

3D ROBOT laser cutting and welding machine



Perfect intelligent laser cutting and welding workstation for after-sales service

3D ROBOT

The 3D robotic laser automation system SF-20RFLS integrates laser cutting, welding, cleaning and marking functions to help customers achieve flexible planning, production tracking and quality monitoring, which not only improves equipment utilization, but also reduces quality unqualified conditions.

Manufacturing costs, reduced lead times, and intelligent and digital production.

1. Using the FNUCM-20iA robot mechanism, the laser cutting, welding, cleaning, marking and processing systems are organically combined to realize the innovation of laser cutting, welding, cleaning, marking and processing systems, ensuring the stability of the working process and High precision.

2. Compared with the traditional welding method, laser welding has the characteristics of high speed, deep welding depth and small deformation. The weld strength is higher than the workpiece itself, and the weld quality is stable.

three. The combination of laser marking and robotic system will greatly expand the application range of laser marking. It can realize marking according to different workpieces and truly realize various functions.

four. Combine laser cleaning with a robotic system to improve positioning accuracy and selectively clean according to customer needs.

5. Customized workbench, customized workbench according to customer requirements, highly integrated PLC control system will provide customers with complete solutions, all control systems can be operated on the screen, easy to learn and operate.

Detailed Images



1. Effective combination of cutting and welding, fast cutting speed, good weld density and high strength
2. Laser heat concentration, fast welding speed, small thermal deformation
3. High production efficiency, improve the working environment of workers, and control the product cycle
4. The product consumes less energy, the use cost is low, and the maintenance is simple and convenient.
5. Adopting Ricoh fiber laser, the performance is stable, and the overall quality of the product can be guaranteed.
6. Can design multi-station work together, take turns loading and unloading

3D ROBOT fiber laser cutting machine FANUC m-20ia



FANUC ROBOT M - 20iA is a cable-built multifunctional 6-axis ROBOT with the highest performance in its series. The high strength arm and the first end servo technology can effectively improve the speed and acceleration performance. It will reduce more than 15% operation time, achieving the highest production capacity in the industry.



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3D Laser Head

Overall optimization of optical focusing system, modular design, slender nozzle to reduce workpiece interference, light weight, small size, reduce robot load requirements, improve cutting speed and quality.



Technical Parameters

Model	SF-20RFLS 3D ROBOT LASER CUTTING AND WELDING WORKSTATION
X/Y Arm Length	1800x3200mm.
Laser Power	750w/1000w/1500w/2000w/3000w
Maximum Speed	0-80m/min
Positioning Accuracy	± 0.08mm
X/Y Axis repeated positioning Accuracy	± 0.02mm
Control System Brand	CYPCUT
BODY AND CONTROL CABINET	FANUC M-20iA
Machine weight	1000 kg
Installation	Vertical / Suspension

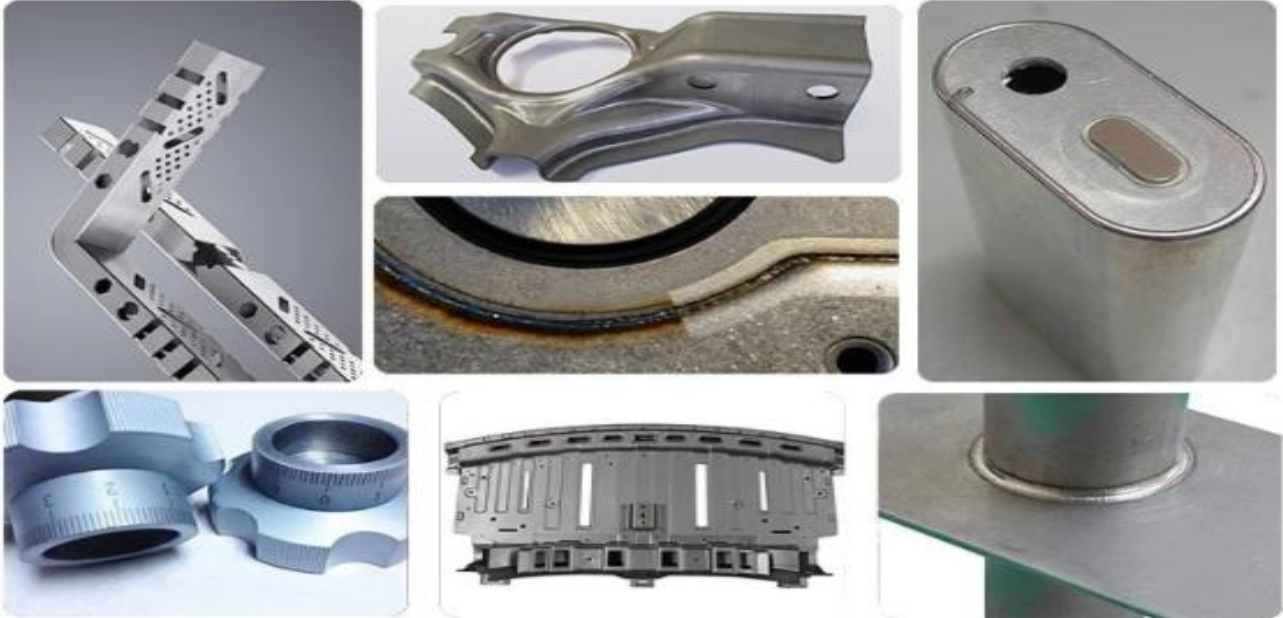
Quick Details

Brand Name	SENFENG
Place of Origin	CHINA
Application	Laser Cutting + Laser Welding
Graphic Format Supported	AI,BMP,DST,DXF,PLT
Laser Head Brand	RAYTOOLS,SENFENG
Laser Source Brand	RAYCUS,IPG
Cooling Model	Water Cooling
Auxilliary Gas for Cutting	Oxygen (O2) / Nitrogen (N2)
Working Voltage	AC380V./50Hz. or 60Hz.
Warranty	2 YEARS

Application & Capability

Use sheet metal material and round-square tube metal.

Special machine used for Carbon steel , Stainless steel, alloy, aluminum, brass, copper, galvanized steel, silicon steel sheet, electrolyte sheet, titanium alloy, manganese alloy and other metals.



Related industries

Widely used in Metal industry manufacture kitchen appliance, electrical Control box, Electromechanical equipment, Optical equipment, Hardware equipment, Elevator Manufacturing, Auto parts, Display device, hardware. And metal processing , Advertising design, decoration, gifts, thin metal crafts, electronics, electrical appliances, household appliances, instrument processing and other manufacturing and processing industries.





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