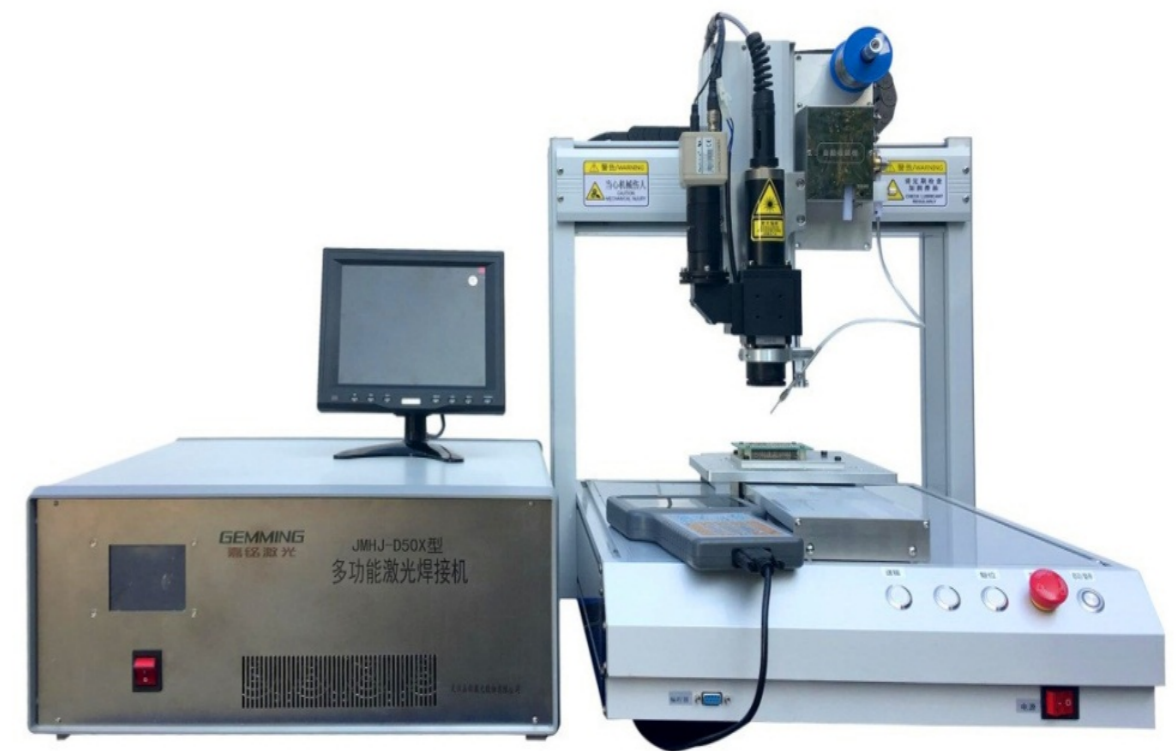




GEM Laser Welding Machine

GEMHJ-D50X



GEM LASER LIMITED

A Legend Laser machine Manufacture & Solutions

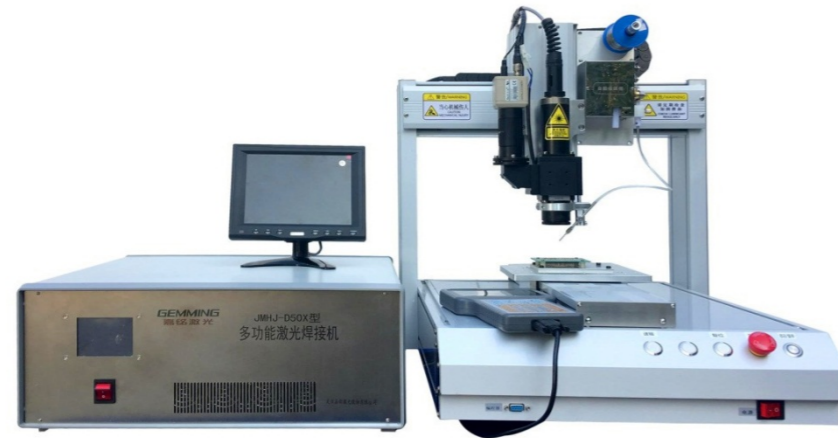
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OVERVIEW

GEMHJ-D50X-Muti-function soldering laser welding machine is a new type of welding, small heat affected area, small deformation, welding speed, solder joint formation, beautiful, high quality, no pores, can be precisely controlled, focused light spot, high positioning accuracy, easy to achieve automation.

FEATURES

- 1, fast, small deformation. Small point, energy concentration, accurate solder joints;
- 2, can be at room temperature or special conditions for welding, welding equipment is simple.
- 3, can be micro-welding. The laser beam can be obtained after spot focusing, and can be precisely positioned, and can be applied to a large number of automatic production groups and small parts for welding.
- 4, the laser beam is easy to achieve beam time and space spectrum, multi-beam processing and multi-station processing, for more complex welding conditions.
- 5, the use of non-contact welding, no mechanical stress damage, cooling effect is small, no static threat

SPECIFICATIONS

Model	GEMHJ-D50X
Laser type	Fiber laser
production methods:	CW (continuous power)
Laser wavelength	808nm/9xxnm
Laser power	50W
Spot	0.4mm (min)
Indicating light	5mW/650nm
Temperature monitoring	
cooling method	Air-cooled
Laser repetition frequency	CW
Energy instability	≤2%
Focus distance:	50mm
Laser semiconductor life:	More than 20,000 hours
Maximum welding speed	0.2s
Continuous working hours	≥24 hours
Worktable positioning accuracy	±0.02mm
Worktable repeatability	±0.01mm
Table carrying	10KG
Input power	Simplex AC220/50Hz
Current	5A
Total power	1KW
Total Weight	20KG

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				

Applications

Applicable VCM motor coil welding, flexible circuit board FPC or hard circuit board PCB welding, high precision LCD screen LCD welding, connector precision soldering, PCB board soldering, thermal welding materials, heat treatment, laser plastic welding and other fields.

Laser Marked Samples

