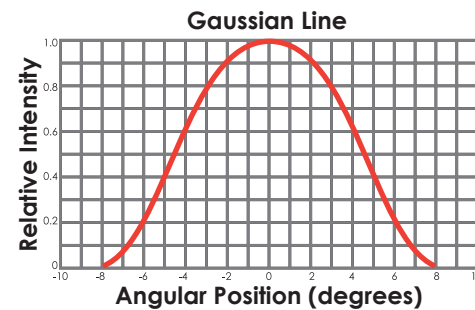


## Cemarligne Powershift™

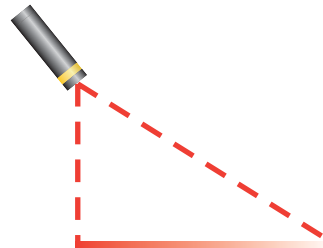
The R & D team at **Cemar Electro** has developed "Powershift™", a technique to deliver a more uniform line from angle-mounted lasers. Used with our patented linear lens, we are able to shift the laser power to maintain the intensity throughout the length of the line, further enhancing line integrity.

### Uniform line Intensity

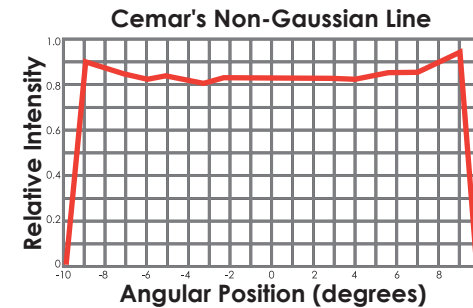
Conventional Lasers use cylindrical optics to spread the light. This creates a line that is bright in the middle but faded at the ends:



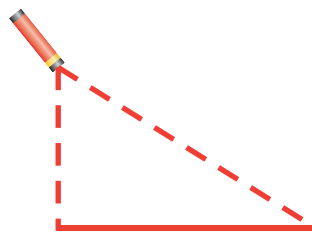
When lasers with cylindrical optics are mounted on an angle, the light loses intensity and fades as it extends outward.



With **Cemar Electro's** patented linear lens, the projected light is distributed equally over the entire length of the line:



With **Cemarligne "Powershift™"** the laser power is shifted slightly to the far end of the line, delivering a clear balanced line from beginning to end.



**Power Supply:** 90~240VAC 50~60Hz  
9~35VDC

**Operating Temperature:**

-10°~40°C  
14°~100°F

**Approvals:**



*Call us for additional power options to suit your needs.*

**Power Consumption:** 1Watt max.

# CEMARLIGNE

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Canada H9P 2T2

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Toll Free: 1-800-298-5273  
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CH-9435 Heerbrugg  
Switzerland

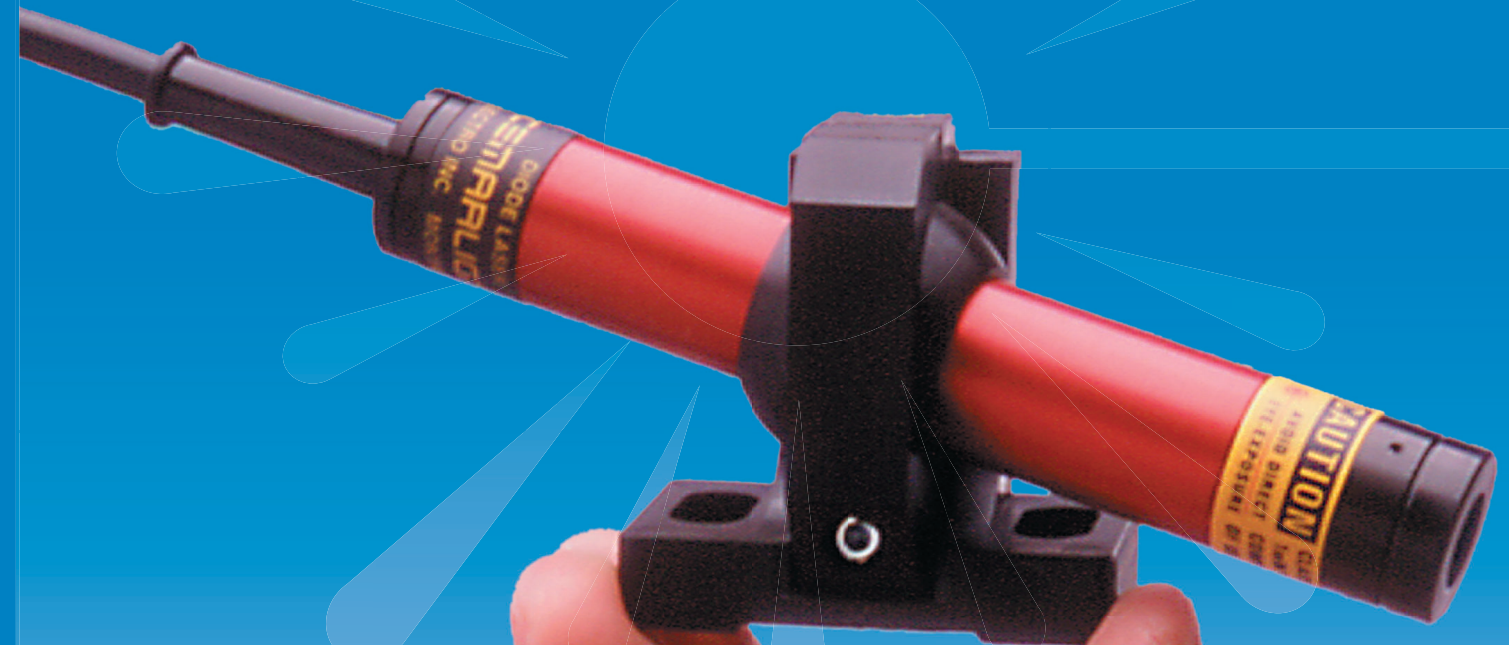
Tel: 41-71-722-3820  
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WWW.CEMARELECTRO.COM

# CEMARLIGNE®

## Solid State Line Generators



## CL 800 & CL 900 Mini Laser Series





CL-800 Series Lasers

Cemar Electro's CL-800 series lasers are small enough to fit in the palm of your hand yet powerful enough to project a brilliant line even in the brightest conditions. Built to handle the toughest environment, they are the most reliable lasers on the market today. Each laser includes a mounting bracket, a power supply to suit your requirements, and our patented line generating optics.



CL-830-B Stone Industry Laser

Designed specially for the stone industry, the CL-830-B produces 30mW of laser power and has power supply configurations to suit all bridge saws. This laser also comes with our CE-HPS-800 precision bracket, allowing maximum adjustment capabilities.

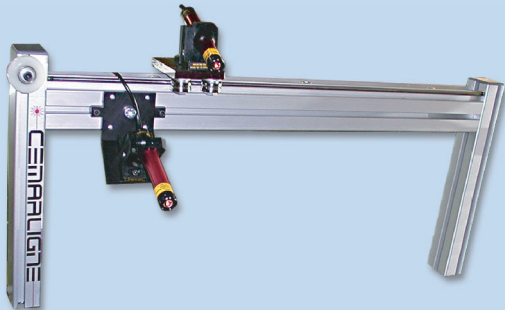
CL-900 Series Lasers

CL-900 series lasers are designed for vision systems / scanning systems and optimizers. Custom made to your specifications, we offer a complete range of power levels and wavelengths. Our patented optics make it the laser of choice.

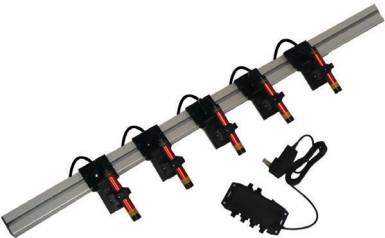
Special Applications / Accessories

SK-800 shift kit for edgers

The SK-800 shift kit is designed for board edgers and can be configured to any blade set-up. All kits are custom built from aluminum track and are fully assembled. These kits quickly pay for themselves and offer years of trouble-free operation. You will process more valuable boards in less time and generate less waste.



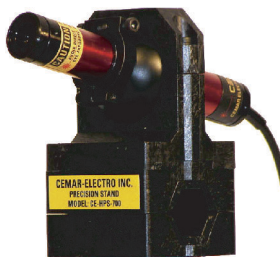
Multiple Unit Linear Array



Designed for multi-blade rip saws or grading stations, this track/stationary bracket kit can accommodate any number of lasers. The lateral position of the lasers can be adjusted with a simple turn of a thumb screw. Each power supply distribution unit is able to accommodate up to 8 lasers, making service easy and requiring only one plug-in.

CE-HPS-800 precision bracket

Originally designed for precision adjustment, this bracket is a bar mounted unit with a very precise left / right and roll adjustment. Built from a vibration-absorbing polymer, it can meet any precision application.



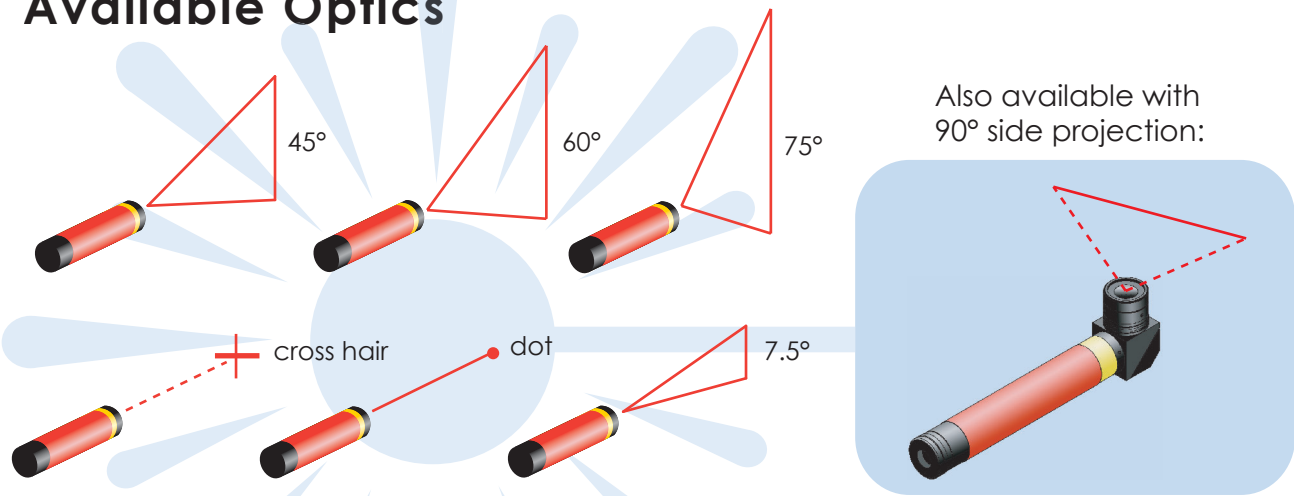
Mini Laser Specifications

	Optical Power	Line Length	Line Width / Dot Size	Wave-length	Laser Class
CL 800	0.9 mW	Dot	2mm X 6mm @ 3m	670nm	Class II Laser Product
CL 801	5 mW	1m (3ft)	1mm @ 1m distance (0.04 inch @ 3 ft)	670nm	<div>CAUTION</div> <div>LASER LIGHT DO NOT STARE INTO BEAM</div> <div>CLASS II PRODUCT</div>
CL 805	5 mW	2.5m (8ft)	1mm @ 3m distance (0.04 inch @ 10 ft)	635nm	
CL 810	10 mW	4m (12ft)	1mm @ 3m distance (0.04 inch @ 10 ft)	635nm	
CL 815	15 mW	10m (30ft)	1mm @ 3m distance (0.04 inch @ 10 ft)	635nm	This product complies with provisions of US 21CFR 1040.10 and 1040.11
CL 820	20 mW	15m (45ft)	1mm @ 3m distance (0.04 inch @ 10 ft)	635nm	
CL 830	30 mW	20m (60ft)	1mm @ 3m distance (0.04 inch @ 10 ft)	635nm	

CL 900 Series Vision Systems

	Optical Power	Application	Wave-length	Laser Class
CL 960	1 ~ 100 mW	Vision Systems	635 ~ 690 nm	<div>DANGER</div> <div>DO NOT LOOK INTO LASER BEAM</div> <div>CLASS IIIB LASER PRODUCT &lt;500mW MAX, 400-700nm</div> <div>THIS PRODUCT COMPLIES WITH PROVISIONS OF US 21 CFR 1040.10, 1040.11</div> <div>CAUTION</div> <div>AVOID DIRECT EYE EXPOSURE</div> <div>CLASS II LASER PRODUCT 1mW MAX 630-670nm</div> <div>THIS PRODUCT COMPLIES WITH PROVISIONS OF US 21 CFR 1040.10, 1040.11</div>
CL 970	1 ~ 100 mW	Vision Systems	780 ~ 785 nm	
CL 980	1 ~ 200 mW	Vision Systems	808 ~ 980 nm	

Available Optics



Quality Assurance

Cemar Electro is ISO 9001:2000 certified and adheres to the highest engineering and manufacturing standards. All lasers produced in our facility undergo rigorous testing before shipment.

Warranty

Cemar Electro stands behind its products with the best warranty in the business: all of our lasers are covered by a 2-year parts and labor warranty.

Service

We service all makes and models of diode line generating lasers in our repair facility. All repairs are shipped within 48 hours of an approved estimate.