



# LASERS

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Connexus Industries Inc. is a global leader in manufacturing high-quality guideline reference lasers, trusted by industries such as wood products, textile, metal, food processing, and more. Our laser solutions are designed to enhance precision, efficiency, and productivity in a wide range of applications.

Our product offering includes the renowned **Laharco**, and **Laser Blazer** laser product lines, each recognized for durability and performance in demanding environments. We specialize in two types of laser projection technology: **Helium Neon (HeNe) lasers**, known for their precision and stability, and **Diode lasers**, valued for their compact size and energy efficiency.

As the original innovators of the Powerline Lens, we revolutionized laser projection by delivering crisp, uniform lines that ensure optimal visibility and accuracy. Our commitment to innovation and quality makes Connexus Industries Inc. the preferred partner for laser guidance solutions worldwide.

All laser products meet applicable standards under CDRH 21 CFR 1, Subchapter J DHHS

***LAHARCO***

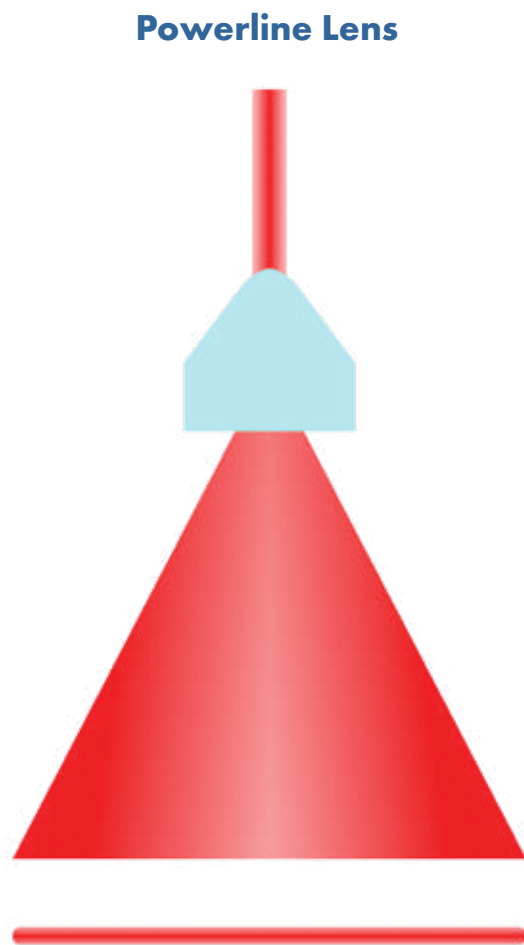
**LASER BLAZER**<sup>®</sup>

**LASALIGN**<sup>®</sup>

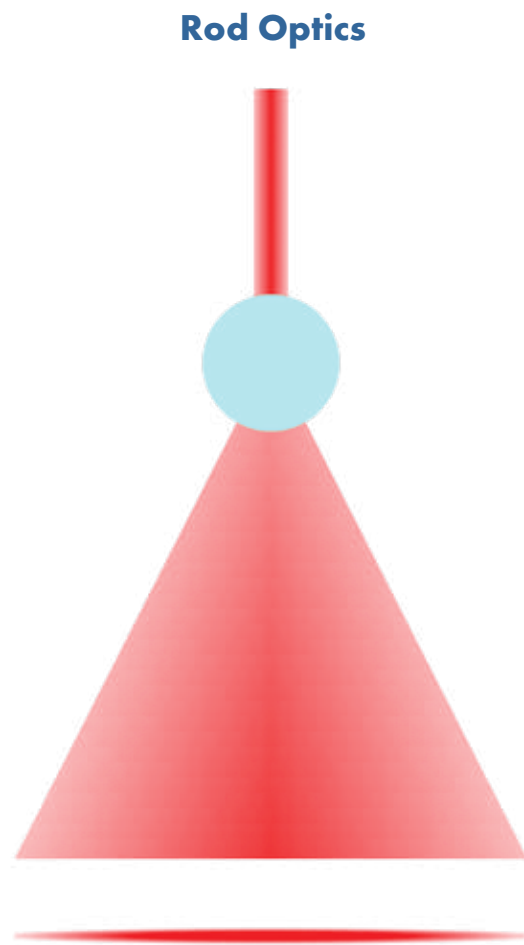
## OPTIC LENSES

**Powerline Lens** technology sets the standard for precision and performance in laser line projection. Designed for industrial applications, this lens ensures a uniform and crisp line across its projection range, eliminating hot spots and ensuring consistent brightness from edge to edge.

By optimizing light distribution, the Powerline Lens is ideal for tasks requiring high accuracy and visibility, even in challenging environments.



**Uniform Line**



**Tapered Line**

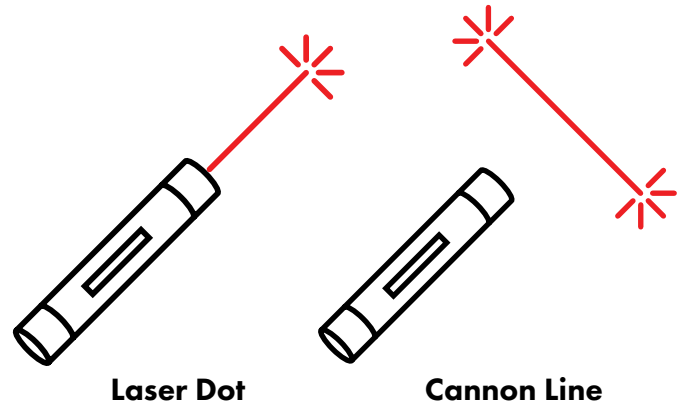
## Cannon



**Also known as: End projector or End Shooter**

**Benefits:**

- Lower cost (less parts, better durability, quicker assembly)
- Stays in focus
- Higher power output, better visibility



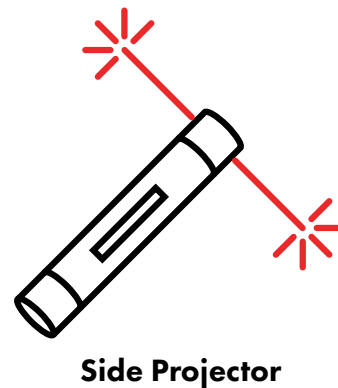
## Side Projector



**Also known as: Adjustable Intensity, AI, Side Shooter, Right Angle**

**Benefits:**

- Variable line intensity by adjusting the mirror
- Fits in low profile tight spots
- Can be used in multiple applications



## HELIUM NEON



**Helium-Neon Technology:** Produce naturally collimated laser dots, this design eliminates the need for precise focus adjustments, making it versatile and easy to install at various mounting heights without compromising performance.

**Durable and Robust Build:** Engineered with high-quality materials, ensuring long-lasting performance under demanding conditions.

**Moisture Resistance:** Designed to withstand exposure to humidity, making it perfect for use in wet or damp environments.

**Vibration Resistance:** Built to endure constant vibrations, ensuring stability and reliability in machinery or equipment.

### Temperature Fluctuation Resistance:

Maintains optimal performance across a wide range of temperatures, from extreme heat to freezing cold.

**Repairable Design:** Built with modular components, our laser system allows for quick and easy diagnosis of issues. This modular approach often enables repairs or servicing at a fraction of the cost of purchasing a new unit, ensuring minimal downtime and long-term cost savings.

**Proven Legacy:** With over 35 years of success, this laser has become a trusted name in the industry. It was one of the original lasers specifically tailored to meet the unique needs of the lumber industry.

**Industry Recognition:** Widely recognized and respected, this laser helped establish the reputation of Laharco and the Lazer Blazer brand as leaders in precision and reliability.

**Pioneering Innovation:** As a foundational product in the laser technology sector, it continues to set the standard for quality and performance in the lumber industry.

## SPECIFICATIONS

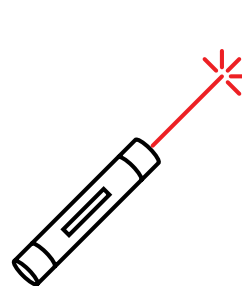
Laser Type	Helium Neon
Wavelength	635nm (red)
Available Powers	5mW
Beam Angle	5° - 90°
Operating Voltage	110VAC, 240VAC
Operating Temps	40° F - +122° F
Dimensions	2.25" Ø X 25.5" Long



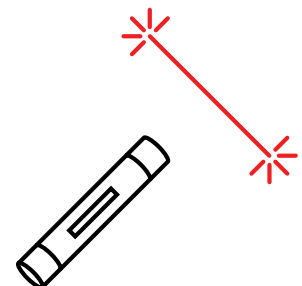
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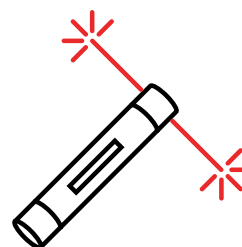
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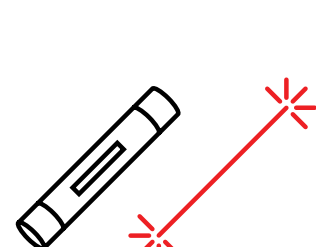
Laser Dot



Cannon Line



Side Projector



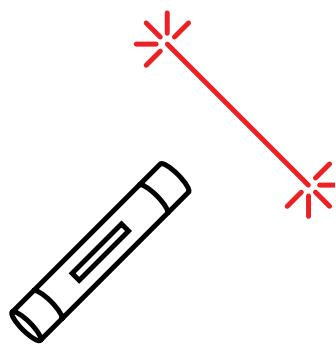
Parallel Line

Cost Effective Basic Straight Line Laser



SPECIFICATIONS

Laser Type	Visible laser diode
Wavelength	520nm (green) or 635nm (red)
Available Powers	10mW
Beam Angle	Rod optic lens
Operating Voltage	Input power: 5VDC - 24VDC Transformer: 110VAC, 240VAC
Operating Temps	-4° F to 104° F
Dimensions	1.25"Ø x 6" long



Cannon Line

- Entry-Level Models:** E-line lasers are designed as basic, entry-level units
- Cost effective:** Competitive low pricing
- Straight Laser Line:** They project a straight laser line using a ROD lens.
- Non-Customizable:** These units are fixed and do not require a laser order form
- Recommended for Close Range:** Ideal for shorter lines and close proximity applications
- Available in Two Colors:** Offered in both red and green laser options

## LD 2000 SERIES DIODE (RED)

### Customized String Straight Laser



### SPECIFICATIONS

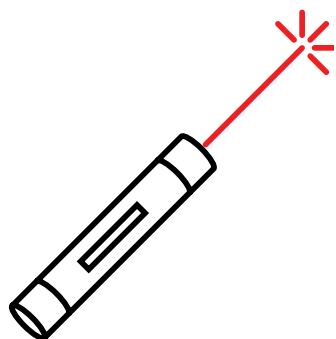
Laser Type	Visible laser diode
Wavelength	635nm (red)
Available Powers	5mW - 40mW
Beam Angle	5° - 90°
Operating Voltage	Input Power: 5VDC - 24VDC Transformer: 110VAC, 240VAC
Operating Temps	-4° F to 104° F
Dimensions	0.75" Ø x 4.9" Long



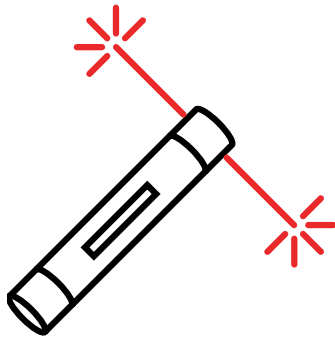
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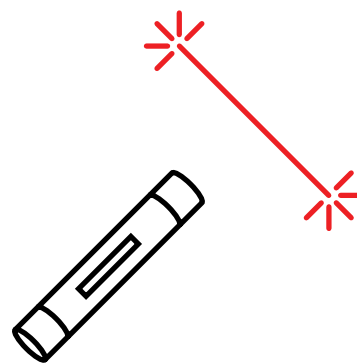
45 ft



LD2000 - Laser Dot



LD2001 - Side Projector



LD2002 - Cannon Line

**Compact size:** Fits in tight spots, easy to position and mount. (available as AI for more flexibility)

**High-Quality Optics:** Features Powerline (Powell) optic lenses for equalized intensity along the entire length.

**Customization:** Line length, power output tailored to your specific needs.

**Power Options:** Available with 110VAC and 240VAC power transformers or custom cord sets for direct tie-in units.

**Input Power Options:** Supports 5V or 24V input for direct tie to operation control systems.

**High Vibration Option:** Available with epoxy filling for high-vibration applications.



## LD 9400 SERIES DIODE (RED OR GREEN)

**Heavy Duty Custom Laser**  
**Water, Dust & Shock Resistant**

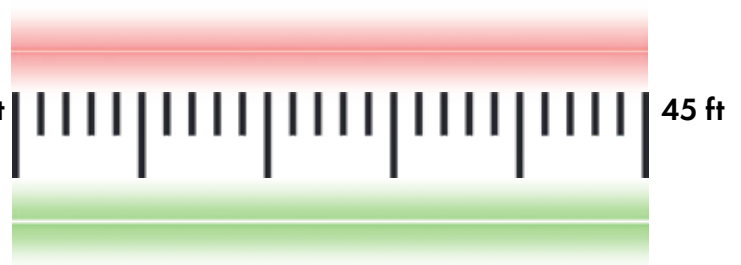


### SPECIFICATIONS

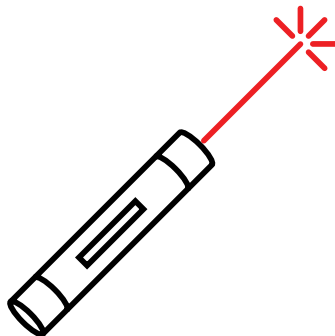
Laser Type	Visible laser diode
Wavelength	532nm (green) or 635nm (red)
Available Powers	5mW - 40mW
Beam Angle	5° - 90°
Operating Voltage	Input power: 5VDC - 24VDC Transformer: 110VAC, 240VAC
Available Powers	-4° F to 104° F
Dimensions	1.25"Ø x 6" long



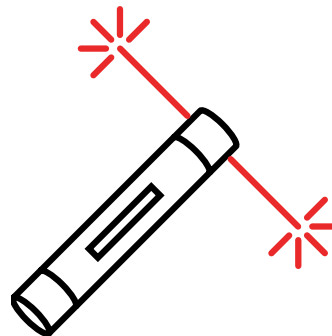
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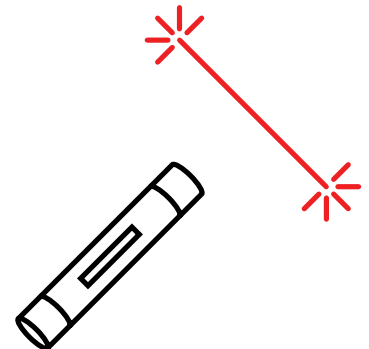
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**Laser Dot**



**Side Projector**



**Cannon Line**

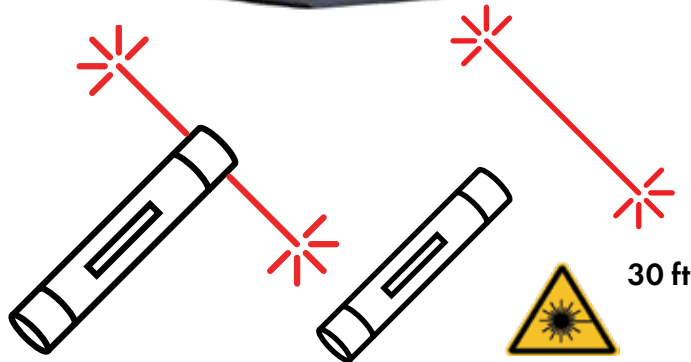
**Enhanced Durability:** Features a vibration-proof internal design, reinforced with a heavy-duty housing and additional O-rings for superior water resistance

**Large variety:** Available in a wide range of power outputs, with both red and green color options to suit your needs (252 different variations available)

**Flexible power input:** All 9400 series lasers are operating 5-24V thanks to the integrated buck/boost voltage converter (included in all new units as of 2025)

## GTD SERIES - GREEN DIODE

### High Powered Custom Laser



GTD - Side Projector

GTD - Cannon Line

### SPECIFICATIONS

Laser Type	Visible laser diode
Wavelength	532nm (green)
Available Powers	30mW
Beam Angle	10° - 90°
Operating Voltage	Input power: 5VDC - 24VDC Transformer: 110VAC, 240VAC
Operating Temps	-4° F to 113° F
Dimensions	1.37"Ø x 12" Long

30 ft

200 ft

The GTD Laser is the pinnacle of our laser technology lineup, offering unmatched performance for the most demanding applications. Engineered for precision and reliability, it excels in scenarios where other lasers fall short, delivering superior results even in the most challenging environments.

**Variable power input:** Runs on any voltage between 5V and 24V

**Available configurations:** Choose between Cannon or Side Projector

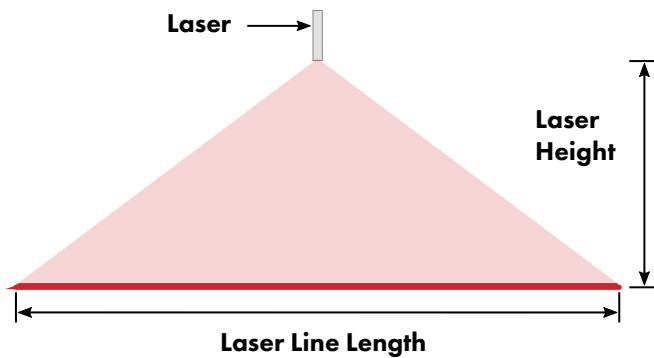
**Robust bracket:** Includes a highly adjustable bracket for secure mounting and precise positioning

**Recommended for:**

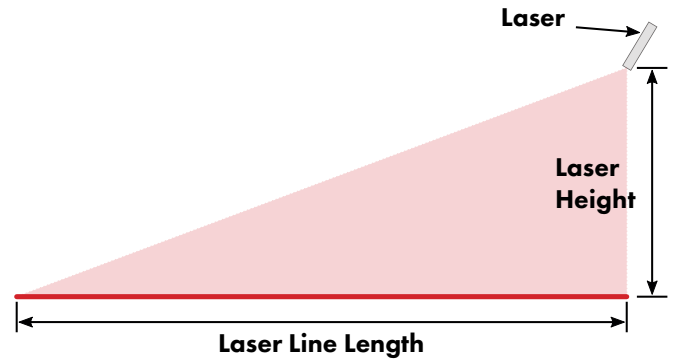
- High light pollution applications
- Dark or rough surfaces
- Extremely long lines



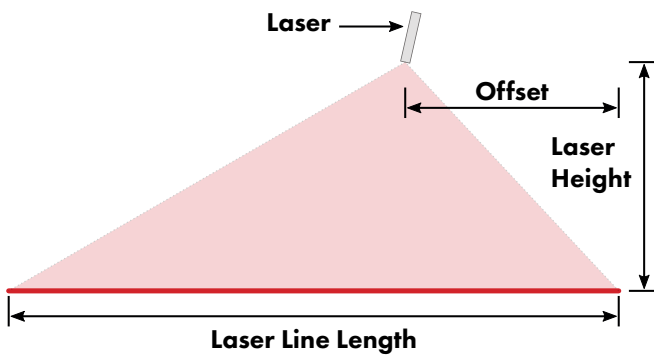
## Information required to build a custom laser



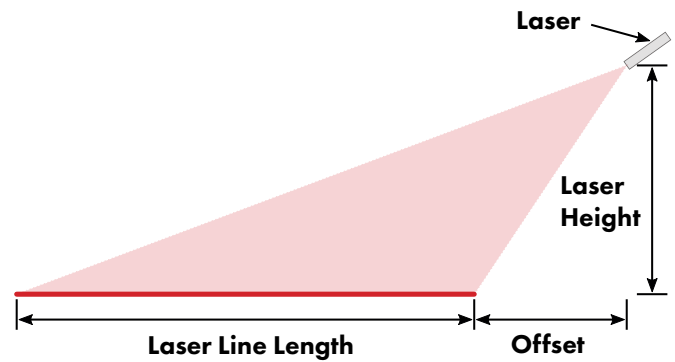
Over Center



Over End



Positive Offset



Negative Offset

**Mounting Height:** Essential for achieving the best line quality possible.

**Line Length:** Helps in choosing the most suitable optic lens for the application.

**Mounting Position:** Crucial for balancing the power throughout the laser line.

Please complete our questionnaire when you place an order for a custom laser

## CONTACT US



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