

# ***SYSTEM SHOWCASE***

**MODEL FB22 FIBER  
MADE IN THE USA**

**BEAMER**  
**LASER MARKING SYSTEMS**

# BL



**Lasers are our passion.** After nearly a decade in the making, 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

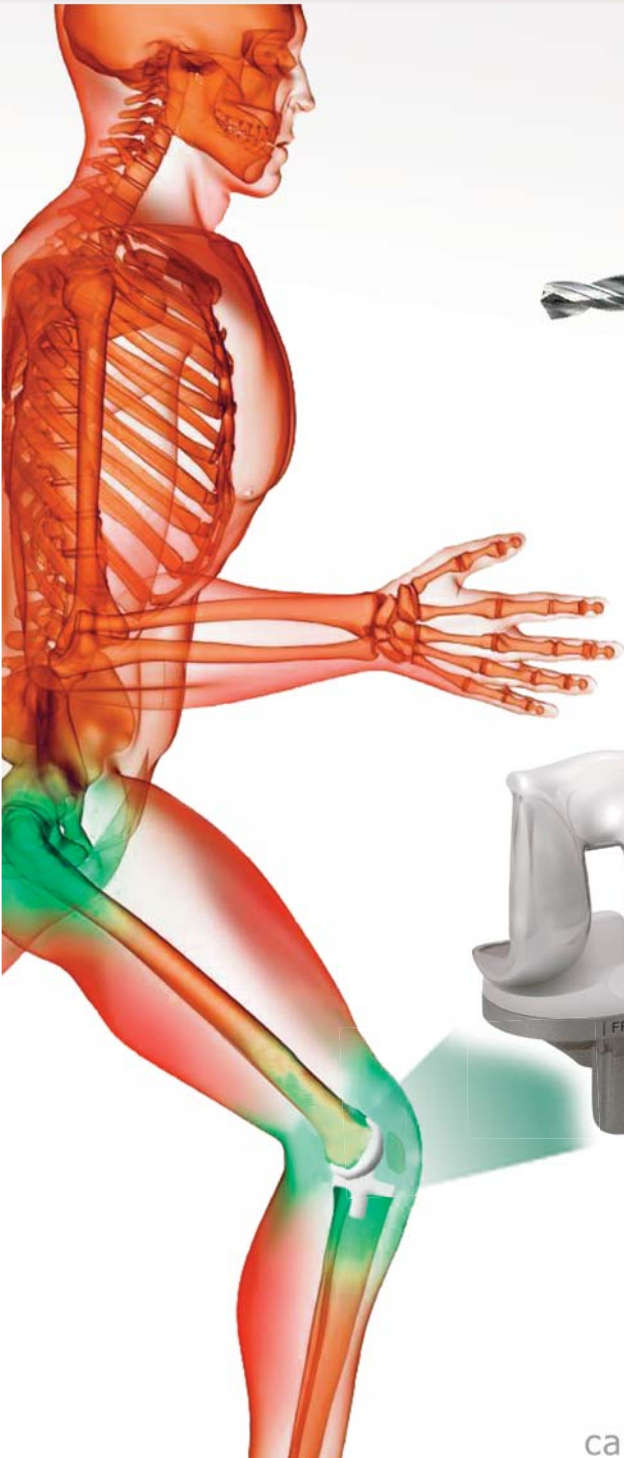


Our Fiber Lasers provide a wide choice of pulse durations, repetition rates and peak powers. These lasers deliver a high power 1064nm laser beam directly to the work site via a flexible metal-sheathed fiber cable. Collimated, and then typically focused to a spot size of a few microns or less, the near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



Model:	FB12	FB22	FB32	FB52
Average Power:	10 Watt	20 Watt	30 Watt	50 Watt
Wave Length:	1060-1070 nm	1060-1070 nm	1060-1070 nm	1060-1070 nm
Pulse Rep. Rate:	20-200 khz	20-200 khz	50-200 khz	50-200 khz
Beam Quality:	1.4 (M2)	< 5 (M2)	< 5 (M2)	< 5 (M2)



## ***THE POWER TO MARK EVERYTHING!***

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





# SOFTWARE / CONTROLS

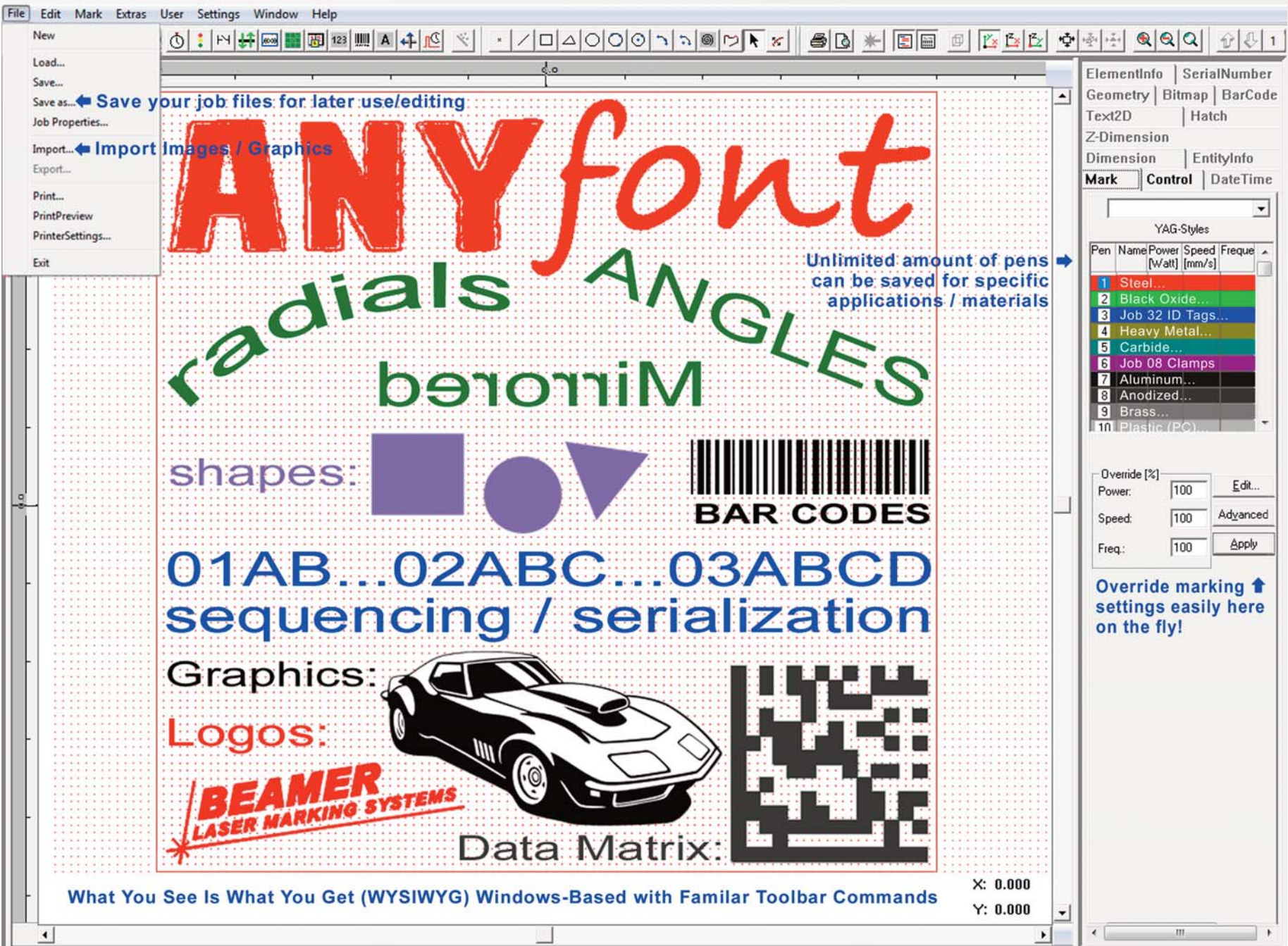
## *THE SOFTWARE TO MARK ANYTHING!*

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*









*Built with high strength powder coated square tubing & steel panels. Not plastic & 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: 66.5" x W: 32" x D: 28"      Opening: 24" x 28"**

# 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.*

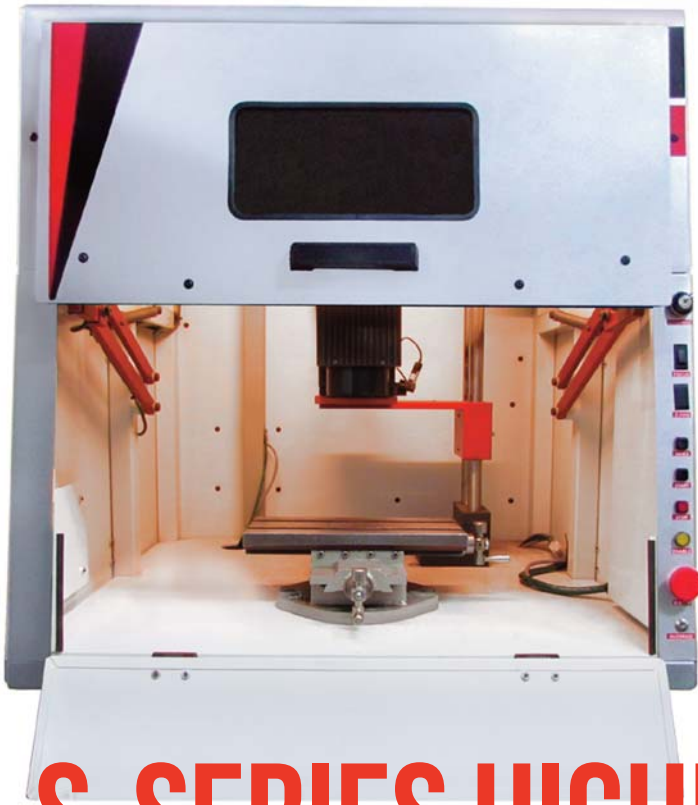
*Runs off standard 110 volts.  
Completely air cooled.*

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

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







- *User-friendly built in control panel in favorable location.*
- *The perfect size to fit any convenient area atop a bench, counter, etc.*
- *Smooth fast gliding dual doors increase production and precision with a safe work view window.*
- *Easy to remove side panels allowing larger parts to be marked.*
- *Runs off standard 110 volts. Completely air cooled.*

# S-SERIES HIGHLIGHTS

## ***The Capability to Automate Anything!***

A revolution table shown in this S-Series enables automatic feeding of parts during operation. Load/unload product while machining operations continue.

**See pg 15 for Additional Options**



# S-SERIES ENCLOSURE

All the same amenities as the B-Series Enclosure offered in a more compact design. It is the perfect size for a designated area such as a shipping room. Dual doors offer quick and precise part loading, while removable side panels allow larger parts to be marked as well. The PC rests outside of the enclosure in an area of your choice.  
(tower, monitor, keyboard and mouse included)

**H: 32.5" x W: 32" x D: 28"**  
**Opening: 24" x 28"**



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





*Built with high strength powder coated square tubing & steel panels.  
Not plastic & 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' 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: 66.5" x W: 42" x D: 40"    Opening: 24" x 38"**



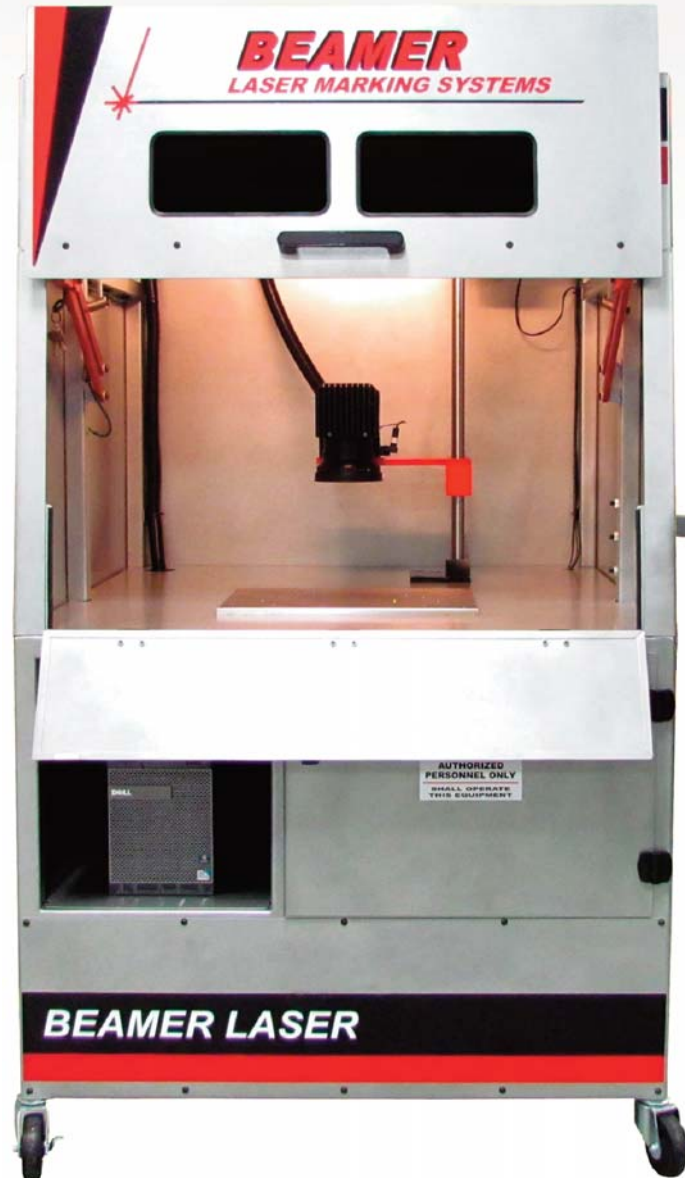
# L-SERIES HIGHLIGHTS

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

***Can accommodate up to a 3' part with the side panels attached.***

*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!*

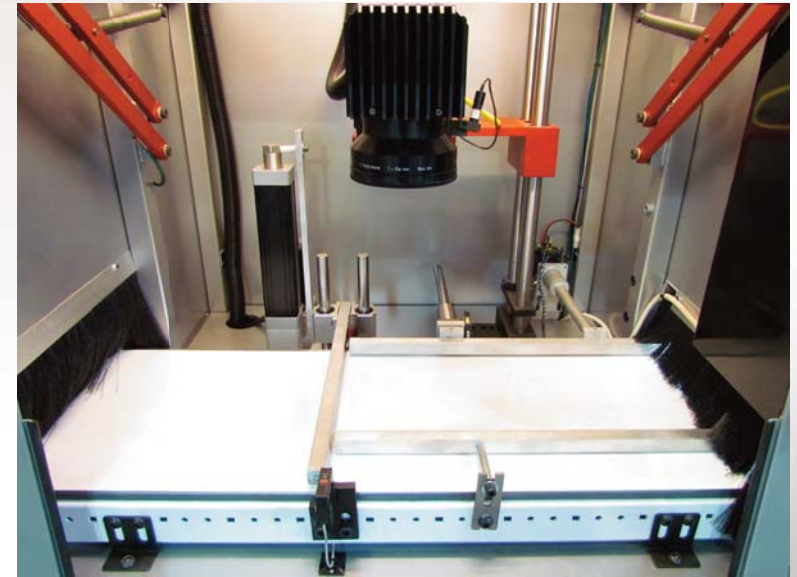
# C-SERIES HIGHLIGHTS

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 ENCLOSURE

**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.



# PACKAGE OPTIONS

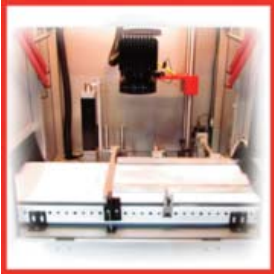
Contact us for pricing:  
call: 810-471-3044  
info@beamerlaser.com



	Tool Package	254mm Focal Lens	Programmable Z-Axis	3-Jaw Auto Chuck	
<b>Engineering Package</b>	✓	✓			<b>10% discount</b> compared to buying options separately
<b>Precision Package</b>	✓	✓	✓		<b>15% discount</b> compared to buying options separately
<b>Designer Package</b>	✓	✓	✓	✓	<b>20% discount</b> compared to buying options separately

**GET THE *OPTIONS* YOU NEED, IN A PACKAGE FOR LESS**

# ADDITIONAL OPTIONS



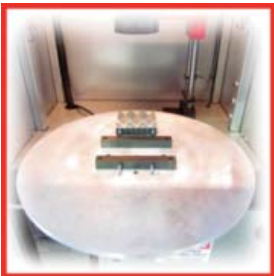
## ***Conveyors & Belts***

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.



## ***Revolution Tables***

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



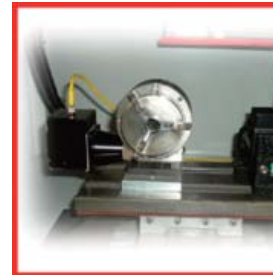
## ***Programmable XY Tables***

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



## ***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.



## ***Programmable Rotaries***

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



## ***Custom Trays & Fixtures***

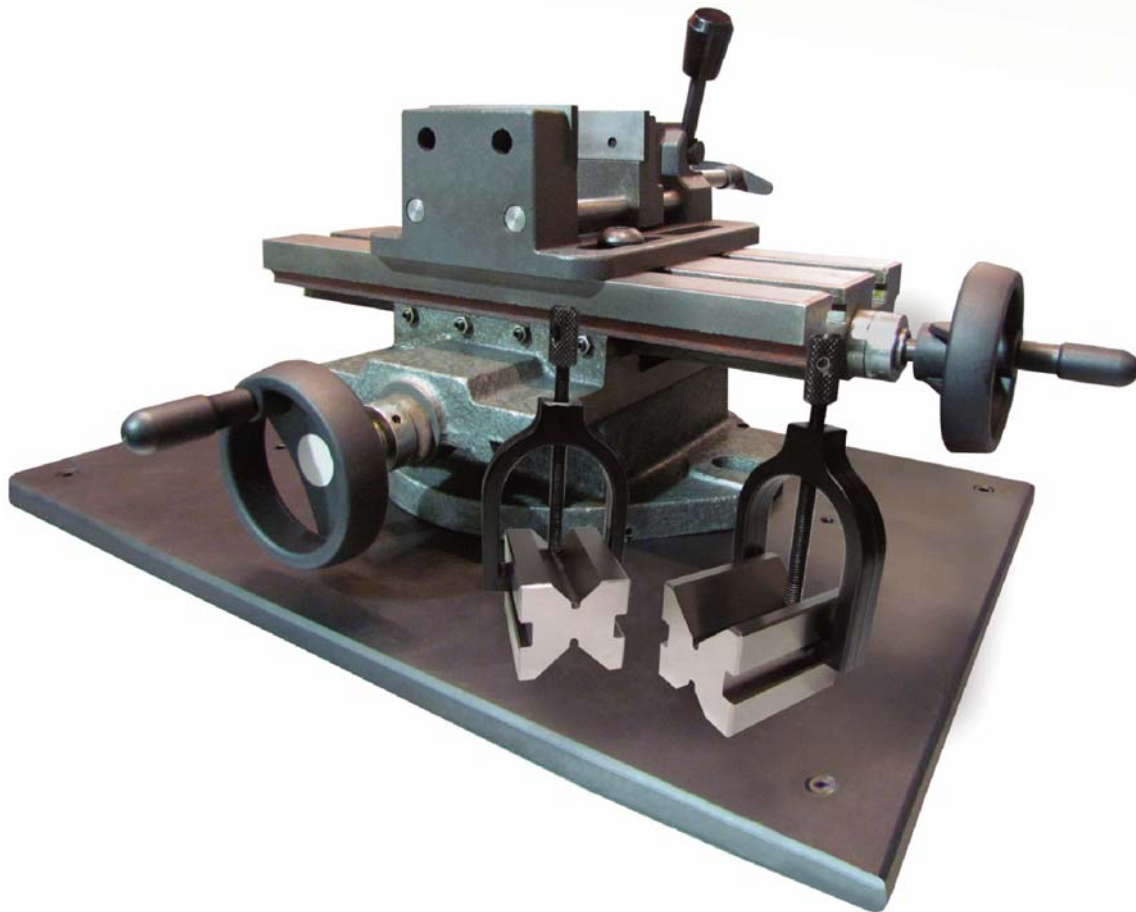
Mark multiple parts in one working area with arrayed characteristics. Faster changeover with swapping of the trays.



## ***Auto Doors***

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

# TOOL PACK



## Manual XY Table

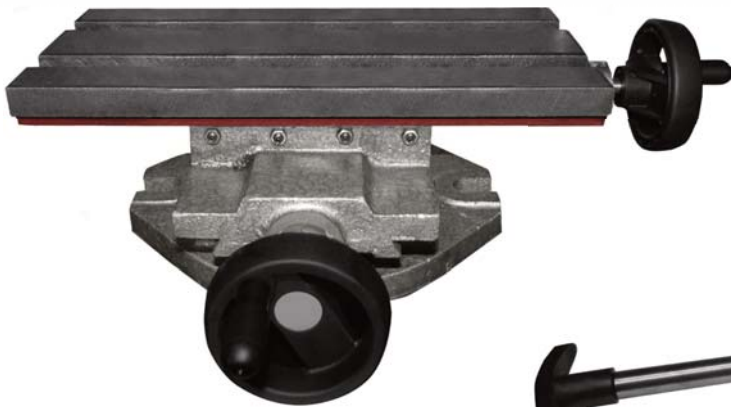
Table Length: 12"  
Table Width: 5.5"  
Overall Height: 4.5"  
Cross Travel: 5"  
Longitudinal Travel: 8"

## 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

**440mm**

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.



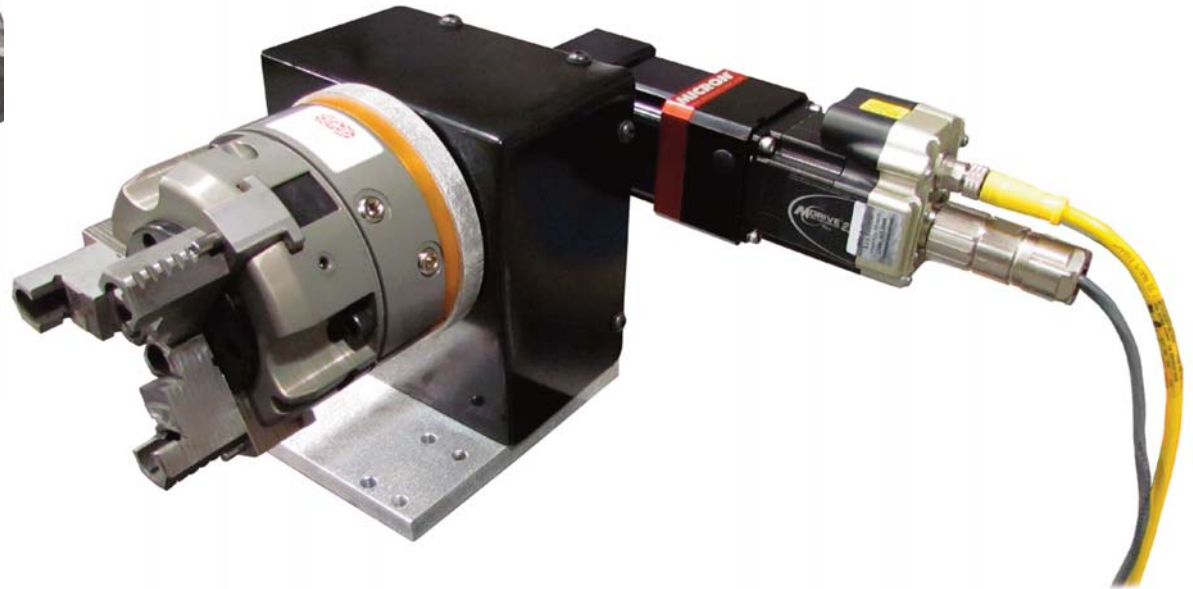


# ROTARIES



## **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.

## **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 Financial 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

Regional Vice President  
Connex Financial

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Cell: **502-552-4149**  
Fax: **888-271-1765**  
[kwright@connexfinancial.com](mailto:kwright@connexfinancial.com)



# CONTACT / SUPPORT



call: **810-471-3044**



info@[beamerlaser.com](mailto:info@beamerlaser.com)



fax: **810-515-7584**



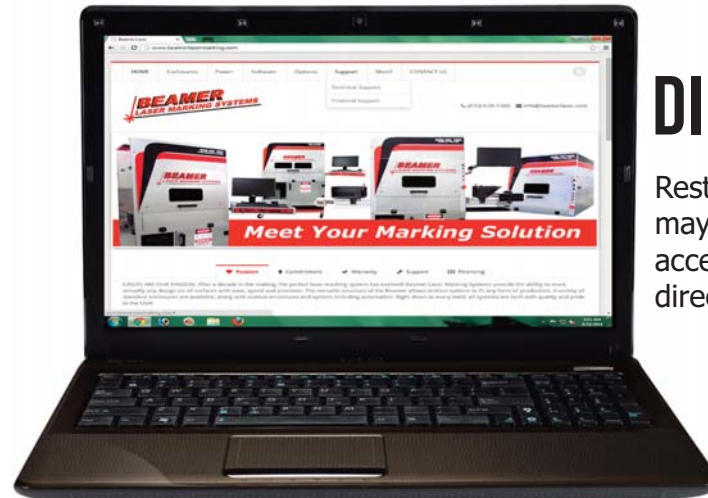
7136 Sheridan Rd.  
Flushing, MI 48433  
United States

## 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!





7136 Sheridan Rd. Flushing, MI 48433

Call: **810-471-3044**

Fax: **810-515-7584**

info@**BEAMERLASER.COM**



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**BEAMER**  
**LASER MARKING SYSTEMS**

*HAVE YOU LEFT YOUR MARK?*