

LASER MARKING SYSTEMS





ABOUT CLAUSING LASERGEAR

Entry-Level Laser Marking Systems Manufactured in the USA

Clausing LaserGear is a full featured, entry-level line of laser marking products from Clausing, a world leader in industrial machine tools. Clausing LaserGear was created to serve clients who desire an entry-level laser marking system without compromising on quality. Clausing LaserGear products are manufactured in the USA, using high quality components and are backed by an 18-month warranty with an industry leading complete replacement policy. If your system is down within the warranty period, simply contact Clausing and we will replace it with a new unit.

APPLICATIONS

Laser Mark, Engrave, and Etch a Variety of Materials

Clausing LaserGear systems mark all metals, most plastics, carbide, anodized aluminum, painted/coated materials, and more. Powerful MOPA fiber laser technology enhances the marking capabilities and reliability over basic q-switched fiber laser systems.



CLAUSING LASERGEAR CPBQX20

A Powerful Class I Benchtop Laser Marking System

Clausing LaserGear CPBQX20 is a Class 1 benchtop laser marking system that combines simplicity with power.

Featuring a 20W MOPA fiber laser, CPBQX20 delivers both strength and speed to accomplish a variety of applications. A front sliding vertical door and power focal height adjustment with a built-in focus finder tool allow for simple front loading and part setup. Simply connect a laptop or desktop PC via USB and begin programming in our Minilase Pro SE software.

Features

- Class I safe benchtop laser enclosure
- Front operator control buttons
- Front sliding vertical door
- 20W MOPA fiber laser
- Power focal height adjustment with focus finder tool



Note: shown shown with optional 3-jaw chuck



CLAUSING LASERGEAR CPB20

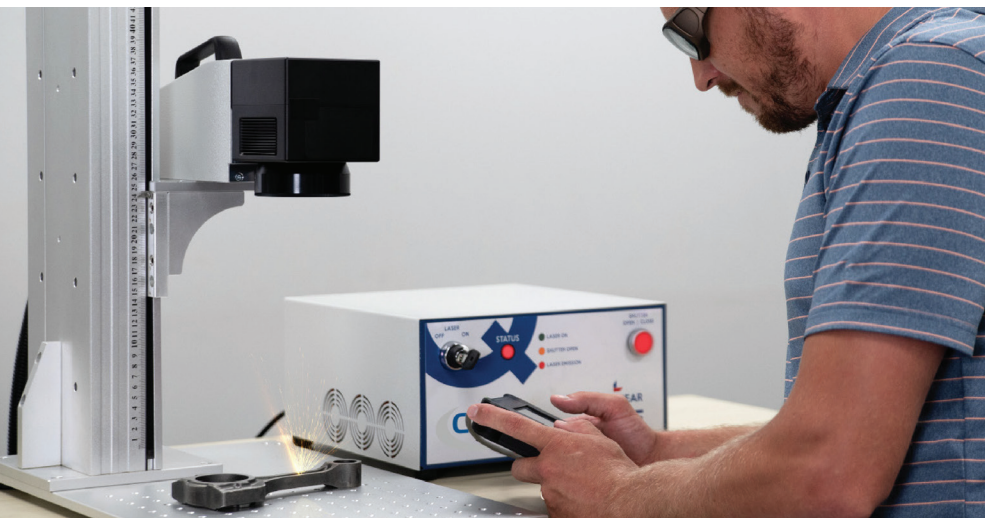
Ideal for Class IV Tool Post Use or Integration Applications

Clausing LaserGear CPB20 is a Class 4 laser marking system that is ideal for use in an open environment or integrated into production lines.

Featuring a 20W MOPA fiber laser, CPB20 delivers both strength and speed to accomplish a variety of applications. Mount CPB20 to a tool-post for marking applications which require open space and flexibility. Integrate CPB20 into automated lines for unattended or turnkey applications. Connect a laptop or desktop PC via USB and begin programming in our Minilase Pro SE software.

Features

- Class IV integration laser marking system
- Compact head design and controls enclosure
- 20W MOPA fiber laser
- I/O for automated system control



CLAUSING LASERGEAR CPB60

CPB60 Features More Power

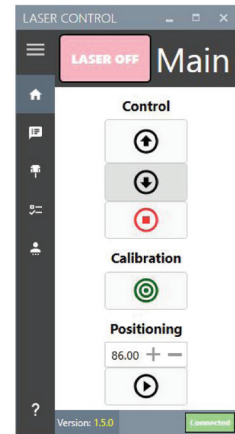
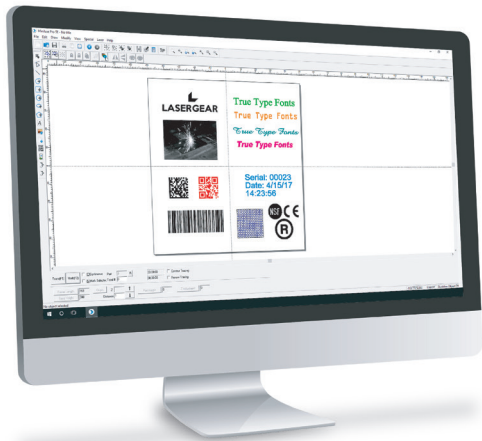
CPB60 adds more power and selectable pulse durations for advanced marking capability, with improvements to speed, flexibility, and deep engraving.

Features

- 60W MOPA Fiber Laser
- 8 Selectable Pulse Durations

LASERGEAR MARKING SOFTWARE

With our user-friendly software, operators and engineers can quickly create marking files with text, barcodes, 2D codes, and a variety of graphic formats such as DXF, AI, PLT, BMP, and JPEG. CAD tools allow users to draw their own graphics and manipulate complex vector files. Automated date coding and serialization capabilities are also included. A pre-configured materials library takes the guess work out of setting up laser marking parameters. Control a rotary device for 360° marking.



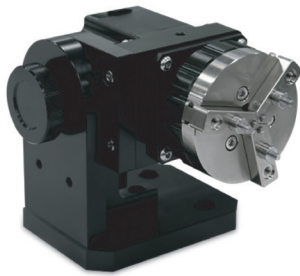
LASER CONTROL CENTER

Advanced machine control is included with our Clausing LaserGear CPBQX20 Laser Control software module. Control and change the machine z-axis height, view activity logs, and more using your laser programming PC.

MR65 ROTARY

The MR65 is a robust, compact rotary axis ideal for 360° radial laser marking.

The unit features a manual three jaw holding chuck along with multi-diameter fingers for holding the ID or OD of components. A tilting feature enables marking on complex angles or inner diameters.



TOOL POST

Our manual tool post allows provides secure mounting and focal height adjustment for the Clausing LaserGear CPB20 product. A baseplate with through holes allows for fixture mounting and part presentation.



HANDHELD CONTROL PENDANT

The handheld control pendant is available for all Clausing LaserGear products and features advanced system control such as: Start/Stop Marking, Shutter Control, Laser On/Off Status, Busy Status, Cycle Complete Alert, Z Axis Control (CPBQX20), Laser Temperature and Serial Information, and Warnings and Error Messages.



FUME EXTRACTION

A variety of fume extractor products are available to remove harmful dust, debris, and fumes created by the marking process.

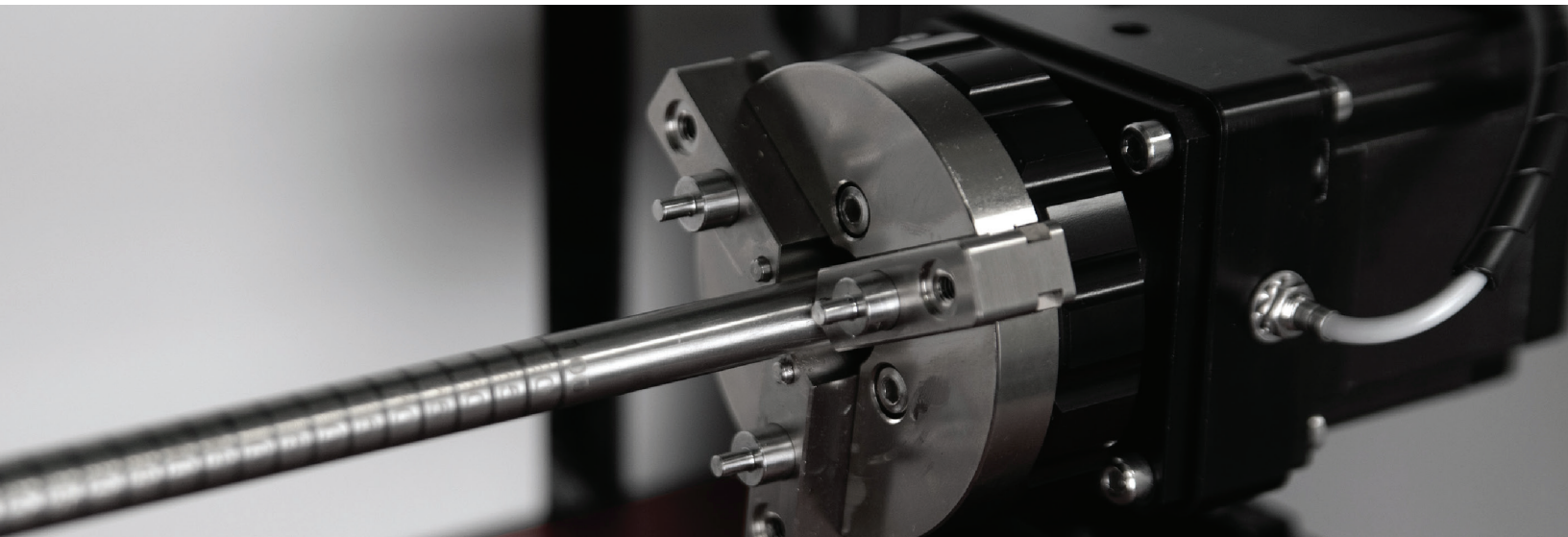


LASER SAFETY GLASSES

For safety in Class IV operation.



MODEL	CPBQX20	CPB20	CPB60
System Dimensions / Weight (approx.)	16.15"W x 34.5"L x 24"H / 130lbs (mm) 410W x 876.3 L x 584H / 59kg	Rack: 13.5"W x 13.5"L x 6.56"H / 35lbs (mm) 343W x 343 L x 167H / 16kg Head: 4.0"W x 14.0"L x 4.5"H / 10lbs (mm) 102W x 356 L x 114H / 4.5kg	Rack: 14.8"W x 15.17"L x 7.4"H / 35lbs (mm) 376W x 385L x 189H / 16kg Head: 4.0"W x 14.0"L x 4.5"H / 10lbs (mm) 102W x 356 L x 114H / 4.5kg
Standard Marking Field	163 Focal Lens 3.93" x 3.93" / 100mm x 100mm	163 Focal Lens 3.93" x 3.93" / 100mm x 100mm	163 Focal Lens 3.93" x 3.93" / 100mm x 100mm
Standard Max Part Size	12"W x 9.0"L x 5.66"H (mm) 254W x 228L x 142H		
Upgrade Lens		254 Focal Lens 6.5" x 6.5" / 165mm x 165mm	254 Focal Lens 6.5" x 6.5" / 165mm x 165mm
Laser Type	Ytterbium Fiber	Ytterbium Fiber	Ytterbium Fiber
Wavelength	1062nm +/- 3nm	1062nm +/- 3nm	1062nm +/- 3nm
Wattage	20W	20W	60W
Frequency Range	1-400kHz	1-400kHz	1-1,000kHz
Pulse Duration	200ns	200ns	8 Selectable, 10-350ns
Operative Ambient Air Temp	0° – 40° C / 32° – 104° F	0° – 40° C / 32° – 104° F	0° – 40° C / 32° – 104° F
Cooling	Forced Air	Forced Air	Forced Air
Input Power Requirements	Power Sensing 110-240VAC 50/60Hz	Power Sensing 110-240VAC 50/60Hz	Power Sensing 110-240VAC 50/60Hz
Aiming Beam	(2) Class II Red Diode	(2) Class II Red Diode	(2) Class II Red Diode
PC	Windows 7 or 10 Laptop or Desktop PC	Windows 7 or 10 Laptop or Desktop PC	Windows 7 or 10 Laptop or Desktop PC
PC Connection	USB	USB	USB
Machine Ports	Diagnostic, Option Pendant	Diagnostic, Option Pendant	Diagnostic, Option Pendant
Warranty	18 Month Comprehensive, Unlimited Hours	18 Month Comprehensive, Unlimited Hours	18 Month Comprehensive, Unlimited Hours
Documentation (Provided in Digital Format via USB Drive)	System & Software Manuals Laser Settings Guide / Safety Manual	System & Software Manuals Laser Settings Guide / Safety Manual	System & Software Manuals Laser Settings Guide / Safety Manual





TRAINING & SUPPORT

Clausing LaserGear products are designed to setup and install with minimal effort. Every system ships fully assembled for quick startup. With our startup manuals, training videos, and more, users can easily setup and program Clausing LaserGear products on their own.

Clausing pledges to provide every customer with laser systems of the highest quality and reliability. We offer applications specialists available from the start.

We're dedicated to providing long-term customer problem resolution and training to ensure your system operates effectively for years to come. Contact us today to learn more. Join the growing number of manufacturers who've chosen Clausing as their partner in industrial laser systems.

- Emergency support phone line
- Online remote programming and troubleshooting assistance via Citrix™ secured software
- Application and programming assistance
- Video training tutorials
- LaserGear warranty system replacement policy

Your Single Source for Machine Tools

Clausing Precision Drills

- Clausing Belt-drive Drills
- Clausing Geared-head Drills
- Clausing Radial Drills

Clausing Precision Mills

- Clausing Bed Mills
- Clausing CNC Bed Mills
- Clausing Knee Mills
- Clausing EVS Knee Mills
- Clausing CNC Knee Mills
- Clausing Universal Mills

Clausing Precision Lathes

- Clausing/Colchester Geared Head Lathes
- Clausing/Colchester Professional V.S. Lathes
- Clausing/Colchester MAGNUM V.S. Lathes
- Clausing C Series Lathes
- Clausing Large Swing Standard Lathes
- Clausing Large Swing CNC Lathes
- Clausing Precision Toolroom Lathes

Clausing Precision Grinders

- Clausing Manual Grinders
- Clausing 2 Axes Hydraulic Grinders
- Clausing 3 Axes Hydraulic Grinders
- Clausing ASDIII Automatic Grinders
- Clausing OD/ID Grinders

Clausing Precision Cutting Machines

- Clausing/Kalamazoo Horizontal Bandsaws
- Clausing/Kalamazoo Vertical Bandsaws
- Clausing/Kalamazoo Tilt Frame Miter Bandsaws
- Clausing/Kalamazoo Cold Saws

Clausing LASERGEAR Lasers



For detailed catalogs of the full line of Clausing Machine Tools visit our Web Site:

www.clausing-industrial.com

Fax: 269-345-5945 or e-mail us and request an electronic (pdf) catalog at:

info@clausing-industrial.com

Your Authorized Clausing Precision Machine Tools Distributor

