



# GEM Laser Cutting Machine

GEMQG-3015(650W)



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## OVERVIEW

Laser cutting equipment can be used to cut stainless steel below 16mm. In the laser beam, oxygen can be cut from 8 to 10mm stainless steel, but after oxygen cutting, a thin oxide film will be formed on the cutting surface. The maximum thickness of the cutting can be increased to 16mm, but the size of the cutting parts is larger.

## FEATURES

- cost savings for users  
Cutting metal plates below 6mm requires only blowing air (ordinary air 0.6MPa-0.8MPa) without the need to blow oxygen. Saving the cost of using oxygen.
  - cutting speed faster than similar equipment  
Cutting speed is higher than similar equipment 30%, the fastest cutting speed of 4 meters per minute.
- Characteristic description:
1. 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	JMQG-3015(650W)
Cutting scale	3000mmx1500mm
The max thickness of materials for cutting	6mm (Air) 10mm (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	650W
The wavelength of laser	1064nm
Pulse frequency	0-300Hz
The max cutting speed	4000mm/min
The dimension of the whole machine	3700mmx2200mmx1400mm
The weight of the whole machine	<2500kg
The size of the controlling cabinet	1150mmx1400mmx700mm
The weight of the controlling cabinet	260Kg
The power	380V/50Hz/70A
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 stainless steel, carbon steel, galvanized sheet, alloy steel, aluminum and alloy, nickel molybdenum alloy plate and other materials. Widely used: chassis cabinets, kitchenware, lamps, electrical and electronic products, metal products, household appliances, instrumentation, precision machinery, steel structure, auto parts, elevator manufacturing and advertising (such as stainless steel, crafts, toys, packaging) and other industries