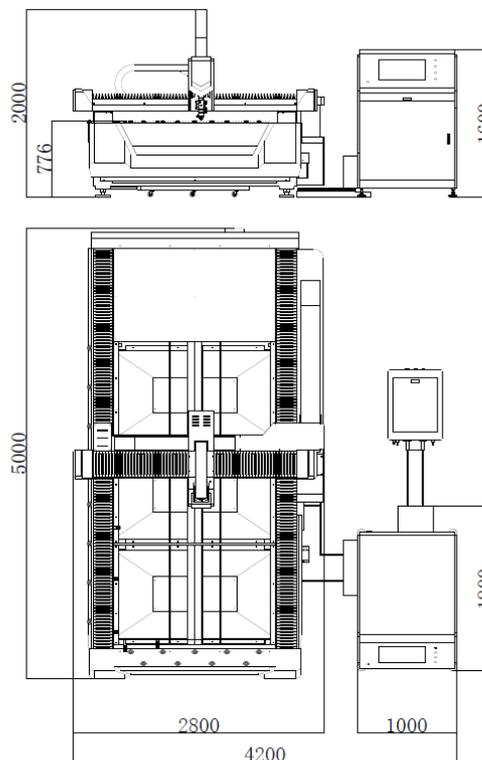


1500W SINGLE TABLE LASER CUTTING MACHINE

1500w 1.5x3m Laser Cutting Machine



1530GH 激光器功率 ≤ 3300w

Layout Chart

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Showroom
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1500W SINGLE TABLE LASER CUTTING MACHINE

Technical Specifications

CONFIGURATIONS				
Items	Main parts	HD image	Brand	Original
1	1500W Laser Generator		IPG	German Brand
			Raycus	China Brand
2	Lubrication system		QY	China
3	Laser cutting head		Raytools (AUTO FOCUS)	Switzerland
4	Reducer (Gear box)		Shimpo	Japan
5	Water chiller		Hanli	China
6	Air conditioner		Tongfei	China
7	Rack and Pinion		ROR	German

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8	Guid Rail-X/Y axis		PMI linear guide rail	Taiwan
9	Guid Rail-Z axis		PMI Screw guide rail	Taiwan
10	Solenoid Valve		Airtac	Taiwan
11	Proportional valve for O2		SMC	Japan
12	High precision following		BSC100	China
13	Industry PC		EVOG	Taiwan
14	X axis servo and Motor		Fuji	Japan
15	Y axis Dual servo and Motor			
16	Z axis servo and Motor			
17	Control System		Cypcut-- English language, file format .dxf, PLT, Gerber, AI.	China
18	FScut-2000			
19	Electrical components		Schneider	France

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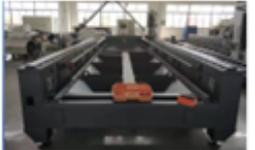
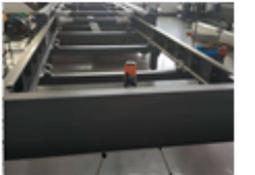
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1500W SINGLE TABLE LASER CUTTING MACHINE

20	Table Production		Machine frame - whole plate sheet welding	QY, China
			Anti-rust paint treatment	
			Annealing-remove stress	
			Milling machine processing -ensure the accuracy of guide rail	
			Painting	
			Testing by API LASER interferometer, to ensure the accuracy	

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1500W SINGLE TABLE LASER CUTTING MACHINE



PARAMETERS		
1	Laser Wavelength	1070nm
2	Maximum Power	1500W
3	Power Consumption	About 15KW
4	Laser Repeat Frequency	CW
5	Max Acceleration	1.0G
6	Min Linewidth	0.15mm (for materials with thickness less than 0.4mm)
7	Max. Speed	120m/min
8	Max Cutting Thickness	M.S: max 14mm, 12mm for production S.S: max 6mm, and 5mm by N2 for production
9	Continued Working Time	≥20 hours
10	Max Cutting Dimension	1500x3000mm 2000x4000mm 2000x6000mm 2500x6000mm 2500x8000mm
11	Workable Cutting Accuracy	±0.05mm
12	Repeated Positioning Precision	±0.02mm
13	Power Supply	Three-phase 5 wires AC 380V±5%, 50Hz/60Hz
14	Software	Software with excerpts cutting function

1500w CUTTING THICKNESS AND SPEED					
Material	Thickness(mm)	Gas	Speed(m/min)	Cutting power(w)	Nozzle
Carbon steel	1	O2	8.0-10	900-1200	1.0D
	2		4.0-6.5	1000-1500	1.0D
	3		2.4-3.0	1500	1.0D or 1.2D
	4		2.0-2.4	1500	1.2D
	5		1.5-2.0	1500	1.2D
	6		1.6-1.8	1500	1.2D
	8		1.2-1.5	1500	1.2D
	10		1.0-1.2	1500	1.2D
	12		0.6-0.9	1500	1.2D
	14		0.6-0.7	1500	1.2D or 1.4D

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1500W SINGLE TABLE LASER CUTTING MACHINE



Stainless steel	1	N2	28-32	1500	1.5S
	2		8.0-10	1500	1.5S
	3		4.0-4.8	1500	1.5S
	4		2.0-2.4	1500	2.0S
	5		1.0-1.3	1500	2.0S
	6		0.7-0.9	1500	2.0S
Aluminum	1	N2	21-25	1500	1.5S
	1.5		8.5-12	1500	1.5S
	2		6-8.4	1500	1.5S
	3		3.6-4.2	1500	2.0S
	4		0.9-1.2	1500	2.0S
Brass	1	N2	16-18	1500	1.5S
	2		6-8.4	1500	1.5S
	3		2.4-3.6	1500	2.0S

Note: Red color means Max. Cutting thickness for sample cutting, can not for long time production.

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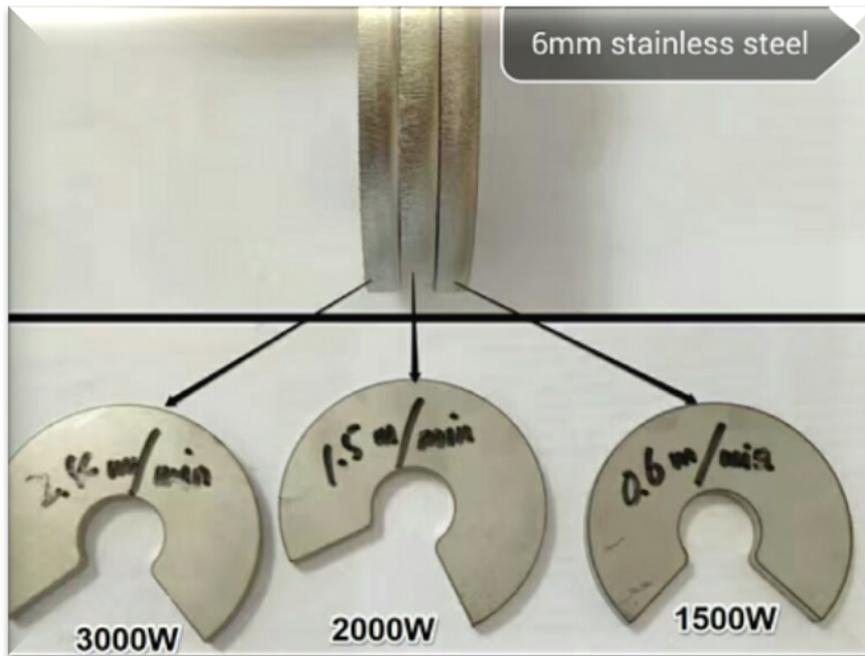
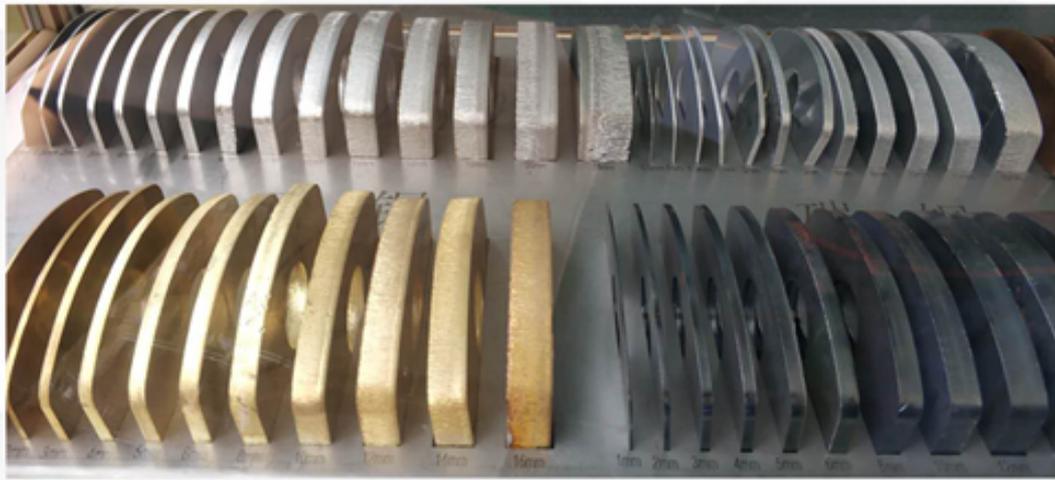
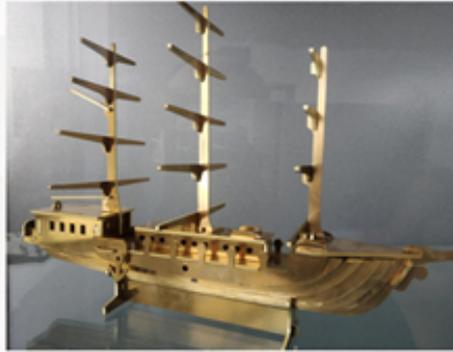
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1500W SINGLE TABLE LASER CUTTING MACHINE



Cutting samples



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QY laser cutting machine advantages

1. Steel plate welding table

Using the finite element and the dynamic simulation analysis of the high-strength bed, the deformation of the beam is less than 0.015mm under working with higher acceleration and the stress are eliminated by the T6 heat treatment.

Table production:



1. Table steel welding



4. Import gantry mill grinding



6. America Import API laser interferometer test



2. 600°C Heat Treatment



3. Anti-rust painting



5. Painting again

1500W SINGLE TABLE LASER CUTTING MACHINE

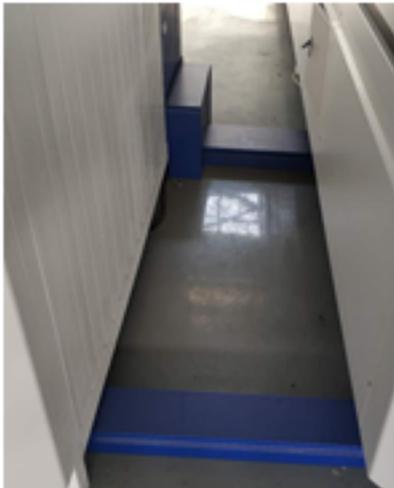


2. Air conditioner for control box

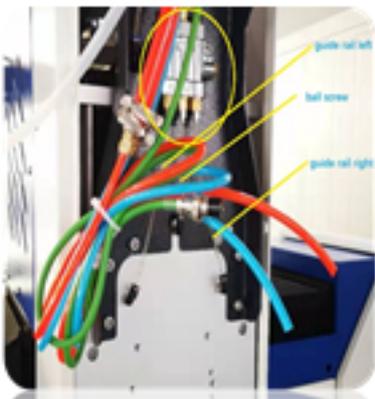


With all electrical components, PC, laser source inside the control box, which will keep the machine working stably even 24hours contined working, prlong lifetime of electrical parts and laser source, dust isolation.

3. Steel cover to put all pipes and electric wires inside for protection.



4. Cutting Head Back Metal Plate is complete module



A: Use the complete module with better seal performance and anti-dust

B: High precision, high stability with auto lubrication

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1500W SINGLE TABLE LASER CUTTING MACHINE



4. Packages in Details and pictures

All the parts packaged with twining cotton and then fixed to the container



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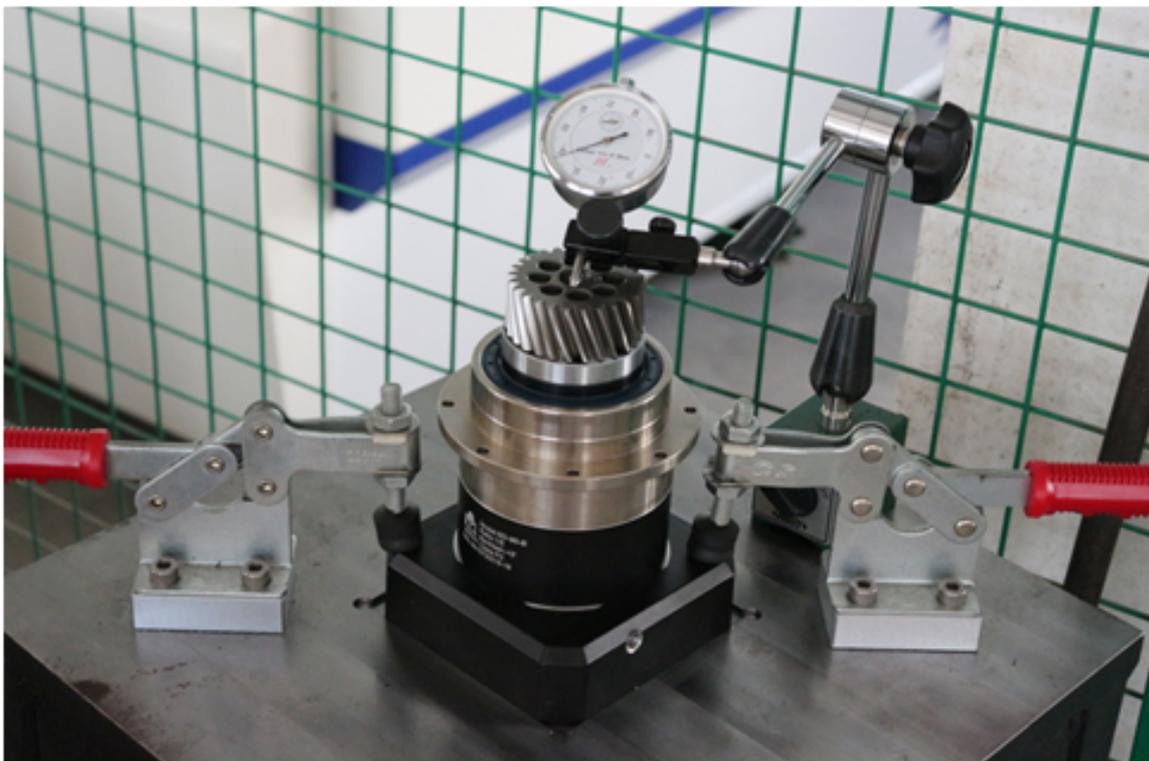


5. Quality Control

5.1 Each screw is tightened according to the standard



5.2 Each reducer will be checked and calibrated for output axis flatness, roundness and coaxiality, and the installation of each pinion is controlled within the accuracy range.



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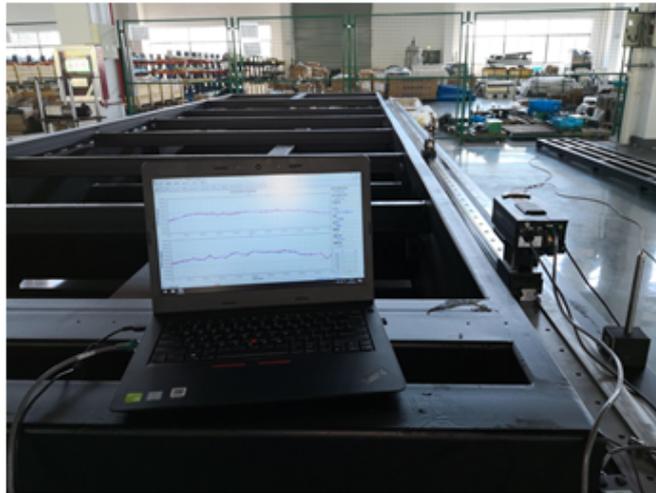
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1500W SINGLE TABLE LASER CUTTING MACHINE

DANOX
Just Weld It

5.3 Each guide rail is calibrated with a collimator



5.4 The accuracy of splicing at every two racks is controlled within 0.01mm



5.5 After installation and adjustment, the machine will be checked with API laser interferometer produced by the United States and accuracy of compensation to ensure the machine walking accuracy and repeat positioning precision.



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6. Machine Working Environment

6.1 Power requirements three-phase, five wires ; AC380V ; 50Hz;

6.2 Power grid fluctuation: $\pm 3\%$, power grid in line with international requirements. Area with voltage amplitude more than 5%, should consider to use voltage stabilizer, steady flow device and phase-failure protection device

6.3 Power ground resistance: ≤ 3 ohms

6.4 Air dust less than 0.01g / CBM

6.5 There should be no strong electromagnetic interference near the installation area, and there should be no any radio transmitter station (or relay station)

6.6 Foundation amplitude: less than 50um; vibration acceleration: less than 0.05g. A large number of punching and pressing and other machine tools near around is not allowed.

6.7 Equipment space requirements smoke-free dust-free, to avoid dust and other metal polishing grinding serious working environment;

6.8 Gas pressure (pressure different according to different materials)

(1) Dry filtered air : 1Mpa - 1.3Mpa ;

(2) O₂ : 0.4Mpa -0.8Mpa ;

(3) N₂: 0.8Mpa-1.2Mpa ;

6.9 Some environments should be installed anti-static floor;

6.10 Strict requirements is need for the quality of water circulating cooling water, require the use of pure water, deionized water or distilled water, cannot use tap water, mineral water and other high metal ions or other minerals in water.