BROCHURE

YT46F-40 Laser cutting machine

Machine reference picture:



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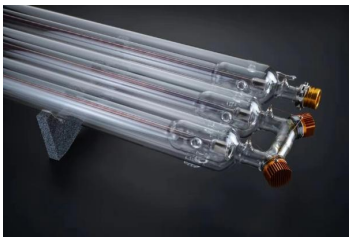
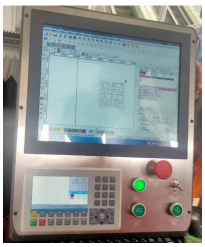
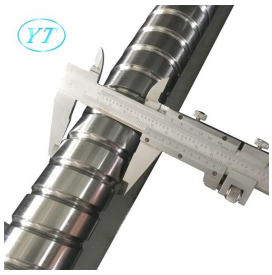
2023 Version

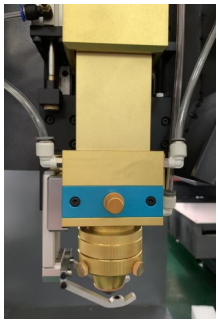
1. APPLICATIONS:

YT46F-40 laser tube cutting machine is mainly for cutting various die board in color print industry, electronic products, and other light industry, sheet metal industry such as carbon steel, sheet, stainless steel sheet, aluminum alloy sheet; acrylic material, plastic material, and another non-metal sheet.

With stable body structure design, flexible working function, professional CNC control system, the cutting efficiency and quality has more advantages over traditional cutting method. This machine satisfies the die making factory, carton factory and other package& printing factory who need to make flat dies.

2. Machine consist:

Product name	Picture
400W laser tube	
CNC Control system 15inch screen	
30mm Ball screw TAIWAN HIWIN	
Automatic refueling system	
Linear guide TAIWAN HIWIN	

Laser head **head with fully enclosed design anti-dust, easy adjustable up and down function to control foc al length**	
Auto Clamp	
Water chiller system（China） **JZ-6200** L0.7m*W0.6m*H1m Weight: 85kgs.	

3.TECHNICAL PARAMETERS

Model No.	YT46F-40	
Power	400 W	
The table style	Gantry construction with fixed cutting head	
Laser source	laser tube	
X-axis travel-length	1200mm	
Y-axis travel-length	1800mm	
Cutting speed	18 mm die board	2mm stainless steel
	30~36m/H	60m/H
Re-Positioning Precision	≤0.02mm	
Cutting width kerf	0.45mm, 0.71mm, 1.05mm, 1.07mm	
Transmission system	Ball screw & Linear guide (TAIWAN)	
Driving system	made in china	
Optical system	US program	
Overall dimensions (L*W*H)	4600*2300*1800mm	
Gross Weight	2000kg	
Laser cutting thickness	1-25mm（plywood, acrylic board, rubber, pvc board, leather, MDF board)	
Metal cutting thickness	Carbon steel/Iron steel :3mm	
	Stainless steel :1.5 mm	

4. CONSUMPTION:

Total rated Power	Electricity consumption	400W laser tube
4KW	4degree/H	3000 r/set

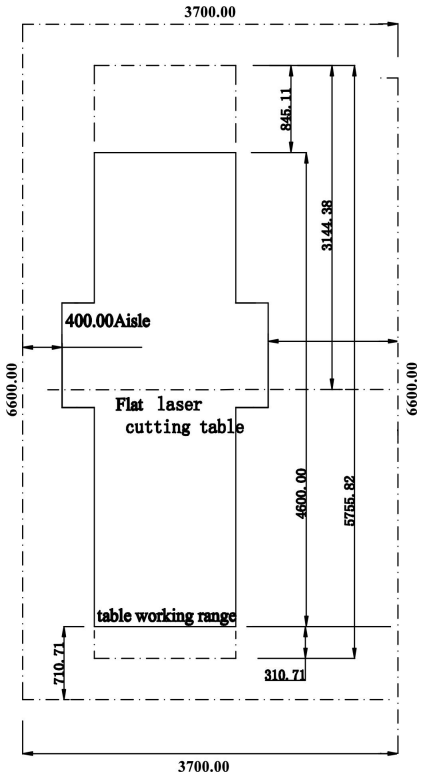
5. FUNCTION AND FEATURES

- Gantry structure with fixed cutting head, stable working, small floor space required for machine.
- Adopt domestic most advanced 400W CO2 sealing type water-cooled laser tube, combined with good precision of CNC control mechanical systems. It can reach cutting die manufacturing precision and at the same time greatly reduce the production cost. Suitable for wooden cutting die and precision electronic cutting die production.
- Using fixed optical path structure, to avoid the high-power cutting size problem because of the optical path deviation.
- Unique smoke exhausts design; create a good working environment for you. Using the most advanced laser tube in China and no need to add any auxiliary gas when cutting, laser cutting die consumption is extremely low. Only 220v external power source is needed and making low cost. There is no need to wait long time for start and running the machine.
- Can one-time cutting 15mm-23mm plywood, PVC board, organic glass. The cutting line width can be 0.45mm, 0.71mm, 1.05mm.
- Simple and clear-cutting line adjustment technology. Cutting software can be compatible with AutoCAD. CorelDraw, Adobe Photoshop. Editing path is very easy and convenient.
- The laser head is automatically adjusted, and no need manual intervention of cutting
- The laser head is controlled by high-precision servo system and induction system, height of laser head adjusts automatically with the surface of the plywood
- Auto focus system to make sure height of laser head adjusts automatically with the surface of the plywood; Can cut 2pt/3pt line or 3pt/4pt line at the same time.

6. LASER TUBE CHARACTERS:

- All the optical lens imported from USA II VI Inc. making laser output power higher and more stable pattern, all the optical lens assembly are in the 100% clean room to complete, is the only manufacturer with clean assembly room.
- Entirely through ISO9002 quality system certification of the manufacturers, is the only one to do CO2 laser manufacturers through this certification.

7. Machine required space:



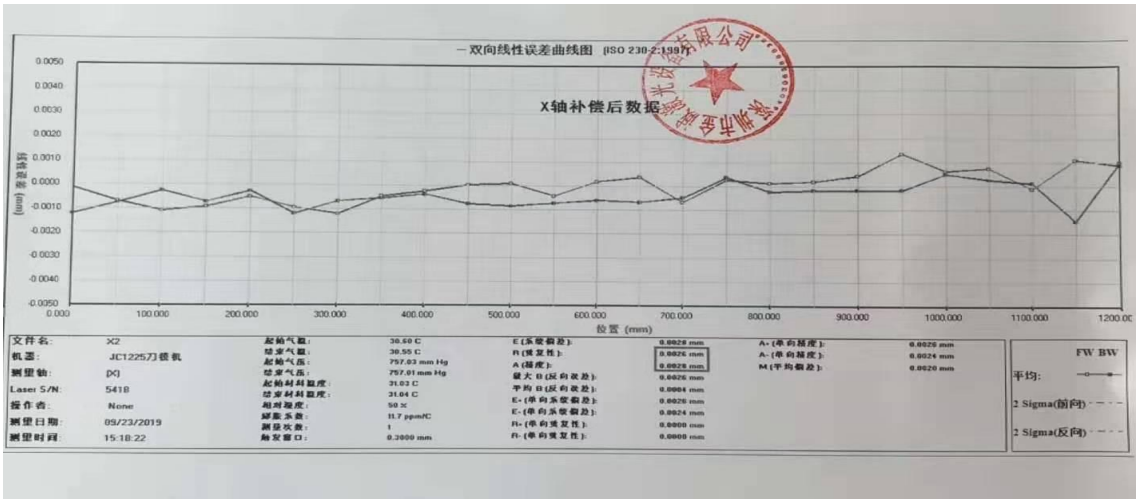
8. MACHINE ENVIRONMENT REQUIREMENTS:

- Total required rated power: 5KVA.
- Single phase 220V, 50～60HZ
- Machine environmental requirements:

  Temperature Requirements: 5~30℃; Humidity: ≤ 70%.
- In accordance with the drawing's foundation provided
- Specific cable length is determined depending on the user site
- AR acetone or high purity 95％alcohol each minimum 50 ML
- Air compressor: 4HP
- Drying machine
- Packing: FCL 20GP

9.CERTIFICATE & ACCURACY REPORT:





Moving accuracy testing by laser meter, Tolerance is 0.02mm

10. CUTTING SAMPLE & APPLICATION AREA:

