

SYSTEM SHOWCASE



**Beamer Laser Systems
7136 Sheridan Rd
Flushing, MI 48433**



Lasers are our passion. For over a decade, the perfect laser marking system has evolved! Beamer Laser Marking Systems provide the ability to mark virtually any design on all surfaces with ease, speed, and precision. The versatile structure of the Beamer allows endless options to fit any form of production. A variety of standard enclosures are available, along with custom options including automation.

Right down to every weld, all systems are built with quality and pride in the USA!

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FIBER POWER



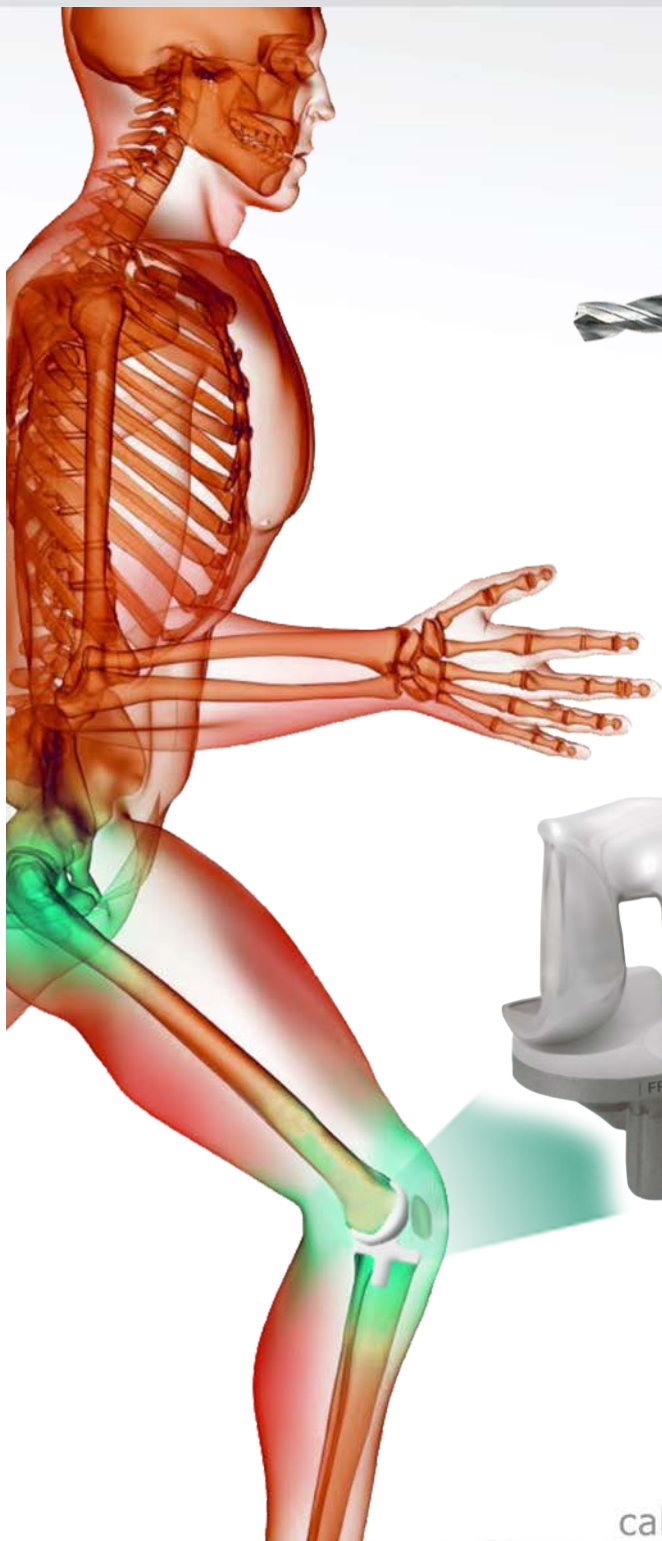
Our Fiber Lasers provide a wide choice of pulse durations, repetition rates and peak powers. These lasers deliver a high power 1064nm laser beam directly to the work site via a flexible metal-sheathed fiber cable. Collimated, and then typically focused to a spot size of a few microns or less, the near diffraction-limited beam can mark a variety of materials.

The patented pumping technique, known as parallel pumping, enables these fiber lasers to generate almost unlimited power and provides for pumping redundancy, enhanced reliability and an extended lifetime. Our Fiber Laser Marking System also utilizes broad area multimode diode chips as pump sources, rather than diode bars with shorter lifetimes. This leads to an estimated diode lifetime of more than 100,000 hours, or more than 11 years, of continuous operation.



The *Power* to Mark Everything...

Model:	FB13	FB23	FB33	FB53	FB103
Average Power:	10 Watt	20 Watt	30 Watt	50 Watt	100 Watt
Wave Length:	1060-1070 nm	1060-1070 nm	1060-1070 nm	1060-1070 nm	1055-1075 nm
Pulse Rep. Rate:	20-200 khz	20-200 khz	30-200 khz	50-200 khz	100-200 khz
Beam Quality:	1.4 (M2)	< 5 (M2)	< 5 (M2)	< 5 (M2)	<2 (M2)



THE POWER TO MARK EVERYTHING!

Compatible with virtually all materials such as ferrous and non-ferrous metals, most plastics, ceramics, also marks well on treated metals including anodized and black oxide surfaces.



SOFTWARE / CONTROLS

*THE **SOFTWARE** TO MARK ANYTHING!*

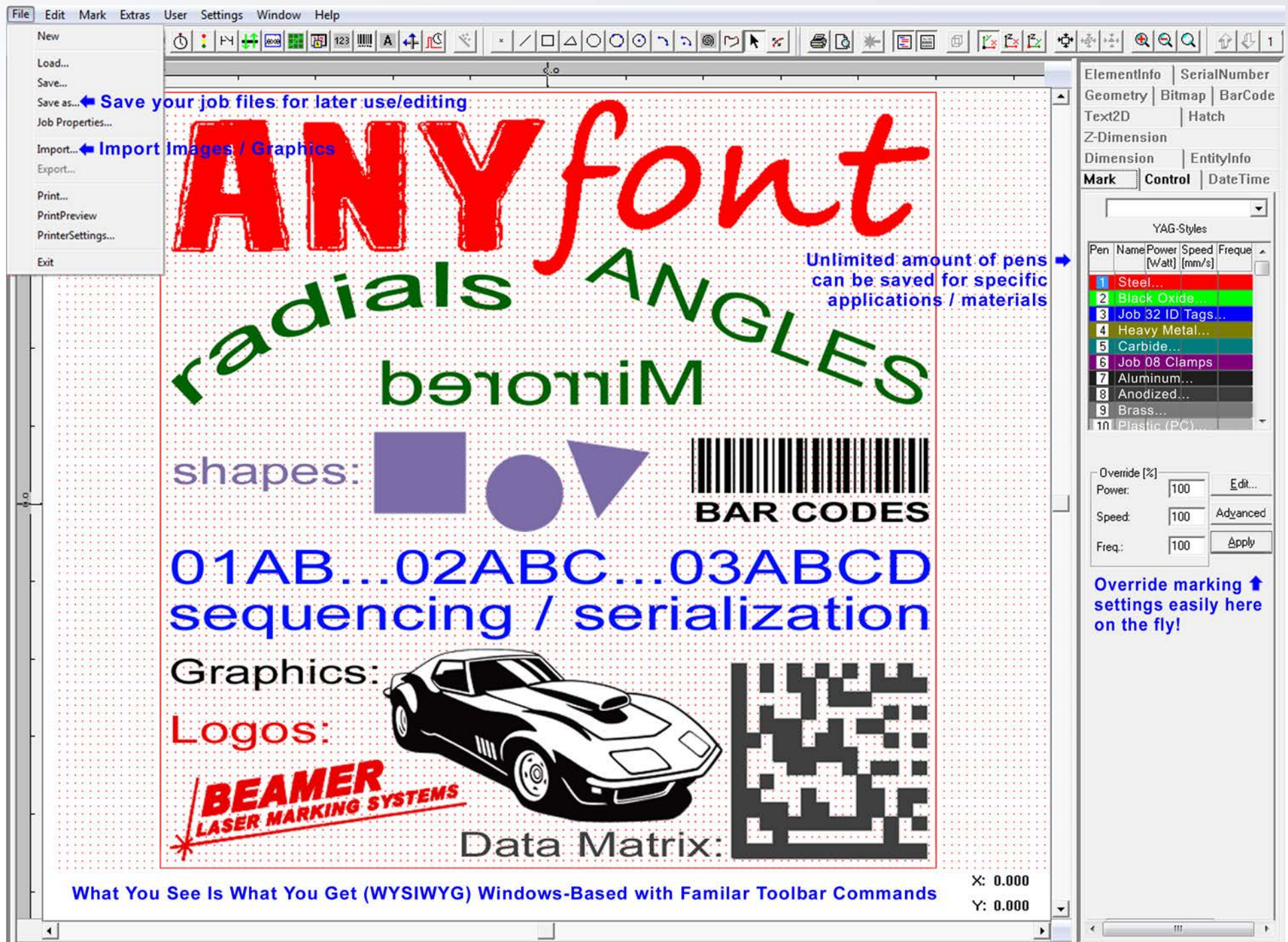
Every Beamer comes complete with preloaded user-friendly software. This allows easy job editing, enabling you to assemble text, graphics, barcodes, sequencing, data matrix, serialization and more! With a simple point and click, you can graphically edit marking objects, precisely control laser parameters, and build automation scripts within a single interface. You will be able to define and run jobs within seconds!

The software's main screen allows users to interact easily with the graphical interface by using familiar Windows based commands. The center area, which represents the working area, can be customized with a grid of varying dimensions. This screen shows you exactly what you can expect when you execute a job. Several entities can be laid out, plus an unlimited amount of pens can be saved for specific applications and materials, eliminating the hassle of adjusting between programs.

*THE **CONTROLS** FOR SIMPLE OPERATION*



*Image shown subject to change with product improvements





*Built with high strength powder coated square tubing & steel panels.
Not plastic or aluminum!*



B-SERIES ENCLOSURE

Engineered specifically to fulfill all laser marking applications, the B-Series Enclosure provides everything needed to easily mark your product quick and safe. Dual doors offer quick and precise part loading, while removable side panels allow larger parts to be marked as well. It has built-in compartments for the computer tower, easy access to components and storage areas. The computer monitor and control panel rest on a convenient double-jointed swinging arm.

H: 70" x W: 32" x D: 28"

Opening: 24" x 28"

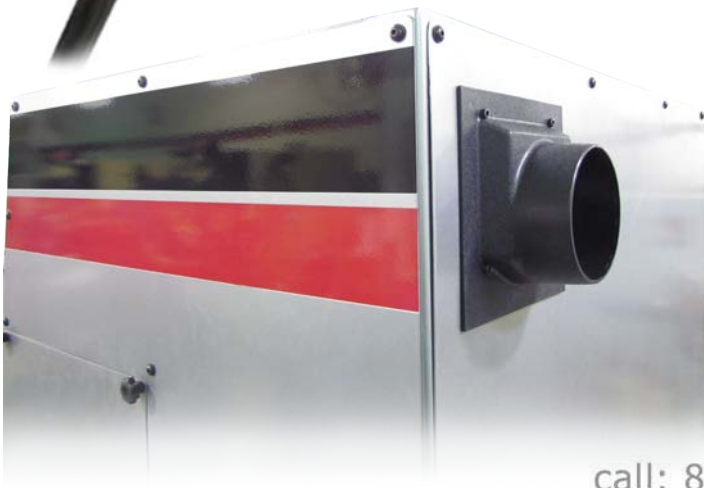
Due to a constantly improving/evolving product line, final product may vary from image shown

B-SERIES HIGHLIGHTS

Smooth fast gliding dual doors increase production and precision with a safe work view window.

Easy to remove side panels allow for larger parts to be marked.

*Runs off standard 110 volts.
Completely air cooled.*



User-Friendly control panel on convenient double-jointed swinging arm.

Industrial casters for max mobility in the work area!

S-SERIES ENCLOSURE

The simple and cost-effective answer for the highest standard in parts marking. It is the perfect size for a designated area like your shipping room. Built for quick and precise part loading with removable side panels that allow larger parts to be marked as well. A laptop rests outside of the enclosure in an area of your choice.

(Laptop and mouse included)

H: 25" x W: 25" x D: 25"
Opening: 16" x 17"



*Runs off standard 110 volts.
Completely air cooled.*

Due to a constantly improving/evolving product line, final product may vary from image shown



- *User-friendly built in control panel in favorable location.*
- *The perfect size to fit any convenient area atop a bench, counter, etc.*
- *Easy to remove side panels allowing larger parts to be marked.*
- *Runs off standard 110 volts. Completely air cooled.*
- *Save Money by getting just the essentials needed.*

S-SERIES HIGHLIGHTS

Dowel pin holes and threaded holes for mounting a variety of sized fixtures

With a stable laser position, simply mount a scissor table to the base to raise and lower part to focus the laser





*Built with high strength powder coated square tubing & steel panels.
Not plastic or aluminum!*



L-SERIES ENCLOSURE

The L-Series enclosure provides everything needed to easily mark your larger product quick and safe. It can accommodate up to a 3.5' part with the side panels attached. Easy to remove side panels allow for even larger parts. Dual doors offer quick and precise part loading. It has built-in compartments for the computer tower, easy access to components and storage areas. The computer monitor and control panel rest on a convenient double-jointed swinging arm.

H: 70" x W: 48" x D: 40" Opening: 24" x 38"

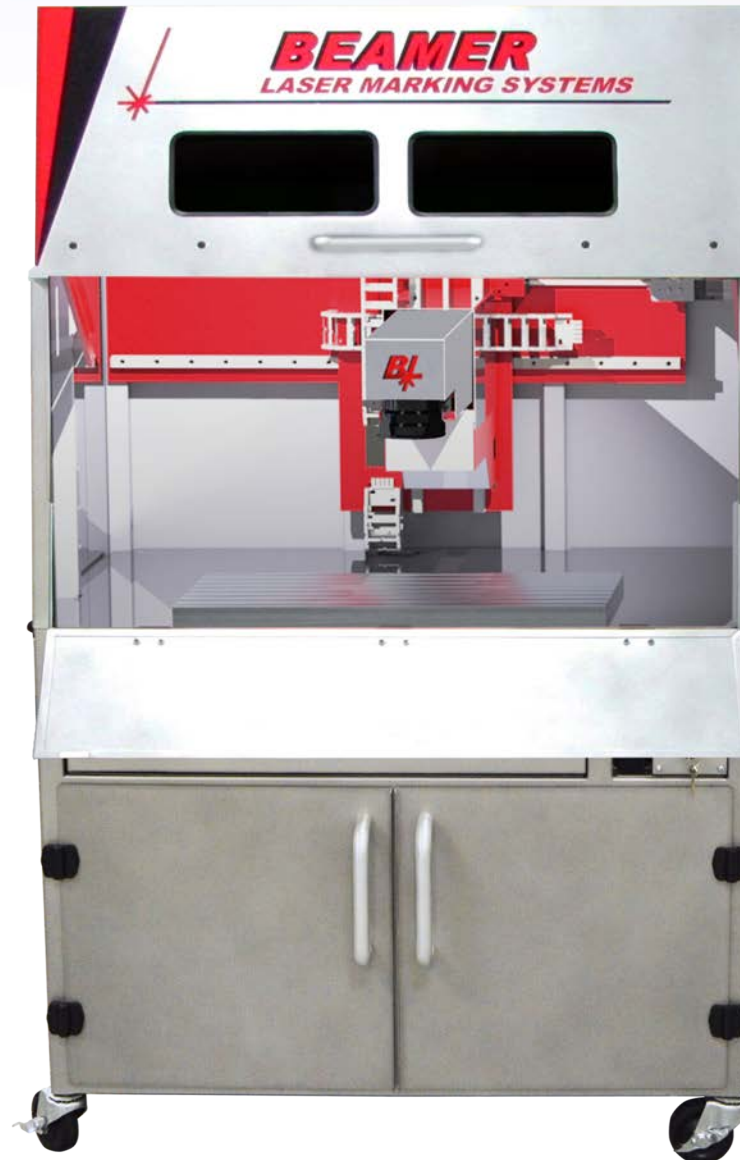
Due to a constantly improving/evolving product line, final product may vary from image shown

L-SERIES HIGHLIGHTS

- **Totally Programmable X,Y, and Z axii**
- **12.5" x 26" total marking field**
when using 254 mm lens
- **Can fit up to a 45"W x 25"D x 13.5"H part**
- **T-Slot Plate for mounting custom fixturing**

*Can accommodate
up to a 3.5' part
with the side
panels attached.*

*Runs off standard 110 volts.
Completely air cooled.*



*Smooth fast gliding dual doors
increase production and precision
with a safe work view window.*

*Easy to remove side panels allow
for larger parts to be marked.*



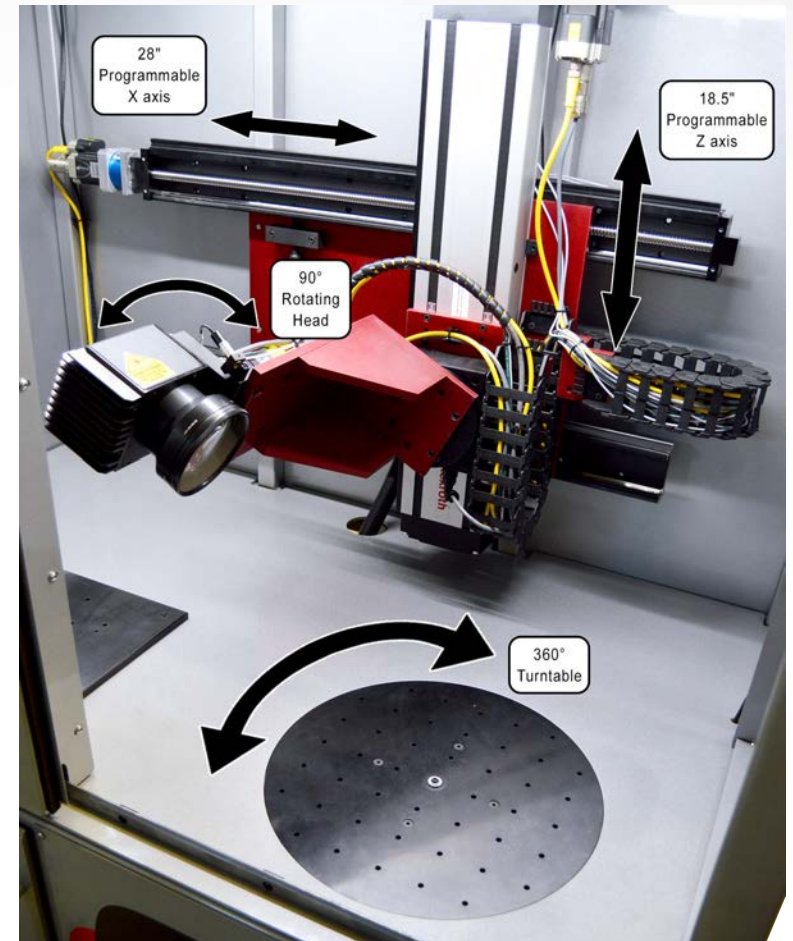
*User-Friendly control panel
on convenient double-jointed
swinging arm.*

*Industrial casters for max
mobility in the work area!*

MULTI-AXIS M-SERIES ENCLOSURE



H: 71" x W: 58" x D: 36"



The M-Series enclosure provides everything needed to easily mark your larger product quick and safely. With a 360° Turntable and a 90° rotating head, parts can be marked in harder to reach spaces. This enclosure comes with a 28" Programmable travel x axis and a 18.5" Programmable travel z axis while completely driven with one software. No jumping between other software!

Main Opening: H: 36.5" x W: 25"

Side Opening: H: 27" x W: 19"

M-SERIES HIGHLIGHTS

Optional Marking Fields Available!

*Built with high strength powder coated square tubing & steel panels.
Not plastic or aluminum!*

Easy to open side panel allows for larger parts to be crane loaded.

*360° Turntable
90° Rotating Head*

*28" Programmable travel x axis
18.5" Programmable travel z axis*

*Runs off standard 110 volts.
Completely air cooled.*



User-Friendly control panel on convenient double-jointed swinging arm.

Operated Completely on one software.

No jumping between other software for motion and marking control like other machines!

Industrial casters for max mobility in the work area!

call: 810-471-3044 fax: 810-515-7584 info@**BEAMERLASER.COM**



TURNTABLE T-SERIES ENCLOSURE

The T-Series Enclosure is the new benchmark for high volume marking. Simply place the objects on the rotating table, set up the laser, press the button and watch the table turn. As the objects are being marked you can have more ready to go. The T-Series Enclosure is also more compact than the standard B-Series model. The control panel and screen are built in thus eliminating a swinging arm. This allows for convenience of placement.

(tower, monitor, keyboard and mouse included)

Tray package option shown

Trays not included in standard T-Series model.

*Built with high strength powder
coated square tubing & steel panels.
Not plastic or aluminum!*

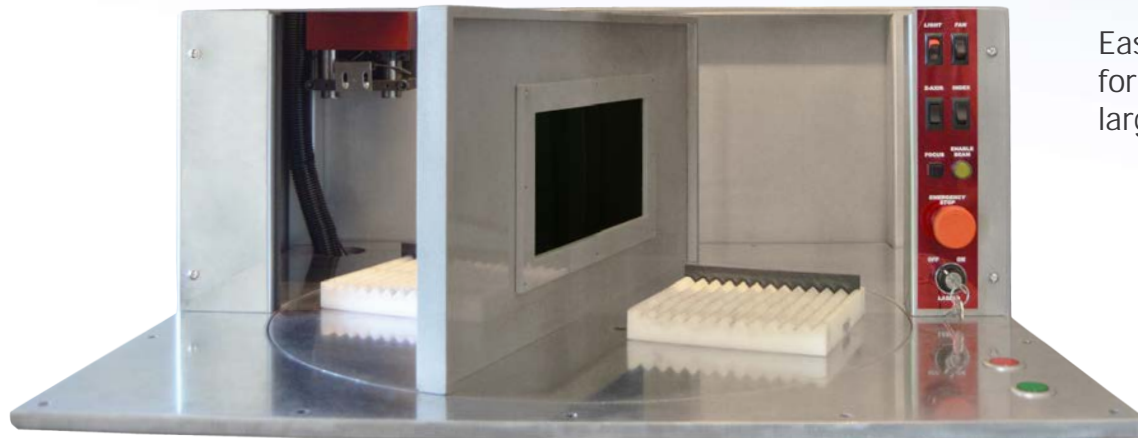


H: 70" x W: 32" x D: 30"

Have You Left Your Mark?

Due to a constantly improving/evolving product line, final product may vary from image shown

T-SERIES HIGHLIGHTS



Tray package option shown

Trays not included in standard T-Series model.

*Runs off standard 110 volts.
Completely air cooled.*



Easy Access Side door
for manually loading
larger parts

- Smooth fast Rotating Table increases production and precision with a safe work view window.
- User-friendly built in control panel for convenience.

*Industrial casters for max
mobility in the work area!*



CLASS 4 NO ENCLOSURE



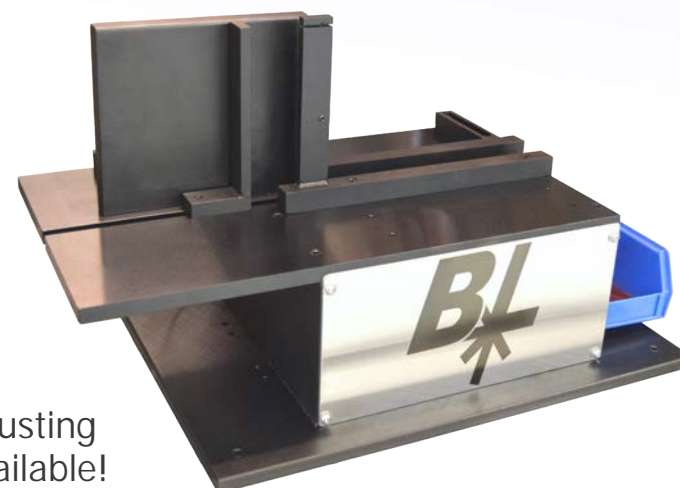
The Class 4 laser is a non enclosed unit. This unit is flexible in sizes and contains the minimum needed to mark what you need. Place it on a table or anywhere convenient. Save space and money by ordering a class 4 unit today!

(Laptop and mouse included)



TAG LOADER OPTION

Need high volumes of tags marked? Look no further. Add this option to any standard unit and just feed your stack of tags. Set up the laser and adjust the loader to fit the size of your tag. Watch as one by one the tags are continuously fed and marked.



Automatically adjusting rail option also available!

VENTILATION OPTION

Vent out any dust created from the process of marking by adding this option to any standard laser machine.



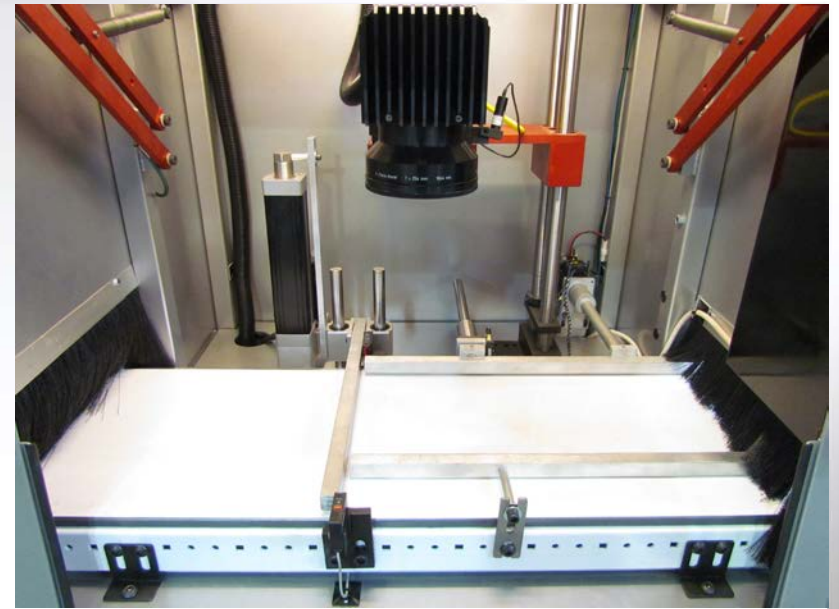
C-SERIES HIGHLIGHTS

YOU PICK THE SIZE AND FEATURES



MARK LARGE QUANTITIES
WITH THE PUSH OF A BUTTON

Incorporate a Beamer Into Your Assembly Line



“CUSTOM” C-SERIES ENCLOSURES

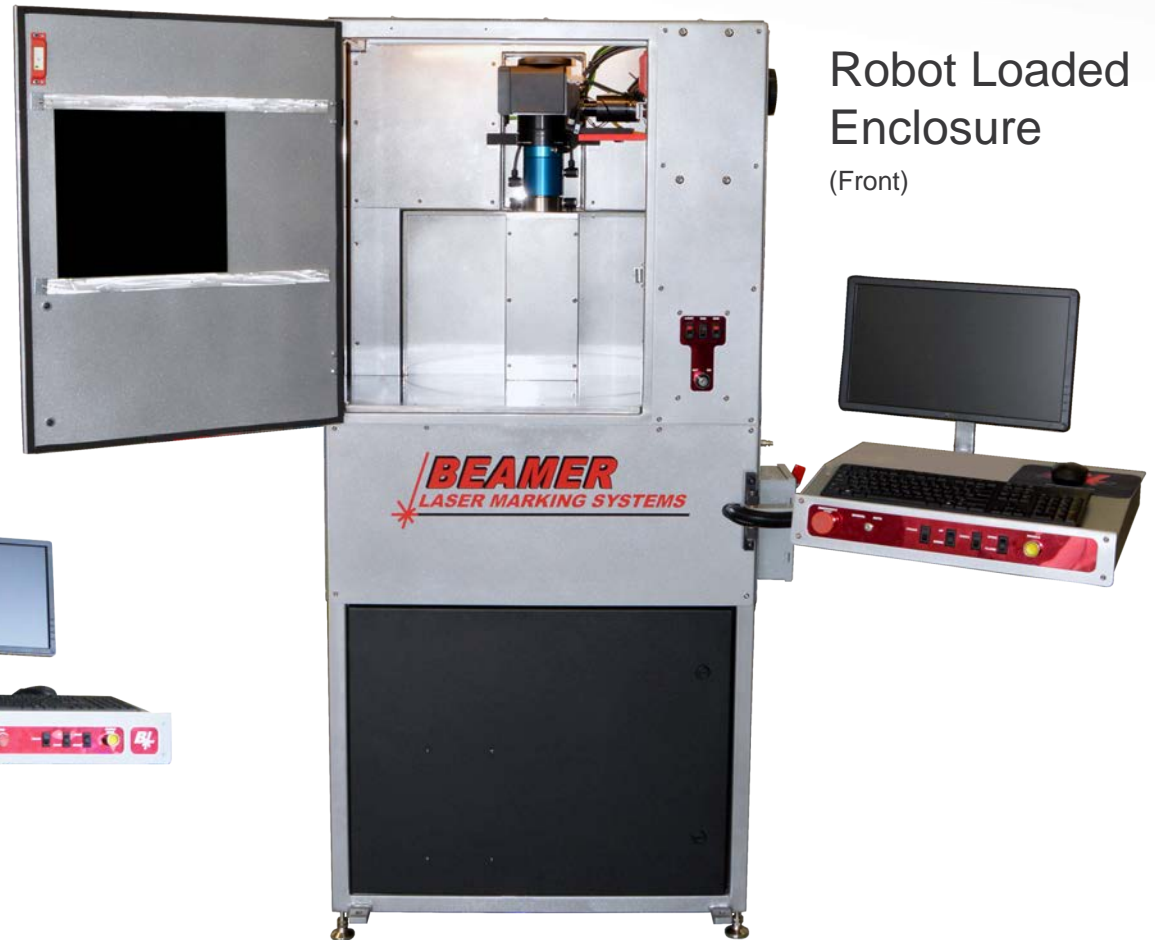
Have a special application or placement you would like the Beamer to occupy?

We will work closely with you in the design of a custom enclosure that will fit your needs. Possibilities are endless with Beamer Laser Marking Systems! Significantly improve production time with the incorporation of automated options in your system.

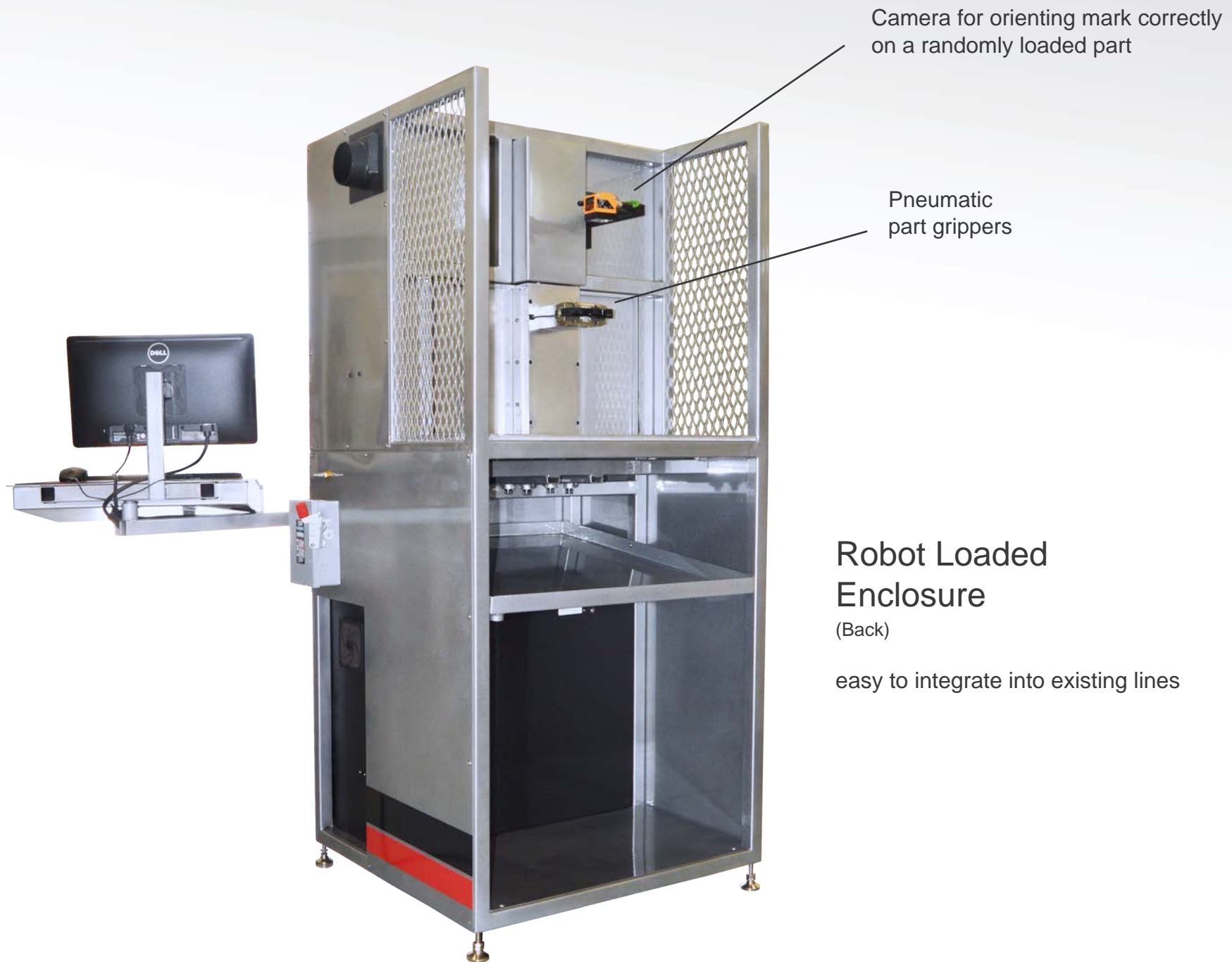
C-SERIES ENCLOSURES



Roller Conveyor
for easy loading of long parts



**“CUSTOM”
ENCLOSURES**



Camera for orienting mark correctly
on a randomly loaded part

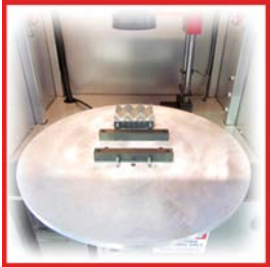
Pneumatic
part grippers

Robot Loaded Enclosure

(Back)

easy to integrate into existing lines

ADDITIONAL OPTIONS



Revolution Tables

Enables automatic feeding of parts during operation. Load / Unload the product while machining operations continue.



Conveyors & Belts

Continuously feeds your parts through the laser to be marked.



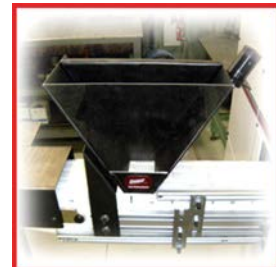
Wheel Loaders

Independent from a conveyor, this uses the rotation of a wheel to feed your parts through the laser.



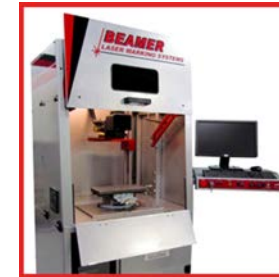
Custom Trays & Fixtures

Mark multiple parts in one working area with arrayed characteristics. Faster changeover with swapping of the trays.



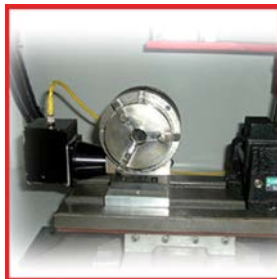
Hopper Loaders

Load the hopper and let it feed the conveyor. It can be adjusted with the turn of a dial to fit various length and diameter round parts.



Auto Doors

Eliminates the hassle of opening the door after each cycle, instead the door opens automatically or with the push of a button.



Programmable Rotaries

4" 3-Jaw Chuck to mark round parts with ease or 8" 3-Jaw Chuck to mark up to 80lb parts.



Programmable XY Tables

Program specific XY-Axis movements while your part is moving.

CO2 LASER OPTION

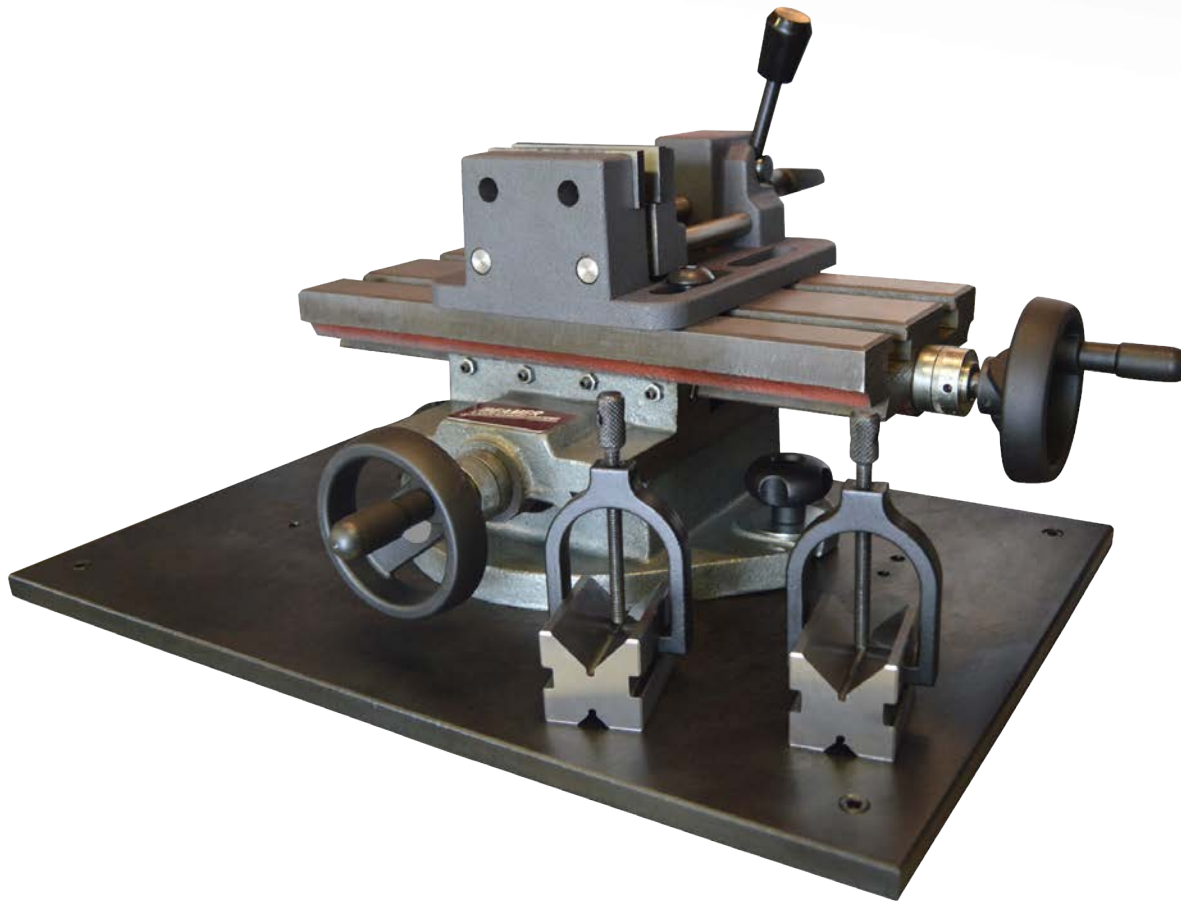
This laser increases the marking capabilities on glass, wood, and plastics.

The Lasers are configured with cooling fans to help the laser operate efficiently with overheating. This allows for no external cooling.

Class 4 Model:	CB33	CB53	CB73
Average Power:	30 Watt	50 Watt	75 Watt
Wave Length:	10,600 nm	10,600 nm	10,600 nm
Cooling:	Integrated Air	Integrated Air	Integrated Air



TOOL PACK



Manual XY Table

Table Length: 12"

Table Width: 5.5"

Overall Height: 4.5"

Cross Travel: 5"

Longitudinal Travel: 8"

Vise

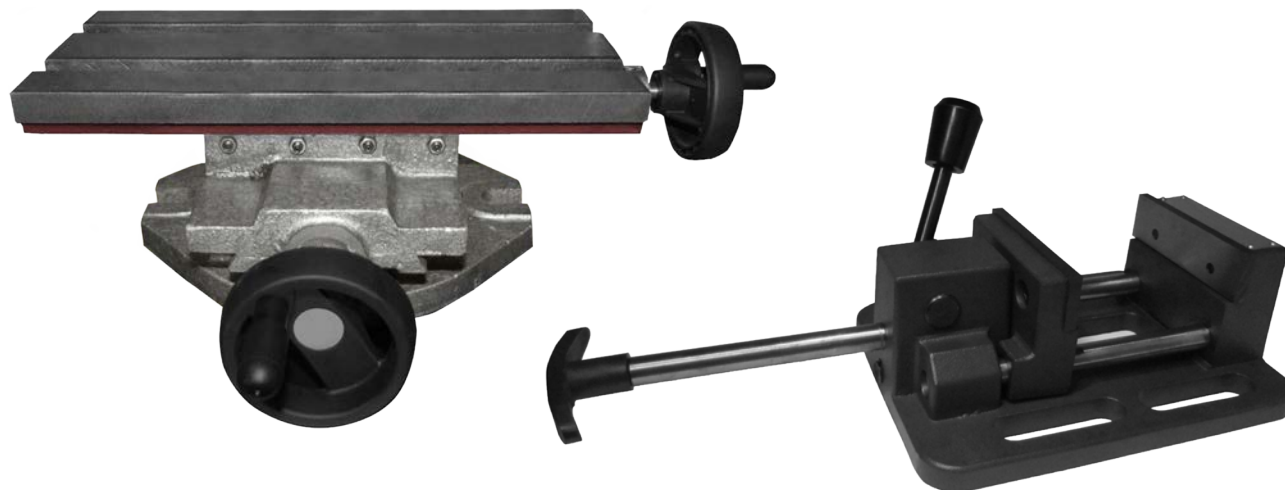
Jaw Width: 3"

Jaw Opening Capacity: 3"

Throat Depth: 1"

Orientation Type: Horizontal

Base Motion Type: Stationary



2" V Blocks

Overall Length: 2"

Overall Width: 1.5"

Overall Height: 1.5"

V Angle: 90°





FOCAL LENSES

Choosing the right lens for the job is very important. To get the best results, different lenses are used during laser engraving. The same way a camera uses different lenses for up close or distance shots.

Making a decision of the type of lens to use depends on some factors: the material being marked, the quality of the graphic being engraved, and the laser power. A shorter focal distance is used for more detailed graphics and smaller spot size, while a longer focal range gives you a larger marking field.

Depending on how you want the graphic applied, there are multiple focal lenses. If you want a smaller but deeper cut, the 100mm lens is best. At the other end of the spectrum you have the 440mm lens which will give you a larger marking field, but harder to achieve a deeper cut.

100mm

2" x 2" Marking Field

160mm

4.33" x 4.33" Marking Field

254mm

7" x 7" Marking Field

330mm

8.5" x 8.5" Marking Field

420mm

11.5" x 11.5" Marking Field

SCAN HEADS

2-AXIS SCAN HEAD (STANDARD)

Rugged IP-65 Package
10mm Apertures
Power Range of +/- 15 to +/- 24 VDC at 3A Max
XY2-100 16-Bit Digital or Analog Interface
Engineered for Low Cost and High Performance
Industry Standard 2 Bolt, 2 Pin Alignment
2 Galvo Directing Mirrors
Precise Laser Spot Size
Large Marking Field (Depending on Lens Size)



3-AXIS SCAN HEAD (UPGRADE)

External Adjustment for Field Sizes from 100-1000mm
Exclusive Focus & Variable Field Size Adjustment Design
Achieves Smaller Spot Sizes and Larger Field Sizes
Performs 3 Dimensional Process with Z-offset
Useful for Rapid Prototyping and Laser Sintering Applications
3 Galvo Directing Mirrors
More precise Laser Spot Size
Allows Larger Marking Field (No Lens Required)
For Projects exceeding 7" x 7" Marking Field achievable up to 3' x 3'!



Z-AXIS

POWER Z-AXIS

Z-Axis travels according to the up & down commands on the control panel.

Controlled by a rocker switch to jog Z-Axis up or down.
Simply align 2 laser dots to focus.

PROGRAMMABLE Z-AXIS

Z-Axis travels according to parameters set in the project file.

The software knows exactly where the Z-Axis is so you can set multiple heights in a simple program.

AUTO Z-AXIS

Z-Axis travels automatically depending on part size and location.

Place part in the marking field, hit the focus button and it automatically focuses to that part.
Great for automated cells with part distances that vary.



ROTARIES

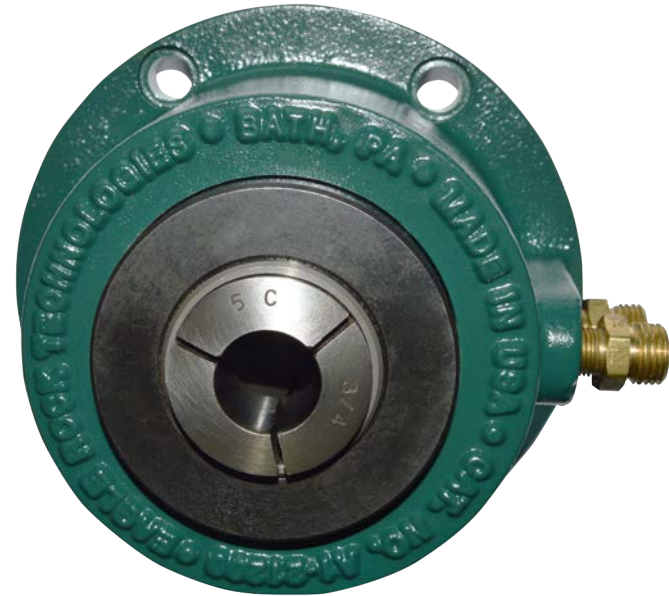


3-JAW AUTO CHUCK (PROGRAMMABLE)

The 3 jaw programmable auto chuck is air powered using a foot pedal. The excellent repeatability and 3 concentric jaws make it easier to accurately unload and load round parts. With the push of the foot pedal, load and unload parts. The jaws will automatically adjust and grip the diameter of part.

5C COLLET CHUCK

While the auto chuck uses the 3 jaw system, the 5C Collet Chuck uses a 5C Collet for smaller diameter round parts. The 5C Collet Chuck is able to use limited space to mount multiple fixtures, and has a 1 1/16" collet size max. Made of aluminum housing, it has two air ports (1/4"-18 straight pipe thread, male) and 4 mounting holes 3/8" diameter. The holding power is 7.5 times the air-line pressure.





3-JAW MANUAL CHUCK ***(PROGRAMMABLE)***

Programmable by software with a manual 3 jaw chuck. There is a 3/32" (2mm) to 1 1/2" (38mm) clamping range while its jaws are positioned normally. You can grip work up to 2 3/4" (70mm) while the jaws are in the reversed position. The chuck has a hole .687" (17mm). In order to quickly grip a hexagonal or round stock, simultaneously close all 3 jaws by rotating the knurled ring. For more leverage, tighten and loosen the chuck by using the tommy bars (provided) in the side holes.

***ALSO
AVAILABLE...***

3-JAW MANUAL CHUCK ***(PROGRAMMABLE)*** ***HEAVY DUTY***

Capable of holding an 80 lb. part!

FINANCING

We teamed up with Connex, a premier equipment financing company, to give you the best solution for your financing options.

Wondering if financing your equipment is the right move? Connex has helped many companies finance equipment in a variety of industries. A common question is, "Should I finance my equipment?" The answer is not always immediately apparent, since you likely have many business needs competing for your attention as you consider this decision. Your Connex Financing Expert, based on years of industry experience and financing expertise, can help you make a sound decision.

To help get you started, we have broken down the benefits of financing into cash flow and business categories...

Cash Flow Benefits:

Cash is the life blood of any business. Properly managing this crucial element is critical to the survival and growth of any business. Determining whether or not to finance equipment can have a big impact on cash flow. Cash flow benefits from equipment financing include the following:

- Low fixed monthly payments improve cash forecasting
- Bank lines are preserved
- Minimal fees and low to no money down
- Wide range of products allow monthly payments to match your business needs
- Bundled financing allows for soft costs like freight or installation to be rolled into your payment
- Competitive rates

Business Benefits:

Beyond the operational needs for cash, there are larger business needs to consider. Choosing the right equipment financing options suited to your business can complement your business plans and help achieve your business goals. Financing equipment can yield the following benefits:

- An additional credit reference and source is established
- Internal approval for financing may be obtained faster and easier
- Purchasing process is made easier
- Lien is only placed on equipment being financed

If you have already determined that an equipment lease or loan is right for you, there are many payment options available to consider. Knowing what options are available is one thing, but knowing which one is the best choice and then having the ability to design the right custom equipment financing solution takes industry knowledge, financing experience and an understanding of your specific business needs. Connex Financial Experts are uniquely qualified to do this for you.

Payment options:

- First Payment Deferments – Allows you to not pay, or defer, the first payment. This is helpful in a situation in which short term cash is tight.
- Skip, Step, Seasonal. Monthly, Quarterly, Semi-Annual & Annual Payments – Allows payment structure to follow your business. Works well with seasonal businesses that lease equipment, or those with staggered or inconsistent revenue streams.
- Direct Debit Payments – Allows for automatic payments, lessening the administrative burden.
- Early Termination and Buyout Options – Allows for flexibility down the road. Useful if future cash needs are unknown.
- FMV Purchase Options (with and without Not-to-Exceed Caps) – Offers risk reduction yet allows you to purchase equipment.

Equipment financing can include:

- Terms from 12 to 84 months (1 – 7 years)
- Soft costs included (freight, rigging, installation, startup)
- All types of manufacturing equipment

Not all of these options are available to everyone. Connex Finance Experts find funding sources and equipment lease and loan options available for you.

Who can finance:

- Commercial businesses, partnerships, sole proprietors, state and local government entities
- New businesses with owners who have solid personal credit
- Companies located in the United States and Canada

How Can I Help You?

Kevin Wright

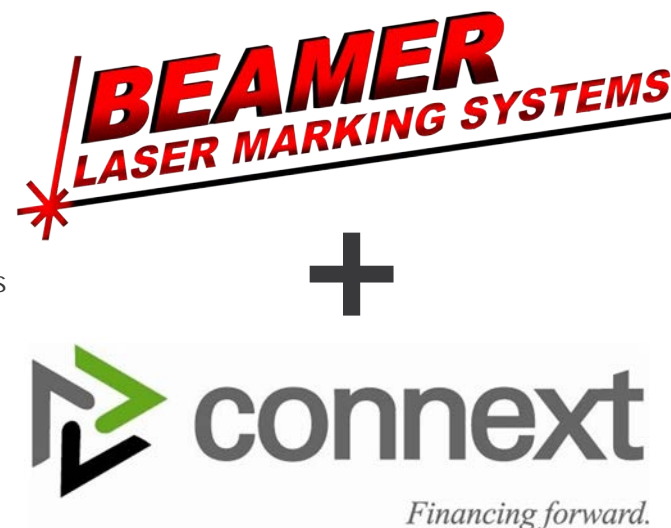
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CONTACT / SUPPORT



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info@**beamerlaser.com**



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7136 Sheridan Rd.
Flushing, MI 48433
United States

We're behind you every step of the way!

Setting ourselves apart from the rest is our continued commitment after the sale. Not only are you getting a Beamer, but a support team that will be with you in aid for the growth of your business!

2 YEAR WARRANTY

Problematic parts are completely covered.
On site assistance is also available.



DIRECT CONNECT

Rest assured knowing if any problem may arise, a Beamer Technician can access and fix your machine live directly over the web.

YOUR BEAMER WILL ALWAYS BE UP AND RUNNING!



Beamer Laser Marking Systems is committed to manufacturing high quality Laser Machines. The quality of our products, along with personal service, set us apart from the competition.

We are dedicated to keeping up with the latest technology and we continue to improve existing product lines, while developing new products.

7136 Sheridan Rd. Flushing, MI 48433

Call: **810-471-3044**

Fax: **810-515-7584**

info@**BEAMERLASER.COM**



HAVE YOU LEFT YOUR MARK?

