



GEM Laser Cutting Machine

GEMQG-2513(500W)



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OVERVIEW

Laser has applications in teaching, military and industry. The laser cutting machine is one of its applications. Laser cutting machines are used in both metal and nonmetal cutting. The use of laser beams to melt the surface of materials Laser cutting machine is one of the most popular laser processing equipments. Laser cutting consists of laser vaporization cutting, laser fusion cutting, laser oxygen cutting, laser scribing and control fracture.

FEATURES

- 1.500W large scale metal YGA laser cutting machine GEMQG-2513 Obtained three patents, a software copyright. (ZL201020516079.0, ZL201020516092.6, ZL201120176929.1, character No. 0252558)
2. Using the advanced laser technology, small spot, centralized power, narrow kerf, high cutting efficiency.
3. Laser cutting machine adopts Gantry double screw rod, double servo motor synchronous drive, running smoothly, cutting precision is high. In this way, only a few hundred million high-power laser cutting machine is adopted. Cut fine lines, small round and other small patterns, no deformation, the effect is good.
- 4, the focal length following design, even if the material surface is not smooth, still can guarantee the cutting quality, the cutting seam is smooth and beautiful, without the sequence processing procedure.
- 5、humanized control cabinet, convenient for users to operate and use.

SPECIFICATIONS

Type	GEMQG-2513(500W)
Cutting scale	2500mmx1300mm
The max thickness of materials for cutting	6mm (AIR) 8mm (OXYGEN)
The setting of accuracy of X, Y axis	±0.02mm/1000mm
The resetting of accuracy of X, Y axis	±0.02mm
The following adjusting scope of Z axis	100mm
The output power of laser	500W
The wavelength of laser	1064nm
Pulse frequency	0-300Hz
The max cutting speed	4000mm/min
The dimension of the whole machine	3200mmx2000mmx1400mm
The weight of the whole machine	<2300kg
The size of the controlling cabinet	1150mmx1400mmx700mm
The weight of the controlling cabinet	260Kg
The power	380V/50Hz/60A
Cooling way	water cooling

Device configuration list (Standard, Option)

Item	Subsystem	Component	Model	Quantity	Mark
1	Laser marking head	High speed scanning galvanometer	Light Φ10mm	1pcs	China
		Galvanometer drive card		1pcs	
		Scanning field mirror	f=160mm	1pcs	China/Import
		Beam expander	10X	1pcs	China/Import
2	Laser	Green Laser	pulse-532-005	1set	China
3	Laser marking machine cabinet	Cabinet		1set	GEM
4	Computer&software	Computer	Desktop	1set	Lenovo
		Software	Software	1set	GEM
6	Workbench	Precision workstation		1set	GEM
7	Seat				

Laser Marked Samples



Applications

Suitable for cutting metal materials: such as carbon steel plate, stainless steel plate, iron plate, alloy steel, aluminum and alloy, copper and alloy, nickel molybdenum alloy and so on. Widely used in sheet metal, hardware, lamps, kitchen utensils, chassis cabinets, steel structure, precision machinery, auto parts, glasses, jewelry, nameplate, advertising, crafts, electronics, toys, packaging and other industries.