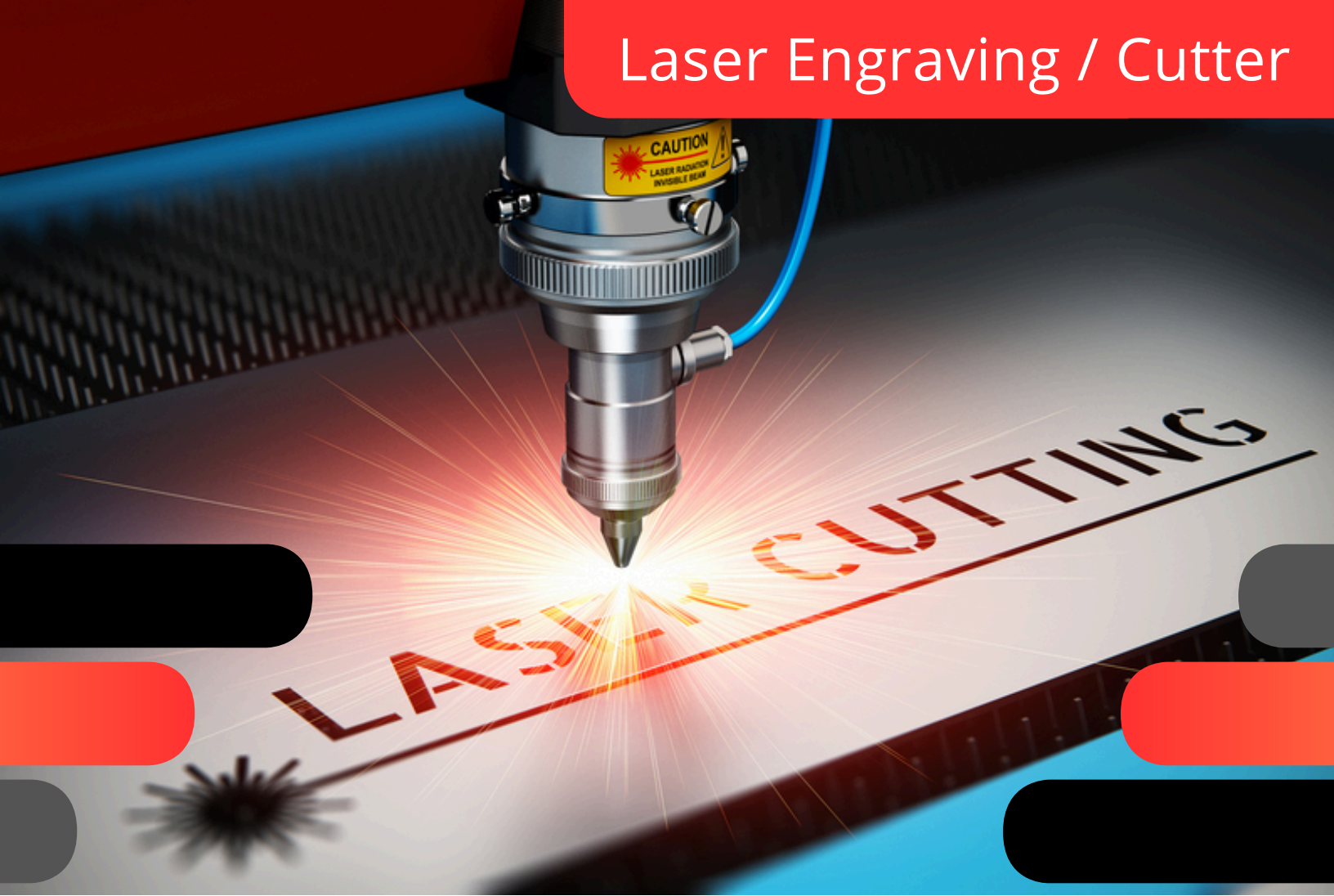


Laser Engraving / Cutter



CATT

Career and Technical Training, LLC

Experience the Power of the Laser



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How to Contact Us:

Call Us:

(970)686-0379

Customer Service is available from 8:00AM - 5:00PM MST, Monday through Friday. Our office is available to you from the initial planning stage through installation and for anything in between.

Send Your Request:

jslupe@catt-llc.com

Our sales team can be contacted through this email address for requesting quotes, shipping, order processing instructions as well as purchase order information.

Visit Our Website:

www.catt-llc.com

Our website is continually being updated to better serve your needs and to make product information easier to find. You'll find product specifications, images, and much more.

Call Us Direct
We Will Help You
Locate Your Local Dealer

CATT

About CATT llc...

- We market to a diverse customer base offering storage and work place solutions for industry, education, government, and healthcare. With over 5000 furniture and training equipment related products, we offer solutions that other companies cannot. From welding and cosmetology labs to modular storage cabinets and automotive workstations, we have the products to meet your requirements.
- Our company has been family owned and operated for over 20 years with a dedicated team of industry professionals. Our commitment to our customers through service and product quality is a symbol of pride throughout our organization.
- Military training facilities, public educational schools, technical/vocational training centers, and leading auto engine manufacturing plants are all examples of where CATT products are relied upon across the country.



In the rapidly evolving business world, you need a laser engravers / cutters that puts you ahead of the competition.

In today's dynamic business landscape, a laser engraver/cutter offers a powerful edge, allowing you to outpace the competition through several key avenues. Firstly, it revolutionizes your product offerings. The ability to personalize and customize products caters to a high-demand market segment. From personalized gifts and awards to bespoke promotional items, this capability distinguishes you from businesses offering generic goods. Customers crave unique items, and laser engraving/cutting empowers you to meet that demand, attracting a wider customer base and fostering brand loyalty. Furthermore, these machines drastically accelerate prototyping and product development. Bringing design concepts to life quickly, testing them, and implementing changes efficiently shortens your time to market. This agility allows you to introduce new products faster than competitors relying on traditional methods, giving you a crucial first-mover advantage.

Beyond product innovation, a laser engraver/cutter significantly enhances operational efficiency and expands market reach. While the initial investment can be substantial, the long-term benefits are undeniable. Precise cutting and engraving minimize material waste and reduce the need for manual labor, leading to lower production costs and improved profit margins. This streamlined production process also allows for greater flexibility and versatility. Working with a wide array of materials, from wood and acrylic to glass, leather, and even certain metals, enables you to diversify your product line and respond swiftly to evolving market trends. This versatility opens doors to niche markets and specialized products, allowing you to target specific customer segments with tailored offerings. Online marketplaces and e-commerce platforms further amplify this reach, connecting you with a broader audience eager for unique and personalized items.

Finally, investing in a laser engraver/cutter translates to improved product quality, enhanced brand image, and a stronger competitive position. The precision of laser technology delivers exceptional detail and clean cuts, resulting in high-quality products that stand out. This level of quality reinforces your brand's commitment to excellence and can justify premium pricing. Offering customized products and showcasing high-quality engravings elevates your brand image, communicating attention to detail and customer satisfaction. Ultimately, by providing unique, personalized products with faster turnaround times and superior quality, you gain a significant competitive advantage. This translates to increased sales, stronger customer loyalty, and sustained business growth. A laser engraver/cutter is not merely a tool; it's a strategic investment in your business's future, empowering you to innovate, differentiate, and thrive in a competitive world.

Which laser router is Best for You?

Identifying your unique requirements within the entire design-to-manufacture process will help you select the best laser routers technology and optimize its benefits.

Laser Applications

WOOD

Lasers can process many different types of wood, allowing you to design new products for a wide variety of industries.

- Arts and Crafts
- Architectural Models
- Decorations
- Furniture
- Classroom Application
- Gift Items
- Interior Design
- School Supplies
- Shop Fitting
- Toys



Glass and Ceramics

Create beautiful laser engraving and etching on glass and ceramic. Laser etched glass produces a stunning matte effect. Very fine contours and details can be etched into glass and ceramic. Personalized gifts for parties or various events are memorable and make laser-engraved glass and ceramics truly unique.



Plastics and Acrylic

Acrylic is ideal for laser processing projects and can be engraved to create a matted finish or marked to create a color change.

- Advertising Technology
- Digital Printing
- Shop and Exhibition
- Stand Construction
- Architectural Model Construction
- Classroom Applications
- Displays
- POS Materials
- Outdoor and Indoor Signs
- Acrylic Trophies



Metal

Laser marking and laser engraving are extremely accurate and clean ways to process metal. Etching and engraving with the laser are contact-free processes, so the surface is not damaged. Laser markings are durable, last a lifetime, and resistant against wear and tear, UV, heat, cold, chemicals, and alcohol, making them an ideal mark. High resolution markings such as serial numbers, codes, and logos can be applied with precision on many products, so that even the smallest markings will be clearly legible with minimal effort.

- Electronics and Electrical Industry
- Mechanical Engineering
- Tool Manufacturing
- Sheet Metal Processing
- Classroom Applications
- Medical Technologies
- Promotional Materials
- Jewelry
- Automotive Industry
- Custom Firearm Making



Stone

Carving on stone, granite or marble offers incredible possibilities. Laser engraving on stone is particularly effective with dark, polished, natural stones like granite, marble, and basalt. The more homogeneous and fine-grained the stone is, the better the stone engraving results will be.

- Arts and Crafts
- Decorations
- Design
- Gift Items
- Stone Tiles
- Headstones



Textiles and Leather

Cutting fabrics, textiles, and leather to size can be done with both efficiency and ease. Laser processing your materials can provide both a tactile effect and unparalleled high-quality finish.

- Arts and Crafts
- Automotive Industries
- Clothing
- Decorations
- Designs
- Curtains / Drapes
- Belts, Shoes, Purses, Wallets
- Accessories
- Office Products





CATT

In 2009, Afinia 3D was founded to offer specialty printing solutions with best-in-class support, and at an accessible price. Vice President John Westrum explains, "We saw some basic 3D printers geared towards consumers, but they were hard to use. Also, the customer support was basically non-existent. We decided to come out with a high-quality, low-cost printer, and use what we learned from our duplication business to provide a level of customer support and ease of use that's not matched by any other company in the space." We now have an excellent reputation among the education, engineering, and hobbyist markets for our reliable, accurate, and easy-to-use 3D printers and laser cutters.



shown with optional accessories

AFINIA: 40W & 60W EMBLASER PRO LASER CUTTER

The large capacity bed allows materials as large as approximately 20 x 12.6 x 2.3 inches in size to be cut or engraved. The installed Air-Assist prevents scorching during cutting and engraving. The Emblaser Pro has an incredibly accurate onboard camera allowing for an easy alignment of materials. The Emblaser Pro comes with USB and Wifi connectivity and operates with LightBurn software for PC or Mac. Once the job is started, the computer can be disconnected from the Emblaser Pro.

Key Features

- **Laser Technology:** Solid-State Diode, Blue Spectrum
- **Beam Spot Size:** 0.12mm (0.005")
- **Cooling:** Internally Liquid Cooled. No external equipment required.
- **Focusing:** Automatic
- **Laser Height Control:** Automatic with detect
- **Workspace Camera:** Super high resolution
- **Air-Assist System:** Internal air-assist system for amazingly clean cuts
- **Fume Extraction:** Built in, Exhaust hose included

SO MANY MATERIALS

- | | |
|------------|------------------------|
| • Plywood | • MDF |
| • Card | • Acrylic |
| • Fabric | • Plastics |
| • Hardwood | • Veneer |
| • Metals | • Felt |
| • Leather | • Corrugated Cardboard |





shown with optional accessories



Universal: Ultra X6000 Midsize Ultra Model

The ULTRA X6000 is a high-precision laser material processing system designed for demanding and complex applications in manufacturing, prototyping, and research and development environments. It delivers a higher degree of accuracy, repeatability, and efficiency than other methods available today as well as offers an extensive set of advanced features and capabilities to achieve impeccable quality on the broadest range of materials. The ULTRA X6000 laser system addresses virtually any material challenge in one system.

Key Features

- **Super Speed**
- **Controllable Laser Power Density**
- **Dynamic Energy Stabilization**
- **True Position Laser Pulsing:** optimal laser pulse placement driven by positional feedback from synchronized multi-axis encoders.
- **Precision Material Independent Autofocus**
- **Rapid Reconfiguration:** enables users to install and reinstall any supported ULS CO2 laser source onto any ULS laser system without tools to optimize laser processing for the widest variety of materials
- **Multi-Wave Hybrid Technology:** enables a combination of laser wavelengths (up to three wavelengths) to be focused to the same focal point within the same focal plane

External Dimensions:

Width: 63.09 in with Control Panel folded

87.75 in with Control Panel extended

Depth: 50.07 in

Height: 47.67 in to top of enclosure

74.42 in to top of Light Tower

Material Processing Envelope: 36 x 24 x 12 in

Weight: 250 kg (550 lbs.)

Power Requirements: 220V-240V/20A

Windings Motor Inc.

Motor ID No.	987456-21g	
Net Weight:	34	lbs.
Lot #:	1246843939-23e	
Date:	May 5, 2006	

VOLTAGES		
bn	105	% V
bu	102.5	% V
wh	100	% V
bk	97.5	% V
gy	95	% V

POSITION	
bn	105
bu	102.5
wh	100
bk	97.5
gy	95

WMI 24D-162 MOTOR



shown with optional accessories

Universal: Ultra R9000 largest Ultra Model

The ULTRA R9000 is the largest laser system in the ULTRA series with a 48 in x 24 in (1219 mm x 610 mm) material processing area. The ULTRA R9000 can be configured in a CO₂ only configuration (10.6 or 9.3 μ m) or a multiple wavelength configuration (CO₂ and fiber). A maximum of 300 watts of laser power is supported in a CO₂ only configuration. A maximum of 150 watts CO₂ and 50 watts fiber is supported in a multiple wavelength configuration.

Key Features

- **Super Speed**
- **Controllable Laser Power Density**
- **Dynamic Energy Stabilization**
- **Line Segment Reduction**
- **Precision Material Independent Autofocus**
- **Design File Geometry Preservation:** A feature that maintains curves in a design file
- **Rapid Reconfiguration**
- **Kerf Compensation:** adjustable control that compensates for material width removed during laser cutting in order to achieve desired dimensions



External Dimensions:

Width: 71 in without Control Panel folded

Depth: 46.32 in

Height: 48 in to top of enclosure e-stop

Material Processing Envelope: 48 x 24 x 12 in

Weight: 500 lbs

Power Requirements: 220V-240V/16A



shown with optional accessories

Universal: Ultra R5000 Smallest Ultra Model

The ULTRA R5000 offers a 32 in x 24 in (813 mm x 610 mm) material processing area. It can be configured in a CO2 only configuration (10.6 or 9.3 μm) or a multiple wavelength configuration (CO2 and fiber). A maximum of 150 watts of laser power is supported in a CO2 only configuration. A maximum of 150 watts CO2 and 50 watts fiber is supported in a multiple wavelength configuration.

Key Features

- **Rapid Configuration**
- **Super Speed Technology**
- **Gas Assist**
- **Line Segment Reduction**
- **Precision Material Independent Autofocus**
- **Design File Geometry Preservation:** A feature that maintains curves in a design file
- **Kerf Compensation:** adjustable control that compensates for material width removed during laser cutting in order to achieve desired dimensions

External Dimensions:

Width: 55 in without Control Panel folded

Depth: 46.32 in

Height: 48 in to top of enclosure e-stop

Material Processing Envelope: 32 x 24 x 12 in

Weight: 400 lbs

Power Requirements: 220V-240V/16A

Various Color-waves:

- **Red**
- **Blue**
- **Green**
- **Yellow**
- **Orange**
- **Black**



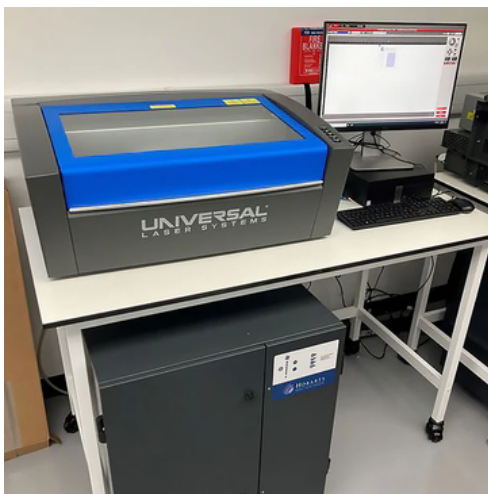
shown with optional accessories

Universal: VLS3.60DT Platform

The VLS Desktop Series are compact and economical entry level laser systems. The series includes the VLS2.30DT and VLS3.60DT. The VLS3.60DT offers a 24 x 12 in (610 x 305 mm) material processing area and CO2 laser power from 10 to 60 watts 10.6 μm or 30 or 50 watt 9.3 μm . The VLS2.30DT offers a 16 x 12 in (406 x 305 mm) material processing area and CO2 laser power from 10 to 30 watts 10.6 μm or 30 watts 9.3 μm .

Key Features

- **SuperSpeed Technology**
- **High Reliability Digital Motors**
- **Laminated Safety Glass**
- **Over-Temp Alert (for fire safety)**
- **Supports material thickness up to 12 in. (305 mm)**
- **Intelligent Laser Energy Management Engine**
- **Supports two laser sources** - up to two CO2 laser sources or one CO2 laser source and one permanently mounted fiber laser source



External Dimensions:

Width: 26 in

Depth: 25 in

Height: 14 in

Material Processing Envelope: 24 x 12 in

Weight: 95 lbs

Power Requirements: 110V/10A; 220V-240V/16A



shown with optional accessories

Universal: VLS3.75 Platform Smallest VLS Model

The VLS Platform Series are free-standing laser systems. The series includes the VLS3.75, VLS 4.75 and VLS6.75. All VLS Platform Series systems offer CO2 laser power from 10 to 75 watts 10.6 μm or 30, 50 or 75 watt 9.3 μm . The VLS6.75 offers a 32 x 18 in (813 x 457 mm) material processing area, the VLS4.75 offers 24 x 18 in (610 x 457 mm) and the VLS3.75 offers 24 x 12 in (610 x 305 mm).

Key Features

- **SuperSpeed Technology**
- **High Reliability Digital Motors**
- **Air-Cooled Laser Source**
- **Laser Pointer / Laser Fan Control**
- **Over-Temp Alert (for fire safety)**
- **HPDFOTM (High Power Density Focusing Optics):** This patented optical assembly allows the laser beam to be focused to a much smaller spot, making it possible to engrave smaller text and produce sharper images at tighter tolerances. Optional. Intelligent Laser Energy Management Engine

External Dimensions:

Width: 36 in

Depth: 30 in

Height: 38 in

Material Processing Envelope: 24 x 12 in

Weight: 235 lbs

Power Requirements: 110V/10A; 220V-240V/5A





shown with optional accessories



Universal: VLS4.75 Platform Mid-Size VLS Model

The VLS Platform Series are free-standing laser systems. The series includes the VLS3.75, VLS 4.75 and VLS6.75. All VLS Platform Series systems offer CO2 laser power from 10 to 75 watts 10.6 μm or 30, 50 or 75 watt 9.3 μm . The VLS4.75 is a free-standing platform with a materials processing area of 24 x 18 in (610 x 475 mm). It offers laser power from 10 to 75 watts 10.6 μm or 30, 50 or 75 watts 9.3 μm .

Key Features

- **SuperSpeed Technology**
- **High Reliability Digital Motors**
- **Air-Cooled Laser Source**
- **Laser Pointer / Laser Fan Control**
- **Over-Temp Alert (for fire safety)**
- **1-Touch Laser Photo** - Our popular software package that makes it quick and easy to reproduce stunning photographic images on nearly any material.



External Dimensions:

Width: 36 in.

Depth: 36 in

Height: 39 in

Material Processing Envelope: 24 x 18 in

Weight: 270 lbs

Power Requirements: 110V/10A; 220V-240V/5A



shown with optional accessories



Universal: VLS6.75 Platform Largest VLS Model

The VLS Platform Series are free-standing laser systems. The series includes the VLS3.75, VLS 4.75 and VLS6.75. All VLS Platform Series systems offer CO2 laser power from 10 to 75 watts 10.6 μm or 30, 50 or 75 watt 9.3 μm . The VLS6.75 is a free-standing platform with a material processing area of 32 x 18 in (813 x 475 mm). It offers laser power from 10 to 75 watts 10.6 μm or 30, 50 or 75 watts 9.3 μm .

Key Features

- **SuperSpeed Technology**
- **High Reliability Digital Motors**
- **Air-Cooled Laser Source**
- **Laser Pointer / Laser Fan Control**
- **Over-Temp Alert (for fire safety)**
- **Laser Sources:** Our patented, metal core, air-cooled, free-space slab, CO2 lasers produce excellent beam quality with even power distribution, good near-field and far-field characteristics and long life.

External Dimensions:

Width: 44 in

Depth: 36 in

Height: 39 in

Material Processing Envelope: 32 x 18 in

Weight: 325 lbs

Power Requirements: 110V/10A; 220V-240V/5A





shown with optional accessories



Universal: PLS6.150D Platform

The PLS6.150D laser system is a free-standing platform offering a 32 x 18 in (813 x 457 mm) material processing area and laser power up to 150 watts with dual 10.6 μm CO₂ lasers. 30, 50, and 75 watt 9.3 μm lasers are also available. The PLS6.150D is available with optional patented SuperSpeed™ technology using a dual laser configuration, pulsing the beams independently, making it possible for 2 lines of raster image to be engraved or marked simultaneously. This enables laser marking and engraving in half the time and vector cutting with higher power.

Key Features

- **SuperSpeed Technology**
- **High Reliability Digital Motors**
- **LCD Display**
- **Laser Pointer / Laser Fan Control**
- **Over-Temp Alert (for fire safety)**
- **Patented Pre-Aligned Laser Sources:**

Laser sources are pre-aligned at the factory and do not need to be internally realigned.

External Dimensions:

Width: 44 in

Depth: 36 in

Height: 39 in

Material Processing Envelope: 32 x 18 in

Weight: 345 lbs

Power Requirements: 220V-240V/15A





Forest Scientific: Fiber Laser Pro

A fraction of the price of most fiber lasers that can **only engrave metal**. Downdraft grid table and ports to exhaust fumes outside or to a filtration system. Depending on the operation and material compressed air, argon, O2 or N2 may be used. Automatic torch height and automatic voltage detection. Fiber laser 240V 1PH models cut up to 16mm steel to 6mm aluminum varied by shininess.

Model Number	Travel		Plasma	2K Fiber Laser Pro
Plaser CRP2418	24" x 18" Y	610mm x 460 mm	\$39,999	\$99,999
Plaser CRP3618	36" x 18" Y	920mm x 460mm	\$49,999	\$109,999
Plaser CRP48X18	48" x 18" Y	1200mm x 460mm	\$59,999	\$119,999
Plaser CRP48X24	48" x 24"	1200mm x 609mm	\$69,999	\$129,999

Y

KEY FEATURES:

- **Cut:**
 - Steel
 - Aluminum
 - Copper
 - Brass
- **Fully Enclosed:** Perfect for an Engineering Lab
- **Run in a clean room**
- **Cut steel faster than a waterjet with lower operational cost**

Contact us for
More
Information!



CATT

Fiber laser cleaners are increasingly important due to their precision and selectivity in removing contaminants without damaging the underlying material. Their efficiency and speed, coupled with non-contact cleaning, minimize downtime and eliminate the risk of surface damage. Environmentally friendly, they avoid harsh chemicals, and while the initial investment can be higher, they offer long-term cost savings by reducing consumables and labor. Versatile and effective on various materials, fiber laser cleaners find applications across manufacturing, aerospace, automotive, and restoration, improving quality, productivity, and sustainability.

Fiber Laser Cleaner



Forest Scientific: Fiber Laser Cleaner

The Fiber Laser Cleaner is an essential tool for anyone in welding, fabrication, or auto body work, efficiently removing rust, paint, and contaminants from metal surfaces, making it ideal for restoring old scrap metal and preparing surfaces for plasma cutting.

KEY FEATURES:

- Easily remove rust or paint.
- Remove rust from tools.
- Make old scrap metal usable.
- Anyone with a plasma cutter that needs to use metals contaminated with rust, paint, or oils needs this cleaner.
- Ideal for welding and fabrication, AG, auto body, and more.



Contact us for
More
Information!

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Quality • Durability • Service



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