



GGHJ-M300系列
激光模具焊接机



GGHJ-Z系列
振镜扫描激光焊接机

● 机型简介:

激光沉积焊接系统（激光模具焊接机）专门针对模具行业设计，用于精密模具的修补，如数码产品、手机、玩具、汽车、摩托车等模具制造和成型行业。通过模具的修补，可以将原来的模具重新充分利用，大大节约了生产成本和提高了工作效率。此技术更可应用于修改模具的设计或尺寸，减短产品开发的周期。

The laser deposition welding system (laser mould welder) is specially designed for the mould industry and used in repairing of precision moulds, such as mould manufacture for digital products, mobile phone, toy, automobile and motorcycle, and molding industry. Through the repairing of moulds, it is possible to reuse the moulds, save the production cost and improve the working efficiency significantly. This technology can also be used to modify the design or size of moulds to reduce the development period.

● 机型特点:

此激光沉积焊接系统的工作原理，是以激光高能并集中定点的熔接技术，有效处理一切微小部分的焊接及修补工作，弥补了传统氩弧焊技术在修补焊接精细表面时的不足。避免了热应变和后处理这两道门槛，大大节省了模具的生产周期。

The working principle of this laser deposition welding system is to use laser high thermal energy and the melting technology in spot to process the welding and repairing of minute parts. It makes up the shortage of traditional hydrogen arc welding in repairing precision surfaces, avoids the two difficulties of thermal strain and after-treatment, and saves the production period of mould.

● 适应材料:

精密激光模具焊接机可焊接的材料非常广泛,包括:冷作高合金钢、热锻高合金钢、含镍工具钢、高级钢、铜合金、铍铜、高韧铝合金等金属材料。

型号	GGHJ-M300
工作台三轴行程	X=300mm,Y=200mm(X、Y手动可调节, Z轴电动升降)
工作台承载	≤200KG
设备重量	300kg
机器供电	220V ± 10%/50Hz或380V ± 10%/50Hz
激光参数	
激光类型	Nd:YAG脉冲
激光波长	1064nm
最大单脉冲能量	40J
脉宽	0.2~20ms
最大激光功率	180W/200W
脉冲频率	1~15Hz (可调)
聚焦光斑	0.3~3.0mm (可调)
激光冷却	水冷
保护气体	1路(氩气)
焊料参数	
焊丝直径	0.1mm~0.6mm

● 机型特点:

该激光焊接机采用振镜扫描方式，焊接速度快、精度高、光束模式好，特别适用各种零部件的激光精密点焊。在单点焊接时由于极大的减少了空程定位时间，生产效率比普通激光点焊工效提高4-10倍。扫描式激光焊接机是由YAG固体激光器、激光电源、光学扫描系统、三维可调节工作台、工控机系统、制冷系统、激光指示系统，操作机柜等组成。

该机提供基于windows平台下的专用激光焊接软件。焊接点或图形可在其专用软件中直接输入、编辑，也可由Auto CAD、Corel DRAW等其它软件编辑，再通过其专用软件导入进行处理。本机质量稳定、操作方便、维护简单。

可光纤传导，与主机分开，使用更方便。

The laser welding machine adopts galvanometer scanning, welding speed, high accuracy, the beam pattern is good, especially for precision laser spot welding various parts. Due to greatly reduce the air-way positioning time, productivity increased 4-10 times faster than ordinary laser spot welding efficiency when welding at a single point. Scanning laser welding machine by YAG laser, laser power, optical scanning systems, 3D adjustable workstations, industrial control systems, refrigeration systems, laser pointer system, operating the cabinet and other components.

Dedicated laser welding machine based software windows platform. Weld or graphics can be entered directly in its proprietary software, edit, or by other software to edit Auto CAD, Corel DRAW, and then through its proprietary software imported for processing. The machine stable quality, easy operation and simple maintenance.

Fiber conduction may, with the host separate, easier to use.



机型	GGHJ-Z100	GGHJ-Z200
激光器	Nd:YAG	
波长	1064nm	
最大单脉冲能量	30J	40J
最大激光功率	100W	200W
脉冲宽度	0.1~15ms (可调)	
脉冲频率	1~100Hz (可调)	
点焊速度	≤15个点/s	
光点大小	0.3mm	
光斑尺寸可调范围	0.1~3.0mm	
冷却	水冷	
主机外形尺寸	1600 x 800 x 1500mm	