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# LumberLine Laser

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C A T A L O G

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**Why Us?**

## Lumberline Laser Catalog

Lumberline Laser sells laser lines designed specifically for heavy industrial applications and longevity. We make sure your purchase is worth every dollar with visual alignment devices that last years. What's more, they are all serviceable. All lasers have a 20,000 Hour Rating, though we have consistently received lasers that have lasted up to a decade before needing to be serviced.

The lasers all come with a 24 month warranty and ship same-next day on new purchases (typically 24 hours for repairs).

All of our mounting hardware is compatible with every laser model thanks to their universal diameter. Our brackets are robust and have very minimal drift vs the ball mount style hardware that is common in our industry. (One customer after switching to our split clamp mounts claimed that they could kick our brackets and they wouldn't budge.)

## **Finding What's Best For You**

How to find exactly what products are best for you is a complicated task. But we will do our best to break it down into simple fill in the blank questions. First you will find the laser best suited for you by answering questions concerning things such as your specs needed, your environment, and your method of power. Then you will determine which mount would best fit your situation.

**What Laser?**

To know what laser you need we will need the answer to two questions: what output (what mW) and what input (what series). In the following pages you will be given information to help you reach a conclusion. Once you have your answers stick them together and you have your laser line.

# What Output?

The first answer needed will be what milliwatt output (mW) your laser needs for your specifications. There are two variables to this question: line length needed and the lighting environment. The lower the mW the more economical the laser will be, however that will also affect brightness. Your application and budget will determine what power level is best for your situation.

## Lighting Environment

Lighting environment is one of the biggest factors that you have to account for when determining your laser line output.

On the opposite page you can see a graph that will help you. Unfortunately lighting environment is kind of a hard thing to quantify. The graph shows two options: **Typical** and **High**. Typical means general shop lighting. And high means sunlight at some point or another is on the equipment. (the lumber industry is notorious for this) These are general definitions mind you, so the graph will

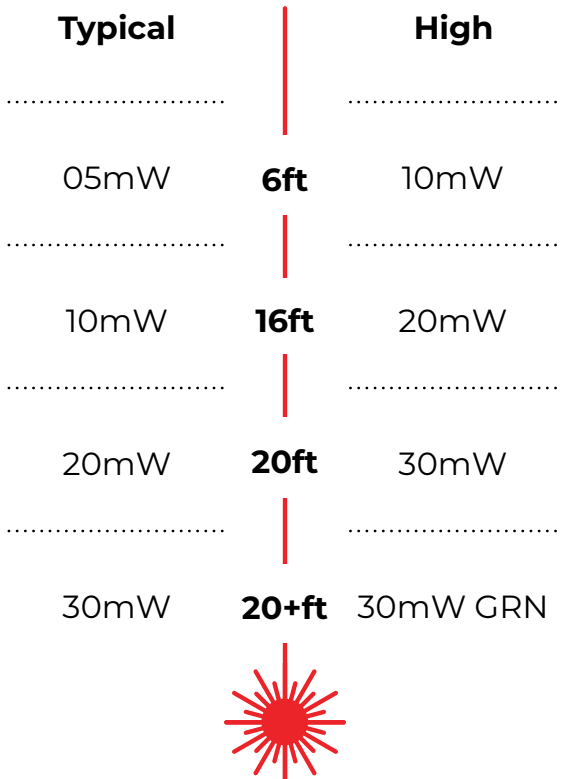
## What Laser?

not always be completely accurate. But it gives us a good ballpark idea.

If the output ends up not being bright enough when you receive the laser, simply inform us and we will take it back and send you a new laser with a brighter output.

## Line Length

Line length is the second factor in discovering what mW output your laser needs. Consult the graph to see what mW is best for you.



## When To Use Green?

Generally, all of our lasers use red diodes. However there are cases where a green option is necessary. The perk to green is that our eyes are 20% more receptive to its wavelength, making it appear brighter. However there is a price hike with this as well so take that into consideration.

## What Input?

Now for the next question in determining the your laser line: what input? Meaning, what type of power and voltage you will be using (AC/DC), and whether you will be hardwiring the device or using a standard wall receptacle. We have separated these two categories with their corresponding series and their voltage specifications, you have a winner once you find the series that fits your application.

### Receptacle

For applications that have a standard 120 VAC wall outlet available for power, both the R and B in their standard configurations are a great choice.



## R Series

This unit, in its standard configuration, **includes a remote switch mode power supply** (Pg. 8) that can run on 100-240 VAC main lines using a standard wall receptacle.

**Power Input:** 100-240 VAC

50-60 hz

<150 mA

**Cord Length:** 9' 10" (3m)

**Weight:** 3.9 oz

**Environment:** IP65



## B Series

The B Series features a built in power supply, making it a compact option for many applications that see heavy use, and have AC available.

**Power Input:** 85-240 VAC

<150 mA

50-60hz

**Cord Length:** 9' 10" (3m)

**Weight:** 12.25 oz

**Environment:** IP65



## SA-115 Power Supplies

Included with standard configuration R series lasers, and can be ordered separately. Allows for easy replacement in the event of a failure, minimizing down time and cost.

*Voltage: 100-240 VAC .5A*

*Output: 5VDC 2A*



## Hardwire



For applications that require a hardwired connection into a panel or other bus system, all of our lasers can be configured with an M12 (A-coded) connection on the laser.

This allows your maintenance team and engineers to easily use and implement a range of industry standard M12 connectors (Pg. 10) and cable assemblies to integrate into your system or machine.

Each laser of course has different voltage requirements, so note the input specifications for your selected series.

## What Laser?

NOTE: The R series in the M12 Configuration does not include the standard power supply.

### R Series (M12 Variant)

The R Series also includes an M12 configuration for situations where you require it to be hardwired.

**Power Input:** 4.5-9 VDC  
<150 mA  
**Weight:** 4.1 oz  
**Environment:** IP65



### LV Series

The LV Series features a built-in low voltage power converter, accepting a wide range of power inputs for machine voltage or portable applications.

**Power Input:** 4.5-36 VDC  
9-24 VAC  
**Weight:** 5.5 oz  
**Environment:** IP65



## B Series (M12 Variant)

Like the R Series, the B Series has its own M12 configuration. It is your best choice for line voltage installations requiring a hard wired connection.

<b>Power Input:</b>	85-240 VAC <150 mA 50-60hz
<b>Weight:</b>	5.5 oz
<b>Environment:</b>	IP65



## M12 Cords

All of our hardwired lasers use a standard 4 Pin M12-A coding for connection. Laser input connectors are M12 Male.



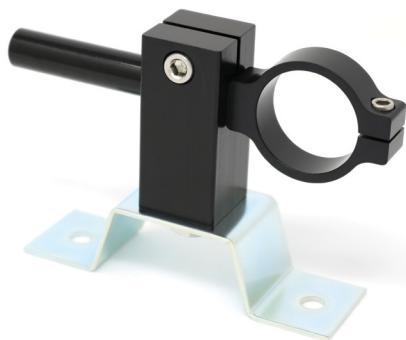
**What Mount?**

Now that you know what laser line you need, we will move on to the question of mounts. This is simple in comparison to choosing a laser line. The remainder of this catalog is broken up into: Stationary Brackets, Edgers, Gang Rip Saws, and Adapters.

## Stationary Brackets

### SA-008

Easily bolts down to anything from a wood beam, to any metal structure. Comes with a formed base that implements 2 fasteners for blind hole applications, or can be used without, using one fastener in situations where through hole access is possible.



### SA-072-3/4

Shaft end brackets for 3/4" shaft (SA-041 sold per foot). Used with the SA-111. Allows for a very densely packed, easy to install system for stationary laser applications.



## SA-111

This bracket is designed for applications where several lasers need to be mounted with close spacing. Allows all axis of adjustment, and once positioned, locks easily, and stays put. Machined to clamp to a 3/4" round bar stock, which we sell by the foot (SA-041)



## SA-110

Same design as the aforementioned SA-111, but milled to clamp to a 20mm shaft. Works well in bridge saw retrofit applications that use a 20mm shaft style mounting bracket that projects from the bridge, as well as some rip saws.



# Edgers



## SA-001

Unison configured shift assembly for board edgers. Standard system is set up for two saws moving, but can be configured for single saw as well. Comes with all hardware shown in the image. Standard shaft length is 48", but additional length can be added at price per foot, up to 72".

## SA-009

The SA-009 is used to add a stationary line for a two saw moving configured shift assembly. It allows the laser to overhand one of the moving trolleys for minimum spacing between lines.





## What Mount?



### **SA-002**

Independent configured shift assembly for board edgers. As the name indicates, the lasers can each move independently of each other. Additional length beyond the standard 48" is available, up to a 72" maximum length. All hardware shown is included with purchase.

### **SA-110**

The SA-110 can also be used as a stationary bracket for single saw moving assembly configurations. Pg. 13

# Gang Rip Saws

## SA-003

The SA-003 provides the bones of the gang rip mounting system. Standard shaft length is 36", but additional length can be added in one foot increments up to 72". The three tier shaft design allows for minimum spacing down to 3/4" between lines. Simply purchase the number of Trolleys (SA-011) that you need, and add lasers.



## SA-011

The SA-011 slides on replaceable delrin split bearings and features a thumb knob for clamping the laser in position allowing easy setup for jobs. The design, together with the SA-003, makes for a very repeatable, rigid system that will provide years of service.



# Adapters

## SA-300-20MM

This item is designed for adapting a 20mm diameter laser into our brackets and assemblies

## SA-300-50MM

This adapter is for fitting our (1.25") laser into a 50mm split style bracket



## Custom Adapters

If you have need of other dimensions, let us know and we can quote you on a custom sleeve for your application.

## Contact Us

Now that you've chosen your laser and mount or require help in finding what you need, email or call us for assistance and product prices.

Our hours are from 8:00am-4:30pm PT, Monday thru Friday.

Here are a few ways you can contact us (though over the phone is our preferred method):

Call: 855-686-3077

Fax: 360-686-3033

Email: [sales@lumberlinelaser.com](mailto:sales@lumberlinelaser.com)

We look forward to hearing from you soon!