



YAG Laser Metal Cutting Machine



Description:

FAL-C series of YAG laser metal cutter is optical-mechanical-electronic integration processing equipment. It uses CNC and laser technology. The machine adopts high-performance CNC laser power system and fully sealed optical system which has the function of light path preview and focus instruction. Humanized design brings visual enjoyment. The equipped external water-cooling system can adjust temperature accurately and provides a reliable guarantee for long time operation. YAG metal laser cutting machine is suitable for fast and efficient processing all kinds of sheet metal.

Applicable Materials:

Suitable for stainless steel, carbon steel, alloy steel, spring steel, copperplate, aluminum sheet, metal sheet (egg, gold, silver, titanium, etc), tubular product, etc.

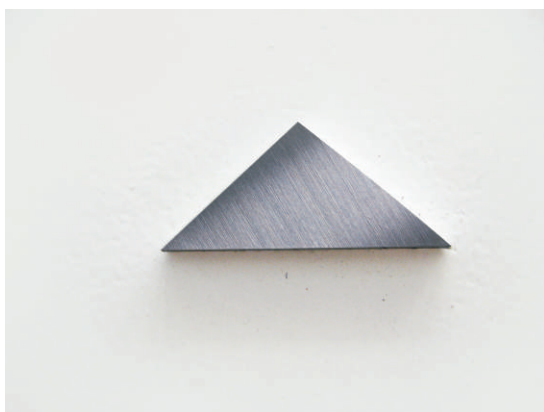
Applicable Industries:

Widely used in the field of billboard advertising production, sheet metal structure, high & low voltage electrical cabinet making, textile machinery parts, kitchen utensils, automobiles, machinery, elevators, electrical parts, spring lamination, etc.



Features:

- ◆High precision, suitable for cutting accurate fittings.
- ◆Fast speed, 100 times faster than linear cutting.
- ◆Small heat-affected zone, not easy to deformation.
- ◆Smooth cutting edge, without further processing.
- ◆Easy to operate, and can cut under room temperature or some special conditions.
- ◆Adopt Taiwan linear guide, Panasonic servo drive, and precision ball screw transmission to make machine' s dynamic performance achieve optimal.
- ◆Using gantry structure, which is compact and stable.
- ◆Adopt imported optical components. The beam quality is good and electro-optical conversion efficiency is high, with good reliability and long-term stability.





Cutting Parameters:

Material	Cutting thickness (mm)	Max. cutting speed (mm/min)	Punch Diameter (mm)	Min. Line Width (mm)	Gass
Stainless Stell	0.5	3000	0.15	0.12	Compress air, O2, N2. Please select according to actual situation.
	1	2000	0.2	0.15	
	2	800	0.25	0.2	
	3	400	0.3	0.25	
	4	250	0.4	0.3	
	5	200	0.6	0.4	
	6	120	0.7	0.45	
Carbon Stell	0.5	3000	0.12	0.12	
	1	2000	0.15	0.12	
	2	800	0.2	0.15	
	3	400	0.3	0.2	
	4	250	0.5	0.3	
	5	200	0.6	0.35	
	6	150	0.8	0.4	
Aluminum	0.5	3000	0.12	0.12	
	1	2000	0.15	0.12	
	2	800	0.2	0.15	
	3	400	0.25	0.2	
	4	250	0.3	0.25	
	5	150	0.4	0.3	
	6	120	0.5	0.4	
Brass	0.5	2000	0.15	0.12	
	1	1000	0.2	0.15	
	2	800	0.25	0.2	
	3	300	0.3	0.25	
	4	250	0.4	0.3	
	5	120	0.5	0.4	
Red copper	0.5	800	0.12	0.12	
	1	500	0.15	0.12	
	2	200	0.2	0.15	



Technical Parameters:

Model	FAL-C1209-500	FAL-C2513-500	FAL-C3015-500	FAL-C4115-500
Working Area	1200×900mm	2500×1300 mm	3000×1500 mm	4100×1500mm
Machine Weight	1000kg	3780 kg	4000 kg	4200kg
Max.Cutting Thickness	8mm (carbon steel)			
Max.Output Power	500W			
Laser wavelength	1064nm			
Impulse Frequency	1-300HZ			
Min. Line Width	0.15mm			
Power Supply	380V/50HZ/100A			
X.Y.Z axis Location Precision	$\leq \pm 0.08$ mm / m			
X.Y.Z Repeat Location Accuracy	$\leq \pm 0.04$ mm / m			
Cooling Type	7P Water Cooling			
Max. Cutting Speed	35 mm/s			

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