



## LSF1512

Machine Model:	LSF1512			
Cutting size	1500x1200mm			
Laser power:	Fiber 1200w			
Cutting thickness(recommend cutting thickness)	Laser Power	Stainless steel	Carbon steel	Copper/ Aluminum
	650W	0.2-3mm	0.2-6mm	0.2-2mm
	<b>1200w</b>	<b>0.2-6mm</b>	<b>0.2-10mm</b>	<b>0.2-4mm</b>
X. Y axis positioning accuracy:	±0.02mm			
Min Cutting Line Width:	0.02mm			
Max moving speed:	50m/min			
Electricity requirements:	380V, 50Hz/60Hz			
Load of worktable	500Kgs			
Net Weight:	3000kg			



## **Laser cutting parameter**

### **Laser source: Reci RS 1200**

High electro-optical conversion efficiency  
Altitude stress-resisting capacity  
Sheet cutting efficiency  
Customized output fiber length  
Optional QCS or QBH connector  
Optional air cooling or water cooling  
Maintenance-free operation  
Wide modulation frequency range



## **Raytools BT240-Laser Cutting head**

The series of laser cutting heads BT240cut are released by Switzerland RAYTOOL S AG in 2014, which are suitable for medium and high power fiber lasers in industrial applications. The heads have diversification interface settings that allow with a variety of fiber lasers. The optimization of optical design and digital height sensor can make cutting more efficiently. The design of dual watercooled allows laser heads stably and chronically to work at high power laser.



### **Features**

- Optimized optical configuration and smooth and efficient airflow design.
- Knob type of focus adjustment, meticulous and flexible, adjustable range is 20mm, accuracy is 0.05mm.
- Drawer-type of lens mount, quick and easy access to the cover glass.
- Collimation and focusing lens have water-cooled structure, which can withstand up to 1.5 KW power.
- Collimation and focusing lens can choose of single lens or lens group, which can achieve the best optical quality and the effect of cutting.
- With a variety of optical interfaces, can be adapted with a variety of fiber lasers.

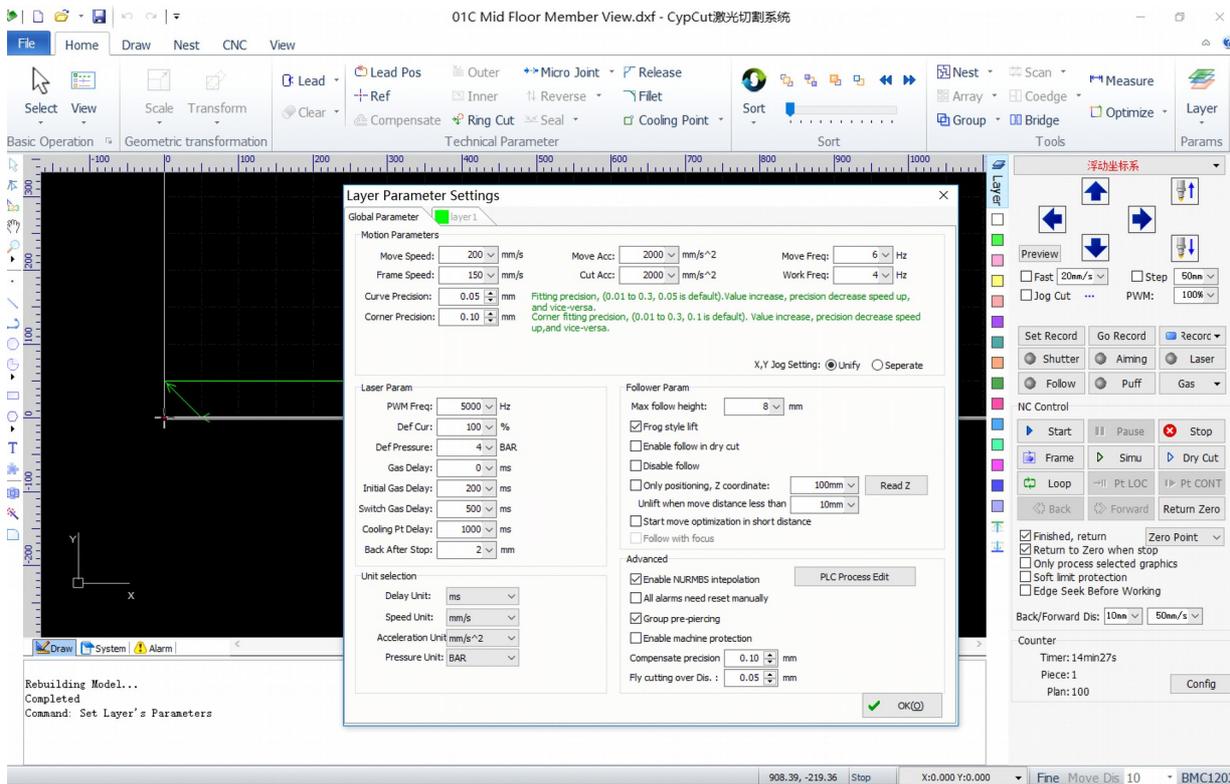
### **Specifications**

Power Rating ---- $\leq 1.5$ KW

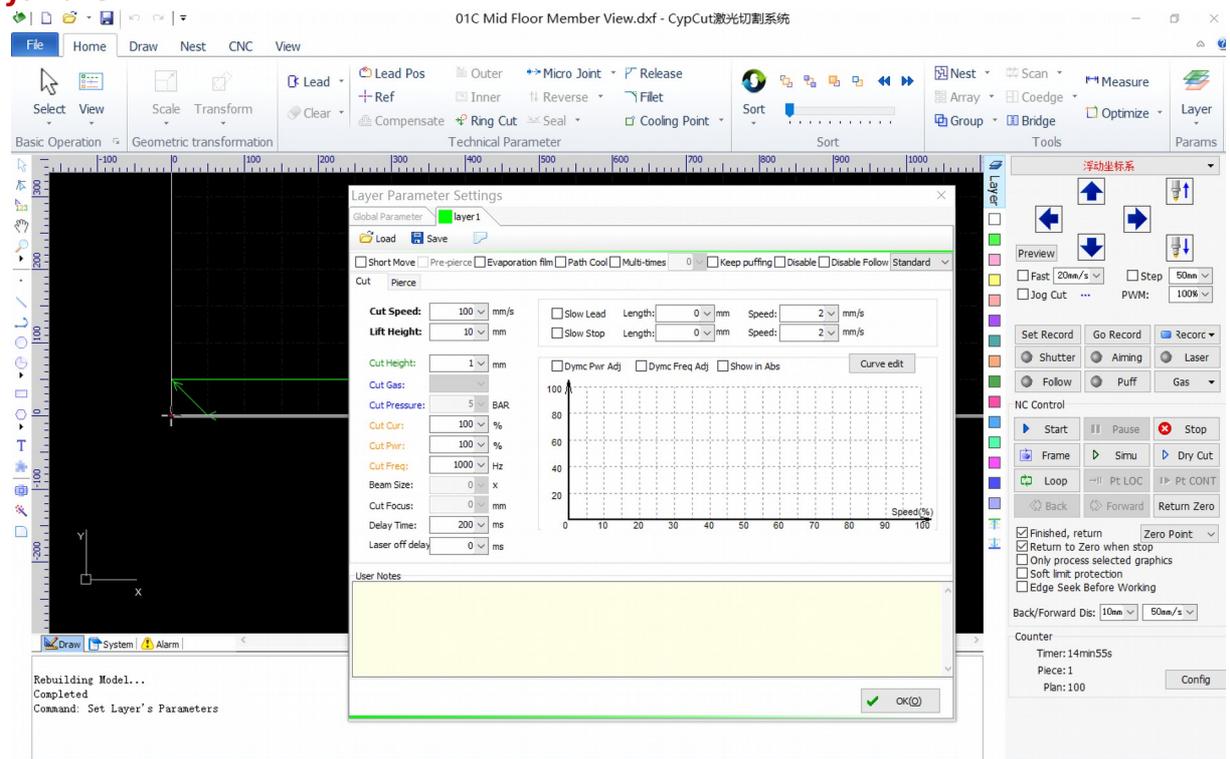
Clear Aperture ----24mm,28mm

Cover Glass ---- $\phi 27.9$ mm\*4.1mm

Assist gas Pressure --- $\leq 30$ bar



## Software



With Fscut Control system and software with English language, applicable insert files with DXF. Or AI format for metal sheet cutting. Software with fly cutting mode for cutting same products for save using time. The advantage for this software is not need extra nesting software. It is easy operation which can meet most metal sheet cutting work.

### Technical Parameters

No.	Items	Parameters	Unit
<b>Laser device</b>			
1	Type	Fiber laser	
2	Power	1.2	kw
<b>Body</b>			
4	max.cutting speed	50	m/min
5	fast moving speed	50	m/min
6	Max. load of worktable	500	kg/m <sup>2</sup>
7	X,Yaxis max.acceleration	1	g
8	Machine occupy space	3100x3100	mm
10	Weight of machine tool	3000	kg
11	Motor	Panasonic	
<b>Accuracy</b>			
12	X,Y-axis positioning accuracy	±0.02	mm
13	X,Y-axis repeat positioning accuracy	±0.01	mm
16	Voltage	380 (three phase )	V
<b>Software</b>			
17	software	Fscut /Cypcut	
18	Graphic Format Supported	DXF/AI	

## Warranty:

Whole Machine Warranty: 2 years

Laser source warranty: 2 year

Consumption parts like lens will not include in the warranty

## Consumption:

### Electrical consumption:

Equipment components	Power consumption (KW)	Total
Laser source	4	12.4 KW/H
Machine bed	4.9	
Water chiller system Smoke Filter system	3.5	

### Gas:

Gas type	Air cost	Using time	Total consume	Cutting effect	Note
Oxygen	\$4/Bottle	1 hour	4 \$/H	Black edge	Take 1mm carbon steel as example
Nitrogen	\$6/Bottle	30 minutes	12 \$/H	White edge	Take 1mm stainless steel as example

Note: Gas bottle with 40L volume for reference, with liquid gas will be much cheaper for gas consumption.

### Spare parts:

name	Life time (hour)	Unit price	Note
Protect lens	>=600	96,00 €	If the working area is better, the machine life time will be longer
Copper nozzle	>=800	32,00 €	
Focus lens	>=6000	980,00 €	

### Training:

LASER IBERIC STUDIO fornece Engenheiro especializado para formação y montagem da máquina em um periodo entre 7-10 Dias