

# Fiber Laser Cutting Machine

Single Table Type



# Technical Parameters

| NO. | Item                                             | Details                                                                                                                                                                                                       | Brand                      | Remarks |
|-----|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------|
| 1   | Machine System: Gantry<br>Double Drive Structure | Rack and gear                                                                                                                                                                                                 | LEAN(6 level)              | Germany |
|     |                                                  | Gear box                                                                                                                                                                                                      | Motovario                  | France  |
|     |                                                  | Beam structure                                                                                                                                                                                                | Aluminum beam<br>structure | ZYMT    |
|     |                                                  | Servo motor                                                                                                                                                                                                   | Delta                      | Taiwan  |
|     |                                                  | LM guides                                                                                                                                                                                                     | HK(H level)                | Taiwan  |
| 2   | Laser Source                                     | Max 1500W                                                                                                                                                                                                     |                            | China   |
| 3   | Water Chiller                                    | Hanli water chiller, the laser is equipped<br>with water cooling system (double<br>circulation system, heat exchange titanium<br>tube, over temperature alarm, flow<br>protection and water level protection) |                            | China   |
| 4   | Cutting Head                                     | Raytools,autofocus                                                                                                                                                                                            |                            | Swiss   |
| 5   | Table                                            | Single table                                                                                                                                                                                                  |                            | ZYMT    |
| 6   | Controller                                       | Bochu Cypcut                                                                                                                                                                                                  |                            | China   |
| 7   | Exhaust System                                   | Large flow fan (5.5kw)                                                                                                                                                                                        |                            | China   |
| 8   | Gas Distribution System                          | Throttle valve, pressure reducing valve,<br>electrical proportional valve.                                                                                                                                    |                            | Japan   |

| NO | Item                     | Unit  | 3015/1500W |
|----|--------------------------|-------|------------|
| 1  | Laser Power              | W     | 1500       |
| 2  | Table Size               | mm    | 3000*1500  |
| 3  | X, Y axis Position Speed | m/min | 90         |
| 4  | X, Y axis Moving Speed   | m/min | 125        |
| 5  | Maxim Acceleration       | G     | 1.2        |
| 6  | Position Accuracy        | mm/m  | ±0.03      |
| 7  | Reposition Accuracy      | mm    | ±0.02      |

## How to Choose Laser Head Power?

|          | Carbon Steel (mm)                                                                   | Stainless Steel (mm)                                                                | Aluminum (mm)                                                                        | Brass (mm)                                                                            |
|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Material |  |  |  |  |
| 1.5 kw   | 0.4mm-16mm                                                                          | 0.4mm- 6mm                                                                          | 0.4mm- 5mm                                                                           | 0.4mm- 5mm                                                                            |
| 2 kw     | 0.4mm- 18mm                                                                         | 0.4mm- 8mm                                                                          | 0.4mm- 6mm                                                                           | 0.4mm- 6mm                                                                            |
| 3 kw     | 0.4mm- 20mm                                                                         | 0.4mm- 12mm                                                                         | 0.4mm- 8mm                                                                           | 0.4mm- 6mm                                                                            |
| 6 kw     | 0.4mm- 25mm                                                                         | 0.4mm- 20mm                                                                         | 0.4mm- 16mm                                                                          | 0.4mm- 14mm                                                                           |
| 12 kw    | 0.4mm- 45mm                                                                         | 0.4mm- 40mm                                                                         | 0.4mm- 22mm                                                                          | 0.4mm- 20mm                                                                           |

## Standard Laser Source

### MAX Source

- ✓ High wall-plug efficiency
- ✓ High speed in thin sheet cutting
- ✓ Less splash during cutting and welding
- ✓ High power density with flat-head distribution
- ✓ Strong capability in thick material processing
- ✓ Highly integrated system with modular design
- ✓ High stability and easy maintenance significantly reduce TCO
- ✓ Widely used in hardware processing, automobile, shipping, construction machinery, medical industries and more



### Optional:

#### RAYCUS Source

- ✓ High electro-optical conversion efficiency
- ✓ Output fiber length can be customized
- ✓ QBH connector
- ✓ Maintenance-free operation
- ✓ Wide modulation frequency range
- ✓ Small size, easy to install



## Machine Configuration



### Integrated Machine Main-body

- ✓ The unique industrial structure design gives sheet metal laser cutting machines good performance.
- ✓ The whole welding bed has compact design, good rigidity, high strength, stability and reliability. It has higher precision and faster operation speed, and the single axis speed of air travel can reach 90m/ min.



### Cutting Gantry Beam

- ✓ Aluminum beam, light weight, good rigidity, high precision, good dynamic characteristics.
- ✓ Solution treatment improves the strength and plasticity of the beam, optimizes and reduces its weight, and speeds up the movement.



### Controller System

- ✓ The CypCut software is a set of laser cutting software for plane or tube cutting function, including laser cutting process processing, common layout function and laser processing control.
- ✓ The main functions include graphic processing, parameter setting, customized cutting process editing, layout, path planning, simulation and cutting process control software



### Laser Cutting Head

- ✓ Optical path adaptive system
- ✓ Lens detection function
- ✓ Automatic height sensing function
- ✓ Additional lens protection of focus lens
- ✓ Collision detection function
- ✓ Automatic edge finding function



### Servo system

It adopts the gear rack drive imported from Japan, double-sided linear guide; and adopts the servo motor drive system imported from Japan, combined with the CNC system commonly used in the market, its control has stronger stability, better compatibility and other features, so as to ensure the accuracy of the machine tool in high-speed movement.



### Wireless Hand-held Remote

- ✓ Precise Edge Finding
- ✓ Dual-Drive Error Offset
- ✓ Flexible Production Mode
- ✓ Statistic of Production
- ✓ Auto Optimize Imported Drawing
- ✓ Graphical Cutting Technique Setting



### **Transmission system**

High precision, long life, can provide rigorous support for quenching helical gears and grinding helical gears, so that load drive structure is compact, can effectively reduce the driving torque.



### **Water cooling system**

With features such as an over-temperature alarm, flow protection, water level protection, and other safety alerts.

## **Optional Accessories**



Air Compressor



Voltage Stabilizer

# Laser Spare Parts

We also provide the most professional consulting and sales services for laser consumable parts.

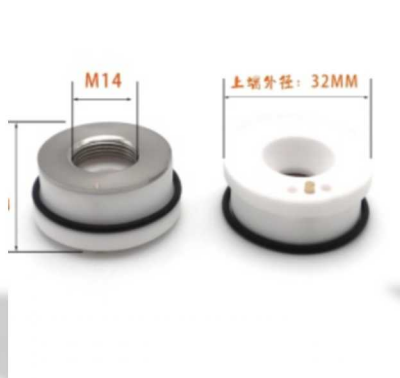
## Protective Lens



## Laser Nozzle



## Ceramic Ring



## Company Introduction

### 23 YEARS EXPERIENCE

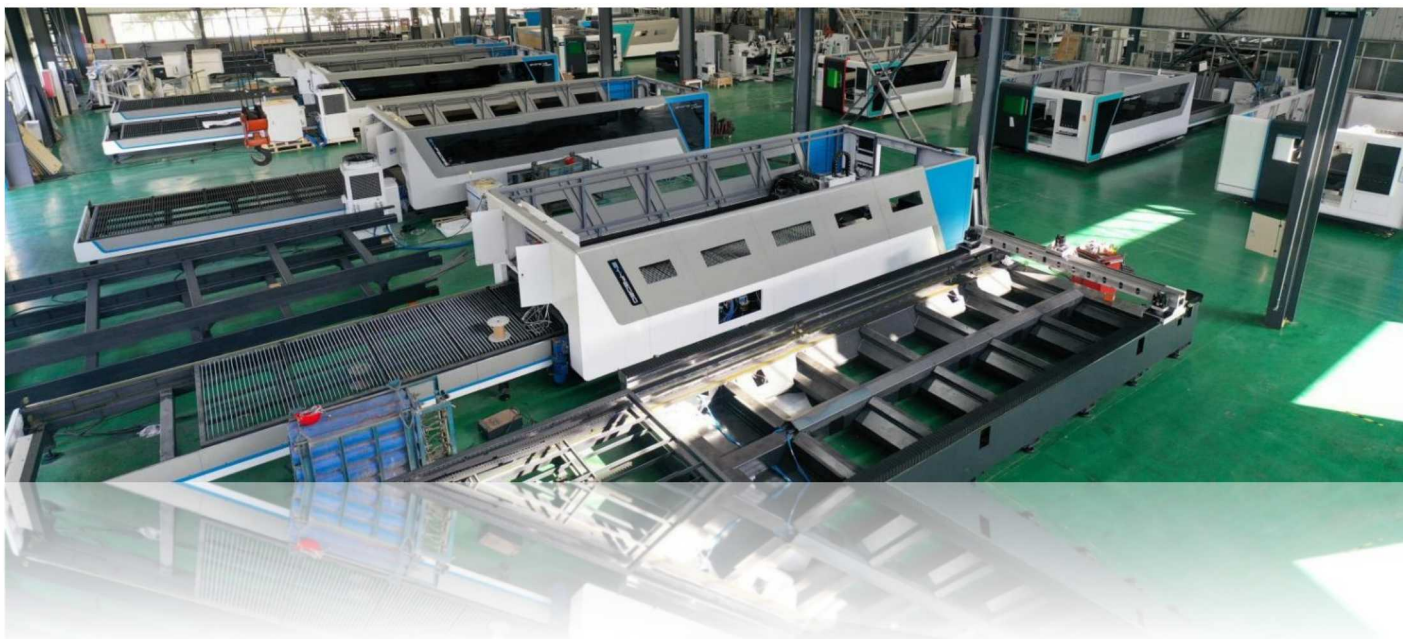
Founded in **2001**, has rich production experience and strong production strength

### SUPER FACTORY SCALE

- ✓ **40+** Billion Dollar Processing Equipment.
- ✓ **300+** Employees
- ✓ **50+** Engineers

### WIDE RANGE PRODUCTS

Powerful production capabilities can satisfy the demands for up to **12000T** press brake and **50KW** laser cutting



The 6 CNC floor-standing boring and milling machines are used to process the machine body, ensuring the machine's ultra-high precision and guaranteeing delivery time.



The 16-meter-long CNC gantry milling machine processes the entire body of the large machine, ensuring the ultra-high overall precision of the large machine.

All machine bodies are tempered and use stress relief annealing technology to ensure no deformation of the bed and eliminate the internal stress caused by welding the machine bodies. Allowing the machines to operate for a long time with high precision, this process will increase costs by 10%.



The 12 CNC machining centers produce machine parts to ensure high precision and on-time delivery.

**Delem**

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INFRANOR GROUP COMPANY

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## After Sales Service

### ✓ OEM Service

Customize them according to the practical use of customers.

### ✓ Spare Parts & Consumables

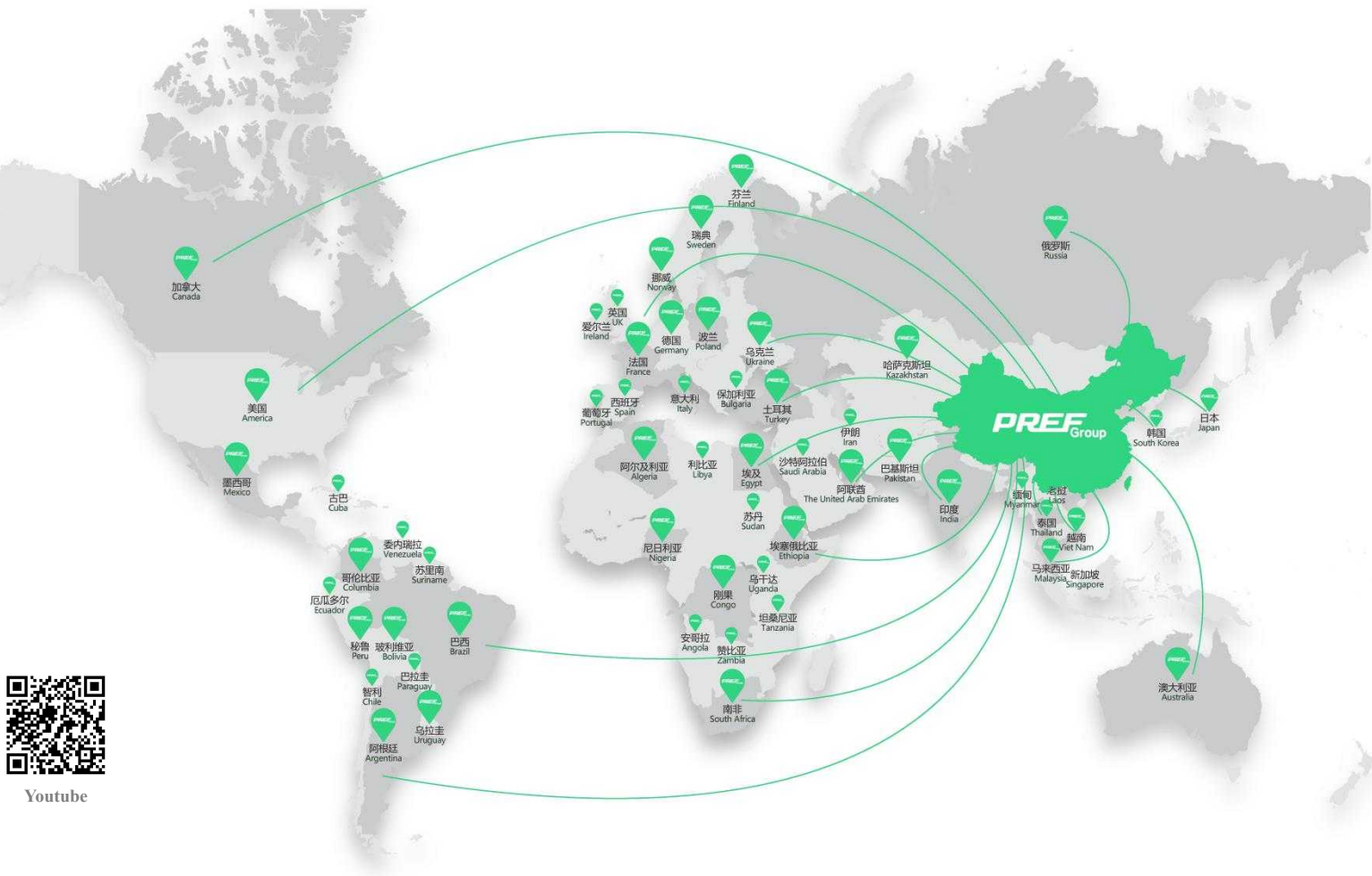
We have current spare parts and consumables available for you with fast delivery.

### ✓ Technical Support

We have a professional technical team to provide solutions for the bending and cutting process.

### ✓ Training Service

Our engineer have long experience in the field of sheet metal machines and have an answer on every question regarding metal bending and cutting.



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