### JQ-1325-300W FIBER LASER CUTTING MACHINE



Working area:	1300mm*2500mm	
Laser power:	300W Raycus fiber laser device.	
laser head	Cypcut laser head , with auto sensor, which could adjust focal distance automatically.	
Cooling system	CW-6100 water chiller, could well protect the laser device.	

### Part one: Machine Technical Parameters

Machine Model	JQ-1325-300W	
Max. working area	130042500mm/51in498in	
► Laser	Raycus Brand 300-wa fiber laser	
Cu ng thickness	0.2-3mm stainless steel / 0.2-4mm carbon steel	
Laser wavelength	1060nm	
Rated power	10-100%	
X,Y-axis loca on accuracy	±0.01mm	
X,Y-axis repeat loca on accuracy	±0.01mm	
X,Y-axis fast moving speed	30m/min	
► X,Y-axis max. cu ng speed	20m/min	
► Min. cu ing line width	0.02	
Max. cu ng speed	10m/min	
Whole machine flo	4.0*2.5*1.5m	

### Part two: Machine introduc on

With high quality fiber laser generator, high precision "HIWIN" rack transmission and advanced automa on NC system, this product is ge ng high and new technology in one which by laser cu ng and high precision machinery NC technology. Ge ng high speed, high precision, high efficiency and low cost together perfectly, this product can be the best choice for bulk metal materials cu ng job.

#### Part three: Machine features:

- 1, High speed, high precision, high efficiency and low cost
- 2, Easy on opera on, fiber op cal path, without tediously adjustment on op cal path
- 3, Compact structure, good sealing, strongly adaptable to changes in the environment.

4, With the perfect automa c nes ng system which can save me, save the materials, the sheet u liza on ra o up to 95%

### Part four: Applicable materials and industry

Suitable for stainless steel, carbon steel and some other metal materials precise cu ng, applicable for aerospace technology, rocket, plane, robot, elevator, steamship and automobile manufacturing and metal parts processing industry for metal plate, adver sement, kitchen ware, bit tool, hardware etc.

This will make sure Laser device and the machine inner working area temperature and humidity good for the laser device.

### X-Axis

1) Ball-screw transmission

2) Max moving speed 12m/min



# Part five: JQ-1325-300W Fiber Laser Cung Machine Features:1. High-performance Raycus Brand 300-walaser device from China has photovoltaicconversion rate higher than 24%.Image: Conversion conversio

The machine has advantages of high laser beam quality, narrow line width, simple structure, high reliability and less affected by the environment during usage. Its theore cal working life me is over 100,000 hours. It is a ideal choice for industrial cu ng. **2. Auto focusing laser cu ng head (cu ng head with metal** 





### sensor) from Cypcut, has high sensi vity and good stability.

Our fiber laser cu ng machine uses Cypcut Brand auto focusing cu ng head. Cu ng head laser nozzle locking ring touch the metal sheet materials surface, cu ng head move up and down, and it can achieve same focal cu ng. The cu ng head has high sensi vity, stable running and good reliability. When cu ng metal sheet, there is no obvious sparks flying phenomenon, and avoids the lower sensi vity and failure caused by air dielectric changing and electromagne c field interference which affect working piece cu ng quality and cu ng head collision damage. (Tradi onal ranging cu ng head can not avoid this). This mechanical following system adopts machine advanced

equipment which can ensure stability and sensi vity.

### **3.** Power supply controlled by control cabinet, touch screen opera on system, easy to operate.

Control cabinet a unique design, including the en re opera ng system, change the past, independent power opera on of complex design, and can control the system on the current, frequency, pulse width and other parameters.



### 4. Japanese Panasonic servo motors and drivers to improve the cu ng speed and stability.

X, Y axis are built with two 1500W Panasonic servo motors, the moving parts of

Z-axis equipped with a 200W Panasonic servo motor, the combina on ensure the stability and efficiency. Max moving speed 10m/min. Max available cu ng distance 1300mm.



Servo system ensures the possibility of realizing extreme precise posi oning with the excellent dynamic response accelera on property and closed loop control method, mechanism operate smoothly, reliably and free of maintenance; loca on accuracy: ≤±0.04mm



## 5. The combine of high precision rack drive system and advanced feed system.

The movement system adopts the drive system of high precision rack and servo motor, and this assure the high precision of the cu ng. Serrate pla orm and trim strip are very suitable for cu ng metal sheets. The user can put in and take out the materials faster and easily.

There is a up-down li ing cylinder in the serrate pla orm, which helps to load metal sheet easily. This special worktable can meet special requirements, enlarge the applica on of this machine, and operate more easily.

### 6. High power and big refrigera ng capacity CW-6100 water chiller.

We use high power water chiller, and it can cool the laser system con nuously, adjust the temperature automa cally, ensures working for a long me. The temperature of the water can be kept within plus-minus 5 degree. The constant temperature of water can keep the laser power stable, work more steady and fast.

### 7. Control system

Raycus LASER device controlling computer, English version Windows xp system, installed laser device needed control so ware. op mize

cu ng so ware,touching screen controller,nes ng op miza on system, support intersec ng line cu ng, easy opera on and automa c programming, ups func on will protect your machine and computer when suddenly power off.

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### Part six: Advantages of JQ-1325-300W

#### High precision in cu ng. Excellent in stability.

Adop ng the high precision ball rack in transmission system. The op mized CNC control system, which can meet the processing demand in high precision accessory. The muta on system is excellent, that suit for the long hours constantly working.

#### High quality in cu ng edge

Adop ng the Cypcut follow-up cu ng head system with high sensi vity and stability. The cu ng head moving with the varia on of the plate. The cut-off point posi on will remain unchanged. The kerf is flat and smooth enough no need to handle it again. Meanwhile, the machine can be use to cut both of the flat materials and curving materials .

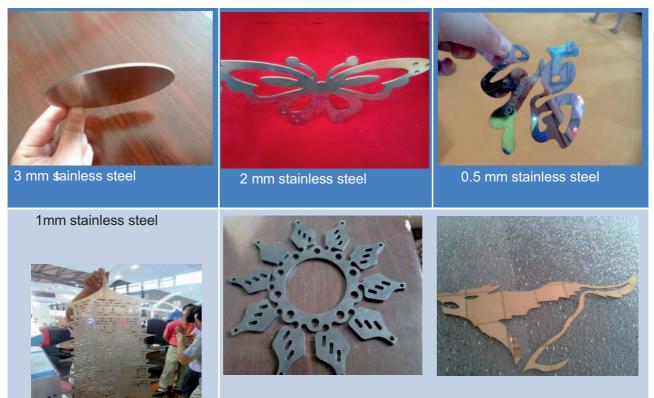
### Cu ng large format and suitable for cu ng more material.

The machine can cut metal sheet within the thickness of 6mm and not larger than the size of 1300mm x 2500mm. The applicable materials include: ordinary carbon steel, stainless steel, tanium, etc.

- With drawer to collect the garbage, easy to change the gas value.
- High performance-price ra o
- Low cost for using
- Higher cu ng speed and efficiency
- Low fees for the future maintain:

This laser machine is with simple structure, easy to operate with high stability.

### Part seven : sample pictures



4 mm carbon steel

0.5mm Titanium plate



Part eight: machine packing pictures

