

3D ROBOT Fiber Laser Cutting Machine



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3D robot fiber laser cutting system, the arm length can reach to 1800mm * 3200mm. The cutting head has a high-precision follow-up system to ensure that the nozzle is consistent with the cutting height. It can cut multi-angle and multi-directional of sheet metal with different thicknesses.

Product Features

Features

Stable and reliable light path system and control system;
Imported original fiber laser generator with great and stable performance, lifespan is over 100,000 hours;
High cutting quality and efficiency with cutting speed up to 25m / min and beautiful, smooth cutting edge.

1. 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.

2. 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.

3. Advanced

LMR three-dimensional multi-axis intelligent laser cutting equipment is composed of special optical fiber laser cutting head, high precision capacitive tracking system, optical fiber laser and industrial robot system. It is an advanced equipment for flexible cutting of metal sheets with different thicknesses from multiple angles and directions. LMR three-dimensional multi-axis intelligent laser cutting equipment is widely used in metal processing, mechanical manufacturing and automotive parts manufacturing, which have processing requirements for three-dimensional workpieces.

Detailed Images



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3D Laser Head

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Technical Parameters

Model	3D ROBOT FIBER LASER CUTTING MACHINE
X/Y Arm Length	1800x3200mm.
Laser Power	750w/1000w/1500w/2000w/3000w
Maximum Speed	16m/min
Repeated positioning Accuracy	± 0.08mm
External maximum working radius	1181mm
Inner minimum working radius	317mm
Load quality	Shaft 6 maximum load 20kg
Control System Brand	CYPCUT
BODY AND CONTROL CABINET	FANUC M-20iA
Machine weight	250 kg
Installation	Vertical / Suspension

Quick Details

Brand Name	SENFENG
Place of Origin	CHINA
Application	Laser Cutting
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.



Carbon Steel Cutting



Brass Cutting



Stainless Steel Cutting



Metal Decoration



Elevator



Ship Hull



Contacts



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