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BMM CNC 400 Laser Welding Machine



Features

With maximum laser output power, this product employs British dual-lamp ceramic reflecting cavity, with high power, programmable pulses and intelligent system management. Axis Z on the workbench is adjustable upward and downward electrically for focusing, with industrial PC for control. It is equipped with three-dimensional free moving workbench of separate axes of X, Y and Z. Rotating clamps are optional ($\phi 80\text{mm}$ or $\phi 125\text{mm}$).

The monitoring system employs microscopes, red light, CCD, and configured with a cooling system.

Advantages:

1. British dual-lamp ceramic condensation cavities are employed, corrosion resistant, high temperature resistant, and with a service life of 8-10 years.
2. Efficient production, fast welding, and able to realize assembly line automatic batch production.
3. The laser head can be rotated at by 360° , and the overall optical path can be rotated by 360° , or extended forward and backward.
4. The light spot size can be electrically adjusted.
5. The workbench can be electrically moved in three dimensions.

Applicable materials and industries

It is applicable to welding the following items: kettles, vacuum cups, stainless steel bowls, sensors, tungsten filaments, high power diodes (triodes), aluminum alloys, laptop enclosures, mobile handset batteries, door handles, dies, electrical appliance parts, filters, oil nozzles, stainless steel products, golf club heads, zinc alloy craftworks, and so on.

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BMM CNC Laser Welding Machine			
Specifications	BMM CNC 200	BMM CNC 300	BMM CNC 400
Laser operation substance	ND:YAG		
Rate output power	200W	300W	400W
Max output power	240W	400W	500W
Laser wavelength	1064nm		
Adjusting scope of light spot	0.1mm—3.0mm (adjustable)		
Light spot size	0.2~3.0mm		
Pulse width	0.1ms~40ms		
Welding depth	≤2mm	≤3mm	≤6mm
Pulse frequency	≤100HZ		
Overall system power	9KW	12KW	15KW
Control system	PC		
Alignment and positioning	Microscope, CCD and red light		
Workbench stroke	200 x 200 mm TO 1200 x 1200 mm(optional)		
Power requirement	380V/3 phases/50HZ/100A		
Host system dimensions	1600 x 1200 x 1300mm		
Cooling system dimensions	1200 x 300 x 900mm		