

CNC Fiber Laser Cutting Machine



Configuration of the machine

Particulars	Details
Model	UNICNC3015V
Machine structure	Pipe welding machine body
Fiber Laser source	MAX 3000W
Laser Head	BOCI BLT310(auto focus) / Raytools
Transmission system	Dual-drive, precise rack and pinion
Guide rail	HIWIN X 35 Y 35
Rack&pinion	Taiwan YYC
Speed Reducer	YSK
Servo motor	YSK 3.0
Water chiller	S&A CWFL-3000
Control System	Shanghai Cypcut 2000E
Proportional valve	Japan SMC
Auxiliary Parts	Exhaust Fan, dust and particle extraction

Particulars	Details
Electronics	France Schneider
Computer	Industrial Computer
Working area (L*W)	3000×1500mm
Auto Lubrication	Yes
Remote Controller	Yes
X/Y axis Repeated Position Precision	±0.04 mm
Machine gross weight	1650 KG
Voltage	THREE phase 380V 50Hz



Laser source – (1000 W to 6000 W)

1. Reputed fiber laser source brand in the world
2. Direct control of all the fiber laser functions; Synchronized control of the laser source;
3. High speed perforation
4. Cutting data library;
5. More than 100,000 hours work-life of pumped diode, almost free maintenance.



Laser Cutting Head

- BOCI BLT310(auto focus) / Raytools
- FSCUT 4000E BLT421S

1. Widely applicable to middle-power laser machines
 2. Collimating lens and focal lens adopt compound lens, to obtain the optimal optical quality and the cutting effect.
 3. Completely sealed internal structure of laser head can avoid optical part polluted by dust.
- . Extended Service Life: Durable and long-lasting.
 - . Reliable Cooling Performance: Provides stable cooling for high-power lasers.
 - . Eco-friendly and Energy- efficient: Designed to be environmentally friendly and cost- effective.
 - . Intelligent Control System: Features advanced temperature





Guide Rail – HIWIN

Y axis 35 X axis 35

1. Wear resisting
2. Higher speed and Stable performance
3. Noise volume is lower
4. High accuracy and long service life



- **Available materials :**

Professional for cutting a variety of metal plates, high-quality cutting carbon steel plate, stainless-steel plate, but also cutting aluminum alloy plate, galvanized plate, electrolytic plate, copper plate, silicon steel, titanium alloy, aluminum zinc plate and other metal materials.

- **Available industries :**

Metal cutting, plate metal cabinet manufacturing, aerospace, grain machinery, textile machinery, engineering machinery, locomotive manufacturing, agricultural and forestry machinery, elevator manufacturing, special automobile, household appliances manufacturing, tool processing, it manufacturing, petroleum machinery manufacturing, food machinery, diamond tool welding, gear welding, metal material surface treatment, decoration advertising, laser external processing Services and other machinery manufacturing and processing industries.

- **The advantage of Fiber laser cutting :**

- Ultra bottom cost, ultra bottom power consumption cost, can blow air to cut all kinds of metal sheets, the hourly cost is about 0.5-3\$.
- Laser Spot quality is good, deformation is small, appearance is flat, beautiful, easy to locate.
- With professional software, you can design all kinds of figures or words for real-time processing, which is flexible, easy to operate and convenient.
- High stability, the use of the world's top imported fiber laser, stable performance, key components of the service life of up to 100000 hours, laser maintenance free. Adopt import servo motor and guide drive mechanism, high cutting precision.
- Very low maintenance cost, no laser working gas; fiber transmission, no reflector, can save a lot of maintenance costs.