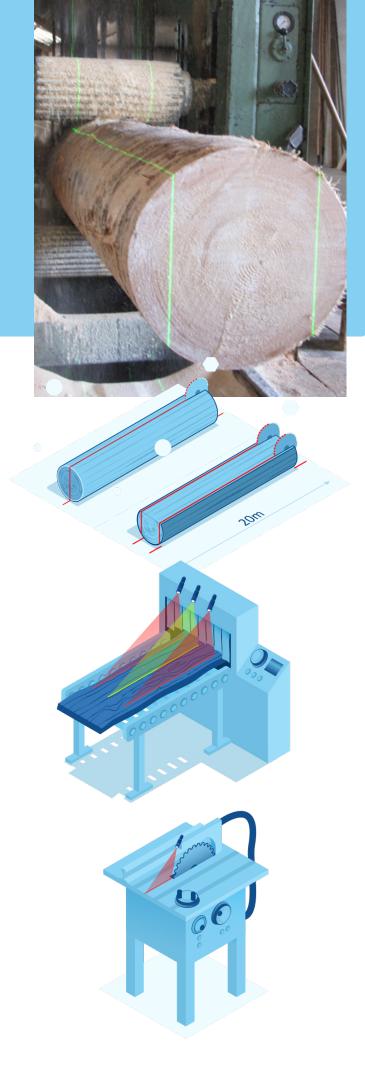
Our line lasers point the way into the saw gate right from the very first processing step, sawing the trunks.

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.

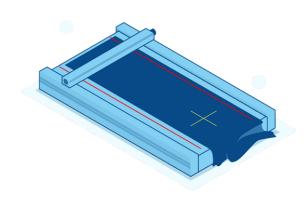




textile industry

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

Positioning lasers are a versatile aid for optimizing workflows in the metal processing industry. Whether you're aligning blocks or sawing pipes, cutting or bending sheets – a line laser ensures the right orientation.



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.

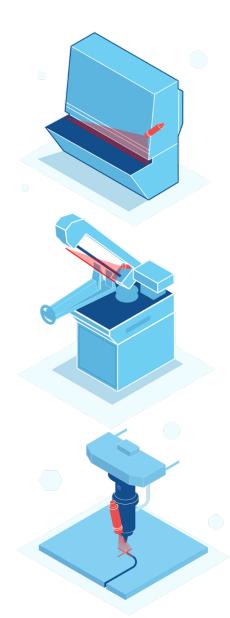
Band saw & hacksaw

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.

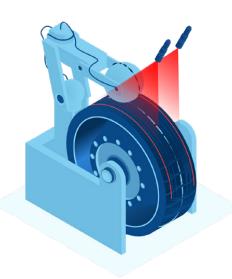
Flame or waterjet cutter

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







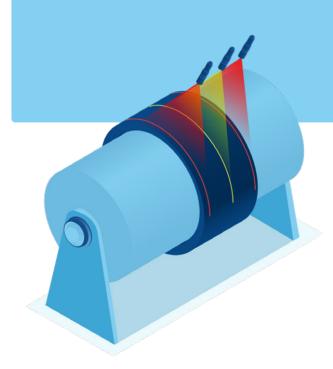
Tire building machine

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

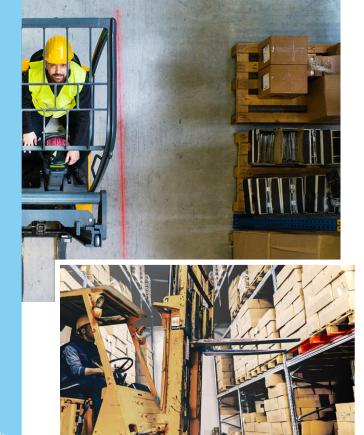
Car tires in all sizes and variants are by far the most heavily used parts of a vehicle. Maximum precision is of great importance in production, which still requires a lot of manual work. This is the only way to ensure a permanently stable and safe product.



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 24.





Lasers for industrial trucks

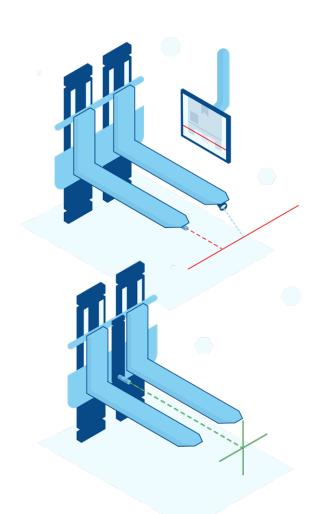
Placing Euro-pallets in the top bays of high-rack warehouses is a real challenge for any forklift driver. Line or cross lasers provide highly visible orientation for positioning the forks, allowing precise and safe stacking.

The line laser drives with you

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

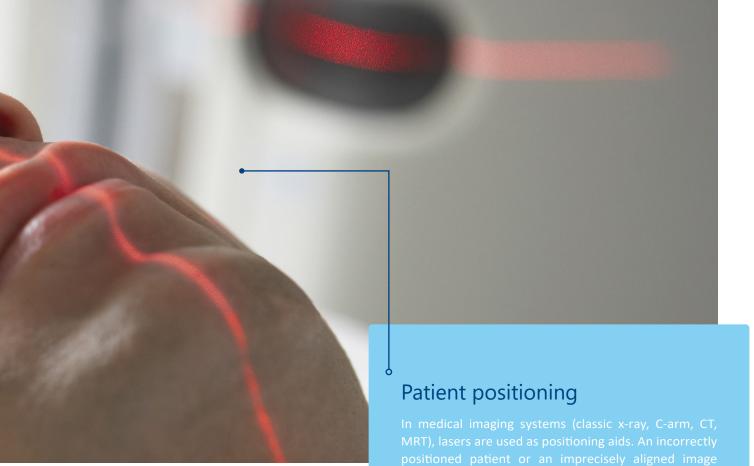
Today's world of medicine operates at a level that can justifiably be described as high-tech medicine. Whether in diagnostic measures or curative treatments directly on the patient – we all benefit from the accomplishments of modern medical science and technology.

The central focus is on the individual, their health and safety. In many medica 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.



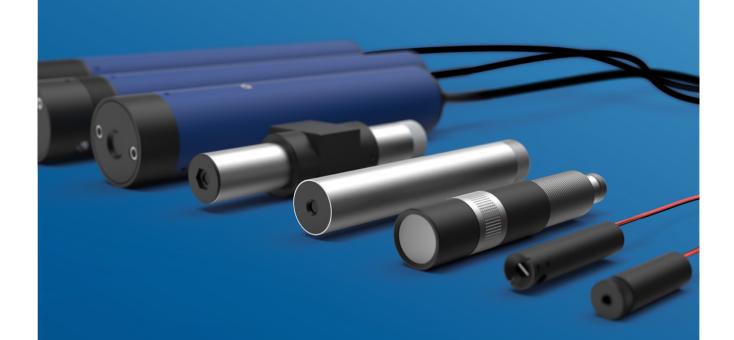


Radiation therapy

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.



Products



Laser

Product family ZM1813
ZAT14
Z5A Belt-Aligner15
ZD
ZF-pe-F
ZR
ZRX19
ZRG-F20
ZKV21
Z-LASER application and installation options22

Product family ZM18 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!

Wavelengths 520 nm

- Manual or fixed focus
- TTL modulation up to 500 kHz
- Analog intensity control
- Optical output power up to 120 mW
- Wavelengths from 520 685 nm
- Industrial standard
- IP67

System specifications

Wavelength	nm
Wavelength tolerance	nm (typical)
Wavelength drift	nm / K (typical)
Output power	mW
Electronic versions	
Pointing Stability	μrad / °C
Long-term power stability (24h)	%
·	

520	532	635, 640	640-685
-5 / +10	± 1	±10	±10
0,06	0,06	0,25	0,25
≤40	≤40	≤120	≤120
В3	В	В	S3
<15			

±3 over operating temperature range

10, 20, 30, 45, 60, 75, 90 (homogeneous lines)

Point elliptical, point circular

Electrical specifications

Operating voltage	VDC
Operating current (max. at 25°C)	mA
Protection	
Electrical isolation	
Connection	
Power consumption	W

3 30	3 30	3 30	3 30		
<300 <300		<400	<400		
Over temperature protection and LED pre-failure indicator, reverse polarity and transient protection (ESD, burst & surge)					
Potential-free housing					
4-pin M12 plug					
<2.7	<2.7	<2	<2		

Optical specifications

Fan angles ⁽¹⁾	° Degrees
Line straightness ⁽²⁾	% (of line length)
Line uniformity ⁽³⁾	% (typical)
Dot	
DOE	
Focus range	mm

5, 10, 15, 20, 30, 90 (Gaussian line profile)
20, 30, 110 (raster lens for homogeneous line profile)
<0,05
<25

Multi line, crosses, grids, circle with dot, etc. 100 up to 10.000 (or customized fixed focus available); ZM18-B-532 > 200

Environmental conditions

Operating temperature (1)	°C		°F
Storage temperature	°C		°F

-10 to +50	14 to +122
-40 to +85	-40 to +185

ZAT autonomous and flexible

The battery-powered ZAT has been successfully used in the Belt Aligner Set for years and is a high-quality alternative to the previous bestseller ZA: the laser is built into a stable metal housing and the power source (AA battery or rechargeable battery) is located directly under the screw cap. A small button at the end of the housing is used for turning the laser ON and OFF.

The ZAT is particularly flexible for use in the wood, stone and metal industries. For example, the ZAT can be easily attached to a mitre saw, a rung drilling machine or a tile cutter and can really be used flexibly.

• Different optics available (line, dot, cross)

- Power supply via AA battery or rechargeable battery
- Convenient ON/OFF button
- Robust metal housing



System specifications

Wavelength	nm	635	
Power output	mW	1-5	
Electrical specificat	tions		
Supply voltage	VDC	1.5 battery AA or 1.2 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	
Focus	mm	(2000) Fixed focus	
Laser class		1M, 2, 2M	
Environmental con	nditions		
Ambient temperature	°C	-10 to +40	
Storage temperature	°C	-10 to +50	
Mechanical specifi	cations		
· ·			
Length	mm	124	
Length Diameter Ø	mm	<u>124</u> 20	
Diameter Ø	mm	20	

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

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

System specifications

Ambient temperature (passive

Storage temperature

Humidity (max.)

°C

°C

Wavelength	nm	635
Power output	mW	5
Laser class	(typical)	1M (EN60825-1)
Projection type		Standard line, 90° fan angle
Line width (in focus at 2,000 mm)	mm	1
Line height (above reference surface	ce) mm	19
Focus		(2000) Fixed focus
Boresight error	mrad	0.5
Electrical specifications		
Supply voltage	VDC	1.5 battery AA or 1.2 rechargeable
Connection	h	Battery operated, service time: 15 to 20
Modulation		No
Technical specifications		
Dimensions of laser module	(L x Ø) mm	124 x 20
Dimensions of magnetic mount	(L x W x H) mm	49 x 27 x 32.5
Material of housing / magnetic mo	unt	Nickel-plated brass / aluminum, black anodized
Diameter of magnetic surface	mm	20
Weight	g	250 incl. magnetic mount
		IP40

-10 to +40

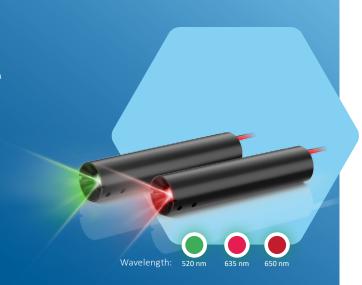
-10 to +50

<80 %, non-condensing

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 15 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	650		
Power output	mW	1-10	1-15	1-5		
Operating mode		APC with current limitati	on			
Electrical specificati	ons					
Supply voltage	VDC	5-24	3-6 / 24	3-6		
Protection		Polarity and transient protection (ESD, burst)				
Electrical isolation	ctrical isolation Potential-free housing					
Connection			2 m cable with Texas plug, Option: Cable up to 2 m with open stranded wires			
Optical specifications Lines Dot		Gaussian line 90° (altern Elliptical, circular	Gaussian line 90° (alternatively homogeneous 30°) Elliptical, circular			
DOE		Crosses, multilines, grids	Crosses, multilines, grids, etc.			
Adjustable focus		No	No			
Adjustable focus						
	ditions					
Environmental conc	ditions °C	-10 to +40				
Environmental conc Ambient temperature Storage temperature		-10 to +40 -20 to +70				

35

51

Brass, black chrome-plated

IP30 for dot laser

Weight

Length

Material

Head diameter \emptyset

Protection class

Mechanical specifications

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	520	635		
Power output	mW	1-5	1-5		
Operating mode		APC with current limitation			
Electrical specifica	ıtions				
Supply voltage	VDC	5-24	3-6		
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 specificati	ons				
Dot		Elliptical			
Adjustable focus		Yes	Yes		

Environmental conditions

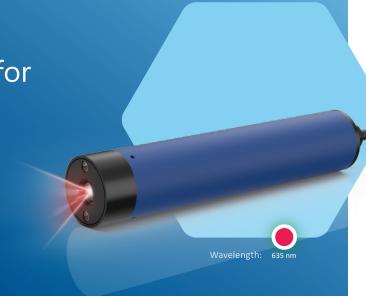
Protection class

Ambient temperature °C Storage temperature °C		-10 to +40 -20 to +70		
				Humidity
Weight	g	31		
Mechanical specifi	ications			
Length	mm	40		
Head diameter Ø	mm	11		
Material		Brass, black chrome-plated, plastic cap		

Robust entry-level model for

rough working conditions

The ZR red line laser is perfect for carpentry stonemasonry companies: there's dust, it's in its element! Thanks to the integrated heavy-duty power 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 specification	ons	
Supply voltage	VAC	90 - 265
Protection		IP65
Electrical isolation		Potential-free housing
Connection		Mains plug (available with standard, US or EU plug)
Lines Adjustable focus Laser class		No 1M, 2M
Environmental cond	litions °c	-10 to +50
Mechanical specifications	ations 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
- Wavelength 635 nm (red) or 520 nm (green)
- Integrated heavy-duty power supply with high immunity

Wavelength: 635



Head diameter Ø

Protection class

Material

mm

Wavelength	nm	520	635
Power output	mW	up to 2 x 20	up to 2 x 15
Operating mode		APC with current limitation	
Electrical specification	ons		
Supply voltage	VAC	90 - 265	
Protection		IP65	
Electrical isolation		Potential-free housing	
Connection		Mains plug (available with standard,	US or EU plug)
Optical specification Cross Adjustable focus		(2x) Gaussian line 90° No	
Laser class		2M	
Environmental cond Operating temperature	itions °C	-10 to +40	
Mechanical specifica	ations		
Weight	g	590	
Length	mm	201	

Aluminum, powder-coated

Optic head: Aluminum, anodized 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 specification	ons			
Supply voltage	VAC	90 - 265 VAC		
Protection		IP65		
Connection		Mains plug		
Electrical isolation		Potential-free housing		
Optical specifications Optics Focus		Line, circular dot Focusable		
Focus Laser class		1M, 2M		
Environmental conc	ditions °c	0 to +35		
Mechanical specification	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 specifications

System speci	ifications			
Wavelength	nm	515		635
Power output	mW	15		15
Electrical specifica	tions			
Supply voltage		100 - 230 VAC ±10 %; 50 - 60 Hz		
Optical specification	ons			
Projections available		Circle: Rotating dot las	ser with circle projection	
Fan angle	0	15° to 70° (variable)		
Environmental con	ditions			
Housing temperature	°C	0 °C to +40 °C		
Mechanical specific	cations			
Dimensions	mm	Ø 150 x 345		
Housing		Aluminum		
Connection		AC/DC adapter, Europe	ean plug or US plug	
Protection class	Protection class			
Standardisation		2M		
		EMC standard class 4		
Circle diameter				
Distance*		Min. diameter (15°)	Max. diameter (70°)	
500 mm		135 mm	700 mm	
1000 mm		270 mm	1400 mm	

540 mm

810 mm

1080 mm

2800 mm

4200 mm

5600 mm

2000 mm

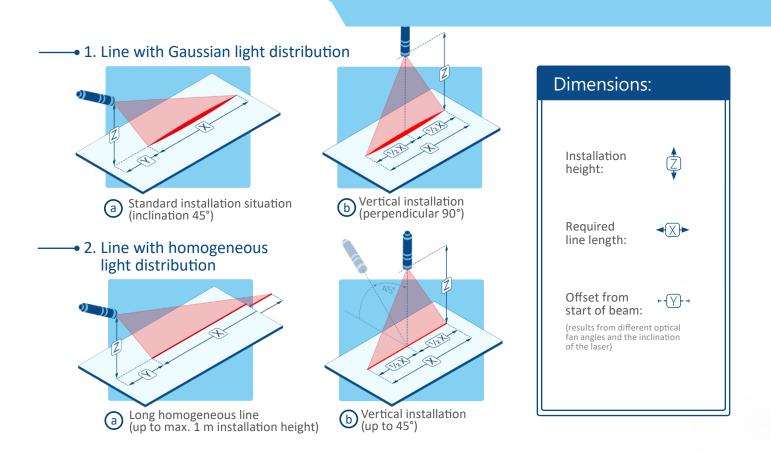
3000 mm

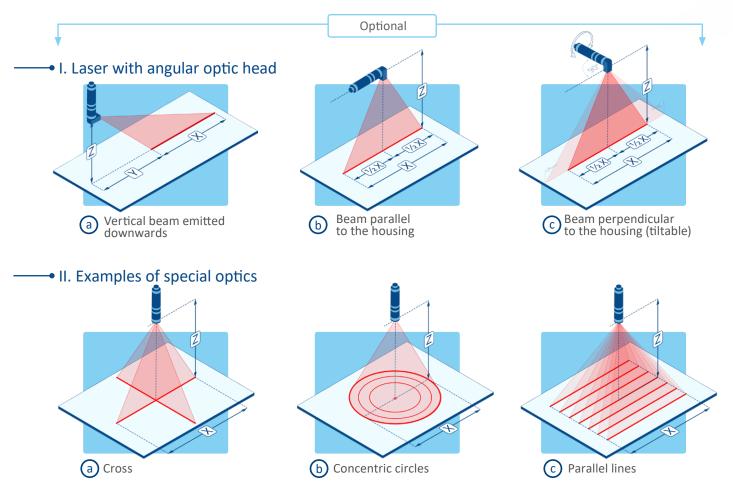
4000 mm

^{*}Measured from the front edge of the laser

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.





Products



Accessories

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Н6	24
HX-11-K	24
WPS & WPSB power supplies	24
H2	24
H3	24
H8	24
MXYZ	24
Wall & ceiling mount BD	25
Mounting system BG	25
BG2 with table clamp	25
Battery pack 18 V	25

Mountings

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.



H3

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



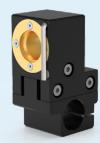
H6

This aluminum precision mounting is suitable for all laser modules with Ø20mm or M18 threads. The aluminum block housing ensures optimal heat transfer.



H8

This aluminum precision mounting is suitable for all laser modules with Ø20mm or M18 threads. The aluminum block housing ensures optimal heat transfer.



HX-11-K

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



MXYZ

The precision mount can be adjusted in 3 axes. No tools are required for alignment. The base plate of the precision mount has 4 threaded holes for installation.



More Accessories

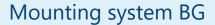
WPS & WPSB power supplies

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.



Wall & ceiling mount BD

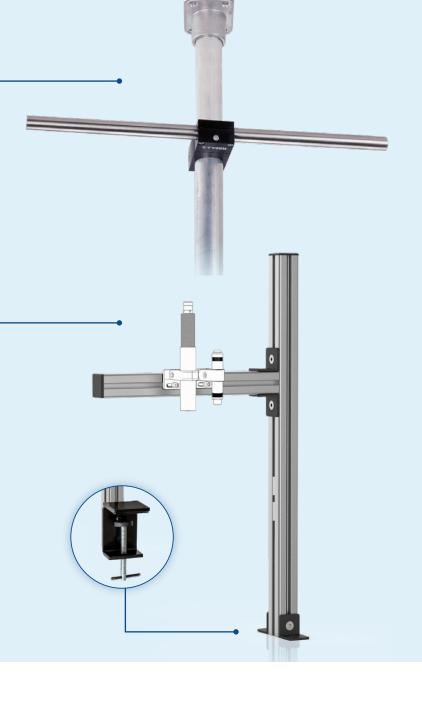
Typisches Beispiel für den Einsatz dieser massiven Deckenhalterung ist die Montage eines Positionierlasers über der Kreissäge einer Tischlerwerkstatt. Der Flansch aus Aluguss wird an der Decke verschraubt. Ein ø40mm-Aluminiumrohr, kombiniert mit einem stabilen Kreuzgelenk und einer waagerecht verlaufenden Edelstahlwelle ermöglicht die Justage des Lasers in der richtigen Höhe.



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 x 30 mm | 250 mm x 30 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.



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.



About Z-LASER

"Innovative light for better results.

This is Z-LASER's promise and obligation."



Innovations from the Black Forest

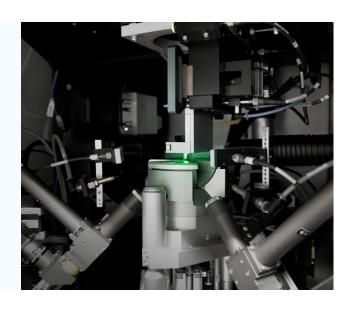
Located in the heart of the Black Forest in Freiburg, Germany, Z-LASER has been **developing and producing innovative**, **high-quality laser solutions since 1985**.

By providing visual guidance and orientation for people as well as machines, our lasers contribute to optimizing your production processes, ensuring quality, and to using resources carefully. Z-LASER's product range includes lasers for positioning, lasers for machine vision, laser projectors, and OEM laser systems. The **positioning lasers** acute, visually distinct laser lines enable precise alignment and

positioning on virtually any surface. Lasers for machine vision, in combination with a smart camera, capture the spatial contours of moving and non-moving objects to automate optical quality control and much more. Laser projectors are an optical guidance aid for people and machines, projecting variable patterns and guidance lines for step-by-step assembly processes. And OEM laser systems are manufactured according to your specific, individual requirements.

Z-LASER at a Glance

- Laser innovations from Germany since 1985
- Lasers for positioning, lasers for machine vision, laser projectors
- More than 75,000 products sold annually
- A worldwide network with over 120 employees and more than 60 trading partners
- Part of the Exaktera holding company specializing in laser technologies



Locally Rooted, Globally Present

The Black Forest in the southwest of Germany is an economic region rich in tradition. People here are proud of their inventive spirit, tenacity, their knack for technology, and sense of precision. So, it's no wonder that countless world market leaders and hidden champions are based here.



Versatile Application, Trusting Cooperation

The combination of customer focus and our passion for technology has shaped our continued success. It's not surprising that, over the decades, Z-LASER has been readily chosen by countless industries.

From wood processing and electronics manufacturing to textile and paper production, to the automotive and building materials industries — laser innovations from Freiburg are used wherever reliable precision and efficient high-performance processes are called for.



We get to the point...

... because we know that company presentations don't necessarily belong in the blockbuster category. And you certainly don't have that much time either. That's why we've condensed our 35 years of laser history into a crisp 17 pages. And instead of talking about us, we'd rather let our innovations do the talking. For all other questions, we are of course always there for you.



[~ 5MB pdf] company presentation





Innovative light for better results

Providing visual guidance to people and machines with laser solutions

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By providing visual guidance and orientation for people as well as machines, our lasers contribute to optimizing your production processes, ensuring quality, and to using resources carefully.



Over 120 employees develop and manufacture completely in Freiburg, Germany.



25 % of our workforce is involved in R&D.



Sales offices and over 60 distributors worldwide.



The right solution for every challenge

Developed in close customer exchange, our products adapt perfectly to your requirements.



Modular products for efficient processes

Modularity means less maintenance, optimized performance and better scalability.



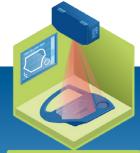
Positioning Laser

Benefit from increased precision for more efficient processes with lower material consumption.



Laser for Machine Vision

Automate your optical quality control with structured laser light.



Laser Projectors

Replace mechanical templates with laser projections and save time, money and material.

Contact



Contact us. We would be happy to advise you!

www.z-laser.com/contact

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