



## Beijing Boao Laser Tech. Co., Ltd.

Address: Room D303, 4<sup>th</sup> Building ,Shangdi Science & Technology Mansion , No.8 ,Shangdi Xilu ,Haidian district , Beijing of China ,100085

Tel:86-10-58851677 Fax:86-10-58851891

Email: andy@boaolaser.com

www.boaolaser.com

### BMJ PCL 200 Laser Welding Machine

#### Main Features

By adopting the Laser head, the Laser Power Supply, the Internal-Circle Cooling System, the Control System, the Numerical Control System and the Integrative Design of the Workbench, this device offers you a compact structure and smart appearance with convenient operations and stable performance, which occupies only a small place. It uses a power switch and allows you to select the output power, frequencies, the pulse width and other parameters of the Laser through the touch panel. It also has an auto-protective function that can protect it from mistaken operations and temperature excursion.

With the remote control unit or through the touch panel, you can select the output power, frequencies, the pulse width and other parameters of the Laser, set up the speed and control the directions (forward, backward, left or right) by which the Workbench moves, so that it can produce a flat and tidy welding line or welding point to optimize the results.

The driving method of the numerical control Workbench: Imported PLC control promises stable and highly accurate operations of the workbench.



## Main Advantages

1. Using the anti- erosive, high-temperature resistant and ceramic reflector cavity imported from England, and the life-span of the cavity up to 8-10 years years, and that of the Xenon more than 8 million times.
2. Adopting the most advanced auto light-shielding system in the word to prevent the Laser from stimulating your eyes.
3. The Laser head and the entire optical path can rotate 360 degrees, and it uses the electric lift and drives horizontally.
4. Electric adjustment of the size of the light spot.
5. Both manual welding and automatic mass production are available.

## Applicable materials and fields

This device not only serves as the special packaging equipment of battery production, but also can be used in the welding of metal materials, such as relay, sensor and various electronic components, etc.

## The shape of welding:

point, circle, arc and square, etc.

	BMJ PCL 200	BMJ PCL 300
Dimensions	1170mm*590mm*1250mm	
Rate output power	200W	300W
Travel path	200*200mm TO 1200*1200mm (optional) (electrically adjustable axis Z)	
Overall laser part	The optical bench can be lifted electrically and rotated 360°	
Weight	300KG	500KG
Power supply	220V±10%/50Hz OR 380V±10%/50Hz	
Laser parameters		
Type	Nd: YAG pulsed	
Adjusting scope of light spot	0.1~3.0mm	
Light spot size	0.2~3.0mm	
Laser wavelength	1064nm	
Input power	9KW	12KW
Welding depth	≤2mm	≤3mm
Pulse width	0.1~25ms	0.1~40ms
Pulse frequency	≤40Hz	≤100Hz
Laser output focus	80mm/100mm/120mm/200mm(optional)	
Laser cooling	Water cooling	
Observing system	microscope (360 degrees rotating)	
Protective gas	One path	