

# **RING CONSULTING & TRADING CO. LTD.**



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# Robot laser welding machine

## Features

- ◆ The energy density is high, the heat input is low, the amount of thermal deformation is small, and the melting zone and the heat-affected zone are narrow and deep.
- ◆ High cooling rate, which can weld fine weld structure and good joint performance.
- ◆ No consumables, small size, flexible processing, low operating and maintenance costs.

## Applications

- ◆ Mainly aquatic stainless steel, carbon steel, aluminum alloy carbon steel, stainless steel, aluminum alloy, galvanized plate and other massive shell cabinets, hardware furniture lighting, guardrail doors and windows, new energy, mechanical and electrical products, mechanical and electrical products, etc.
- Save manual: L-shaped left welding left and right welding, the machine does not interrupt the operation. Replacement of traditional welding: Reduce polishing, speed is 2-5 times faster. Six-axis welding is more flexible: welding can be welded at different angles, such as tube electric vehicles, furniture, etc.

Model	DPH-2000
Power	2000W
Laser wavelength	1070nm
Laser frequency	0.5Hz-100KHz
Adjustable power range	10-100%
Positioning precision of space	0.05mm
Robot Max. Moving radius	1550mm
Max. payload	12kg



# Handheld laser welding machine

## Features

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## Applications

- ◆ widely used in the automotive, machinery manufacturing, medical equipment, shipbuilding, chemical industry, aerospace, aviation, power battery and daily necessities industries.



Model	DPH-1500	DPH-2000/3000
Power	1500W	2000W/3000W
Laser wavelength	1080nm	
Laser frequency	50Hz-5KHz	
Adjustable power range	10-100%	
Output fiber length	10m	
Cooling system	Chiller inside	



# 3 axis fiber laser welding machine 1KW-6KW

## Features

- ◆ The energy density is high, the heat input is low, the amount of thermal deformation is small, and the melting zone and the heat-affected zone are narrow and deep.
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- ◆ No consumables, small size, flexible processing, low operating and maintenance costs.

## Applications

- ◆ widely used in the automotive, machinery manufacturing, medical equipment, shipbuilding, chemical industry, aerospace, aviation, power battery and daily necessities industries.



Model	DPH-1500	DPH-2000
Power	1500W	2000W
Laser wavelength	1070nm	
Laser frequency	0.5Hz-100KHz	
Adjustable power range	10-100%	
Welding speed	0-120mm/s	
Machine travel	XYZ, 50x30x50cm	
Dimensions & Weight	100cm*100cm*172cm & 300Kg	



# Mould repairing laser welding machine

## Features

- ◆ Small heat-affected zone
- ◆ Large welding depth, welding firmly
- ◆ No noise, no pollution to the environment

## Applications

- ◆ 1. Injection mold 2. Stamping die 3. Die-casting die 4. Rubber die 5. copper alloy die
- ◆ Quick and precise repair of the pores, slag holes, shrinkage holes, etc. during the casting process.



Model	DPH-200	DPH-400
Power	200W	400W
Laser wavelength	1064nm	
Pulse frequency	1-100Hz	
Pulse width	0.1-20ms	
Observation system	Cross microscope	
Cooling system	Water cooling	
Consumables	Xenon lamp, protective lens	





# MINI jewelry laser welding machine

## Features

- ◆ Compact design, saving space in the workshop or studio, and convenient transportation.
- ◆ The microscope is displayed synchronously with the CCD, which is very convenient for observation.
- ◆ Support English, Korean, Turkish, Arabic language.

## Applications

- ◆ Suitable for laser welding of gold and silver jewelry, stainless steel jewelry, manual laser welding of fine metal parts.
- ◆ Jewelry, dentures, glasses and laboratories, dedicated spot welders

Power	60W/100W/150W/200W
Laser wavelength	1064nm
Pulse frequency	1.0-15Hz
Pulse width	0.1-10ms
Aiming and positioning	Microscope and CCD
Cooling system	Water cooling
Machine size & Net weight	510*295*395mm, 28Kg



Gold and Silver Jewelry



Gold and Silver Jewelry



Gold and Silver Jewelry

# 3D laser engraving machine

## Features

- ◆ High quality laser beam for fine marking, high precision.  
The minimum line width of laser can reach to 0.02mm.
- ◆ Low consumption, energy saving 0.5KW for whole machine.
- ◆ Free maintenance & long service life  
Fiber laser systems don't require any maintenance  
and their diode life is Max 100 thousand hours.

## Why Laser Marking

- ◆ Enhances the aesthetical & monetary value of products, product tracking.

## Laser Marking Usage

- ◆ Serial Numbers, Part Numbers, Logos, Bar-coding, Date Codes.

## Applications

- ◆ Marking on electronics component, button, cover, jewelries, molds, IC, etc.

Model	YLP-50-3D	YLP-100-3D
Power	50W	100W
Marking area	150×150mm, Z±30mm	
Minimum line width	0.02mm	
Max. Liner marking speed	7000mm/s	
Laser module life	100,000 hours	
Software	3DLaser engraving software	
Marking head	3D laser head	
Cooling mode	Inbuilt air cooling	



# Fiber laser marking machine

(MVP)

## Features

- ◆ High quality laser beam for fine marking, high precision.  
The minimum line width of laser can reach to 0.02mm.
- ◆ Low consumption, energy saving 0.5KW for whole machine.
- ◆ Free maintenance & long service life  
Fiber laser systems don't require any maintenance  
and their diode life is Max 100 thousand hours.

## Why Laser Marking

- ◆ Enhances the aesthetical & monetary value of products, product tracking.

## Laser Marking Usage

- ◆ Serial Numbers, Part Numbers, Logos, Bar-coding, Date Codes.

## Applications

- ◆ Marking on electronics component, button, cover, jewelries, molds, IC, etc.

Model	YLP-20	YLP-30
Power	20W	30W
Marking area	150×150mm	180×180mm
Minimum line width	0.02mm	0.02mm
Max. Liner marking speed	7000mm/s	7000mm/s
Laser module life	100,000 hours	
Software	EZCAD	
Cooling mode	Inbuilt air cooling	
Computer	WIN7/10	



Ring



Phone



Watchcase



Agate (CO2 Laser)



Screwdriver



Boring tool



Hardware



Knife



# Flying laser marking machine on the fly

## Features

- ◆ Low consumption, energy saving 0.5KW for whole machine.
- ◆ Free maintenance & long service life
- ◆ Laser marking doesn't have disadvantage of Inkjet printer (large ink consumables,easily erase the ink printing, high pollution).

## Applications

- ◆ Mainly mark products on the fly, such as, pipe, tube, packages,etc



Model	YLP-30	CO2-30
Power	30W Raycus fiber laser	30W Synrad CO2 laser
Marking area	150×150mm	150×150mm
Minimum line width	0.02mm	0.1mm
Software	Touch screen system with encoder and sensor	
Cooling mode	Inbuilt air cooling	



# CO2 laser marking machine

## Features

- ◆ CO2 laser, beam quality is good, the light stability, low failure rate;
- ◆ High speed and high precision marking, easily control the marking depth;
- ◆ Low processing cost, the lifetime of the laser is up to 15000 hours.

## Applications

- ◆ Leather clothes, furniture, epoxy resin, acrylic, craftwork gifts;
- ◆ Widely used in paper, wood, gifts, food, packaging, etc.

Model	CO2-30	CO2-60
Power	30W	60W
Marking area	100×100mm	150×150mm
Minimum line width	0.1mm	0.1mm
Max. Liner marking speed	7000mm/s	7000mm/s
Cooling mode	Air cooling	Water cooling
Laser module life	15000 hours	
Software	EZCAD	
Computer	WIN7/10	



# UV laser marking machine

## Features

- ◆ High quality light beam, small focal point, ultra- fine marking;
- ◆ Low energy consumption, environmentally friendly, no consumables;
- ◆ UV laser is a cold light source with low heat-affected impact during marking.

## Applications

- ◆ Widely used in special materials marking, cutting and processing.  
Such as all kinds of glass, LCD panel, textiles, chip ceramics,  
semiconductor wafers, IC grains, sapphires, polymer films, etc.

Model	UV-3	UV-5
Power	3W	5W
Marking area	100×100mm	150×150mm
Minimum line width	0.012mm	0.012mm
Max. Liner marking speed	7000mm/s	7000mm/s
Laser module life	10000 hours	
Software	EZCAD	
Cooling mode	Water cooling	
Computer	WIN7/10	



# Jewelry laser welding machine

## Features

- ◆ Ceramic converging cavity is imported from UK. Good performance of corrosion resistant and high temperature resistant. The life of xenon lamp is: Max 5 million times.
- ◆ Able to work for 24 hours continuously, stable performance; Human-based design accords with ergonomics, avoiding fatigue after long time working.
- ◆ Mainly used in perforating and spot welding of white gold, platinum, carbon steel.

## Applications

- ◆ Widely used in jewelry accessories, electronic components, glasses clocks and watches, hardware, precision equipment, medical equipment, auto parts, gifts and crafts, etc.



Model	DPH-200
Power	200W
Laser wavelength	1064nm
Pulse frequency	1-100Hz
Pulse width	0.3-20ms
Spot size	0.2-2mm
Cooling system	Water cooling
Consumables	Xenon lamp, protective lens





# Fiber laser cutting machine 1KW--15KW

## Features

- ◆ Cost saving on power consumption/ only 20-30% of co2 laser cutting machine under same power.
- ◆ Flexibility and precision cutting of simple or complex parts.
- ◆ Imported servo motor and gearing system ensure precision cutting

## Applications

- ◆ Stainless steel, Mild steel, alloy steel, silicon steel, spring steel, aluminum, aluminum alloy, galvanized sheet.

Model	DPE-F1500	DPE-F2000	DPE-F3000
Power	1500W	2000W	3000W
Laser wavelength	1070nm		
Cutting area	2.5*1.3m or 3*1.5m		
Max cutting speed	120 m/min		
Max Accelerated	1.5G		
Positioning accuracy	±0.03mm		
Repeatability accuracy	±0.02mm		
Min line width	0.15mm		
Driving Way	Imported servo motor		
Tranmission Way	Imported gear rack & pinion double driver		



# Non - standard automation



Handheld laser cleaning machine



Eight station rotation laser marking machine



Double track assembly line marking machine



3 - axis rotating laser marking machine



Double vibration auto-feeding laser marking machine



Three - dimensional dynamic laser marking machine



Laser wire stripping machine