

LONE STAR

CUTTING SOLUTIONS

Laser Product Line

Precision | Innovation | Excellence

Explore our range of cutting-edge CNC Laser machines designed for every industry



www.lonestarcuttingsolutions.com

LONE★STAR

CUTTING SOLUTIONS

Since 2001, we have been proud to manufacture state-of-the-art CNC plasma, waterjet, router, and pipe cutting machines, establishing ourselves as a trusted leader in precision cutting technology.

Based in Mineola, TX, our company has built a solid reputation for providing high-performance machines tailored to the needs of industries worldwide.

In addition to our cutting-edge plasma, waterjet, router, and pipe cutting solutions, we are excited to present our extensive line of CNC laser machines. Our products are designed with the highest standards of quality, durability, and innovation in mind, ensuring that our customers receive the most efficient and reliable equipment available in the industry.

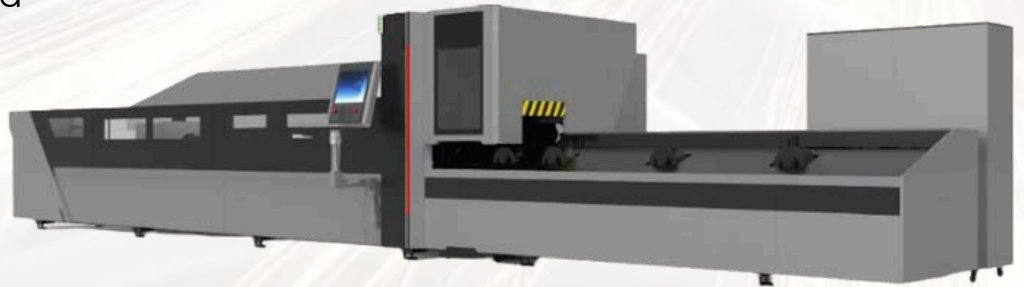


Unlock the Benefits of Laser Tube Cutting

Our laser tube cutting machines provide you with unparalleled advantages in tube fabrication. By harnessing the power of lasers, you can streamline your production processes and expand your range of producible parts. Eliminate time-consuming process steps and witness significant improvements in efficiency.

Machine Features

- Semi-automatic or Fully Automatic loader available
- Bundle capabilities available
- Customizable outfeed length



Machine Specifications

- Capability to perform 45° bevel cuts for precision and versatility
- Maximum Round Tube Diameter: 16 inch
- Maximum Square Tube Diameter: 10 inch
- Compatible Material Types: Round pipe & tube, square and rectangular tube, angle, channel, and more
- Standard Material Processing Length: 20, 24, and 42 feet Custom Lengths available
- X/Y Positioning Accuracy: +/- 0.001 inches

The Lightning 510 DS is a Fiber laser cutting machine that is professionally used in metal processing, aerospace, electronic appliances and other manufacturing industries.

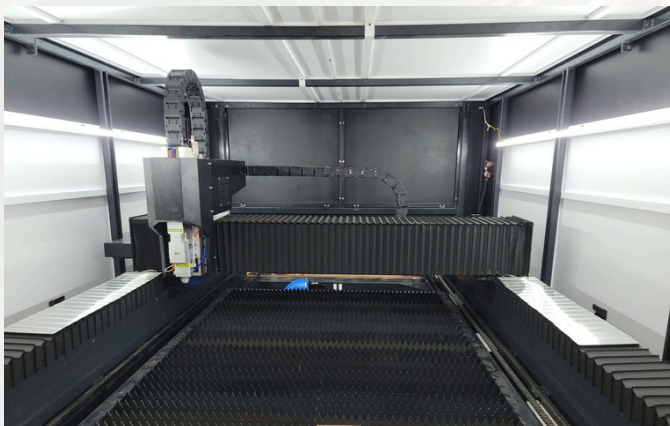


Machine Specifications

- Rigid aviation grade Aluminum Gantry
- Integrated camera system for inside viewing of enclosure
- Over 6" of standard clearance between bed and gantry
- Rack and Pinion drive on X/Y axis
- Fully enclosed cable track system
- Precision Linear guides on all axes
- Hand Controller is standard for easy operation
- Laser Power 1000W - 30000W
- Positioning Speed 4700 ipm

Moving System

- The maximum acceleration can reach 0.8G which effectively improves the customer's production efficiency.
- Schneider electronic drives & Yaskawa motors and servos.
- MOTORVARIO reducer & Rack

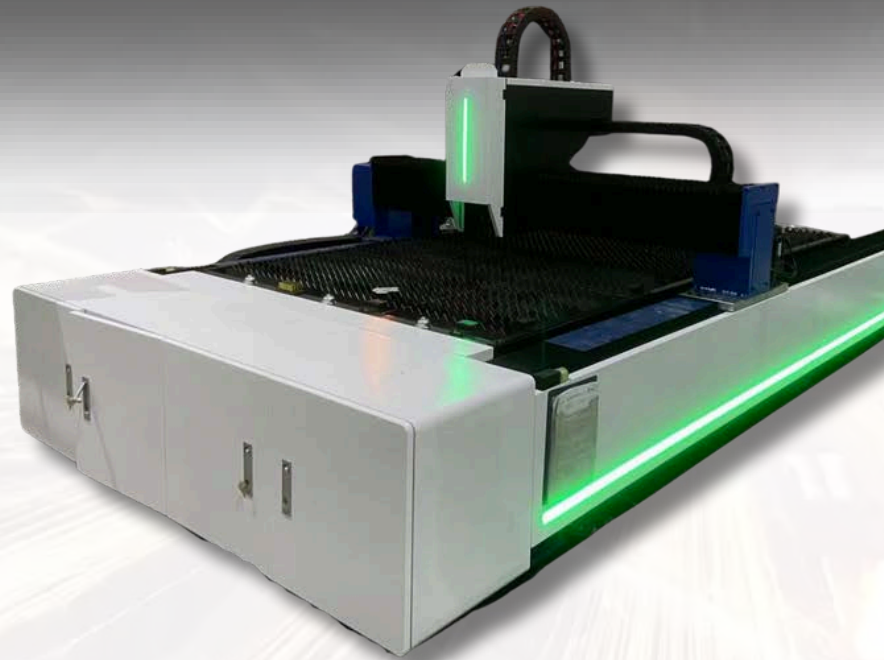


The Lightning510 Fiber laser cutting machine is a laser cutting machine that is professionally used in metal processing, aerospace, electronic appliances and other manufacturing industries.

Laser Safety Barrier



- Foldable, for ease of storage
- Light weight and wheeled, for maximum mobility
- Unique, 360 degree light-tight hinge technology
- Certified laser safety barrier panels (M5P06)



Machine Specifications

- Rigid aviation grade Aluminum Gantry
- Over 6" of standard clearance between bed and gantry
- Rack and Pinion drive on X/Y axis
- Fully enclosed cable track system
- Precision Linear guides on all axes
- Hand Controller is standard for easy operation
- Laser Power 1000W - 6000W
- Positioning Speed 2345 ipm

The Lightning 44 is a fully enclosed fiber laser machine, both compact and powerful. This model can easily cut through a variety of metals, including but not limited to stainless steel, brass, and aluminum.



Designed with convenience and ease of use in mind, the Lightning 44 has a user-friendly control panel and intuitive software that is easy to navigate. Additionally, its low power consumption and minimal maintenance requirements make it a cost-effective option for any jewelry or artwork cutting needs.



Processing Size 49.2in x 49.2in

Machine Specifications

- High precision linear guide with high repeated positioning accuracy, less wearing and stable performance.
- ECAT/Ahead Techs CNC controller based on EtherCAT protocol. Friendly HMI with high flexibility and easy expanding.
- Raytools laser cutting head coupled with EtherCAT height sensor to safeguard the cutting.
- Class 4 safety enclosure.
- CCD vision system is optional.

Laser Options

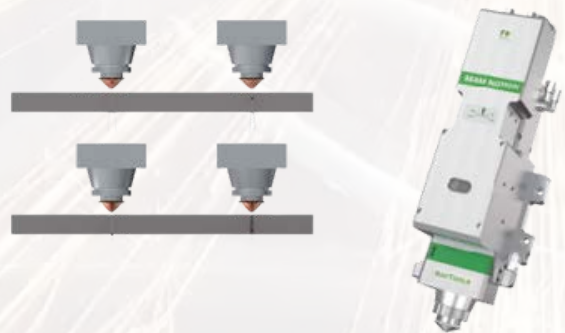
Max Photonics



- Compact design with the laser housed in a hermetically sealed cabinet;
- Maintenance-free Operation,
- A dehumidifier is installed within the cabinet to ensure optimal internal humidity;
- Industry-leading wall-plug efficiency
- The electrical cost savings add up to many tens of thousands of dollars over the lifetime of a laser;
- Wide variety of fiber delivery options (50, 100, 150, or 200 μm) core diameter;
- Reliable and maintenance-free operation
- Hot redundancy ensures 100% uptime with no change in power;

Laser Head

- The focus is controlled by the inner precision servo motor, no need for manual operation
- Punching time reduced by 80% compared to common cutting head. Best match for high-speed thick metal material cutting and highly reflective materials.
- Large and complete cutting technique data base.
- Supporting remote system monitoring through wireless handheld box and ethernet



- Laser cutting of, stainless steel, carbon steel, aluminum, brass, titanium, and more.
- Includes professional on-site installation and training.
- 2-Year Warranty that includes the laser cutting head.

TOPSINN



Dust Collection

- Built-in controller form
- Stable operation, low noise, high efficiency
- Low Maintenance System
- High negative pressure, large suction, with a higher filtration rate.

Chiller

- Powerful Cooling Genuine S&A water chiller uses standard R134a refrigerant to keeps the laser cutting and engraving
- Large Capacity Water Tank. features closed design to reduce water evaporation and provide long service between fills; Precision scale shows water level; Easy to observe and know when water filling is needed.
- Precise Temperature Control S&A industrial water coolers have dual mode temperature control (automatic and intelligent), It can keep the temperature constant within 0.3°C; Constant & Intelligent temperature mode; Automatically adjust the temperature according to the indoor environment temperature; Manually set the temperature between 5-40 degree



Laser Barrier



- Foldable, for ease of storage
- Light weight and wheeled, for maximum mobility
- Unique, 360° light-tight hinge technology
- Heavy-duty extruded aluminum frame
- Certified laser safety barrier panels (M5P06)

Stinger

This cutting-edge system is designed to provide superior performance, speed, and precision for all your welding needs. With its powerful laser source and advanced control technology, it is capable of handling even the most challenging welding tasks with ease



- **Benefits**

- 4 in 1 (Weld/ Cut /Weld Seam Clean/ Remote Clean)
- Quick Change structure of tip assembly from laser processing head.
- Compact integrated design with easy operation.
- Wobble welding to improve welding capacity to seam.
- Wire feeder included to expand application range.
- Safety protection includes auto beam off function once the nozzle is removed from workpiece.



Stinger

	Stinger 1.5 1.5KW	Stinger 2.0 2KW	Stinger 3.0 3KW
Laser	Maxphotronics	Maxphotronics	Maxphotronics
Laser Power	1500w	2000w	3000w
Fiber Length Fiber Core	10m 50um	10m 50um	20m 50um
Wobble Range (Weld)	Adjustable up to 5 mm	Adjustable up to 5 mm	Adjustable up to 5 mm
Welding Thickness Max	3mm (SS, MS and 5 series AL) based on 1500W laser	4mm (SS, MS and 5 series AL) based on 2000W laser	8mm MS 6mm SS 5mm AL based on 3000W laser
Cooling	Water Cooled	Water Cooled	Water Cooled
Collimation/Fo cus Length	60mm/150mm	60mm/150mm	60mm/150mm
Power Supply	220V/Single Phase/50 or 60Hz	220V/Single Phase/50 or 60Hz	480V/Three Phase/50 or 60Hz
Dimensions	42x24x31"	50x26x41"	50x26x41"
Weight	275.6lbs	308.7lbs	552lbs

Remote Cleaning

- Improve weld quality by first cleaning the weld surface.
- Remote Clean removes:
 - Dirt, dust, rust, oil, paint or grease



Weld Seam Cleaning

Post Weld Cleaning that will leave your welds free of contamination & discoloration



Before





After

Stinger

Safety

PPE Included with Stinger Laser Welder



EN 175B 
ANSI 787+
CSA Z94.3 
AS/NZS 1337

OD @ WAVELENGTH :
OD 6+ @870-950nm
OD 9+ @950-1000nm
OD 7+ @1550-2450nm
OD 8+ @2800-11,000nm

This helmet meets or exceeds the United States industry standard ANSI Z136.1 for use with the appropriate laser system.

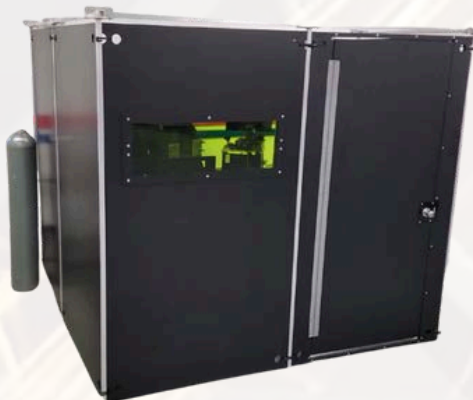
- Laser Welding Hood (1)
- Laser Welding Glasses (1)



Welding helmet offers Shade 3 protection with easy-grip ratcheting mechanism for a comfortable and adjustable fit. Designed for Laser Welding.

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- Auto beam off feature when nozzle is removed from the work surface
 - Lock touch screen to prevent beam from being turned on or off while operator is welding/cutting/cleaning or debugging

Optional Laser Protection Solution



- Modular design for easy disassembly and site conversion
- Customizable sizes
- Single or double door opening
- Light indicator as well as safety door lock to ensure no entry when laser in use
- Observation windows available

LONE STAR

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Connect with us

