

# Machine Detail

|| L X S H O W L A S E R ||

| MACHINE MODEL                            | QUANTITY (SET)                                                                                                                                                                                                                                                                                                                         | PRICE (USD)          | Warranty       |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------|
| <b>LXCW-2000wMax</b><br><b>EXW Jinan</b> | <b>1</b>                                                                                                                                                                                                                                                                                                                               | <b>4280</b>          | <b>2 years</b> |
| <b>Machine body</b>                      | <input checked="" type="checkbox"/> New design of our company<br><input checked="" type="checkbox"/> CE standard Heavy duty machine frame                                                                                                                                                                                              |                      |                |
| <b>Controller</b>                        | <input checked="" type="checkbox"/> Au3tech software<br><input checked="" type="checkbox"/> LED touch panel<br><input checked="" type="checkbox"/> Mother language customized<br><input checked="" type="checkbox"/> Au3tech laser welding head new HW980M Wire feeder<br><input checked="" type="checkbox"/> Fiber optical length 10m |                      |                |
| <b>Laser system</b>                      | <input checked="" type="checkbox"/> Fiber laser source Max 2KW                                                                                                                                                                                                                                                                         |                      |                |
| <b>Cooling system</b>                    | <input checked="" type="checkbox"/> Water chiller                                                                                                                                                                                                                                                                                      |                      |                |
| <b>Other important parts</b>             | <input checked="" type="checkbox"/> Solenoid valve, control gas switch<br><input checked="" type="checkbox"/> France Schneider Electric Device                                                                                                                                                                                         |                      |                |
| <b>Consumable parts</b>                  | <input checked="" type="checkbox"/> 10xProtective lens<br><input checked="" type="checkbox"/> 10xWelding nozzles<br>1xCutting nozzle                                                                                                                                                                                                   |                      |                |
| <b>Service</b>                           | <input checked="" type="checkbox"/> Manual +Video<br><input checked="" type="checkbox"/> 2-year warranty, and the laser generator is 2 years. (Excluding wearing parts)<br><input checked="" type="checkbox"/> Oversea service<br><input checked="" type="checkbox"/> 24 hours online service 220v, 1p, 50hz Power consumption:11.5kw  |                      |                |
| <b>Dimension (L*W*H)mm</b>               | 1350*750*1450                                                                                                                                                                                                                                                                                                                          | <b>N.W/Kg</b>        | 250KG          |
| <b>CBM(m3)/set</b>                       | 1.47CBM                                                                                                                                                                                                                                                                                                                                | <b>G.W(kg)</b>       | 280KG          |
| <b>Packing</b>                           | Plywood package                                                                                                                                                                                                                                                                                                                        | <b>Delivery time</b> | 5-10 work days |



Website:

<https://www.lxslaser.com/lxw-100015003KW-handheld-fiber-laser-welder-for-sale-Max-ipg-max-jpt-product/>



<https://www.youtube.com/watch?v=P649Z2MyGWw>

Install video: <https://www.youtube.com/watch?v=GFoaFz-trv8>



# Parameter

|| L X S H O W L A S E R ||

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Model                               | LXW-2KW                           |
| Laser source                        | Max                               |
| Working life of fiber module        | More than 100000 hours            |
| Laser machine controller            | Au3tech                           |
| Wobble welding head                 | Single wobble/Double wobble       |
| Supply voltage                      | Single-phase 220V±10%, 50/60Hz AC |
| Machine power consumption           | 11.5Kw(including chiller)         |
| Setting up the environment          | Flat, no vibration, no impact     |
| Working temperature                 | 0°C~40°C                          |
| Working environment humidity        | ≤80%                              |
| Power adjustment range (%)          | 10-100 (gradient adjustable)      |
| Laser Source Repeat frequency (KHz) | 1000-5000 (gradient adjustable)   |
| Beam quality                        | 1.3m2                             |
| Laser wavelength                    | 1070nm                            |
| Focal length (mm)                   | 150                               |
| Cooling method                      | Water cooling                     |
| Size                                | 1100mm × 700mm × 1150mm           |
| Weight                              | 280Kg                             |
| Fiber length                        | 10 meters                         |
| Welding head weight                 | 0.7Kg                             |
| Scanning/Swing frequency            | 20-150Hz                          |
| Mobile mode                         | Handheld                          |
| Auxiliary gas                       | 99.99% argon or nitrogen          |
| Auto wire feeder                    | Included                          |
| Spot adjusting range                | 0-5mm                             |
| Repeating Precision                 | 0.01mm                            |

# Main Parts

L X S H O W L A S E R



- **Au3tech laser welding head**
- Au3tech famous laser welding head
- Precision point and easy move
- Excellent welding control ability



## Au3tech control system

- Au3tech controller is designed for all metal materials welding processing industry launched control system.
- Easy installation, easy adjustment, excellent performance, complete solutions.



- **Water chiller**
- Relative leading product technology(complete laboratory and performance testing means), product specifications and actual performance good consistency.
- With multiple after-sales office in china and abroad, product service is more real-time and reliable.



## Max laser source

- Famous laser brand all over the world
- High electronic-optical conversion efficiency, good beam quality, wide modulation frequency, high reliability, long life and maintenance-free.

# Welding Data

L X S H O W L A S E R



## Stainless steel

| Material and thickness (mm) | laser power(W) | Laser Frequency (HZ) | Duty cycle (%) | Swing frequency (HZ) | Swing length(mm) | wire feeding speed(mm/s) | Welding wire model | welding angle  | form           |
|-----------------------------|----------------|----------------------|----------------|----------------------|------------------|--------------------------|--------------------|----------------|----------------|
| Stainless steel1.0          | 500            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | plane          | penetration    |
| stainless steel1.0          | 450            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | interior angle | white          |
| stainless steel1.0          | 500            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | External angle | 75%penetration |
| stainless steel1.5          | 550            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | plane          | penetration    |
| stainless steel1.5          | 500            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | interior angle | white          |
| stainless steel1.5          | 550            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | External angle | 80%penetration |
| stainless steel2.0          | 1000           | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | plane          | penetration    |
| stainless steel2.0          | 800            | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | interior angle | white          |
| stainless steel2.0          | 1000           | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | External angle | 70%penetration |
| stainless steel2.5          | 1200           | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | plane          | penetration    |
| stainless steel2.5          | 1000           | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | interior angle | white          |
| stainless steel2.5          | 1200           | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | External angle | 80%penetration |



|                    |      |      |     |    |     |    |           |                |                |
|--------------------|------|------|-----|----|-----|----|-----------|----------------|----------------|
| stainless steel3.0 | 1600 | 3000 | 100 | 35 | 3   | 12 | ER304.1.2 | plane          | penetration    |
| stainless steel3.0 | 1350 | 3000 | 100 | 35 | 3   | 12 | ER304.1.2 | interior angle | white          |
| stainless steel3.0 | 1400 | 3000 | 100 | 35 | 3   | 12 | ER304.1.2 | External angle | 85%penetration |
| stainless steel3.5 | 1800 | 3000 | 100 | 30 | 3   | 12 | ER304.1.2 | plane          | penetration    |
| stainless steel3.5 | 1500 | 3000 | 100 | 30 | 3   | 12 | ER304.1.2 | interior angle | white          |
| stainless steel3.5 | 1600 | 3000 | 100 | 30 | 3   | 12 | ER304.1.2 | External angle | 85%penetration |
| stainless steel4.0 | 2700 | 3000 | 100 | 20 | 3.5 | 12 | ER304.1.6 | plane          | penetration    |
| stainless steel4.0 | 2000 | 3000 | 100 | 20 | 3.5 | 12 | ER304.1.6 | interior angle | color          |
| stainless steel4.0 | 2500 | 3000 | 100 | 20 | 3.5 | 12 | ER304.1.6 | External angle | 90%penetration |
| stainless steel5.0 | 3000 | 3000 | 100 | 15 | 4.0 | 12 | ER304.1.6 | plane          | penetration    |
| stainless steel5.0 | 2200 | 3000 | 100 | 15 | 4.0 | 12 | ER304.1.6 | interior angle | color          |
| stainless steel5.0 | 2500 | 3000 | 100 | 15 | 4.0 | 12 | ER304.1.6 | External angle | 85%penetration |
| stainless steel6.0 | 2600 | 3000 | 100 | 15 | 5   | 6  | 1.6       |                |                |
| stainless steel7.0 | 2800 | 3000 | 100 | 15 | 5   | 6  | 1.6       |                |                |
| stainless steel8.0 | 2950 | 3000 | 100 | 15 | 5   | 5  | 1.6       |                |                |

## Carbon steel

| Material and thickness (mm) | laser power(W) | Laser Frequency (HZ) | Duty cycle (%) | Swing frequency (HZ) | Swing length(mm) | wire feeding speed(mm/s) | Welding wire model | welding angle  | form           |
|-----------------------------|----------------|----------------------|----------------|----------------------|------------------|--------------------------|--------------------|----------------|----------------|
| carbon steel1.0             | 500            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | plane          | penetration    |
| carbon steel1.0             | 450            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | interior angle | white          |
| carbon steel1.0             | 500            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | External angle | 70%penetration |
| carbon steel1.5             | 550            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | plane          | penetration    |
| Carbon steel1.5             | 500            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | interior angle | white          |
| Carbon steel1.5             | 550            | 3000                 | 100            | 35                   | 2                | 12                       | ER304.0.8          | External angle | 85%penetration |
| Carbon steel2.0             | 700            | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | plane          | penetration    |
| Carbonsteel2.0              | 600            | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | interior angle | white          |
| Carbon steel2.0             | 700            | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | External angle | 80%penetration |
| Carbon steel2.5             | 850            | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | plane          | penetration    |
| Carbon steel2.5             | 750            | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | interior angle | white          |
| Carbon steel2.5             | 750            | 3000                 | 100            | 35                   | 2.5              | 12                       | ER304.1.0          | External angle | 85penetration  |
| Carbon steel3.0             | 1300           | 3000                 | 100            | 35                   | 3.0              | 12                       | ER304.1.2          | plane          | penetration    |
| Carbon steel3.0             | 1100           | 3000                 | 100            | 35                   | 3.0              | 12                       | ER304.1.2          | interior angle | white          |
| Carbon steel3.0             | 1300           | 3000                 | 100            | 35                   | 3.0              | 12                       | ER304.1.2          | External angle | 75%penetration |
| Carbon steel3.5             | 1650           | 3000                 | 100            | 30                   | 3.0              | 12                       | ER304.1.2          | plane          | penetration    |
| Carbon steel3.5             | 1200           | 3000                 | 100            | 30                   | 3.0              | 12                       | ER304.1.2          | interior angle | white          |
| Carbon steel3.5             | 1500           | 3000                 | 100            | 30                   | 3.0              | 12                       | ER304.1.2          | External angle | 85%penetration |
| Carbon steel4.0             | 2400           | 3000                 | 100            | 20                   | 3.5              | 12                       | ER304.1.6          | plane          | penetration    |
| Carbon steel4.0             | 1800           | 3000                 | 100            | 20                   | 3.5              | 12                       | ER304.1.6          | interior angle | yellowish      |
| Carbon steel4.0             | 2000           | 3000                 | 100            | 20                   | 3.5              | 12                       | ER304.1.6          | External angle | 85%penetration |
| Carbon steel5.0             | 2700           | 3000                 | 100            | 15                   | 4.0              | 12                       | ER304.1.6          | plane          | penetration    |
| Carbon steel5.0             | 2100           | 3000                 | 100            | 15                   | 4.0              | 12                       | ER304.1.6          | interior angle | color          |
| Carbon steel5.0             | 2300           | 3000                 | 100            | 15                   | 4.0              | 12                       | ER304.1.6          | External angle | 80%penetration |



|                 |      |      |     |    |   |   |     |  |  |
|-----------------|------|------|-----|----|---|---|-----|--|--|
| Carbon steel6.0 | 2600 | 3000 | 100 | 15 | 5 | 7 | 1.6 |  |  |
| Carbon steel7.0 | 2800 | 3000 | 100 | 15 | 5 | 5 | 1.6 |  |  |
| Carbon steel8.0 | 2950 | 3000 | 100 | 15 | 5 | 4 | 1.6 |  |  |

## Galvanized sheet

| Material and thickness<br>(mm) | laser power(W) | Laser Frequency<br>(HZ) | Duty cycle (%) | Swing frequency<br>(HZ) | Swing length(mm) | wire feeding<br>speed(mm/s) | Welding wire<br>model | welding<br>angle | form        |
|--------------------------------|----------------|-------------------------|----------------|-------------------------|------------------|-----------------------------|-----------------------|------------------|-------------|
| Galvanized sheet1.0            | 540            | 3000                    | 100            | 20                      | 2                | 12                          | ER304.0.8             | plane            | penetration |
| Galvanized sheet1.0            | 540            | 3000                    | 100            | 20                      | 2                | 12                          | ER304.0.8             | interior         | white       |
| Galvanized sheet1.0            | 540            | 3000                    | 100            | 20                      | 2                | 12                          | ER304.0.8             | External         | 70%penetr   |
| Galvanized sheet1.5            | 690            | 3000                    | 100            | 20                      | 2                | 12                          | ER304.0.8             | plane            | penetration |
| Galvanized sheet1.5            | 660            | 3000                    | 100            | 20                      | 2                | 12                          | ER304.0.8             | interior         | white       |
| Galvanized sheet1.5            | 690            | 3000                    | 100            | 20                      | 2                | 12                          | ER304.0.8             | External         | 75%penetr   |
| Galvanized sheet2.0            | 1200           | 3000                    | 100            | 20                      | 2.5              | 12                          | ER304.1.0             | plane            | penetration |
| Galvanized sheet2.0            | 1200           | 3000                    | 100            | 20                      | 2.5              | 12                          | ER304.1.0             | interior         | white       |
| Galvanized sheet2.0            | 1200           | 3000                    | 100            | 20                      | 2.5              | 12                          | ER304.1.0             | External         | 85%penetr   |
| Galvanized sheet2.5            | 1500           | 3000                    | 100            | 20                      | 2.5              | 12                          | ER304.1.0             | plane            | penetration |
| Galvanized sheet2.5            | 1500           | 3000                    | 100            | 20                      | 2.5              | 12                          | ER304.1.0             | interior         | white       |
| Galvanized sheet2.5            | 1500           | 3000                    | 100            | 20                      | 2.5              | 12                          | ER304.1.0             | plane            | 80%penetr   |
| Galvanized sheet3.0            | 1900           | 3000                    | 100            | 15                      | 3.0              | 12                          | ER304.1.2             | plane            | penetration |
| Galvanized sheet3.0            | 1700           | 3000                    | 100            | 15                      | 3.0              | 12                          | ER304.1.2             | interior         | white       |
| Galvanized sheet3.0            | 1900           | 3000                    | 100            | 15                      | 3.0              | 12                          | ER304.1.2             | External         | 85%penetr   |

## Aluminum alloy

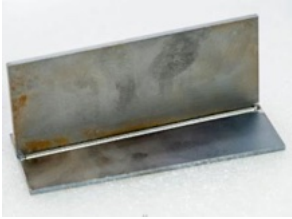
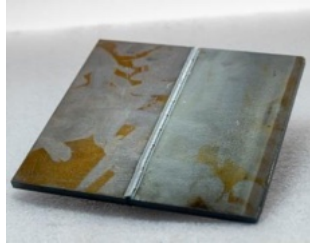
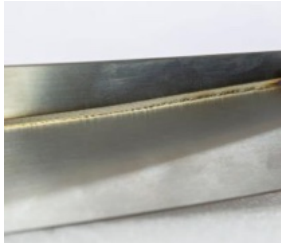
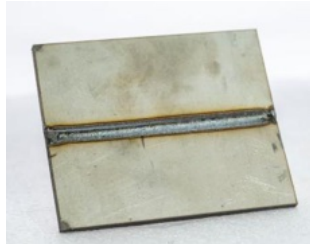
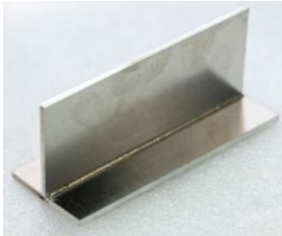
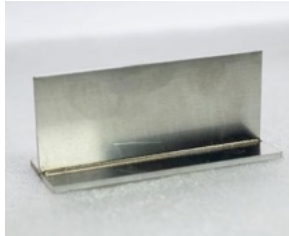
| Material and thickness<br>(mm) | laser power(W) | Laser Frequency<br>(HZ) | Duty cycle (%) | Swing frequency<br>(HZ) | Swing length(mm) | wire feeding<br>speed(mm/s) | Welding wire<br>model | welding<br>angle  | form                       |
|--------------------------------|----------------|-------------------------|----------------|-------------------------|------------------|-----------------------------|-----------------------|-------------------|----------------------------|
| aluminum alloy1.0              | 600            | 3000                    | 100            | 35                      | 2                | 15                          | ER5356.0.8            | plane             | Double<br>sided<br>molding |
| aluminum alloy1.0              | 500            | 3000                    | 100            | 35                      | 2                | 15                          | ER5356.0.8            | interior<br>angle | white                      |
| aluminum alloy1.0              | 550            | 3000                    | 100            | 35                      | 2                | 15                          | ER5356.0.8            | External<br>angle | 75%penetr<br>ation         |
| aluminum alloy1.5              | 750            | 3000                    | 100            | 35                      | 2.5              | 15                          | ER5356.0.8            | plane             | Double<br>sided<br>molding |
| aluminum alloy1.5              | 650            | 3000                    | 100            | 35                      | 2.5              | 15                          | ER5356.0.8            | interior<br>angle | white                      |
| aluminum alloy1.5              | 700            | 3000                    | 100            | 35                      | 2.5              | 15                          | ER5356.0.8            | External<br>angle | 75%penetr<br>ation         |
| aluminum alloy2.0              | 1050           | 3000                    | 100            | 35                      | 2.5              | 15                          | ER5356.1.0            | plane             | Double<br>sided<br>molding |
| aluminum alloy2.0              | 900            | 3000                    | 100            | 35                      | 2.5              | 15                          | ER5356.1.0            | interior<br>angle | white                      |

|                   |      |      |     |    |     |    |            |                   |                            |
|-------------------|------|------|-----|----|-----|----|------------|-------------------|----------------------------|
| aluminum alloy2.0 | 950  | 3000 | 100 | 35 | 2.5 | 15 | ER5356.1.0 | External<br>angle | 85%penetr<br>ation         |
| aluminum alloy2.5 | 1260 | 3000 | 100 | 35 | 2.5 | 15 | ER5356.1.0 | plane             | Double<br>sided<br>molding |
| aluminum alloy2.5 | 1000 | 3000 | 100 | 35 | 2.5 | 15 | ER5356.1.0 | interior<br>angle | white                      |
| aluminum alloy2.5 | 1100 | 3000 | 100 | 35 | 2.5 | 15 | ER5356.1.0 | External<br>angle | 80%penetr<br>ation         |
| aluminum alloy3.0 | 1500 | 3000 | 100 | 35 | 3.5 | 10 | ER5356.1.2 | plane             | Double<br>sided<br>molding |
| aluminum alloy3.0 | 1050 | 3000 | 100 | 35 | 3.0 | 15 | ER5356.1.2 | interior<br>angle | white                      |
| aluminum alloy3.0 | 1200 | 3000 | 100 | 35 | 3.0 | 15 | ER5356.1.2 | External<br>angle | penetration<br>80%         |
| aluminium4.0      | 1700 | 3000 | 100 | 20 | 3.5 | 12 | 1.6        |                   |                            |
| aluminium5.0      | 2200 | 3000 | 100 | 18 | 4   | 12 | 1.6        |                   |                            |
| aluminium6.0      | 2500 | 3000 | 100 | 15 | 4   | 10 | 1.6        |                   |                            |
| aluminium7.0      | 2700 | 3000 | 100 | 15 | 5   | 8  | 1.6        |                   |                            |
| aluminium8.0      | 2950 | 3000 | 100 | 15 | 5   | 5  | 1.6        |                   |                            |

# Samples & Application

L X S H O W L A S E R

This machine is suitable for welding of gold, silver, titanium, nickel, tin, copper, aluminum and other metal and its alloy material, can achieve the same precision welding between metal and dissimilar metals, has been widely used in aerospace equipment, shipbuilding, instrumentation, mechanical and electrical products, automotive and other industries. Single-wire welding is recommended for materials less than 2mm thick. If the weld seam is wider than 2mm and the welding height is better, double-wire welding is recommended. 3000 power double-wire is

|                 |                                                                                     |                                                                                      |
|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Carbon steel    | 3mm (Single wire feeding)                                                           | 8mm (Double feeding wire)                                                            |
|                 |    |   |
| Stainless steel | 1mm (Single wire feeding)                                                           | 6mm (Double feeding wire)                                                            |
|                 |   |  |
| Aluminium       | 2mm (Single wire feeding)                                                           |                                                                                      |
|                 |  |  |

· Staircase elevator



· Food machinery



· Medical equipment



· Car production



· Kitchen cabinets



· Motorcycle



# 18

HOURS

SERVICE  
EVERYDAY



## After Service

LXSHOW LASER

- 1.The warranty of the machine is 2 years and the laser generator is 2 years. (Excluding wearing parts).The time is from machine finished date told by Party B.
- 2.Lifetime maintenance free of charge.
- 3.Free training course at our plant.
- 4.Specialized after-sales service group 18 hours online each day, to provide free technical support by email, whatsapp, wechat and so on.
- 5.Machine has been tested and adjusted before delivery, you can use the machine directly after receiving it.
- 6.Providing technical services door to the door: we have professional engineers to offer machine installation commissioning and maintenance if customers pay ticket and related charges(accommodation problem) .(5 days training are free and overtime is 100 USD/Day)
- 7.About installation, because we ship the machine by a full container we won't disassemble too much parts, the main parts that need to connect is laser source, water chiller and controller. We have detailed manual and videos, if you don't understand, our after-sales service man can guide you hand by hand, video call is available.

### Customer service

After-sales engineer supervisor: Tom

Email:Aftersale01@lxshow.net

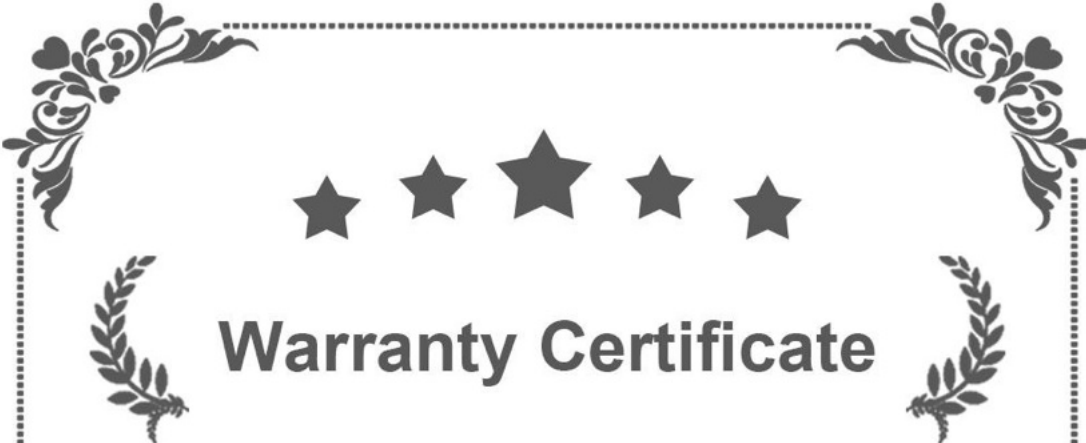
Skype:286664771@qq.com

Whatsapp: +86 151 0698 8612



# Warranty Certificate

|| LXSHOW LASER ||



## Warranty Certificate

It is hereby guaranteed that the warranty period of the welding machine sold is **2 years**, which is longer than the 1-year warranty in the market, so as to eliminate consumers' worries.

Jinan Lingxiu Laser Equipment Co., Ltd.  
Address: Floor 19, Building A3-4, Hanyu Jingu, Licheng District, Jinan  
City, Shandong Province



# Production and Packaging

L X S H O W   L A S E R

## Production



1. Electrical wiring



2. Component Assembly



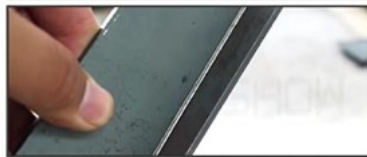
3. Installation in weld bench



4. Debugging



5. Test



6. Aging test



## Packaging



Vacuum packaging



Foam packaging



Plywood packaging





## About LXSHOW

LXSHOW LASER



As the largest manufacturer of laser application and intelligent equipment development in northern China, Jinan LXSHOW Laser Equipment Co., Ltd. is the leading brand in innovation and upgrades of laser equipment and it aims to provide high quality service in the global laser intelligence.

Since its foundation in 2004, LXSHOW Laser has always adhered to the principle of Technology as the Foundation, "Quality First". With customer-center idea as its basis, it takes every detail seriously in the process of production to ensure high performance and quality of each equipment as well as the stable operation in more than 150 nations around the

