



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

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### BMI Series Laser welding Machine

#### Model 1



#### Model 1

Mould Repairing Application

Laser power : 200W ,300W

BMI200 Mould Laser welding Machine

BMI300 Mould Laser welding Machine

#### Model 2

Mould Repairing Application

Laser power : 200W ,300W

BMI200 Mould Laser welding Machine

BMI300 Mould Laser welding Machine

#### Model 2 (CCD and Microscope Together )



### Operation show :



### **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, and that of the Xenon more than 8 million times.
2. Adopting the most advanced auto light-shielding system in the world 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.

**Technical Parameters :**

Models		BMI 200	BMI300	
Machine Size (mm)		880x350x1700	880x350x1700	
Worktable Size(mm)		500x350	500x350	
Travel Path(X, Y, Z)	X=300mm ,Y=200mm,Manually adjust the X and Y Axis .Electrically adjust Z Axis.			
Worktable Bearing Load	200KG			
Machine Weight		200kg	300KG	
Power Supply	220V ± 10%/50Hz / 380V ± 10%/50Hz			
Laser Parameters				
Laser Type	Nd:YAG Pulsed			
Laser Spot	0.2-0.3mm			
Wavelength	1064nm			
Pulse Width	0.5-25ms			
Max. Average Power		200W	300W	
Pulse Frequency	0-20Hz			
Focusing Size	80mm/100mm/120mm or optional			
Chiller	Water Cooling System			
Observing System	Microscope (360° Rotating )			
Protective Gas	Argon			
Welding Wire Dimension	0.1-0.5mm			

Mould Repairing Photo



### Main parts List of BMI Series

System name	Parts name	Amount	Standard Parameter	Manufacturer
Optical System	Main Control Box	1set	BPC-01A	Beijing Boaolaser
	laser chamber	1 set	BO-2.0	Germany
	Microscope	1 set	30 times	China
	Beam Expander	1	4X	USA
	Output mirrors	1	1064nm	Germany
	Focusing lens	1	1064nm	Germany
	Protective lens :	1		China
Control System	Laser power supply	1		Germany
	Control panel	1		Taiwan
	Control Software	1 set	BoaoLaser Marking System Ver2.0	Beijing Boaolaser
	Laser Control Card	1	BCC-A, RS232	Beijing Boaolaser
	D/A Control Card	1	16 bite D/A output, 4input/4output I/O	Beijing Boaolaser
Water cooling system	1.0HP	1 Set		China .

**Accessories Parts : (FREE)**

1. User Manual 1pc
2. Training Video (Operation and Installation ) 1 pc
3. XE-LAMP 1 pc



4. Welding Pen 1 pc



5. Welding Wires 200 M



6. Footswitch 1pc



7. Protective lens 1pc



8. Lamp 1 pc



11 Q rings





★ Company Photo

(Semi-Finished Machines ) :



(Testing Area) :

(Finished Area) :



**CE CERTIFICATE**



Bay Area Compliance Lab Corp.

6/F, the 3<sup>rd</sup> Phase of Wanh Industrial Building Shijua Road,  
Futian Free Trade Zone, Shenzhen, Guangdong, China  
www.baclcorp.com

## ATTESTATION OF CONFORMITY

Date of Issue: 2008-07-16

Attestation Number: RSC080761001-3

**Bay Area Compliance Laboratory Corp. hereby declares that testing has been completed and reports have been generated for;**

Product: Laser Welding Machine

Models: BMK series, BMJ Series, BMM series, BMI series, BMO series

Applicant: **Beijing Boao Laser Tech Co., Ltd.**  
Room 912, C Building, GEM Tech Center, No.9, St.3, Shangdi, Haidian District, Beijing, China

And, in accordance with the following Applicable Directives;

**2006/95/EC Low Voltage Directive (as amended)**

That this product has been assessed against the following Applicable Standards:

LVD: **EN 60204-1: 2006, EN 60825-1: 1994+A1: 2002+A2: 2001**

Application of the CE Mark is permitted only after all applicable requirements are met in accordance with the European Union Rules including the manufacturer's issuance of a "Declaration of Conformity"; additional guidelines can be found at <http://ec.europa.eu/enterprise/rte/guide7.htm>. This attestation is specific to the directive(s) stated above and compliance to additional directives may be required.

Attestation by: John Chan

Signature

2008-07-16

Date



## FDA CERTIFICATION

DEPARTMENT OF HEALTH & HUMAN SERVICES PUBLIC HEALTH SERVICE

FOOD AND DRUG ADMINISTRATION CENTER FOR DEVICES AND RADIOLOGICAL HEALTH 10903 New Hampshire Avenue WO66-4617 Silver Spring,  
MD 20993

March 20, 2012

Reference: 0710676-001

This is to acknowledge receipt of your November 21, 2011, document, which was filed pursuant to the regulations for the administration and enforcement of the Radiation Control for Health and Safety Act of 1968 (title 21, code of Federal Regulations, Subchapter J) as they pertain to Initial Product Report requirements.

Your document has been assigned an accession number of 0710676-001, and has been classified as a(n) Initial Product Report (pursuant to Part 1002, Subpart B of the Regulation referenced above).

This acknowledgement does not constitute approval of the document. You will be contacted if any questions or comments arise concerning your document.

Please note that your firm is required to submit an Annual Report to CDRH every year by September 1.

All Radiological Reports may be prepared using FDA's Electronic Submissions software which can be downloaded at <http://www.fda.gov/ForIndustry/FDAeSubmitter/ucm108165.htm>. For more information on the FDA's eSubmitter program please see the following websites:

Radiological Health - <http://www.fda.gov/Radiation-EmittingProducts/default.htm>

Electronic Submissions (instead of paper reports) - <http://www.fda.gov/ForIndustry/FDAeSubmitter/default.htm>

FDA Electronic Submissions Gateway - <http://www.fda.gov/ForIndustry/ElectronicSubmissionsGateway/default.htm>

Thank you for your cooperation. If any questions or concerns arise during our review of your report, we will notify you. If you have any questions, contact us at (301) 796-5710.

Sincerely Yours,

Robert J. Doyle

Electronic Products Branch

Division of Mammography Quality and  
Radiation Programs

Office of Communication, Education,  
and Radiation Programs

<http://www.fda.gov/Radiation-EmittingProducts/default.htm>

ISO9001:2000 CERTIFICATE

Certificate CN07/00491

SGS

The management system of

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

Room C912, Jiahua Building, Xinxichanye Road, Haidian District,  
Beijing, P.R. China



has been assessed and certified as meeting the requirements of

**ISO 9001:2000**

For the following activities

**Design and manufacture of laser etch marking machines**

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2000 requirements may be obtained by consulting the organization.

This certificate is valid from 30 September 2007 until 29 September 2015  
Issue 1. Certified with SGS since September 2007

Authorized by



SGS United Kingdom Ltd Systems & Services Certification  
Rosemoor Business Park Effingham Port Cheshire CH65 3 EN UK  
t +44 (0)151 350-6666 f +44 (0)151 350-6600 www.sgs.com

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# WARRANTY SERVICE

## Warranty Services(one Year)

### Terms and Conditions :

1. This warranty is provided only for product purchased from Beijing Boao Laser Tech Co.,Ltd directly or authorized dealer of Beijing Boao Laser Tech Co.,Ltd (hereinafter called Boao Laser).

2. Boao Laser warrants this machine to be free from manufacturer's defects for a specified period.

3. Within the specified warranty period, Boao Laser will repair or replace non consumable parts

(excluding cooled water, Cooling filter , cleanser and Largess such as tunable filters, protective glass etc.)that are damaged under normal use (by judgement of Boao Laser) at no additional charge.

4. The warranty will not be covered under the following conditions:

. **Out-of-warranty products.**

. **The product is modified without Boao Laser approval.**

. **Obvious attack of appearance whatever it is.**

. **The product is subjected to unusual physical or electrical stress, including physical damage, burnt**

. **Components and broken connectors.**

. **The serial number label is removed or altered.**

5. The customer is responsible for returning the defective product at his own expense.

6. Your warranty period is calculated from the date of received this product.

Remark:

During the Warranty Periods ,The Consumer can send their engineer go to Boao Laser for training ,the chargers is free(excluding air-fair, resident fair ). The consumer need our engineer go to their country or company to training ,Boao Laser can assigned their engineer go to consumer country or company for training , the consumer need take charge of the relevant fee for our engineer such as air-fair, resident fair etc.( this Items can be discussed by two parts together )

### Service Items :

1. we can resolve any problems for our laser marking machine within 48 hours . such as :you just let us know what kind of appearance happened from our machine then we can issue a complete resolving solution for you with photo and video .If the problems can not resolve and we will send our engineers or let our agent to resolve it for you.

2. During the warranty time ,we will free provide the spare parts for our laser marking machine.

3. we will provide the Training manual and video for our laser marking machine.

4. we will make the Technical Parameters settings special for your products and you just input parameters into our software then can process your products very well .

5.If possible, our company also free provide 2 days training for your engineers in our company.

6.We will provide detailed installation drawing(Electrical Diagram) and video for our customers once the machine has any problems.

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

[www.boalaser.com](http://www.boalaser.com)