LONE ★ STAR
CUTTING SOLUTIONS

Building America

One part at a time

LONE★STAR
CUTTING SOLUTIONS

Lightning
510 DS

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

Lightning
510 DS

LONE STAR
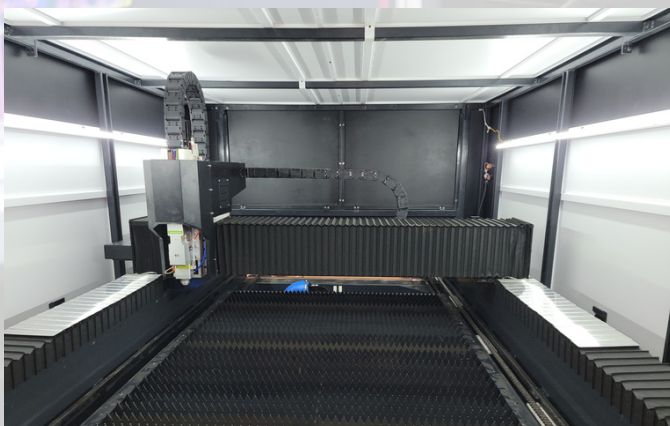CUTTING SOLUTIONS

Processing Size

122in x 60.25 in

Machine Specifications

- High Rigidity Enhanced Aviation Aluminum Gantry, improve the gantry strength and rigidity and much lighter;
- Finite element analysis of gantry help to achieve the best critical state of dynamic performance;
- Integrated structure design, reasonable overall layout
- Rack and pinion structure, servo drive, secondary annealing treatment of high rigid welding frame with high accuracy and stability Professional laser cutting software with graphic layout and sharp corner smoothing functions, fast piercing & cutting;
- Fiber laser has better Industry-leading wall-plug efficiency (around 30%), less power consumption;
- Hand held controller is standard , for easy operation;

2 Year Warranty
Free Lifetime Phone Support

Lightning 510 DS

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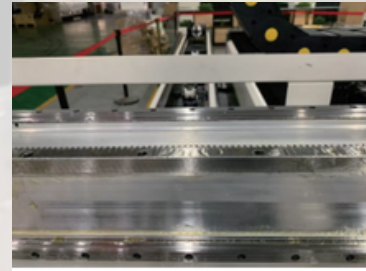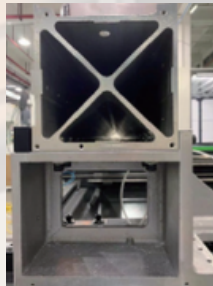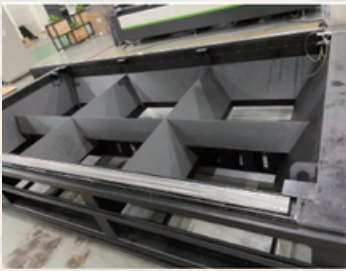
Fiber Laser Cutter

Processing Size

122in x 60.25 in

Core part-structure

- Highly rigidity enhanced aviation aluminum gantry
- Gantry double rack & pinion, double servo motor transmission structure, high inertia and large torque output
- Integrated structure design, reasonable overall layout

Electronics and gas

- Schneider electronic parts and Japanese brand SMC electrical proportional valve ensures a stable operation

Moving System

- Hand Held Controller is standard for easy operation
- Gantry double rack & pinion, double servo motor transmission structure, high inertia and large torque output
- The maximum acceleration can reach 0.8G which effectively improves the customer's production efficiency.
- Schneider electronics drive & Yaskawa servos and motors & MOTORVARIO reducer & Germany Rack
- Professional laser cutting software with graphic layout and smart corner smoothing functions, fast piercing and cutting

Laser Options

MAX PHOTONICS

- It has a super 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 our lasers are known for has reached over 40% ;
- The electrical cost savings add up to many tens of thousands of dollars over lifetime of a laser;
- Wide variety of fiber delivery options (50, 100, 150 or 200 µm) core diameter;
- record reliability and maintenance-free operation;
- Hot redundancy ensures 100% up time with no change in power;
- Compact Rugged Design

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.

The **Lightning 44** comes equipped with advanced software that allows for precise cuts with intricate designs, while also enabling efficient material usage, saving you money in the long run. This machine also features a water cooling system to maintain optimal performance.

Laser Options

TOPSINN

Dust Collection

- The appearance is simple and elegant, stable and elegant
- The humanized operation panel is more classic and delicate
- Built-in controller form, performance and quality are more guaranteed
- Stable operation, low noise, high efficiency
- No regular maintenance required, lower cost
- High negative pressure, large suction, higher filtration rate.

- 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

Foldable 6-Panel System

Features

- 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)