

Industrial Fiber Laser Cutter for Metal



Industrial Fiber Laser Cutter for Metal is very useful for sheet metal cutting, including carbon steel, stainless steel, copper, brass, aluminum and titanium. Fiber lasers are good at cutting reflective materials that CO2 lasers struggle with. It's natural to think that because fiber lasers use some visible light, reflective materials like brass, aluminum, and copper would cause problems; but that's not the case. Fiber lasers are now much more advanced and can cut materials seamlessly, which used to challenge metal manufacturers.

This metal fiber laser cutting machine is the best choice for machining complex metal parts. It can not only process metal sheets with high speed and good precision, but also process metal tubes for precision cutting. DXTECH has equipped this metal plate and tube laser cutting machine with world-class components, such as Raycus/Max laser source, Japan Yaskawa/Fuji servo motor, Taiwan Shangyin/PMI guide rail, France Schneider electronic components, etc. Working size and laser power can be customized according to customer needs. The machine is widely used in auto parts, robot parts, rocket parts, aircraft parts, ship parts, household appliance parts, metal tools, construction machinery parts, agricultural machinery parts, metal decoration, metal furniture, kitchen countertops, kitchen utensils, fitness equipment, etc. industry.

Industrial Fiber Laser Cutter for metal has higher cutting speed and quality compared to other metal cutting solutions. It adopts an up and down exchange platform, able to finish the platform exchanging within 15s for commercial use. Now the high quality fiber laser metal cutter for sale at affordable price



Product Parameter (Specification)

Model	SN-4020F
Transmission	TAIWAN RAIL AND RACK
Laser Power	1.0kw 1.5kw 2.0kw 3.0kw 4.0kw 6.0kw, 8.0kw, 12.0kw
Working Area	SN3015F - 5'W x 10'L SN4020F - 6'W x 13'L SN6020F - 6'W x 20'L
Control Software	Cypcut Control System
Cutting accuracy	0.01mm
Fiber Laser Head	Raytools Cutting head
Gross Power	15KW
Machine Weight	14000KG
Voltage	380V,50Hz
Cutting Gas	Compressed air, oxygen, nitrogen
Cooling System	WATER COOLING
Driving System	YASKAWA SERVO MOTOR
Automatic Grade	Automatic
Phase	Three phase
Max. Acceleration	1.5G
Application	Mild Steel, Carbon Steel, Stainless Steel, Aluminum, Brass sheet tube cutting
Power Source	Raycus/IPG/MAX
Max Running Speed	4000 IPM 6000 IPM (Optional)
Max.Cutting Speed	30,000mm/min
Autofocus	Yes
Cutting Thickness	0 to 20mm (mild steel)
Support File Extension	Plt, bmp,dxf, jpg, tif, ai
Package Dimension	1 x 40GP

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Gross Weight	2500KGS
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What is the Maximum Cutting Thickness ?

	1KW	1.5KW	2KW	3KW	4KW
CS(mm)	0.4-12	0.4-16	0.4-18	0.4-20	0.4-25
SS(mm)	0.4-5	0.4-6	0.4-8	0.4-12	0.4-12
Aluminum (mm)	0.4-3	0.4-5	0.4-6	0.4-8	0.4-12
Brass (mm)	0.4-3	0.4-5	0.4-6	0.4-6	0.4-8

Industrial Fiber Laser Cutter for metal main feature

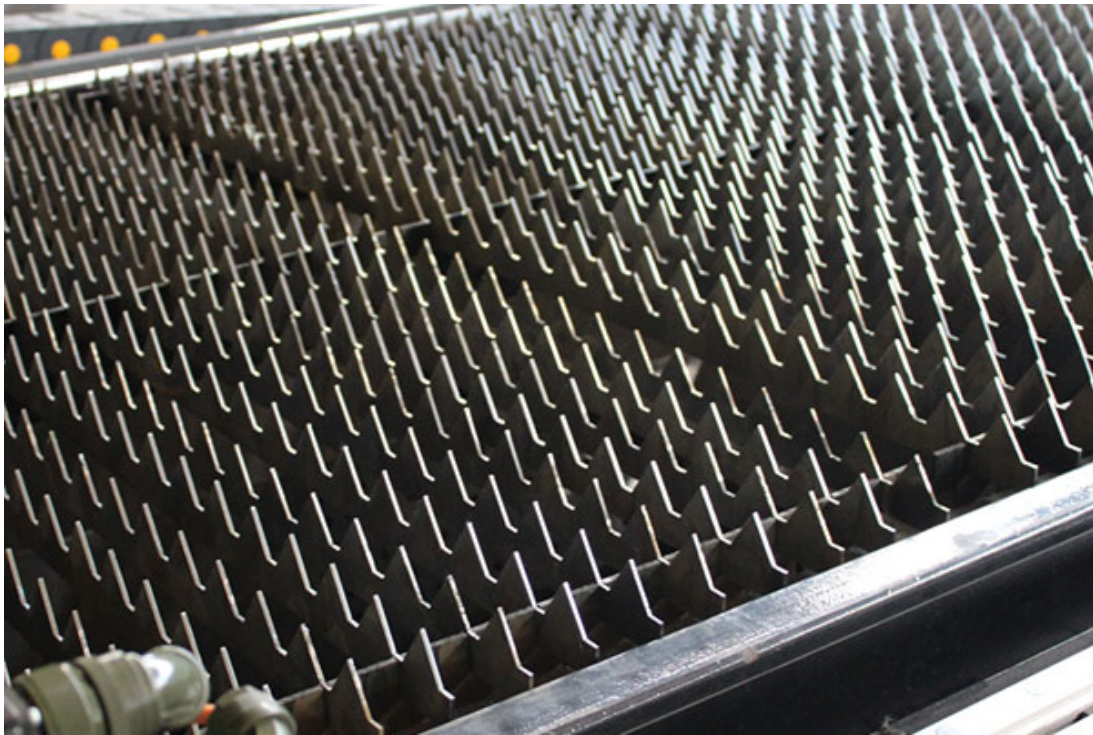
1. In the industrial fiber laser metal cutting machine, Raycus generator laser device with stable performance is used; the key parts can last 100,000 hours.
2. A sophisticated CNC control system that can directly read.ai,.plt,.dxf,.lxd, and ug code and is simple to use;
3. Intelligent cutting head with auto-height adjustment for consistent focal length and cutting quality.
4. High precision transmission device imported from Japan that works flawlessly with the servo system, ensuring cutting precision and efficiency.

Industrial Fiber Laser Cutter for metal main parts



CAST-IRON BED, ANTI-VIBRATION, STABLE, NO DEFORMATION

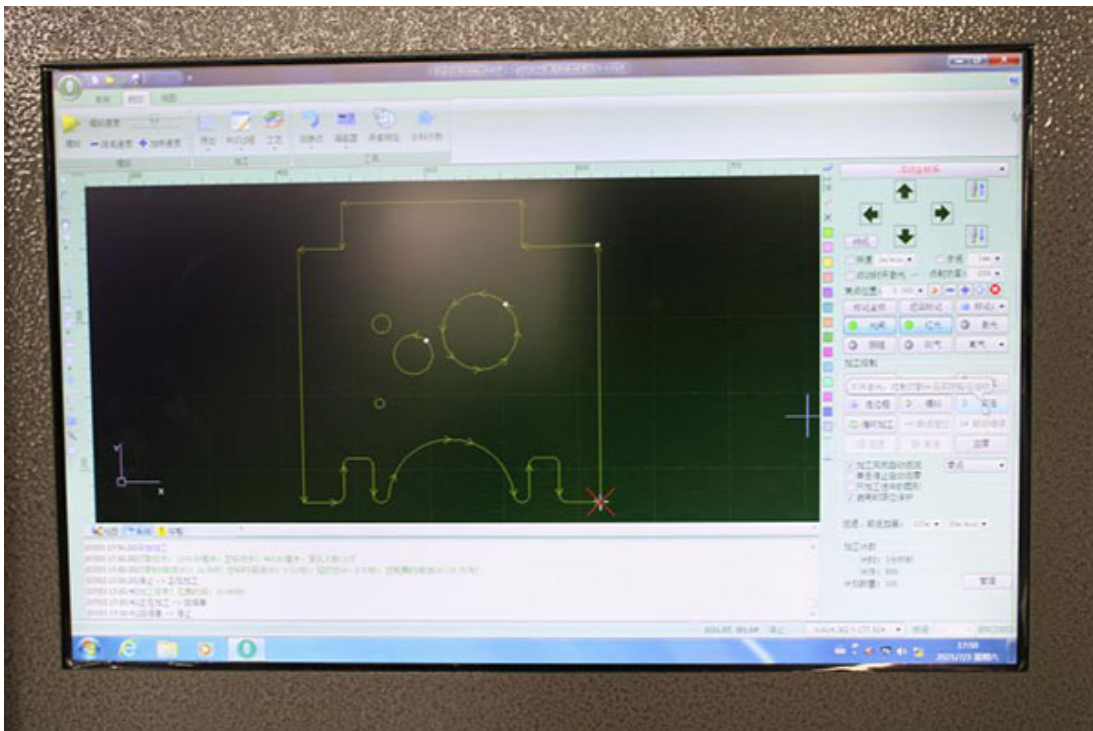
- The main frame adopts the gantry structure welded by all steel plates to ensure the long-term stability without deformation.
- Improve the stability and rigidity of the Y-axis beam.
- Using gantry rack double guide rail, double servo drive structure.
- Ensure the high precision and high dynamic performance of Y-axis beam movement.
- Y-axis beam runs smoothly at high speed, greatly reducing gas consumption.



SERRATE WORKING PLATFORM

--The steel serrated table can withstand heavier work pieces and has only a small area to touch the workpiece when cutting, maximizing the melting of the table surface by the heat of the laser.

--Each piece is independent for easy replacement and maintenance.



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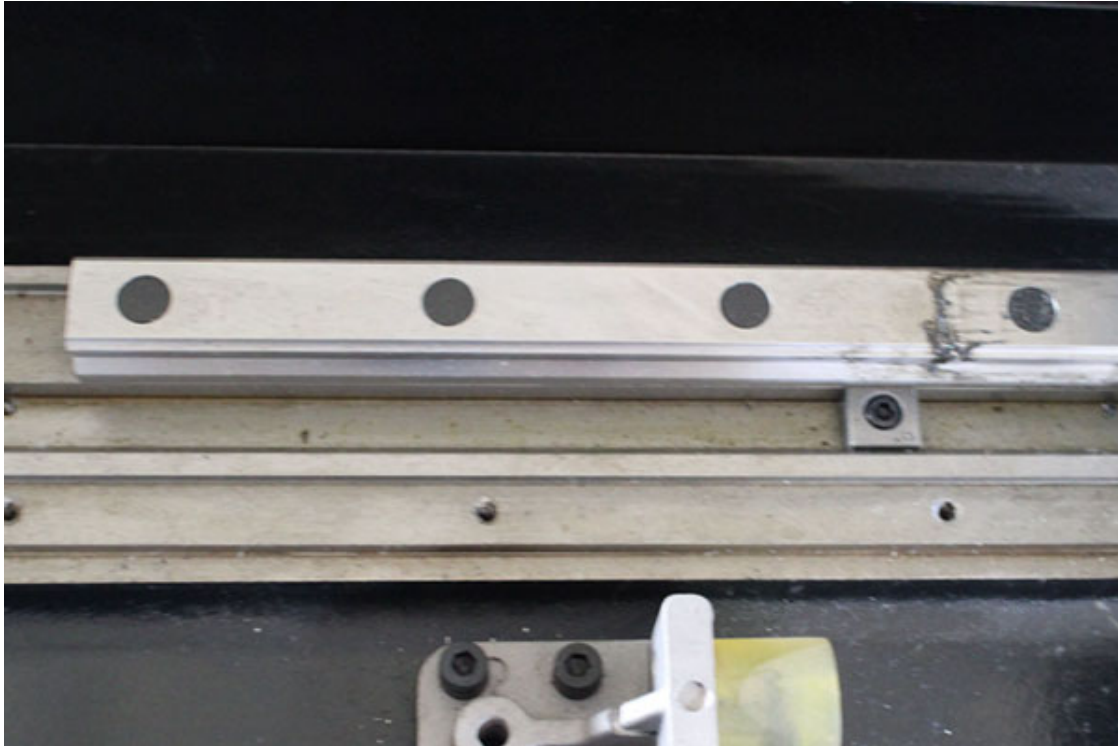
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CYPUT CONTROL SYSTEM

--Support AI, DXF, PLT, Gerber, LXD and other formats, and accept the Cypat international standard G code generated by MaterCam, Type3, Wentai and other software.

--To use the easiest way to set the lead, slotted compensation, micro connection, bridge-connection, lead inside or outside, lead seal without gap and so on.

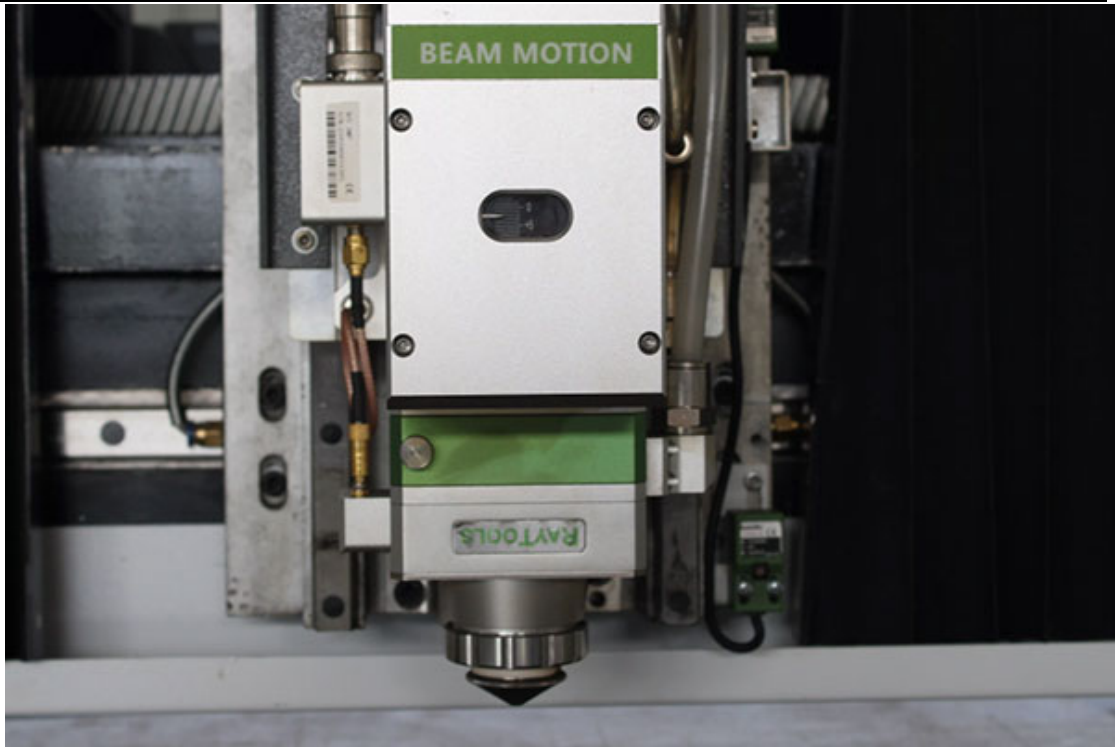


GEARS, RACKS, GUIDES

--The guide rail and rack are calibrated by a precision collimator with an accuracy of $\pm 0.02\text{mm}$

--Using Taiwan YYC rack, grinding on all sides. And there is a positioning pin design to prevent the rack from shifting

--Using Taiwan HIWIN guide rail, and use oblique pressure block design to prevent displacement of guide rail



SWITZERLAND RAYTOOLS AUTO-FOCUS LASER CUTTING HEAD

--AUTOFOCUS: Through the built-in drive unit of the servo motor, the focusing lens is driven by the linear mechanism to automatically change the position in the focusing range.

--EFFICIENT: Reading the saved cutting parameters through the operating system can quickly change the focus position of the laser head, eliminating manual operation and improving efficiency by 30%



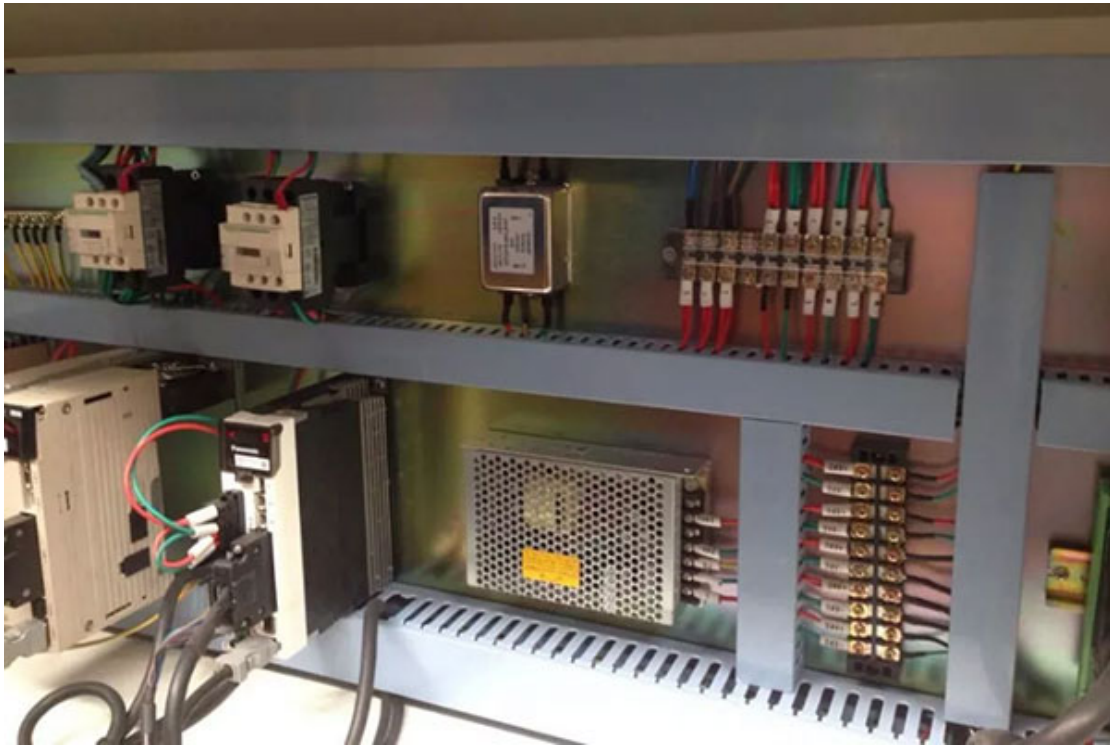
FAMOUS BRAND LASER SOURCE

--We have professional sales and technician who can suggest you the most suitable laser source, depending your target price.

--Stable performance and high cost performance

--The fiber launch is stable, with long service life of nearly 100,000 hours

--It can run continuously 24 hours a day to meet the requirements of industrial continuous production



CONTROL CABINET

All the electrical components are housed and wired in a doubled-doored electrical enclosure. This allows for easy access and service when needed. All wiring is tagged so that when service is required, the customer can easily navigate the cabinet



HIGH QUALITY SERVO MOTOR

Composed of: servo drives and the servos move in all axes. With this motor, the machine can realize high-precision machining at high speed.



WATER CHILLER

The function of the water cooler is to reduce the temperature of the laser generator and prevent the laser from being burned out. We only use brand-name water coolers with reliable quality.

Applicable Industry and Materials

Fiber Laser Stainless Steel Cutting Machine is suitable for stainless steel, carbon steel, silicon steel, aluminum alloy, titanium alloy, galvanized steel, pickle plate, aluminum-plating Zinc plate, metallic copper and other metals.

Specially used for cutting 0.5-30mm carbon steel sheets (pipes), 0.5-15mm stainless steel sheets, galvanized steel(pipes), electrolytic zinc-coated steel sheet(pipes), silicon steel(pipes) and other kinds of thin metal sheets and pipes. Range of pipe diameters: 20-220mm.



Fiber Laser Cutting Machine After Sales Service:

A.SUNNA INTL will supply fiber laser cutters with training videos and user's manuals in English for installing, operation, maintenance and trouble-shooting, and shall give technical guide by e-mail,whatsapp,wechat,telegram,teamviewer,telephone and so on, when you meet some problems of installation, using or adjusting.

B.You can come to our factory for training. SUNNA will offer professional guide. Direct and effective face-to-face training. Here we have assembled equipments, all sorts of tools and testing facility,we will also provide accommodation during training period. Training Time: 1-10 working days.

C.Engineers service machinery overseas

We provide customers with free pre-sales consulting services, and welcome customers to contact our pre-sales consultants to inquire about our laser cutting machines at any time. We will provide you with the most suitable and cost-effective solutions according to the processing requirements of users. We also support OEM and provide customized service.