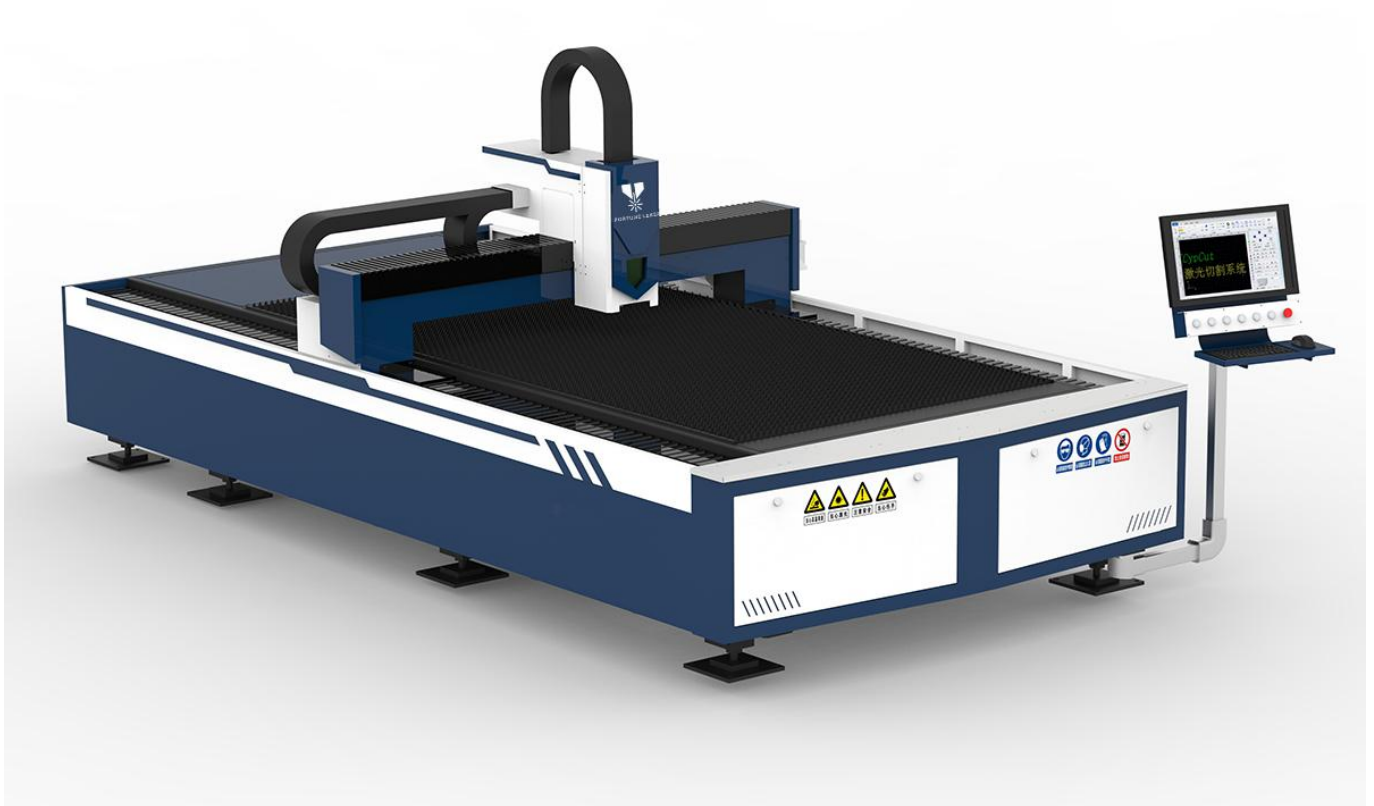


Fortune Laser Technology Co., Ltd.



FORTUNE LASER

FL-S3015 Standard Open Type Metal Sheet Fiber Laser Cutting Machine



Machine Characters

- **Servo dual-drive gantry structure:** Bridge gantry structure, rack rail drive, the use of centralized lubrication device, easy maintenance;
- **Stable and practical:** Reinforced welding bed, high temperature tempering treatment vibration to eliminate stress, machine tool deformation can be controlled at $\pm 0.02\text{mm}$;
- **Industrial aesthetics design:** Export standards in Europe and America, the appearance of aesthetic design, simple atmosphere;
- **The operation is simple and easy to use:** More than 20000 users, global technology leading CNC laser cutting system, flexible operation is simple, has the function of laser power adjustment, to ensure the quality of cutting, the operation is simple and convenient;
- **High-quality cutting:** High-precision anti-collision professional laser cutting head, to ensure the best cutting effect;
- **Efficient material:** Used in the standard specifications of metal sheet cutting, saving time and material;
- **Fiber laser:** Use Maxphotonics laser(Other brands laser are optional), stable and reliable power in the domestic top brand, performance guaranteed;

<u>Machine configuration</u>	
Model	Fiber Laser Cutting Machine FL-S Series
Working Area	3000mm*1500mm
Laser source	1000w Max
CNC Cutting System	Cypcut 1000 operating system
Laser head	OSPRI Manual focus
Machine bed	Fortune Laser
X/Y axis gear rack	Fortune Laser
Precision linear guide	ROUST
Motor Drive	Japan Yaskawa Servo motor (X750W/Y750W/Z400W)
Electronic components	France Schneider
Reducer system	PHILANDE
Pneumatic components	Japan SMC
Machine bed accessories	Fortune Laser
Water chiller	Hanli
Waste recycling equipment	Fortune Laser

Note: This machine configuration is only for your reference, many other brands for each part of the machines are optional based on your requirements and your budget. Please feel free to contact us for more details.

Machine Parts



Strong machine lathed bed

The lathed bed is after aging treatment: 1600°C high temperature heat treatment, 24 hours with furnace cooling and precise CO₂ protection welding, which ensures long-term stability and no deformation.



Aerospace-grade aluminum gantry

Aerospace grade aluminum light quality, high speed, good dynamic response, fast acceleration.
Beam as a whole by the finite element analysis optimization of high rigidity, lightweight design, and durable.



OSPRI laser head

- (1). Famous brand in China.
- (2). Laser cutting head with high precision fiber laser dedicated anti-collision cutting head to ensure high cutting accuracy and cutting efficiency.

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Cypcut control system



Cypcut controller is designed for sheet metal processing industry launched a full-featured open loop control system.

Easy installation, easy adjustment, excellent performance, complete solutions, which is a popular fiber laser cutting machine control system.

Laser Source- MAX 1000W



100,000 hours life time More stable and cost-efficient Free maintenance

Water chiller, Cooling laser device



Protect the the laser device in normal temperature, avoid moisture condensation.


Cooling laser head:

When machine working, laser head will produce large heat, water chiller cooling laser head to make sure the lens and mirrors avoid breaking because of the heat.

Yaskawa Servo motors and drivers



Ac servo motor Improve machine transmission performance.

	<p>Fortune Laser guide rail</p> <ul style="list-style-type: none">(1). Strong bearing capacity(2). Fast moving speed(3). High positioning accuracy(4). Large power for transmission(5). Long-life, Smooth operation, High reliability
	<p>French Schneider electronic components</p> <p>French Schneider electronic parts; high quality ensures the possibility realizing extreme precise positioning with the excellent dynamic response acceleration property and closed loop control method, and that makes moving positioning mechanism operate smoothly, reliably and free of maintenance.</p>
	<p>Motor reducer</p> <p>Installed on X/Y axis. It can protect the ball screw transmission and keep the smooth operation of the machine.</p>
	<p>Pneumatic components</p> <p>Japan SMC</p>  <p>ORTUNE LASER</p>

Machine Parameters

Model	FL-S2015	FL-S3015	FL-S4020	FL-S6020
Working Area (L*W)	2000*1500mm	3000*1500mm	4000*2000mm	6000*2000mm
X/Y Axis Position Accuracy	±0.03mm/1000mm	±0.03mm/1000mm	±0.03mm/1000mm	±0.03mm/1000mm
X/Y Axis Repeat Position Accuracy	±0.02mm	±0.02mm	±0.02mm	±0.02mm
Max Moving Speed	80000mm/min	80000mm/min	80000mm/min	80000mm/min
Max Acceleration	1.2g	1.2g	1.2g	1.2g
Max Loading Weight	600kg	800kg	1200kg	1500kg
Power Supply	AC380V/50Hz	AC380V/50Hz	AC380V/50Hz	AC380V/50Hz
Laser Source Power(Optional)	1kW/1.5kW/2kW/2.5kW/3kW/4kW/6kW/8kW/10kW/12kW/15kW/20kW			

Applications

Suitable for processing metal sheet such as stainless steel, carbon steel, alloy steel, silicon steel, galvanized steel plate, nickel-titanium alloy, inconel, titanium alloy, etc.

Samples Display



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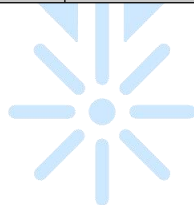
Max Laser Source Cutting process parameters

Note 1: The core diameter of the 1000W-1500W laser output fiber in the cutting data is 50 microns; the core diameter of the 2000-4000W output fiber is 100 microns;

Note 2: This cutting data adopts Raytools cutting head, collimation/focusing lens focal length: 100mm/125mm;

Note 3: Due to the differences in equipment configuration and cutting process (machine tool, water cooling, environment, cutting nozzle and gas pressure) adopted by different customers, this data is for reference only;

Material	Thickness (mm)	Gas Types	1000W	1500W	2000W	2500W	3000W	4000W	6000W
			speed (m/min)	speed (m/min)	speed (m/min)	speed (m/min)	speed (m/min)	speed (m/min)	speed (m/min)
stainless steel	1	N ₂	20-24	28-32	38	30	50	42-43	70-75
	2	N ₂	5.4	7.5	12	10	13	19-20	25-30
	3	N ₂	2.2	4	7	6	8	11-12	12-15
	4	N ₂	1.2	2	4	4	5	6.5-7.5	7.5-9
	5	N ₂		1.1	2	2.5	2.5	4-5	6-7.5
	6	N ₂		0.8	1.5	1.5	1.5	2-3	5-6.5
	8	N ₂			0.8	0.7	1	1.5-2	3.5-4.5
	10	N ₂			0.5	0.5	0.8	1	2.1
	12	N ₂					0.5	0.8	1.1
	14	N ₂							0.9



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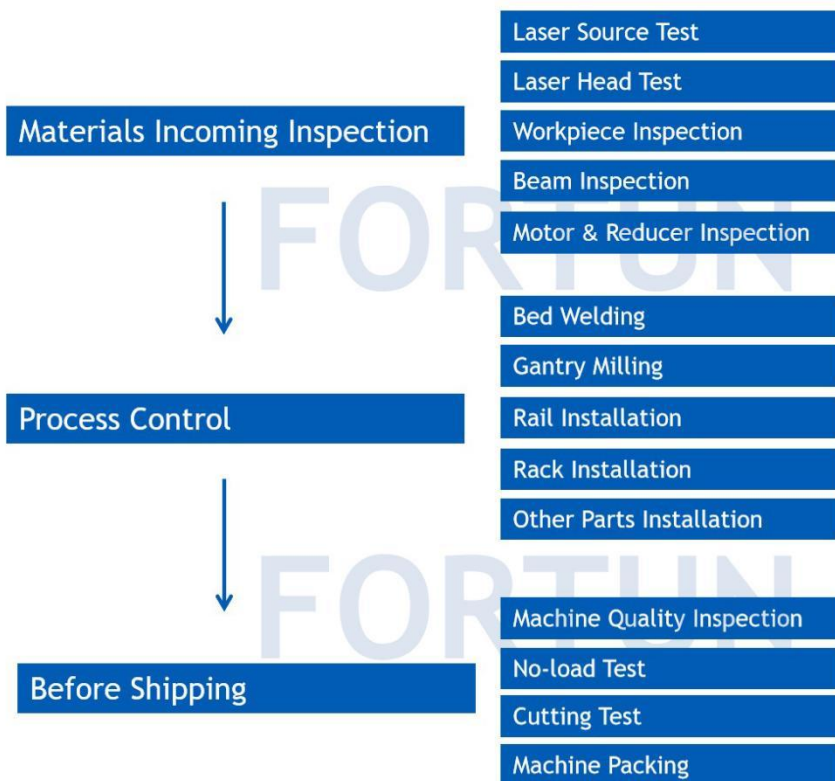
Material	Thickness (mm)	Gas Types	1000W	1500W	2000W	2500W	3000W	4000W	6000W
			speed (m/min)	speed (m/min)	speed (m/min)	speed (m/min)	speed (m/min)	speed (m/min)	speed (m/min)

Carbon steel	1	air	9-12	27-30	27-30	30	50	43	70-75	
	2	air	6-8	8-10	10-12	12	13	20	25-30	
	3	O ₂	3	3	3	4	4.5	4.5	4.5	
	4	O ₂	2	2.5	3.1	3.3	3.5	3.8	3.8	
	5	O ₂	1.6	2	2.5-3	2.5	3	3.5	3.7	
	6	O ₂	1.4	1.8	2.2	2.3	2.5	2.8	3.3	
	8	O ₂	1.1	1.3	1.5	1.5	2	2.3	2.8	
	10	O ₂	0.9	1.1	1	1.2	1.4	1.8	2.1	
	12	O ₂	0.7	0.9	0.8	1	1.1	1.5	1.6	
	14	O ₂		0.6	0.7	0.8	0.9	1	0.95	
	16	O ₂		0.5	0.6	0.7	0.8	0.9	0.85	
	18	O ₂			0.5	0.6	0.7	0.8	0.75	
	20	O ₂			0.4	0.5	0.6	0.7	0.65	
	22	O ₂				0.4	0.5	0.5	0.5	
aluminum	1	air	12-13	15	17-18	29	45	35-37	70-75	
	2	air	4-4.5	6	7.5	8.5	11	15	25-30	
	3	air	1-1.5	3	5	5	7	8-9	15	
	4	air		0.8-1	2	3	4	6	10	
	5	air				1	1.5	3	8	
	6	air				0.6	1	2	5.5	
	8	air					0.5	1	2.5	
	10	air						0.5	1.3	
		12	air							0.9
	brass	1	air	10	12	15	24	40	30-33	65-70
2		air	3	5	6	7.5	10	13	20-25	
3		air	0.5	2	3	4	4	7	5	
4		air		0.5	1.5	2	3	5	4	
5		air			0.5	1	1.5	2	3	
6		air				0.5	0.8	1.5	2	
8		air						0.8	1.2	
10		air							0.5	

Working environment requirements

1. Humidity requirements are 40%-80%, no condensation.
2. Power grid requirements: 380V; 50Hz/60A
3. Power supply grid fluctuations: 5%, the grid ground wire meets international requirements.
4. Cutting with auxiliary gas: Clean, dry compressed air and high purity oxygen (O2) and nitrogen(N2), purity no less than 99.9% purity
5. There should be no strong electromagnetic interference near the installation equipment.
6. Avoid radio transmitters or relay stations around the installation site.
7. Power grounding resistance: ≤ 4 ohms. Ground amplitude: less than 50um; vibration acceleration: less than 0.05g.
8. Avoid a large number of machine tools such as stamping in the vicinity.
9. Air pressure: 86-106kpa.
10. Equipment space requirements are guaranteed to be smoke-free and dust-free, avoiding dusty working environments such as metal polishing and grinding.
11. An anti-static floor must be installed and the shielded cable connected.
12. The water quality of the working cooling circulating water is strictly required, and pure water, deionized water or distilled water must be used.

Quality Control Throughout Every Step



About Fortune Laser

Founded in 2016 and headquartered in Shenzhen city, **Fortune Laser Technology Co., Ltd.** is a professional manufacturer of industrial laser equipment, integrated with R&D, production, sales and maintenance services. Fortune Laser's vision has always been to design and manufacture top quality industrial laser machines that will fit the customers' needs, at an affordable price, with the versatility to suit a variety of industries.

The products line mainly includes plate laser cutting machine, tube/pipe laser cutting machine, automatic feeding laser cutting machine, precision cutting machine, 3D robot laser cutting machine, hand-held laser welding machine, robotic welding machine, continuous welding machine, etc.

With high performance and good reputation, our machines are not only welcomed in China, but also have been exported to more than 120 countries and regions in the world, including United States, Canada, Mexico, Brazil, Colombia, Chile, United Kingdom, Italy, France, Germany, Spain, Netherlands, Romania, Russia, Japan, South Korea, Turkey, Thailand, Indonesia, Malaysia, Vietnam, Philippines, Pakistan, India, Uzbekistan, Egypt, Algeria, Saudi Arabia, United Arab Emirates, South Africa and many other countries.

Wide Range of Applications

Fortune Laser equipment are widely used in hardware tools, sheet metal processing, automobile manufacturing, aerospace, ship machinery manufacturing, agricultural machinery, elevator manufacturing, kitchenware manufacturing, chassis cabinets, glasses, communication products, clock and watch accessories, precision machinery, jewelry and a lot of other industries.



Some Brands We Work with



Grow Your Business with FORTUNE LASER!

Fortune Laser provides complete turnkey laser cutting and welding solutions.

We can produce the machines based on your application and needs.

Please feel free to contact us and see how we can support you!



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