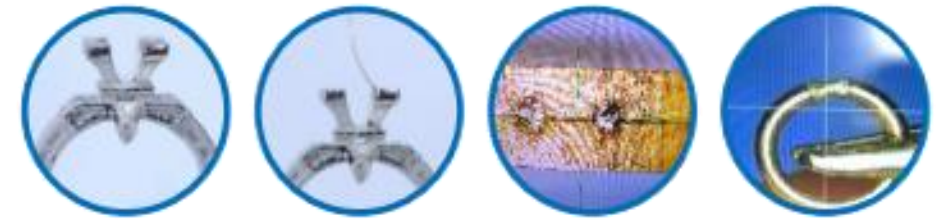


DESKTOP LASER WELDING MACHINE



Feature

1. Integrated vibration free water cooling.
2. Micro eyepiece electronic CCD camera dual display.
3. 7-inch color real-time monitoring and touch screen operation in one.
4. Adaptive voltage regulation micro power supply 80-100W.
5. Equipped with rocker valve and material collection tray.
6. Electric water adding, automatic protection for water shortage and full capacity.
7. Automatic temperature control/speed regulation for heat dissipation.
8. Parameter adjustment touch input, buttons, and joystick options.
9. The vertical and inverted multi angle design of the control screen makes it easy to use and transport.
10. Circular shadowless cold light and 360 degree warm spot lighting options.
11. Each functional component is designed with independent unit modules for easy installation, production, and maintenance!



Parameter

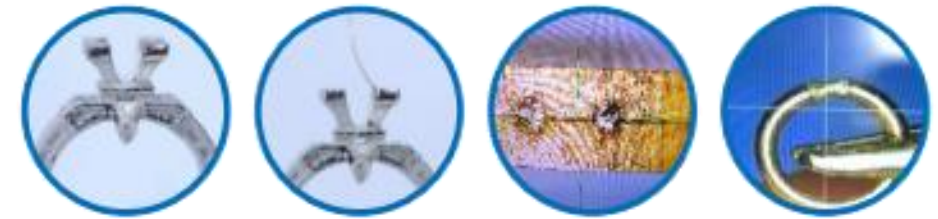
Model	CDO-SL495	CDO-SL495Pro
Max Laser Power	80W	100W
Laser Wavelength	1064nm	1064nm
Max Single Pulse Energy	80J	100J
Welding Frequency	≤30Hz	≤30Hz
Pulse Width	0.1-20ms	0.1-20ms
Spot Diameter	0.1-3.0mm	0.1-3.0mm
Power Consumption Of The Entire Machine	<3.8kw	<3.8kw
Electricity Demand	AC220V +10%/50Hz/16A	AC220V +10%/50Hz/16A
Control System	Microcontroller Program Control	Microcontroller Program Control
Cooling System	Built In Water Cooling	Built In Water Cooling

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Skype: mandymeina Email: sales@cdocast.com
Tel: +86-15168765707 Website: www.cdocast.com

SPLIT-TYPE LASER SPOT WELDING MACHINE



Feature

1. Energy, pulse width, frequency, spot size, etc. can be adjusted over a wide range to achieve multiple welding effects. The parameters are adjusted by the control lever inside the closed chamber, and the adjusting is simple and efficient.
2. Using a ceramic condenser chamber imported from the UK, corrosion resistance, high temperature resistance, high photoelectric conversion efficiency, long condensing chamber life(8 to 10 years), and a xenon lamp life of more than 8 million times.
3. Adopts the world's most advanced automatic shading system to eliminate eye irritation during working hours.
4. With 24-hour continuous working capability, the whole machine has stable working performance and is maintenance-free within 10,000 hours.
5. Humanization and ergonomic design, no fatigue after long working hours.

Parameter

Model	CDO-DJ150	CDO-DJ200	CDO-DJ300
Max Laser Power	150W	200W	300W
Power	6-9KW		
Laser Wavelength	1064nm	1064nm	1064nm
Laser welding minimum molten pool	0.1mm	0.1mm	0.1mm
Welding Frequency	≤50Hz	≤50Hz	≤50Hz
Pulse Width	≤20ms	≤20ms	≤20ms
Spot Adjustment Range	0.1-3.0mm	0.1-3.0mm	0.1-3.0mm
Electricity Demand	AC220V +10%/50Hz/20A	AC220V +10%/50Hz/20A	AC220V +10%/50Hz/20A
Protective Gas	1 channel	1 channel	1 channel
Dimension	Main machine: 1000*480*1080mm Cooling system: 400*350*880mm		

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FIBER LASER MARKING MACHINE

Feature

1. Small size
2. AI Intelligence: Mobile App Wireless Control Cloud
3. Storage: shared, private, customized, and hand drawn functions



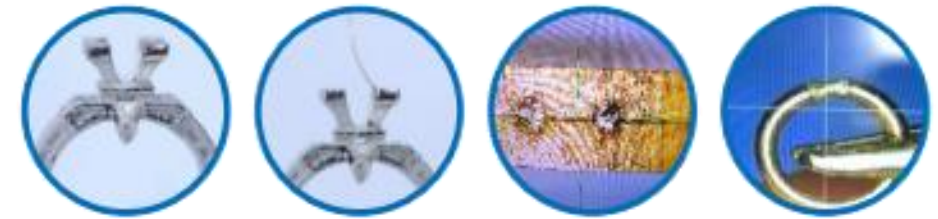
Parameter

Model	CDO-MINI	CDO-MINI Pro	CDO-KY
Max Laser Power	20W	20W	20W
Marking Range	100/200 Mm(optional)	100/200 Mm(optional)	100-160mm (optional)
Carving Line Speed	0-4000 Mm/s	0-8000 Mm/s	0-3000mm/s
Focusing Method	Dual Red Light Fully Automatic	Dual Red Light Fully Automatic	Single Red Light Electric
Min Character	0.3mm	0.15mm	0.3mm
Usage Environment	Clean And Dust-free Or With Less Dus	Clean And Dust-free Or With Less Dus	Clean And Dust-free Or With Less Dust
Overall Power Consumption	≤300 W	≤300 W	≤300 W
Overall Dimension	390*360*550mm	390*360*550mm	370*180*417mm
Overall Weight	18.8kg	18.8kg	13kg
Electricity Demand	AC220V±10%,50 Hz	AC220V±10%,50 Hz	AC220V±10%,50 Hz
Operating System	Computer Wired Control	Wireless control of mobile app	Computer Wired Control

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INTEGRATED LASER SPOT WELDING MACHINE



Feature

1: Fast speed, high efficiency, large depth, small deformation, small heat affected zone, high welding quality, pollution-free solder joints, efficient and environmentally friendly.

2: Voltage regulation power supply, resulting in higher laser conversion rate and longer light source lifespan

3: The world's leading variable frequency cooling the system eliminates compressor cooling, resulting in less heat, no vibration, energy-saving, and more environmentally friendly

Application

Widely used in industries such as aviation, aerospace, sports goods, jewelry, golf heads, medical equipment, aluminum alloy dentures, instruments, electronics, mechanical processing, automobiles, etc., especially for repairing holes in gold and silver jewelry, dentures, spot weld patterns, embedded components, and foot positions welding.

Parameter

Model	CDO-TY
Max Laser Power	300W
Laser Wavelength	1064nm
Power	6KW
Laser Welding Minimum Molten Pool	0.1mm
Laser Frequency	≤30Hz
Laser Power Range	30-300A
Laser Pulse Width	≤10ms
Laser Spot Adjustment Range	0.1-3.0mm
Spot Size	0.2-3.0mm
Protective Gas	1 channel
Electricity Demand	AC220V±10%,50 Hz
Dimension	Main machine: 920*490*1240mm Cooling system: 470*420*380mm

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PRECIOUS METAL LASER CUTTING



Feature

1. The cutting seam is fine, up to 0.04-0.1mm. Use appropriate auxiliary gas to make the cutting seam neat and smooth, without the need for secondary polishing.
2. Adopting imported high-precision capacitive sensors to dynamically follow the height of the board at all times, automatically adjusting the cutting height to prevent collisions, and it can cut uneven boards.
3. Adopting imported servo motor drive, imported high-precision linear module, fast speed, high accuracy up to 0.01mm, and long service life
4. Advanced fiber lasers are used, and the core components are all imported. High stability, long service life, no consumables, maintenance free.
5. Professional design of gold powder recycling device, collecting all smoke and dust into the recycling device. Minimize losses.
6. Customized laser cutting system for the gold and silver jewelry industry, with path optimization, cutting starting point optimization, diverse layout functions, time-saving, and material saving.
7. Small size, low energy consumption, low consumables, and simple maintenance. Compressed air can also be used for cutting, with low cost



Parameter

Model	CDO-LC
Max Laser Power	300W
Laser Wavelength	1070nm
Light Output Mode	Continuous Pulse
Peak Power	1500-3000W
Effective Cutting range	300*150mm
Thickness	≤5.0mm
Maximum Movement Speed	60M/min
Positioning Accuracy	≤0.05 mm
Repeatability	≤+0.01mm
Overall Power Consumption	≤3.5KW
Electricity Demand	AC220V±10%,50 Hz
Dimension	1300*1200*1780mm
Weight	≈1000KG

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SOLID STATE NANOSECOND ULTRAVIOLET LASER

Feature

1. Adjustable repetition frequency, adjustable from 20kHz to 200kHz;
2. Integrated design of optical and control systems;
3. TEM₀₀ mode output.
4. Suitable for a wide range of materials to compensate for the shortcomings of infrared laser processing capabilities;
5. Good beam quality, small focusing spot, capable of achieving ultra-fine marking;
6. Small heat affected zone, avoiding damage to processed materials, and high yield;
7. Fast marking speed, high efficiency, and high accuracy;
8. No consumables required, low usage and maintenance costs, stable overall performance, and long-term operation.



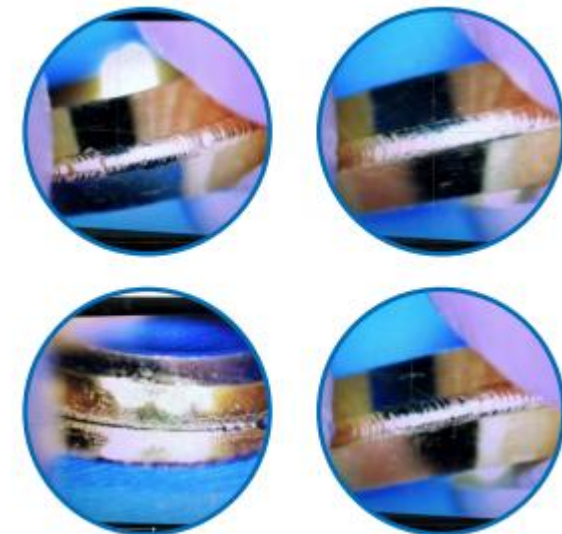
Parameter

Model	CDO-NU1	CDO-NU2
Laser Power	3W~20W 30kHz Typical Value	5W~20W 30kHz Typical Value
Laser Wavelength	355nm	355nm
Repetition Frequency	20-200kHz	20-200kHz
Pulse Width	< 25ns 30KHz	< 25ns 30KHz
Pulse Stability	<3% rms 30kHz Typical Value	<3% rms 30kHz Typical Value
Spatial Pattern	TEM00	TEM00
M ²	<1.2	<1.2
Polarization Degree	100:1 Standard	100:1 Standard
Spot Diameter	1.1mm \pm 0.1mm	1.1mm \pm 0.1mm
Divergent Full Angle	<2 mrad	<2 mrad
Spot Symmetry	>90%	>90%
Beam Directionality	< \pm 25 μ rad/°C	< \pm 25 μ rad/°C
Power Requirements	12VDC \pm 1V; \geq 200W Switch Power Supply	
Ready Time	<10 minutes from standby to ready; Cold start to ready<30 minutes	
Temperature Range	18~35°C during operation; 0~50°C during non working hours	
Humidity	10-90%, no condensation. If there is any change, the actual product specifications shall prevail	
Cooling Demand	Water cooling, chiller accuracy \pm 0.5 ° C, flow rate at least 4L/min	
Total Power	<200 W	

AUTOMATED PROGRAMMING LASER WELDING MACHINE

Feature

1. Using the Ukimported ceramic spotlight cavity, corrosion resistance, high temperature resistance, Cavity life of 8-10 years,
2. The production efficiency is high, the welding speed is quick, can realize the automation of the linc volume production;
3. Laser head can be rotated 360 degrees;
4. Spot size electric regulation.
5. The working table can be an electric two-dimensional mobile.



Parameter

Model	CDO-ZDH
Max Laser Power	300W-500W
Laser Wavelength	1064nm
Power	3.5Kw
Laser Welding Minimum Molten Pool	0.1mm
Laser Pulse Frequency	30Hz
Laser Pulse Width	10ms
Laser Power Range	250-430V
Spot Adjustment Range	0.1~3.0mm
Spot Size	0.2~3.0mm
Protective Gas	1 channel
Electricity Demand	AC220V±10%,50 Hz
Cooling System	Water

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