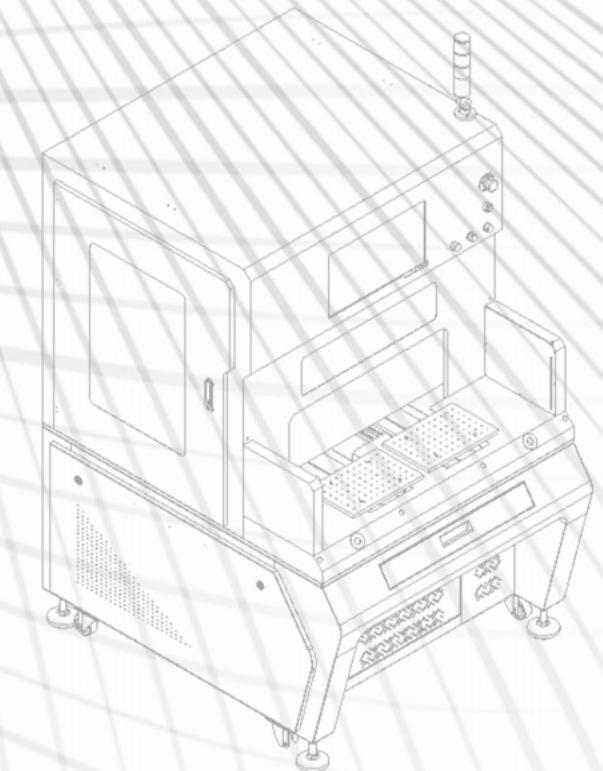




CHENXIONG MAC-ELEC CO.LTD

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Because of the professional



非标自动化激光设备生产商  
Manufacturer of non-standard automatic laser equipment

# 光纤连续激光焊接机

LX-1000/1500/2000/3000W

自动焊接

提高效率



## 产品案例

## Product Case



## 适用行业及材料

## Applicable Industries and materials

- 主要应用于：飞轮盘、大离合器、齿轮类、汽车电机、水管接头、变径接头、三通管、阀门、金属眼镜框、叶轮、水壶、酒壶、不锈钢碗、传感器、二极管、铝合金、手机电池、门把手、搅拌器、货架、冲压件、铜件、铝件、铸造件、锂电池、汽车配件、模具五金、广告门窗、工艺品、厨卫家电、电极、铜镀镍产品等金属材料的精密焊接!
- Fly wheel, large clutch gear, gear, auto, motor, variable diameter pipe joint, tee pipe, valve, metal frame, impeller, kettle, hip, diode, aluminum alloy, stainless steel bowl, sensors, battery, doorknob, mixer, shelf, stamping, copper, aluminum parts, lithium battery, auto parts, casting, mold, crafts, hardware, advertising doors and Windows Kitchen appliances, electrodes, copper nickel plating products and other metal materials precision welding!

## 设备特点及优势

## Equipment Features and advantages

- 设备支持多轴联动，电机控制模组的精度，满足了大小产品的行程要求。焊点直径可根据要求调节大小，热影响区域小，不会导致精密产品变形，定位重复精度高，可焊接点、直线、圆、椭圆及方形等平面任意轨迹。也可焊接小而精细的几何区，不变形，焊缝小，均匀光滑；电脑控制焊接，定位精度高，聚焦光点小；焊接质量高，焊缝强度高于母体；焊后只需简单处理，即可使用，可不用焊丝、焊料，没有铅污染，不会导致母材材质变异，焊道光滑平整，易清洗，牢固又卫生，焊接可以全自动实行，只要事先在主机里输入行动路线就可以了，简单易上手。
- The equipment supports multi-axis linkage, and the precision of the motor control module meets the travel requirements of products of different sizes. Welding spot diameter can be adjusted according to requirements, the heat affected area is small, will not lead to the deformation of precision products, high positioning repeatability, welding spot, straight line, circle, ellipse and square plane arbitrary track. Can also weld small and fine geometric area, no deformation, small weld, uniform and smooth; Computer controlled welding, high positioning accuracy, small focusing spot; High welding quality, weld strength is higher than the matrix; After welding, only simple processing, can be used, can not use wire, solder, no lead pollution, will not lead to the material variation of the base material, welding pass smooth, easy to clean, firm and health, welding can be fully automatic, as long as the main machine in advance input action route can be, simple and easy to

## 系统技术参数

## Performance Parameters

设备名称 (Equipment name)	平台光纤连续激光焊接机 (Platform fiber continuous laser welding machine)
激光功率 (Laser power)	1000-3000W
激光波长 (Laser wavelength)	1080±5nm
功率范围 (Power range)	1-100%
调制频率 (Modulation frequency)	连续 / 调制 (Continuous/modulation)20-50KHz
功率稳定性 (Power stability)	≤ 3%
工作重复定位精度 (Work repeat positioning accuracy)	±0.02mm
光束质量 (Beam quality)	1.1/1.3/1.4/2.1-2.7m <sup>3</sup>
焊缝宽度 (Weld width)	0.3-4mm ( 可调 ) (Adjustable)
光纤输出接口 (Fiber output interface)	QBH 或定制输出 (QBH or customized output)
供电 (Powered by)	220V 或 (or)380V ( 根据功率 ) (According to power)
工作温度 (Operating temperature)	10-40° C
操作系统 (Operating system)	NC06-PC6 六轴激光焊接运动控制系统 (Six-axis laser welding motion control system)
光纤线缆 (Fiber optic cable)	15m
电机 (Motor)	伺服 / 步进/直线 ( 可选配 )
有效行程 (Effective itinerary)	X 轴 (axis)=500mm, Y 轴 (axis)=300mm, Z 轴 (axis)=300mm ( 可选配 ) (Optional)
最大功耗 (Maximum power consumption)	≤ 14KW( 根据选配功率 ) (According to optional power)
整机重量 (Total Weight)	约 (Abou)400KG
外形尺寸 (Dimensions)	1750*1200*1700mm



# 振镜式激光焊接机

LMH-1000W/2000W/3000W/4000W

极耳焊接

牢固美观



## 产品案例



## 适用行业及材料

Applicable Industries and materials

- 圆柱电池的极耳盖帽、防爆阀、侧缝焊接，方形电池的防爆阀、密封钉、顶盖封口、极耳软连接焊接，采样线端子、汇流排、极耳极柱、模组外框、模组汇流排焊接，电容产品、不锈钢薄片、手表电池、连接器、五金件、通信外壳等产品的焊接！
- Cylindrical battery pole ear cap, explosion-proof valve, side seam welding, square battery explosion-proof valve/sealing nail, roof sealing, ear soft connection welding, sampling terminal, bus, extremely ear column frame, module, module bus-bar welding, capacitance products, stainless steel sheet, watch battery shell, connectors, hardware, communication products such as welding!

## 设备特点及优势

Equipment Features and advantages

- 本设备采用龙门结构，满足锂电池组的各种尺寸需求。搭载高速振镜焊接头，可进行点、直线、圆等图案的焊接方式，通过软件控制全部功能，降低学习成本，可以快速上手，节省时间！设备整体稳定性高，满负荷时输出功率波动<3%，具备红光引导和进口传感器，拥有自动定焦功能！
- The equipment adopts gantry structure to meet the requirements of various sizes of lithium battery pack. Equipped with high speed galvanometer welding head, welding mode of point, straight line, circle and other patterns can be carried out. All functions can be controlled by software to reduce learning cost, and you can learn quickly and save time! The overall stability of the equipment is high, the output power fluctuation is less than 3% at full load, with red light guidance and imported sensors, with automatic focusing function!

## 系统技术参数

Performance Parameters

设备名称 (Equipment name)	振镜式激光焊接机 (Galvanometer laser welding machine)
机器型号 (Machine type)	LYLASER-LMH1000w/2000w/3000w/4000w
激光功率 (Laser power)	1000-4000W
激光波长 (Laser wavelength)	1080±5nm
功率范围 (Power range)	1-100%
调制频率 (Modulation frequency)	连续 / 调制 (Continuous/modulation)20-50KHz
功率稳定性 (Power stability)	3%
工作重复定位精度(Work repeat positioning accuracy)	±0.02mm
光束质量 (Beam quality)	1.1/1.3/2.1m3
红光定位 (Red light positioning)	有 (Have)
最小焊缝宽度 (Minimum weld width)	0.05 ( 可调 ) (Adjustable)
光纤输出接口 (Fiber output interface)	QBH 或定制输出 (QBH or customized output)
供电 (Powered by)	220V 或 (or)380V
工作温度 (Operating temperature)	10-40° C
操作系统 (Operating system)	专用激光焊接运动控制系统 (Dedicated laser welding motion control system)
光纤线缆 (Fiber optic cable)	15m
电机 (Motor)	( 伺服 / 步进/直线 ) ( 可选配 ) (Servo/stepper/linear) (optional)
有效行程 (Effective travel)	500mm*500mm*300mm(可选配)(optional)
运动轴 (Motion axis)	4 轴 ( axis )
最大功耗 (Maximum power consumption)	20KW( 根据选配功率 )(According to optional power)
整机重量 (Total Weight)	约 (Abou)400KG
外形尺寸 (Dimensions)	1750*1200*1700mm



# 光纤传输激光焊接机

MCH-200W/300W/400/600W

精密焊接  焊斑细腻



## 产品案例

## Product Case



## 适用行业及材料 Applicable Industries and materials

- 手机外壳，传感器，笔记本电脑外壳，五金构件，厨具卫浴，军工制造，医疗器械，工艺礼品，钟表，电子元件，电池外壳，电池盖帽，电池极耳，电池防爆阀，动力电池，仪器仪表，马达，IT手机构件，硅钢片，汽车配件，激光熔覆，医疗器械等精密零件的焊接
- Mobile phone shell, sensors, laptop case, hardware, kitchen utensils and appliances that defend bath, military manufacturing, medical equipment, craft gifts, watches and clocks, electronic components, battery case, battery blocks, battery pole ear, explosion-proof valve batteries, power battery, instruments and meters, motors, IT mobile phone components, silicon steel, auto parts, laser cladding, welding of medical equipment and other precision parts

## 设备特点及优势 Equipment Features and advantages

- 光电转换效率高，可灵活搭配组合，可实现单机和一拖二等方式，满足多种产品的需求；高清CCD摄像监视系统，产品精准定位，监视焊接过程；焊斑能量均匀，焊点大小匀称，焊接深度一致；激光能量闭环反馈控制激光电源适用于精度和焊接要求高的产品；可选配不同的工作台，可定制自动化焊接平台实现自动化大批量连续生产。
- High efficiency of photoelectric conversion, flexible collocation and combination, can realize single machine and one tow second class, to meet the needs of a variety of products; Hd CCD camera monitoring system, accurate product positioning, monitoring the welding process; The energy of welding spot is uniform, the size of welding spot is symmetrical, and the welding depth is consistent; Laser energy closed-loop feedback control laser power supply is suitable for products with high precision and welding requirements; Different worktables can be selected, and automatic welding platform can be customized to realize automatic mass continuous production.

## 系统技术参数 Performance Parameters

设备名称 (Equipment name)	光纤传输激光焊接机(Fiber optic transmission laser welding machine)
机器型号 (Machine type)	LYLASER MCH-200W/300W/400/600W
激光功率 (Laser power)	200-600W
激光波长 (Laser wavelength)	1064nm
脉冲能量 (Pulse energy)	60J-100J
峰值功率 (Peak power)	6KW-10KW
脉宽 (Pulse width)	0-20ms
脉冲重复频率 (Pulse repetition rate)	1—200HZ
焊接熔深 ( 不锈钢 304 ) Welding depth (304 stainless steel)	1.5mm-3.0mm
焊接熔深 ( 碳钢板 ) Welding depth (carbon steel plate)	1.0mm-2.5mm
焊接熔深 ( 纯铝 ) Welding depth (pure aluminum)	0.8mm-2.0mm
焊接熔深 ( 紫铜 ) Welding depth (copper)	0.8mm-2.0mm
焊接熔深 ( 黄铜 ) Welding depth (brass)	0.8mm-2.0mm
焊接熔深 ( 镍 ) Welding depth (nickel)	0.8mm-2.0mm
分光方式 (Spectroscopic methods)	精密能量分光或高速时间分光 ( Precision energy spectroscopic or high-speed time spectroscopic )
闭环反馈控制方式 (Closed-loop feedback control)	任意波形实时控制功率负反馈 ( Arbitrary waveform real-time control power negative feedback )
能量波动性 (Energy fluctuation)	<±3%
分光光纤路数 (Number of optical fiber paths)	≤4
瞄准定位方式 (Aiming and positioning mode)	激光二极管红光指示 ( CCD 选配 ) Laser diode red light indicator (CCD optional)
冷却方式 (Cooling way)	外置冷水机 ( External water chiller )
设备功耗 (Power consumption)	8KW-18KW
电力要求 (The power requirements)	AC380V±15% 50/60Hz



# 纳秒激光点焊机

MCH-200W/300W/400/600W

扫描焊接  高精度定位



## 产品案例

## Product Case



## 适用行业及材料 / Applicable Industries and materials

- 广泛应用于如铜-铝，铀-镁，不锈钢-铝，镍-铝，铝-铝，镍-铜，铜-铀等的焊接，材料厚度从0.03~0.2mm均可焊接，手机通讯、电子原件、眼镜钟表、首饰饰品、五金制品、精密器械、汽车配件、电池极耳焊接、手机马达焊接、天线弹片焊接、摄像头马达焊接，工艺礼品等行业。
- Widely used in such as copper - aluminum, uranium-magnesium, stainless steel - aluminum, nickel - aluminum, aluminum - aluminum, nickel - copper, copper - uranium and other welding, material thickness from 0.03~0.2mm can be welded, Mobile communication, electronic components, glasses and clocks, jewelry, hardware products, precision instruments, auto parts, battery pole ear welding, mobile phone motor welding, antenna shrapnel welding, camera motor welding, craft gifts and other industries.

## 设备特点及优势 / Equipment Features and advantages

- 激光脉宽可调，采用扫描焊接方式，可重复性好，熔深大，热效应小，斑点小可实现任意形状点焊接。对异种金属薄片类的焊接，可实现点焊、叠焊，拉力与良率均优于长脉冲焊接。焊点由多个高峰值的纳秒脉冲组成，提高了在有色金属表面的吸收率，因此可以稳定焊接铜、铝等有色金属。配合同轴视觉定位系统，集大幅面与高精度于一体，尤其适合高速高精度焊接加工。可精确控制，聚焦光点小，可高精度定位，易实现自动化。
- Laser pulse width adjustable, scanning welding, good repeatability, deep fusion, small thermal effect, small spot can be realized arbitrary shape spot welding. For the welding of dissimilar metal sheet, spot welding and overlay welding can be realized, and the tensile force and yield are better than long pulse welding. Solder joints are composed of nanosecond pulses with multiple peak values, which improve the absorption rate on the non-ferrous metal surface, so it can stabilize the welding of copper, aluminum and other non-ferrous metals. With coaxial visual positioning system, it integrates large area and high precision, especially suitable for high speed and high precision welding. Precise control, small focusing spot, high precision positioning, easy to realize automation.

## 系统技术参数 / Performance Parameters

设备名称 (Equipment name)	视觉定位纳秒激光焊接机(Visual positioning nanosecond laser welding machine)		
设备型号 (Equipment model)	LYLASER NM-70W/100W/120W		
最大激光输出功率 (Maximum laser output power)	70W	100W	120W
最大脉冲能量 (Maximum pulse energy)	1mj	1.5mj	1.5mj
脉冲宽度 (The pulse width)	2-250ns	10-350ns	10-350ns
满功率频率范围 (Full power frequency range)	70-2000KHz	67-1500KHz	80-1500KHz
频率可调范围 (Frequency adjustable range)	1-2000KHz	1-1500KHz	1-1500KHz
激光波长 (The laser wavelength)	1064nm		
激光类型 (Laser type)	高脉冲焊接专款(Special fund for high pulse welding)		
功率调节范围 (Power range)	1 ~ 100%		
焊接幅面 (The weld width )	110mm*110mm(也可选配其他) (Other optional)		
重复定位精度 (Repetitive positioning accuracy)	±0.03mm		
冷却方式 (Cooling way)	风冷		
输出功率稳定性 (Output power stability)	≤5%		
电力需求 (Demand for electricity)	220v/50Hz/20A		
对外自动化接口 (External automation interface)	可根据自动化要求定制(Can be customized according to automation requirements)		
外形尺寸 (Dimensions )	1000*900*1600 ( mm )		
整机重量 (TotalWeight )	约 ( About ) 200kg		



## 龙门振镜光纤连续激光焊接机

LMH-1000W/2000W/3000W/4000W

电池焊接  整体稳定性高



### 产品案例 Product Case



### 适用行业及材料 Applicable Industries and materials

- 圆柱电池的极耳盖帽、防爆阀、侧缝焊接；方形电池的防爆阀、密封钉、顶盖封口、极耳软连接焊接；采样线端子、汇流排、极耳极柱、模组外框、模组汇流排焊接；电容产品、不锈钢薄片、手表电池、连接器、五金件、通信外壳等产品的焊接！
- Cylindrical battery pole ear cap, explosion-proof valve, side seam welding; square battery explosion-proof valve, sealing nail, roof sealing, ear soft connection welding; sampling terminal, bus, extremely ear column frame, module, module bus-bar welding; capacitance products, stainless steel sheet/watch battery shell, connectors, hardware, communication products such as welding!

### 设备特点及优势 Equipment Features and advantages

- 本设备采用龙门结构，满足锂电池组的各种尺寸需求。搭载高速振镜焊接头，可进行点、直线、圆等图案的焊接方式，通过软件控制全部功能，降低学习成本，可以快速上手，节省时间！设备整体稳定性高，满负荷时输出功率波动<3%，具备红光引导和进口传感器，拥有自动定焦功能！
- The equipment adopts gantry structure to meet the requirements of various sizes of lithium battery pack. Equipped with high speed galvanometer welding head, welding mode of point, straight line, circle and other patterns can be carried out. All functions can be controlled by software to reduce learning cost, and you can learn quickly and save time! The overall stability of the equipment is high, the output power fluctuation is less than 3% at full load, with red light guidance and imported sensors, with automatic focusing function!

### 系统技术参数 Performance Parameters

设备名称 (Equipment name)	龙门振镜光纤连续激光焊接机 (Longmen galvanometer fiber continuous laser welding machine)
机器型号 (Machine type)	LYLASER-LMH-1000w/2000w/3000w/4000w
激光功率 (Laser power)	1000-4000W
激光波长 (Laser wavelength)	1080±5nm
功率范围 (Power range)	1-100%
调制频率 (Modulation frequency)	连续 / 调制 (Continuous/modulation) 20-50KHz
功率稳定性 (Power stability)	3%
工作重复定位精度 (Work repeat positioning accuracy)	±0.02mm
光束质量 (Beam quality)	1.1/1.3/2.1m3
红光定位 (Red light positioning)	有 (Have)
最小焊缝宽度 (Minimum weld width)	0.05 ( 可调 ) (Adjustable)
光纤输出接口 (Fiber output interface)	QBH 或定制输出 (QBH or customized output)
供电 (Powered by)	220V 或 (or) 380V
工作温度 (Operating temperature)	10-40 °C
操作系统 (Operating system)	专用激光焊接运动控制系统 (Dedicated laser welding motion control system)
光纤线缆 (Fiber optic cable)	15m
电机 (Motor)	( 伺服 / 步进 / 直线 ) ( 可选配 ) (Servo/stepper/linear) (optional)
有效行程 (Effective itinerary)	800mm*500mm*500mm*300mm (可选配) (Optional)
运动轴 (Motion axis)	4 轴 ( axis )
最大功耗 (Maximum power consumption)	20KW ( 根据选配功率 ) (According to optional power)
整机重量 (Total Weight)	约 (About) 2000KG
外形尺寸 (Dimensions)	3000*1200*1800mm



# 手持式光纤激光焊接机

SCH-1000/1500/2000W/3000W

高稳定性  一体式结构设计



## 产品案例



## 适用行业及材料

Applicable Industries and materials

- 橱柜/楼梯电梯/货架/烤炉/不锈钢门窗护栏/配电箱/水槽/钣金件等不锈钢, 碳钢, 铝件, 金属材质等
- Cabinets/stairs/elevators/shelves/ovens/stainless steel doors and Windows guardrail/distribution box/sink/sheet metal parts, stainless steel, carbon steel, aluminum, metal materials, etc

## 设备特点及优势

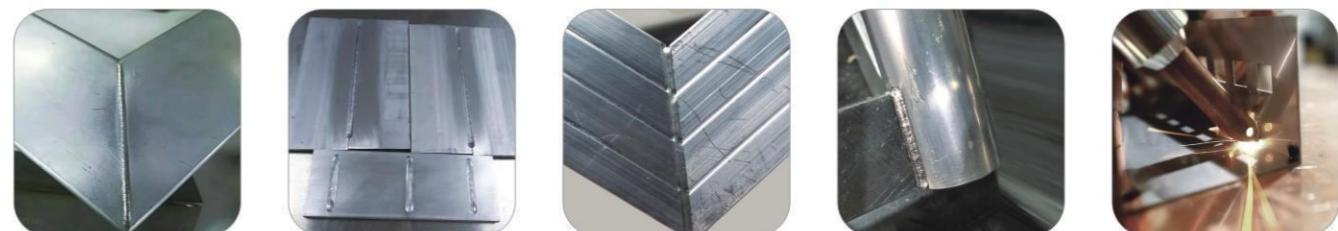
Equipment Features and advantages

- 一体式结构设计, 灵活方便光纤激光器焊接, 具有电光转换率高, 光束质量好, 可靠性高, 运行免维护等优点、灵活的设计适合各类框架结构件的内角、外角、拼缝的远距离点焊满焊; 高稳定性, 满负荷时输出功率波动<3%; 具备红光导引、自动送丝; 预留拓展 I/O 接口、可配合电气自动化装置联动工作; 搭载双摆动焊接头、可进行点、直线、圆、字、鱼鳞纹等图案焊接方式。易操作免维护; 该激光焊接设备, 主要由光纤激光器、高速双摆焊接头、冷却循环系统、红光指示、送丝系统组成。
- Integrated structure design, flexible and convenient fiber laser welding with high electro-optical conversion rate, good beam quality, high reliability, operation and maintenance free advantages, flexible design suitable for all kinds of frame structural parts of the inner Angle, outer Angle, joint distance spot welding full welding; High stability, output power fluctuation <3% at full load; With red light guidance, automatic wire feeding; Reserved expansion I/O interface, can cooperate with electrical automation device linkage work; Equipped with double swing welding head, can be welding point, straight line, circle, figure 8, fish scale pattern and other patterns. Easy operation and maintenance free; The laser welding equipment is mainly composed of fiber laser, high-speed double pendulum welding head, cooling cycle system, red light indicator and wire feeding system.

## 系统技术参数

Performance Parameters

设备名称(Equipment name)	手持式光纤连续激光焊接机(Handheld fiber continuous laser welding machine)
机器型号 (Machinetype)	LYLASER SCH-1000/1500/2000/3000W
激光功率 (Laser power)	1000-3000W
激光波长 (Laserwavelength)	1080±5nm
功率范围 (Power range)	5-100%
调制频率 (Modulation frequency)	连续 / 调制 20-50KHz ( Continuous/modulation 20-50KHz )
功率稳定性 (Power stability)	3%
光束质量 (Beam quality)	M2 > 1.1
红光定位 Red ( light positioning)	有 ( Have )
最大焊缝宽度 (Maximum weld width)	0.3-5mm
光纤输出接口 (Fiber output interface)	QBH 或定制输出 ( QBH or customized output )
供电 (Powered by)	220V ( 根据功率 ) ( 220V according to power )
工作温度 (Operating temperature)	10-40° C
操作系统 (Operating system)	手持专用控制系统 ( Hand-held special control system )
光纤线缆 (Fiber optic cable)	15m ( 可选配 ) ( 15m optional )
最大功耗 (Maximum power consumption)	12KW( 根据选配功率 ) ( ≤ 12KW (according to optional power )
整机重量 (TotalWeight)	约 300kg ( About 300kg )
外形尺寸 (Dimensions)	1200*650*1100mm



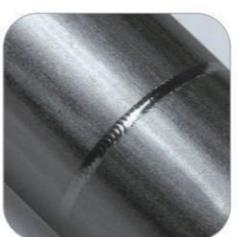
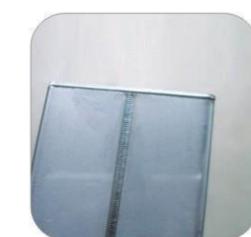
# YAG 自动化激光焊接机

ZDH-200W/300W/400/500W

维护简单  自动精密焊接



## 产品案例



## 适用行业及材料

Applicable Industries and materials

- 水壶、真空杯、不锈钢碗、门把手、电器配件、滤清器、油嘴、壶嘴、高尔夫球头、铝合金工艺品、不锈钢制品、金、银、铁、铝、合金、碳、金钢石等同材焊接或异材焊接!
- Kettle, vacuum cup, stainless steel bowl, door handle, electrical accessories, filter, oil nozzle, spout, golf ball head, aluminum alloy crafts, stainless steel products, gold, silver, iron, aluminum, alloy, carbon steel, gold steel stone equivalent welding or other welding material!

## 设备特点及优势

Equipment Features and advantages

- 采用英国进口陶瓷聚光腔体，耐腐蚀，耐高温，寿命长，模块化设计，维护简单，氙灯寿命高达800万次以上。可以点焊，对接焊，叠焊，密封焊等各种精密产品的高要求焊接，焊接效果平整，焊缝宽度小，热影响区小，能完成传统工艺无法实现的全自动精密焊接!
- Using ceramic concentrating cavity imported from Britain, corrosion resistance, high temperature resistance, long life, modular design, simple maintenance, xenon lamp life up to more than 8 million times. Can spot welding, butt welding, overlapping welding, sealing welding and other precision products of high requirements of welding, welding effect is smooth, weld width is small, the heat affected zone is small, can complete the traditional process can not achieve automatic precision welding!

## 系统技术参数

Performance Parameters

设备名称 (Equipment name)	YAG自动激光焊接机 (YAG automatic laser welding machine)
机器型号 (Machine type)	LYLASER ZDH-200W/300W/400/500W
激光功率 (Laser power)	200-500W
激光波长 (Laser wavelength)	1064nm
脉冲能量 (Pulse energy)	70J-100J
脉宽 (Pulse width)	0-20ms
脉冲重复频率 (Pulse repetition rate)	1—200HZ
激光频率 (The laser frequency)	0-50Hz
定位精度 (Positioning accuracy)	±0.02mm
焊斑大小 (Welding spot size)	0.2mm-2mm
焊斑深度 (The depth of the welding spot)	0mm-2mm
聚焦距离 (Focusing on distance)	F=110/F130/F150
观察方式 (To observe the way)	红光+CCD监视 Red light +CCD monitoring
工作台行程 (Table stroke)	200mm*200mm ( 可选其他 ) (Optional)
冷却方式 (Cooling way)	外置冷水机 ( External water chiller )
设备功耗 (Power consumption)	6KW-15KW
电力要求 (The power requirements)	AC380V±15% 50/60Hz
整机尺寸 (The whole machine size)	1500mm*700mm*1200mm

## 产品案例





稳定



便捷



高效

非标自动化激光设备生产制造商

## 模具激光修补机

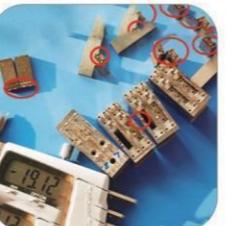
MJH-200W/300W/400W

快速补焊  操作简单便捷



### 产品案例

### Product Case



### 适用行业及材料 / Applicable Industries and materials

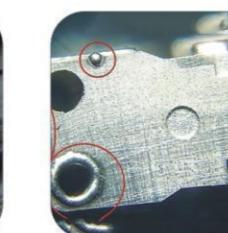
- 广泛应用于精密模具的修补,如数码产品、手机、玩具、汽车、摩托车等模具制造和成型行业。通过模具的修补,可以将原来的模具重新充分利用,大大节约了生产成本和提高了工作效率。焊接的材料非常广泛,包括:冷作高合金钢、热锻高合金钢、含镍工具钢、高级钢、铜合金、铍铜、高韧铝合金等金属材料。
- Widely used in precision mold repair, such as digital products, mobile phones, toys, cars, motorcycles and other mold manufacturing and molding industries. Through the repair of the mold, the original mold can be fully utilized, greatly saving the production cost and improving the work efficiency. The welding materials are very wide, including: cold working high alloy steel, hot forging high alloy steel, nickel containing tool steel, high-grade steel, copper alloy, beryllium copper, high toughness aluminum alloy and other metal materials.

### 设备特点及优势 / Equipment Features and advantages

- 采用英国进口陶瓷聚光腔体,耐腐蚀,耐高温,腔体寿命(8-10)年,氙灯寿命800万次以上。采用世界上最先进的自动遮光系统,消除了在工作时光对眼睛的刺激。激光头可旋转360度,整体光路部份可转动360度,以及上下电动升降,前后推动,特别适合各种大、中、小型模具的修补。参数调节采用智能化遥控器控制,操作简单、快捷。工作台可电动升降,三维移动。光点大小电动调节。
- The use of British imported ceramic concentrating cavity, corrosion resistance, high temperature resistance, cavity life (8-10) years, xenon lamp life more than 8 million times. The world's most advanced automatic shading system eliminates eye irritation during working hours. Laser head can rotate 360 degrees, the whole light path part can rotate 360 degrees, as well as up and down electric lifting, pushing back and forth, especially suitable for all kinds of large, medium and small mold repair. Parameter adjustment is controlled by intelligent remote control, simple and fast operation. The worktable can be raised and lowered electrically, and move in three dimensions. Electric adjustment of spot size.

### 系统技术参数 / Performance Parameters

设备名称(Equipment name)	模具激光修补机(Die laser repair machine)
设备型号 (Equipment model)	LYLASER MJH-200W/300W/400W
激光输出功率 (Laser output power)	200W / 300W / 400W
激光类型 (Laser type)	1064nm
光点调节范围 (Light spot adjustment range)	0.1-0.3mm
光点大小 (Light spot size)	0.2-3.0mm
激光输出焦距 (Laser output focal length)	80mm / 100mm / 120mm ( 可选 ) (optional)
脉冲脉宽 (Pulse width)	≤20ms
激光频率 (The laser frequency)	≤50Hz
冷却方式 (Cooling way)	水冷Water cooled
观察系统 (Observation system)	显微镜 ( 可旋转360度 ) Microscope ( can rotate 360 degrees )
焊丝直径 (Wire diameter)	0.1mm-0.8mm
工作台行程 (Table stroke)	125mm*100mm
额定功率 (Rated power)	6.5KW
工作台承载 (Table load)	100KG
电力需求 (Demand for electricity)	380v±5%/50Hz/20A或220V
外型尺寸 (Installation dimensions)	主机约 ( The host about ) : 500×1200×1280mm 冷水机约 ( Cold water machine about ) : 540×650×780mm



# 光纤激光打标机

GQ-20/30/50/100W

全风冷  无耗材免维护



## 产品案例



## 适用行业及材料

- 刀具钻头、电器开关、电子元件器、金属铭牌、工业轴承、铝件、卫浴洁具、汽车零部件、模具零件、五金工具、电线电缆、电路芯片、金属饰品、管道管材、钟表等所有的金属材质（包含：铁，铜，铝，镁，锌，金，钛，银，合金等稀有金属，金属氧化物），特殊表面处理产品（比如：铝表面阳极，表面电镀，磷化等），油墨（比如：透光按键，表面印刷等），部分非金属材质（比如：环氧树脂，ABS电器产品，PE管材，PVC塑料等）均可打标镭雕！
- All the metal materials (including: Iron, copper, aluminum, magnesium, zinc, gold, titanium, silver, alloy and other rare metals, metal oxides), special surface treatment products (such as: Yang grade aluminum surface, surface electroplating, phosphating, etc.), ink (such as: light button, surface printing, etc.), part of the non-metallic materials (such as epoxy resin, ABS electrical products, PE pipe, PVC plastic, etc.) are marking radium vulture!

## 设备特点及优势

- 全风冷，无耗材免维护，使用寿命长达10万小时，设备体积小、适用于恶劣环境工作！属于非接触加工、不损坏产品、无刀具磨损、标记质量好，激光束细、加工材料消耗很小、加工热影响区小，加工效率高、采用计算机控制、易于实现自动化。使用成本低，电光转换效率高！
- Full air cooling, no consumables, maintenance-free, service life up to 100,000 hours, small volume of equipment, suitable for harsh environment work! Belong to non-contact processing, no damage to products, no tool wear, good marking quality, laser beam is fine, processing material consumption is small, processing heat affected area is small, high processing efficiency, computer control, easy to achieve automation. Low cost, high electro-optical conversion efficiency!

## 系统技术参数

设备名称(Equipment name)	光纤激光打标机(Fiber laser marking machine)
型号 (Model)	LYLASER GQ-20/30/50/100W
激光类型 (Laser type)	Fiber
激光波长 (Wavelength)	1064nm
激光功率 (Laser power)	20 - 100 W@ 80 KHz
光束质量 (Beam quality)	M2 < 1.5
标记速度 (Marking speed)	12000mm/s
打标范围 (Marking area)	50mmx50mm-300mmx300mm
最小线宽 (Minimum marking width)	0.03mm
最小字符 (Minimum char actar)	0.5mm
打标深度 (The depth of the marking)	≤1.6mm (具体看机型) (specific see models)
重复精度 (Repeatability)	±0.03mm
冷却方式 (Cooling mode)	风冷 (Air cooling)
系统运行环境 (System operation environment)	Win XP/Win 7
光纤输出管长度 (Optical output tube length)	2米 (其他需定制) 2 meters (need to customize other)
电力需求 (Power requirement)	220V/20A/50Hz
工作环境 (The work environment)	温度 (The temperature) 0-40°, 湿度 (humidity) 10%-90%不结露 (No condensation)
整机功率 (Power)	800-1500 W
外形尺寸 (长 x 宽 x 高) (Dimensions length x width x height)	650mmx850mmx1500mm
整机重量(The weight)	约 (About) 75KG



# 二氧化碳激光打标机

CO<sub>2</sub>-30/40/60/80/100W

激光光束细  加工效率高



## 产品案例 Product Case



## 适用行业及材料 Applicable Industries and materials

- 竹木、椰壳、纸张、有机玻璃、PCB板、亚克力、橡胶、大理石、花岗石、玉石、水晶、皮革、布料、工艺礼品、广告装饰、玩具、电子电器、服装、医药包装、食品饮料包装、纸制品等绝大多数非金属材料。
- Bamboo、coconutshell、paper、organicglass、PCB、acrylic、rubber、marble、granite、jade、crystal、leather、cloth、crafts、advertising decoration、toys、electronic appliances、clothing、pharmaceutical packaging、food and beverage packaging、paper products and other most non-metallic materials

## 设备特点及优势 Equipment Features and advantages

- 选用优质金属射频管和高速振镜激光打标头，打标速度快，光斑细腻光束质量高，使用寿命长，安装灵活，维护方便等特点，可配合各种自动化设备使用！性能稳定，可长久运行，激光器寿命长达2万小时，通过调节激光的输出功率来控制打标的深浅，可对产品进行表面打标，雕刻，切割，适合小幅面的静态加工等！
- High quality metal radio frequency tube and high speed galvanometer laser marking head, marking speed is fast, light spot exquisite beam quality is high, long service life, flexible installation, convenient maintenance and other characteristics, can be used with a variety of automation equipment! Stable performance, can run for a long time, the life of the laser is up to 20,000 hours, by adjusting the output power of the laser to control the depth of marking, can be the product surface marking, engraving, cutting, suitable for small surface static processing!

## 系统技术参数 Performance Parameters

设备名称(Equipment name)	二氧化碳激光打标机(Carbon dioxide laser marking machine)
型号 (Model)	LYLASER CO <sub>2</sub> -30/40/60/80/100W
激光类型 (Laser type)	CO <sub>2</sub>
激光波长 (Wavelength)	9.3um/10.2um/10.6um
激光功率 (Laser power)	30 - 100 W
光束质量 (Beam quality)	M2 < 1.5
标记速度 (Marking speed)	12000mm/s
打标范围 (Marking area)	70mmx70mm-300mmx300mm
最小线宽 (Minimum marking width)	0.1-0.15mm
最小字符 (Minimum char actar)	0.4-0.6mm
打标深度 (The depth of the marking )	≤5mm(具体看机型) (specific see models)
重复精度 (Repeatability)	±0.03mm
激光重复频率 (Laser repetition rate )	10-100KHZ
冷却方式 (Cooling mode)	风冷 (Air cooling)/水冷(Water Cooling)
系统运行环境 (System operation envirnment)	Win XP/Win 7
电力需求 (Power requirement)	220V/20A/50Hz
工作环境 (The work environment )	温度 ( The temperature ) 0-40°, 湿度 ( humidity ) 10%-90%不结露 ( No condensation )
整机功率 (Power)	1000-2000 W
外形尺寸 ( 长 x 宽 x 高 ) (Dimensions length x width x height)	650mmx850mmx1500mm
整机重量 (The weight )	约 ( About ) 85KG



# 紫外激光打标机

UV-3/5/10/15/20W/25W

冷光系列  精细打标



## 产品案例



## 适用行业及材料 / Applicable Industries and materials

- 主要应用于：各种塑料产品/玻璃/蓝宝石/水晶/玛瑙/黑曜石/薄片陶瓷/单晶硅片/ IC晶粒/液晶屏、等离子屏/光盘等较高要求的产品精细打标
- Mainly used in: all kinds of plastic products/glass/sapphire/crystal/agate/obsidian/thin ceramic/single crystal Silicon WAFER/IC crystal/liquid crystal screen, plasma screen/optical disc and other high-demand products fine marking

## 设备特点及优势 / Equipment Features and advantages

- 激光光束质量好、聚焦光斑小、热影响区小，脉冲宽度窄、波长短、单光子能量大  
应用范围广泛，基本无需耗材、使用成本及维护成本低，整机性能稳定、可长期运行  
软件功能强大、并能按照客户要求定制
- The laser beam has good quality, small focusing spot, small heat-affected area, narrow pulse width, short wavelength, large single-photon energy, and wide application range, the machine features stable performance, powerful software functions for long-term operation, and can be customized according to customer requirements

## 系统技术参数 / Performance Parameters

设备名称 (Equipment name)	紫外激光打标机(Ultraviolet laser marking machine)
型号 (Model)	LYLASER UV-3/5/10/15/20W/25W
激光类型 (Laser type)	脉冲型全固态激光 (Pulse solid-state laser)
激光波长 (Wavelength)	355nm
激光功率 (Laser power)	3-20 W@ 30 KHz
光束质量 (Beam quality)	M2 < 1.2
脉冲重复频率 (Pulse Repetition Rate)	30-120KHz
光斑直径 (Beam Diameter)	0.7±0.1mm
标记速度 (Marking speed)	≤ 12000mm/s
打标范围 (Marking area)	50mmx50mm-300mmx300mm
最小线宽 (Marking width)	0.012mm
最小字符 (Minimum character)	0.15mm
重复精度 (Repeatability)	±0.03mm
冷却方式 (Cooling mode)	风冷 (Air cooling)/水冷 (Water Cooling)
系统运行环境 (System operation environment)	Win XP/Win 7
电力需求 (Power requirement)	220V/20A/50Hz
整机功率 (Power)	800-1500W
外形尺寸 (长 x 宽 x 高) (Dimensions length x width x height)	650mmx800mmx1500mm
整机重量 (Machine weight)	约110KG
软件功能 (Software function)	支持编辑任意曲线文本，图形绘制，中英文数字文字输入功能，一维码 二维码生成功能，矢量文件/位图文件/变量文件，多国语言支持，可配合 旋转打标功能，飞行打标，软件二次开发



# 高脉冲激光打标机

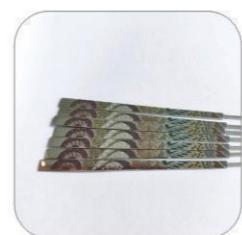
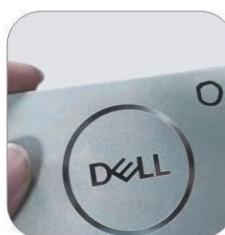
MOPA -20/30/80/100W

脉宽可调  峰值功率高



## 产品案例

## Product Case



## 适用行业及材料 / Applicable Industries and materials

- 不锈钢材质打标彩色效果，氧化铝打标黑色无手感效果，黑色塑料打标较白效果，塑料按键去油漆透光，手机弹片焊接/异种材料焊接/纳秒焊接，铝快速打黑，铝合金切割，氧化铝打标亮面或镜面效果，金属材质产品打标深度等！
- Stainless steel material marking color effect, alumina black marking no touch effect, black plastic marking the white effect, plastic buttons to paint pervious to light, mobile phone shell welding/welding of dissimilar materials/nanoseconds, aluminum quick play the black, cutting aluminum alloy, alumina marking the glossy or mirror effect, and metal products, such as marking depth!

## 设备特点及优势 / Equipment Features and advantages

- 卓越的光束质量：聚焦光斑更小，加工质量更好；脉宽1ns ~ 250ns极大的脉宽可调范围，应用材料范围广，工作频率可调至500KHz；可实现恒定的峰值功率输出，加工效率更高；频率低至1kHz，应用于塑料及其他敏感材料打标；低脉宽，氧化铝快速打黑；优质的光束质量，适用低热效应、大焦深应用；首脉冲可用、脉冲响应更迅速；0漏光，更安全。
- Excellent beam quality: smaller focus spot, better processing quality.  
Pulse width 1ns ~ 250ns maximum adjustable range of pulse width, wide range of application materials, working frequency can be adjusted to 500KHz.  
Can achieve constant peak power output, higher processing efficiency.  
Frequency as low as 1kHz, used for marking plastic and other sensitive materials.  
Low pulse width, quick blackening with alumina.  
Excellent beam quality, suitable for low thermal effect, large depth of focus applications.  
The first pulse is available and the pulse response is faster.  
0 light leakage, more safe.

## 系统技术参数 / Performance Parameters

设备名称 (Equipment name)	高脉冲激光打标机 (High pulse laser marking machine)
型号 (Model)	LYLASER MOPA -20/30/80/100W
激光类型 (Laser type)	MOPA
激光波长 (Wavelength)	1064nm
激光功率 (Laser power)	20 - 100 W
光束质量 (Beam quality)	M2 < 1.5
脉冲宽度 (可调) Pulse Width (adjustable)	1-250ns
满功率频率范围 (Full power frequency range)	40-4000KHz
标记速度 (Marking speed)	≤ 12000mm/s
打标范围 (Marking area)	110mm*110mm (也可选配其他范围) (optional)
最小线宽 (Minimum marking width)	≥0.01mm
最小字符 (Minimum char actar)	≥0.15mm
重复精度 (Repeatability)	±0.03mm
冷却方式 (Cooling mode)	风冷 (Air cooling)
系统运行环境 (System operation envirnment)	Win XP/Win 7
电力需求 (Power requirement)	220V/20A/50Hz
整机功率 (Power)	800-1500 W
外形尺寸 (长 x 宽 x 高) (Dimensions length x width x height)	600mmx850mmx1500mm
整机重量 (The weight)	约 (About) 75KG

# 紫外视觉激光打标机

UV-3/5/10/15/20W/25W

随意摆放  自动识别定位



## 产品案例



## 适用行业及材料

Applicable Industries and materials

- 基于传统打标机的基础上，采用高精度CCD相机对产品当前的位置进行捕捉，并将实时采集到的一个或多个产品的信息，通过电脑依次传输给打标控制软件，从而实现精准打标，打标产品可随意摆放，一次可放多个产品，产品任意位置，任意角度，任意形状，软件基本都能自动识别，一次可完成多个产品的自动打标。
- Based on the traditional marking machine, a high-precision CCD camera is used to capture the current position of the product, and the location information of one or more products collected in real time is transmitted to the marking control software through the computer in turn, so as to achieve accurate marking. Marking products can be placed at will, one can put multiple products, products at any position, any Angle, any shape, the software can automatically identify the basic, one can complete the automatic marking of multiple products.

## 设备特点及优势

Equipment Features and advantages

- 软件可配置多种激光光源的设备（紫外光纤CO2）均可可以配输送带自动输送，自动掉料，只需将工件放置输送机上，或者通过振动盘上料至输送带上，无需固定准确位置，也可以配XY轴移动平台，整版上料自动定位打标完成后，人工或机械手取料下来即可。如需打标二维码，可以加装检测二维码是否有漏打重码错码是否是唯一码等功能，采用报警提示或剔除处理，在标准打标范围区域的话，视觉识别基本精度可在±0.05mm之内，也可根据实际产品去选配，支持单向/双向流水带高精度视觉定位，支持单/双相机；支持多种原图文件格式导入/导出无需多个人工，软件简单易学无耗材，精度高，省时，省力，省成本，效率高提高生产效率，易于实现兼容多个产品的自动化生产流水线，为工厂节约大量成本占用空间小，可在现有的标准机设备上直接加装，无需另外的非标定制款。
- Software can be configured with a variety of laser light source equipment (UV fiber CO2) can be equipped with conveyor belt automatic conveying, automatic material removal, only need to place the workpiece on the conveyor, or through the vibration plate feeding to the conveyor belt, without fixing the exact position. It can also be equipped with XY axis mobile platform. After automatic positioning and marking of the whole plate feeding, manual or manipulator can take the material down. If the two-dimensional code needs to be marked, it can be installed to detect whether the two-dimensional code is missing or the error code is the only code and other functions, using alarm prompts or elimination processing. In the standard marking area, the basic accuracy of visual recognition can be within ±0.05mm, but also according to the actual product to choose. Support unidirectional/bidirectional flow high precision visual positioning, support single/double camera. Support a variety of original image file format import/export without multiple manual, easy to learn software. No consumables, high precision, time saving, labor saving, cost saving, high efficiency. Improve production efficiency, easy to realize the automatic production line compatible with multiple products, save a lot of costs for the factory. Small space, can be directly installed on the existing standard machine equipment, without the need for additional non-standard customization.

## 系统技术参数

Performance Parameters

设备名称(Equipment name)	视觉自动激光打标机(Visual automatic laser marking machine)
传送方式 (Transmission way)	输送机/XY轴移动平台/振动盘等 (可根据实际产品去选配) Conveyor /XY axis mobile platform/vibration plate, etc. (according to the actual product)
打标范围 (Marking the scope)	70mm*70mm-300mm*300mm (也可选配其他) (Other optional)
定位方式 (Positioning way)	CCD视觉visual
光源类型 (The light source type)	条光/环光/面光源/背光源灯 (可根据实际产品去选配) Strip light/ring light/surface light/backlight light (can be selected according to the actual product)
计数功能 (The count function)	统计总数, 统计批次数量Count the total number, count the number of batches
上料方式 (Feeding way)	人工上料/机械手上料 (均可) Manual feeding/mechanical hand feeding (both acceptable)
通讯端口 (Communication port)	COM口/TCP/IP等
相机像素 (Camera pixels)	500万/1000万/2000万等 (可根据实际产品去选配)
支持激光器类型 (Supported Laser types)	光纤/二氧化碳/紫光/绿光 (均可) fiber/CO2/UV/Green light (both acceptable)



# 3D 激光打标机

3D/20-150W

曲面打标  自动调节焦距



## 产品案例 Product Case



## 适用行业及材料 Applicable Industries and materials

- 适用于三维曲面的各种金属或非金属产品的激光打标，广泛应用于手机制造，立体电路，医疗器械，模具，3C电子，汽车零部件，电子通讯等行业曲面产品的激光三维打标。
- It is suitable for laser marking of various metal or non-metal products with 3d curved surface, widely used in mobile phone manufacturing, three-dimensional circuit, medical equipment, mold, 3C electronics, auto parts, electronic communication and other industries.

## 设备特点及优势 Equipment Features and advantages

- 适合各种形状打标，三轴控制可实现自动调焦，在各种阶梯，凹凸面可实现无差别打标。可加工范围更大，在标准打标机的前提下，Z轴可实现40MM的打可变焦打标。打标精度高，三轴打标可任意改变激光打标的焦点，消除传统2轴镜头特性导致的区域变形，失真，光斑偏差。适合深度打标，打标过程中自动调整焦距，对加工面始终以最高密度的能量加工，打标深度更深。
- Suitable for all kinds of shape marking, three axis control can achieve automatic focusing, in all kinds of ladder, concave and convex surface can achieve no difference marking. Processing range is larger, under the premise of standard marking machine, Z axis can achieve 40MM play zoom marking. High marking precision, three-axis marking can arbitrarily change the laser marking focus, eliminate the traditional 2-axis lens characteristics caused by regional deformation, distortion, spot deviation. Suitable for depth marking, automatically adjust the focal length in the marking process, the processing surface is always processed with the highest density of energy, marking depth deeper.

## 系统技术参数 Performance Parameters

设备名称(Equipment name)	3D 激光打标机(3D laser marking machine)		
型号 (Model)	LYLASER -3D/20-100	LYLASER -3D/30-150	LYLASER -3D/3-20
激光功率 (Laser power)	20W/30W/50W/70W/100W	30W/60W/80W/100W/150W	3W/5W/10W/15W/20W
激光波长 (Wavelength)	1064nm	9.3um/10.2um/10.6um	355nm
最小字符 (Minimum char actar)	0.5mm	0.4-0.6mm	0.5mm
最小线宽 (Marking width)	0.03mm	0.1-0.15mm	0.03mm
光束质量 (Beam quality)	M2 < 1.5		
打标范围 (Marking area)	100mm*100mm*20mm--600mm*600mm*180mm		
重复精度 (Repeatability)	±0.03mm		
冷却方式 (Cooling mode)	风冷 (Air cooling)/水冷 ( Water Cooling )		
系统运行环境 (System operation environment)	Win XP/Win 7		
电力需求 (Power requirement)	220V/20A/50Hz		
整机功率 (Power)	看具体机型而定 ( It depends on the specific model )		
外形尺寸 (Overall dimensions)	看具体机型而定 ( It depends on the specific model )		
整机重量 (Machine weight)	看具体机型而定 ( It depends on the specific model )		



# 端泵激光打标机

DB-12W/15W/20W

按键透光剥漆  清爽无杂质



## 产品案例 / Product Case



## 适用行业及材料 / Applicable Industries and materials

- 塑料、塑胶 (ABS、PP、PC、PVC、PS等), 工程塑胶、油墨 (汽车透光按键、键盘透光按键, 印刷制品), 环氧树脂 (电子元件的封装、绝缘层)。
- Steel plate, stainless steel plate, carbon steel, aluminum alloy, hard alloy and other metal materials of any hardness can be cut and punched without deformation, especially suitable for metal shell structure parts of 3C electronic industry, digital product shell after stamping molding products, small steel sheet of tire mold, metal glasses frame, glasses legs and so on.

## 设备特点及优势 / Equipment Features and advantages

- 精巧的谐振腔设计, 并采用国际一线品牌的激光器件, 使1064nm主动调Q激光器性能更加稳定, 多参数调节, 满足多种加工应用。整机设备调试方便, 基本免维护, 无耗材! 打标各种漆面产品透光率好, 边缘整齐。
- Exquisite resonant cavity design, and the use of international first-line brand laser device, the 1064nm active Q-switched laser performance is more stable, multi-parameter adjustment, meet a variety of processing applications. Machine equipment debugging is convenient, basic maintenance-free, no consumables! Marking all kinds of paint products good light transmittance, neat edge.

## 系统技术参数 / Performance Parameters

设备名称(Equipment name)	端泵激光打标机(End pump laser marking machine)
型号 (Model)	LYLASER DB-12W/15W/20W
激光波长 (Wavelength)	1064nm ±1nm
脉冲宽度 (The pulse width)	≤20ns@20kHz
重复频率 (Repetition frequency)	1-500kHz
打标深度 (The depth of the marking)	≤0.3mm(视材料而定)(Depends on material)
光束质量 (Beam quality)	M2 < 1.3
标记速度 (Marking speed)	≤ 12000mm/s
光斑直径 (Spot diameter)	0.02mm
打标范围 (Marking area)	70mmx70mm-300mmx300mm
最小线宽 (Minimum marking width)	≥0.01mm
最小字符 (Minimum char actar)	≥0.15mm
重复精度 (Repeatability)	±0.03mm
冷却方式 (Cooling mode)	风冷 (Air cooling)
系统运行环境 (System operation environment)	Win XP/Win 7
电力需求 (Power requirement)	220V/20A/50Hz
脉冲宽度 (The pulse width)	≤20ns@20KHZ
整机功率 (Power)	800-1500 W
外形尺寸 (长 x 宽 x 高) (Dimensions length x width x height)	650mmx850mmx1500mm
整机重量 (The weight)	约 (About) 100KG
软件功能 (Software functions)	支持编辑任意曲线文本, 图形绘制, 中英文数字文字输入功能, 一维码二维码生成功能, 矢量文件/位图文件/变量文件, 多国语言支持, 可配合旋转打标功能, 飞行打标, 软件二次开发等 Support editing any curve text, graph drawing, Chinese and English digital text input function, one-dimensional code two-dimensional code generation function, vector files(bitmap files/variable files, multi-language support, can cooperate with rotation marking function, flight marking, software secondary development, etc)



# 玻璃管激光打标机

BCO2-100W/150W

应用范围广  成本低



产品案例 Product Case



适用行业及材料 Applicable Industries and materials

- 瑜伽砖, 皮革, 木头, 牛仔布, 纸张, 鞋材, 亚克力, 竹木, 塑胶, 礼盒, 纽扣, 瑜伽垫, 包装盒等大部分非金属材料。
- Yoga brick, leather, wood, denim, paper, shoe material, acrylic, bamboo, plastic, gift box, buttons, yoga mat, packaging box and most of the non-metallic materials.

设备特点及优势 Equipment Features and advantages

- 采用国内外著名品牌的CO2气体激光管、扩束聚焦光学系统, 性能稳定, 长寿命, 免维护。  
采用高速数字扫描头, 体积小, 速度快, 稳定性好。  
激光功率由软件控制, 连续可调, 可在一个产品上同时实现打标和切割。  
打标效果清晰, 不易磨损, 可随时变化打标图案, 操作简单, 更实用。
- Adopt CO2 gas laser tube of famous brand at home and abroad, expanding beam focusing optical system, stable performance, long life, maintenance free.  
High speed digital scanning head, small size, fast speed, good stability.  
The laser power is controlled by software and can be adjusted continuously to realize marking and cutting simultaneously on one product.  
Marking effect is clear, not easy to wear, can change the marking pattern at any time, simple operation, more practical.

系统技术参数 Performance Parameters

设备名称(Equipment name)	玻璃管二氧化碳激光打标机(Glass tube carbon dioxide laser marking machine)
型号 (Model)	LYLASER- BCO2/100W/150W
激光波长 (Wavelength)	10.6um
激光功率 (Laser power)	100W-150W
功率稳定性 (Power stability)	±5%
打标范围 (Marking area)	70mm*70mm-300mm*300mm
打标深度 (The depth of the marking)	≤1mm ( 具体视材料而定 ) (Depending on the material)
重复频率 (Repetition frequency )	10-100KHZ
标记速度 (Marking speed)	≤10000mm/s
重复精度 (Repeatability)	±0.03mm
最小线宽 (Minimum marking width)	≥0.15mm
最小字符 (Minimum char actar)	≥0.8mm
功率调节范围 (Power range)	1-100%
冷却方式 (Cooling mode)	水冷
电力需求 (Power requirement)	AC220V 50HZ /60HZ
整机功率 (Power)	800W-1500W
工作环境 (The work environment)	温度 : 0-40°C , 湿度 : 10%-90% 不结露
外形尺寸 (长 x 宽 x 高 ) (Dimensions length x width x height)	2200mm*700mm*1400mm
整机重量 (The weight)	220KG



# 动态聚焦大范围打标机

CO<sub>2</sub>D-60W/80W/100W/150W/300W

皮革布料  切割打标均匀



## 产品案例

### Product Case



## 适用行业及材料

### Applicable Industries and materials

- 服装辅料、橡胶制品、医药包装、建筑陶瓷、饮料包装、织物切割、外壳铭牌、电子元件器工艺礼品、皮革、木板、竹制品、有机玻璃、瓷砖、塑料、玉石、水晶、布料等非金属材料。
- Garment accessories, rubber products, pharmaceutical packaging, architectural ceramics, beverage packaging, fabric cutting, shell nameplate, electronic components craft gifts, leather, wood, bamboo products, plexiglass, ceramic tile, plastic, jade, crystal, cloth and other non-metallic materials.

## 设备特点及优势

### Equipment Features and advantages

- 该机型针对大幅面打标精心设计, 可采用原装美国和德国进口 CO<sub>2</sub> 金属射频激光器, 速度快、光斑质量好、功率稳定、寿命长, 美国先进的数字扫描头及三维动态聚焦系统的配合在公司专业软件控制系统下将激光应用优势发挥到极致。
- The models for large-format marking elaborate design, can use original American and German import metal rf CO<sub>2</sub> laser, and fast speed, good quality of light, power stability, long service life, the head of advanced digital scanning and 3 d dynamic focusing system cooperate with professional software control system in the company will be laser application advantages to the limit.

## 系统技术参数

### Performance Parameters

设备名称(Equipment name)	动态聚焦大范围打标机(Dynamic focus wide range marking machine)
设备型号 (Equipment model)	LYLASER CO <sub>2</sub> D-60W/80W/100W/150W/300W
激光波长 (Wavelength)	9.3/10.2/10.6um
激光功率 (Average Power)	60W/80W/100W/150W/300W
脉冲频率 (Pulse Frequency)	1-130KHZ
光束质量 (Beam quality)	< 2.0
打标范围 (Marking Area)	600mm X600mm/800mmX 800mm(可选配其他)
最大打标线速 (Max. Linear Speed)	5000m m/s
动态轴响应时间 (Dynamic Axial Response Time)	<4ms
最小字符 (Min. Character)	1mm
重复精度 (Repeat Accuracy)	±0.02mm
打标深度 (The depth of the marking)	≤5mm(具体看机型) (specific see models)
冷却方式 (Cooling System)	风冷/水冷(Air cooling/water cooling)
平均功耗 (Average Power Consumption)	≤ 4.5KW (看具体功率)
电力需求 (Power Voltage)	AC220V 30A 50Hz ( 60Hz )
支持格式 (Supported Format)	BMP,JPG , PNG , TIF , PCX , TAG , IOO , GIF , PLT
电力要求 (The power requirements)	AC220V 50HZ/60HZ
工作湿度 (Working Humidity)	45%-75%
工作温度 (Environment Temperature)	10℃ -30℃
设备尺寸 (Equipment size)	1100*8500*1700mm
整机重量 (The weight)	约 ( About ) 300KG



# 大幅面激光打标机

GQD-20W/30W/50W/60W/80W/100W

一次性打标  效果均匀一致



## 产品案例

## Product Case



## 适用行业及材料 / Applicable Industries and materials

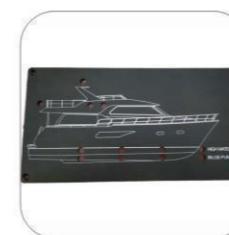
- 化妆品灯光镜子，浴室智能镜子，电梯不锈钢门，电梯不锈钢面板，大幅面模具产品，镜面不锈钢，刻字膜，五金工具，高分子膜，岩板等。
- Cosmetics lighting mirror, bathroom intelligent mirror, elevator stainless steel door, elevator stainless steel panel, large surface mold products, mirror stainless steel, lettering film, hardware tools, polymer film, rock plate and so on.

## 设备特点及优势 / Equipment Features and advantages

- 采用超大光学聚焦系统，聚焦光斑比普通小40%，能量提升一倍，从而实现大幅面工件材料的打标加工，不同于传统2D设备通过散焦进行调整，它不会产生坐标偏位或字符大小变化等问题。可使用任意大小的光斑来做出或粗或细、或深或浅的打标效果，能保证打标质量均匀性，整体幅面一致性，整机设备基本无耗材，免维护。
- The ultra-large optical focusing system is adopted, the focus spot is 40% smaller than ordinary, and the energy is doubled, so as to realize the marking processing of large-area workpiece materials. Different from the traditional 2D equipment, it will not produce coordinate deviation or character size changes and other problems. Can use any size of light spot to make or coarse or fine, or deep or shallow marking effect, can ensure the quality uniformity of marking, the overall width consistency, the machine equipment basically without consumables, free maintenance.

## 系统技术参数 / Performance Parameters

设备名称 (Equipment name)	大幅面激光打标机 (Large format laser marking machine)
设备型号 (Equipment model)	LYLASER GQD-20W/30W/50W/60W/80W/100W
激光波长 (Wavelength)	1064um
激光功率 (Average Power)	20W/30W/50W/60W/80W/100W
脉冲频率 (Pulse Frequency)	1-130KHZ
打标范围 (Marking Area)	600mm X600mm/800mmX 800mm(可选配其他 )
最大打标线速 (Max. Linear Speed)	7000m/s
动态轴响应时间 (Dynamic Axial Response Time)	<4ms
最小字符 (Min. Character)	0.5mm
重复精度 (Repeat Accuracy)	±0.02mm
冷却方式 (Cooling System)	风冷 ir cooling
平均功耗 (Average Power Consumption)	≤ 2KW (看具体功率 )
电力需求 (Power Voltage)	AC220V 20A 50Hz ( 60Hz )
支持格式 (Supported Format)	BMP, JPG, PNG, TIF, PCX, TAG, IOO, GIF, PLT
工作湿度 (Working Humidity)	15%-85%
工作温度 (Environment Temperature)	1°C -40°C
设备尺寸 (Equipment size)	1100*900*1700mm
整机重量 (The weight)	约 (About) 300KG



# 紫外激光喷码机

FX/UV-3W/5W/10W/15W/20W/25W

冷光源  打码效果更精细



## 产品案例

## Product Case



## 适用行业及材料 Applicable Industries and materials

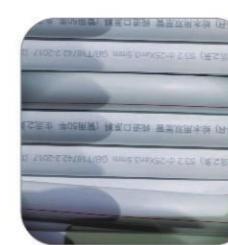
- 塑胶塑料产品，电子元器件，食品饮品药品包装，酒水饮品日化包装，电线电缆，管材管道，五金制品，航空电子，汽车配件，医疗器械，珠宝首饰，通讯设备等行业的绝大部分金属和非金属材质产品。
- Plastic plastic products, electronic components, food, drinks, drug packaging, daily chemical packaging, wire and cable, pipes and pipes, hardware products, avionics, auto parts, medical equipment, jewelry, communication equipment and other industries most of the metal and non-metal material products.

## 设备特点及优势 Equipment Features and advantages

- 该款设备采用短波长优质紫外激光器，聚焦光斑小，窄脉冲宽度的激光与加工材料作用时间短，热影响效应小，打标效果更美观，更适应于特殊材质产品的精细打标。配备专业工业级激光器，确保24小时连续稳定加工，能轻松适合生产线批量生产，整机结构灵活，专业支架可方便地安装在流水线上，并能轻松进行前后上下调整，即使是工况复杂的流水线也能应对自如。
- The equipment uses short wavelength high quality UV laser, focusing light spot small, narrow pulse width laser and processing material action time is short, the thermal effect is small, the marking effect is more beautiful, more suitable for special material products of fine marking. Equipped with professional industrial laser, ensure 24 hours continuous and stable processing, can easily fit the production line for mass production, the machine structure is flexible, professional support can be easily installed on the assembly line, and can easily adjust before and after the assembly line, even if the working condition is complex can also cope with it.

## 系统技术参数 Performance Parameters

设备名称(Equipment name)	紫外激光喷码机(Ultraviolet laser printer)
设备型号 (Equipment model)	LYLASER FX/UV-3W/5W/10W/15W/20W/25W
波长 (The wavelength)	355nm
激光功率 (Laser power)	3W-25W ( 可选配 ) (Optional)
喷码速度 (Printing speed)	15000mm/s ( 可根据要求选配 ) (Optional upon request)
喷码范围 (The code range)	( 70mm*70mm ) - ( 300mm*300mm ) ( 可选配 ) (Optional)
喷印行数 (Spray publishing several)	不受限制There is no limit on the
字符高度 (The character height)	> 0.3mm
字体 (The font)	50多种字体More than 50 fonts
界面语言 (Interface language)	支持 ( 中文/英文/俄语/韩文/日语/阿拉伯语/西班牙语/波斯语 ) Support (Chinese/English/Russian/Korean/Japanese/Arabic/Spanish/Farsi)
输入法 (The input method)	中文/英文/俄语/韩文/日语/阿拉伯语/西班牙语/波斯语 ( 可选 ) Chinese/English/Russian/Korean/Japanese/Arabic/Spanish/Farsi (optional)
操作系统 (The input method)	LINUX
冷却方式 (Cooling way)	风冷/水冷 ( 可选配 ) Air/water cooling (optional)
电力需求 (Demand for electricity)	AC220V 50HZ /60HZ
环境需求 (Environmental requirements)	温度 : 15-35°C , 湿度 : 10%-80% 不结露 Temperature:15-35°C, humidity: 10%-80% no condensation
设备尺寸 (The equipment size)	约450mm*550mm*1600mm
整机功耗 (The machine power consumption)	1000w(激光器功率不同 , 功耗不同 ) (Different laser power, different power consumption)
整机重量 (The weight)	约70KG

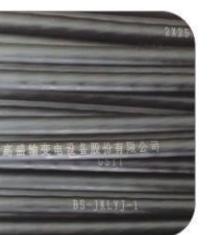


# 光纤激光喷码机

FX-20W/30W/50W/80W/100W

动态打码 高效生产


## 产品案例



## 适用行业及材料

Applicable Industries and materials

- 食品包装, 饮品包装, 医疗包装, 酒水饮品包装, 日化包装, 电线电缆, 管材管道, 五金制品, 航空电子, 汽车配件, 医疗器械, 珠宝首饰, 通讯设备等行业, 适用于: 所有金属材质的产品以及大部分的非金属材质产品。
- Food packaging, beverage packaging, medical packaging, beverage packaging, daily chemical packaging, wire and cable, pipe pipe, hardware products, avionics, auto parts, medical equipment, jewelry, communication equipment and other industries, suitable for: all metal products and most of the non-metal products.

## 设备特点及优势

Equipment Features and advantages

- 解决了传统油墨的字体漏点, 脱色, 字体模糊, 喷头堵塞和油墨污染等问题; 无需耗材即可使商品拥有清晰易读, 可防伪, 打标可靠和永不脱落的标码; 激光喷码不会因触摸, 酸碱性气体, 高温低温, 空气湿度等外在环境影响而褪色, 具有永久性和防伪性, 能够从源头解决产品包装日期的篡改问题; 整个加工过程采用计算机软件系统进行控制, 可靠性高, 操作便捷, 标记的图案以及产品信息只需要通过软件进行编辑, 如: 文字, 图案, 字符, 线条, 条形码, 二维码, 英文等等就可以将信息精准的打码在产品上面; 可自由搭配提高产能, 根据产品可配套流水线/分页机/振动盘等实现自动打码。
- Solve the traditional ink font leakage, decolorization, font blur, nozzle blockage and ink pollution and other problems. Without consumables, the product has a clear and easy to read, anti-counterfeiting, reliable marking and never falling off the marking code. Laser jet coding will not fade due to touch, acid and alkali gas, high temperature and low temperature, air humidity and other external environmental effects, with permanent and anti-counterfeiting, can solve the tampering problem of product packaging date from the source. The whole processing process is controlled by computer software system, with high reliability and convenient operation. The marked pattern and product information only need to be edited by software, such as: text, pattern, character, line, bar code, two-dimensional code, English and so on. The information can be accurately coded in the product. Can be freely matched to improve productivity, according to the product can support assembly line/paging machine/vibration plate to achieve automatic coding.

## 系统技术参数

Performance Parameters

设备名称(Equipment name)	光纤激光喷码机(Fiber laser coding machine)
设备型号 (Equipment model)	LYLASER FX-20W/30W/50W/80W/100W
波长 (The wavelength)	1064nm
激光功率 (Laser power)	20W-100W ( 可选配 ) (Optional)
喷码速度 (Printing speed)	15000mm/s ( 可根据要求选配 ) (Optional upon request)
喷码范围 (The code range)	( 70mm*70mm ) - ( 300mm*300mm ) ( 可选配 ) (Optional)
喷印行数 (Spray publishing several)	不受限制There is no limit on the
字符高度 (The character height)	> 0.4
字体 (The font)	50多种字体More than 50 fonts
界面语言 (Interface language)	支持 ( 中文/英文/俄语/韩文/日语/阿拉伯语/西班牙语/波斯语 ) Support (Chinese/English/Russian/Korean/Japanese/Arabic/Spanish/Farsi)
输入法 (The input method)	中文/英文/俄语/韩文/日语/阿拉伯语/西班牙语/波斯语 ( 可选 ) Chinese/English/Russian/Korean/Arabic/Spanish/Farsi (optional)
操作系统 (The input method)	LINUX
冷却方式 (Cooling way)	风冷Air cooling
电力需求 (Demand for electricity)	AC220V 50HZ /60HZ
环境需求 (Environmental requirements)	温度 : 0-40°C , 湿度 : 10%-90% 不结露 Temperature: 0-40°C, humidity: 10%-90% no condensation
设备尺寸 (The equipment size)	约450mm*550mm*1600mm
整机功耗 (The machine power consumption)	1000w(激光器功率不同, 功耗不同) (Different laser power, different power consumption)
整机重量 (The weight)	约50KG

# CO<sub>2</sub> 激光喷码机

FXCO<sub>2</sub>-30W/60W/80W

自动动态打码  适合各种生产线



## 产品案例



## 适用行业及材料 / Applicable Industries and materials

- 各种大部分非金属材料，如纸质，PVC，橡胶，木材，玻璃，陶瓷，塑料，PET,HDPE，皮革等，广泛应用于包装盒，包装袋，薄膜，食品罐，玻璃瓶，饮料瓶，HDPE瓶，管材，线缆和电子元器件等行业。
- All kinds of most non-metallic materials, such as paper, PVC, rubber, wood, glass, ceramic, plastic, PET, HDPE, leather, etc., are widely used in packaging boxes, bags, films, food cans, glass bottles, beverage bottles, HDPE bottles, pipes, cables and electronic components and other industries.

## 设备特点及优势 / Equipment Features and advantages

- 采用金属射频二氧化碳激光器以及优质的光学器件，光学模式好，系统稳定可靠，光学封装严密，免维护，安装方式灵活，安装位置调节方便，适合多种工况场合下使用。
- The use of metal radio frequency carbon dioxide laser and high quality optical devices, good optical mode, stable and reliable system, tight optical packaging, maintenance free, flexible installation mode, easy to adjust the installation position, suitable for a variety of working conditions.

## 系统技术参数 / Performance Parameters

设备名称(Equipment name)	CO <sub>2</sub> 激光喷码机(CO <sub>2</sub> laser printer)
设备型号 (Equipment model)	LYLASER FXCO <sub>2</sub> -30W/60W/80W
波长 (The wavelength)	9.3um/10.6um/10.2um(可选配 ) (Optional)
激光功率 (Laser power)	30W-80W ( 可选配 ) (Optional)
喷码速度 (Printing speed)	15000mm/s ( 可根据要求选配 ) (Optional upon request)
喷码范围 (The code range)	( 70mm*70mm ) - ( 300mm*300mm ) ( 可选配 ) (Optional)
喷印行数 (Spray publishing several)	不受限制There is no limit on the
字符高度 (The character height)	> 1mm
字体 (The font)	50多种字体More than 50 fonts
界面语言 (Interface language)	支持 ( 中文/英文/俄语/韩文/日语/阿拉伯语/西班牙语/波斯语 ) Support (Chinese/English/Russian/Korean/Japanese/Arabic/Spanish/Farsi)
输入法 (The input method)	中文/英文/俄语/韩文/日语/阿拉伯语/西班牙语/波斯语 ( 可选 ) Chinese/English/Russian/Korean/Japanese/Arabic/Spanish/Farsi (optional)
操作系统 (The input method)	LINUX
冷却方式 (Cooling way)	风冷/水冷 ( 可选配 ) Air/water cooling (optional)
电力需求 (Demand for electricity)	AC220V 50HZ /60HZ
环境需求 (Environmental requirement <sup>s</sup> )	温度 : 0-40°C , 湿度 : 10%-90% 不结露 Temperature: 0-40°C, humidity: 10%-90% no condensation
设备尺寸 (The equipment size)	约450mm*550mm*1600mm
整机功耗 (The machine power consumption)	1000w(激光器功率不同，功耗不同 ) (Different laser power, different power consumption)
整机重量 (The weight)	约70KG



# 精密激光切割机

QGJ-6060

切缝小精度高  无机械变形



## 产品案例

## Product Case



## 适用行业及材料

## Applicable Industries and materials

- 钢板, 不锈钢板, 碳钢, 铝合金, 硬质合金等任何硬度的金属材料进行无变形切割打孔等, 尤其适合3C 电子行业的金属薄壳结构件, 数码产品壳体冲压成型后的产物, 轮胎模具的小钢片, 金属眼镜框, 眼镜腿等。
- Steel plate, stainless steel plate, carbon steel, aluminum alloy, hard alloy and other metal materials of any hardness can be cut and punched without deformation, especially suitable for metal shell structure parts of 3C electronic industry, digital product shell after stamping molding products, small steel sheet of tire mold, metal glasses frame, glasses legs and so on.

## 设备特点及优势

## Equipment Features and advantages

- 本机采用大理石精密平台, 龙门双驱一体式封闭结构, 具有良好的刚性, 防震性和高速稳定性。配合进口伺服电机或直线电机, 高精度研磨丝杆和CNC数控系统, 速度快, 精度高, 维护率低。特制光纤激光器和精密专用切割头, 保证切缝小, 精度高, 切割面光滑无毛刺。非接触式加工, 热影响小, 工件局部变形极小, 无机械变形。配备专业激光切割自动编程软件, 具有人工或自动排版套料功能。电容传感式切割头, 不受材料平整度影响, 可随材料高低不平自动调整切割高度达到最佳的切割效果。
- This machine adopts marble precision platform, gantry double drive integrated closed structure, with good rigidity, shock resistance and high speed stability. With imported servo motor or linear motor, high precision grinding screw and CNC system, fast speed, high precision, low maintenance rate. Special fiber laser and precision cutting head, to ensure small slit, high precision, smooth cutting surface without burrs. Non-contact processing, small thermal impact, minimal local deformation of workpiece, no mechanical deformation. Equipped with professional laser cutting automatic programming software, with manual or automatic nesting function. Capacitive sensing cutting head, not affected by the flatness of the material, can automatically adjust the cutting height with the uneven material to achieve the best cutting effect.

## 系统技术参数

## Performance Parameters

设备名称(Equipment name)	精密激光切割机(ecision laser cutting machine)
设备型号 (Device model)	LYLASER QGJ-6060
激光功率 (Laser power)	1000W/1500W/2000W/3000W
激光波长 (Laserwavelength)	1080±5nm
切割范围 (Cutting range)	600*600mm
切割缝宽 (Cutting seam width)	最大 0.15mm( 视功率和材料而定 ) ( Maximum 0.15mm depending on power and material )
切割厚度 (Cutting thickness)	最大 5mm 不锈钢 ( Up to 5mm stainless steel )
切割速度 (Cutting speed)	最大 500mm/s ( Max 500mm/s )
机床精度 (Machine accuracy)	±0.03mm
供气条件 (Air supply conditions)	小于 1.5Mpa ≤ C ≤ 2.5M ( PaLess than 1.5Mpa ≤ C ≤ 2.5Mpa )
最大功耗 (Maximum power consumption)	≤ 14KW( 根据选配功率 ) ( ≤ 14KW according to optional power )
供电 (Powered by)	220V 或 380V ( 根据功率 ) ( 220V or 380V according to power )
使用环境 (Use environment)	室温低于 35°C , 干燥环境无水油污粉尘, 通风 ( Room temperature is lower than 35°C , dry environment without water, oil, dust, ventilation )
兼容文件 ( Compatible files )	CAD 或 CorelDRAW 输出 DXF 格式文件 ( CAD or CorelDRAW output DXF format file )
整机重量 ( TotalWeight )	3050mm*1600mm*1800mm
外形尺寸 ( Dimensions )	约 1600kg ( About 1600kg )



# 绿光激光钻孔机

YP-30W/60W

加工速度快  切割崩边小



## 产品案例



## 适用行业及材料

Applicable Industries and materials

- 光电、平面显示、手机、半导体、医疗、家电、太阳能、建筑、汽车等行业中各种玻璃的钻孔和切割。
- Drilling and cutting of all kinds of glass in photoelectric, flat display, mobile phone, semiconductor, medical, household appliances, solar energy, construction, automobile and other industries.

## 设备特点及优势

Equipment Features and advantages

- 采用国内外品牌激光器，配合3D动态聚焦振镜扫描系统，加工速度快，切割崩边小。智能CCD视觉系统，实现自动防呆识别、精密定位校准，设备CCD可用于视觉检测，玻璃激光加工系统控制核心，激光切割系统构筑在Windows 7平台上，性能卓越稳定，使用操作简便，并可根据客户的需求，升级程序。可以加工各类通孔、盲孔 方孔、阵列孔等，直接编辑或导入切割程序，自动记数功能，随意设置切割数量及统计所切割产品总数。
- Using domestic and foreign brand laser, with 3D dynamic focused galvanometer scanning system, fast processing speed, small cutting edge collapse. Intelligent CCD vision system, automatic anti-stay identification, precision positioning calibration, equipment CCD can be used for visual detection, glass laser processing system control core, laser cutting system built on the Windows 7 platform, excellent performance and stability, easy to operate, and according to the needs of customers, upgrade procedures. Can process all kinds of through hole, blind hole square hole, array hole, etc., directly edit or import cutting program, automatic counting function, optional setting cutting quantity and statistics of the total number of products cut.

## 系统技术参数

Performance Parameters

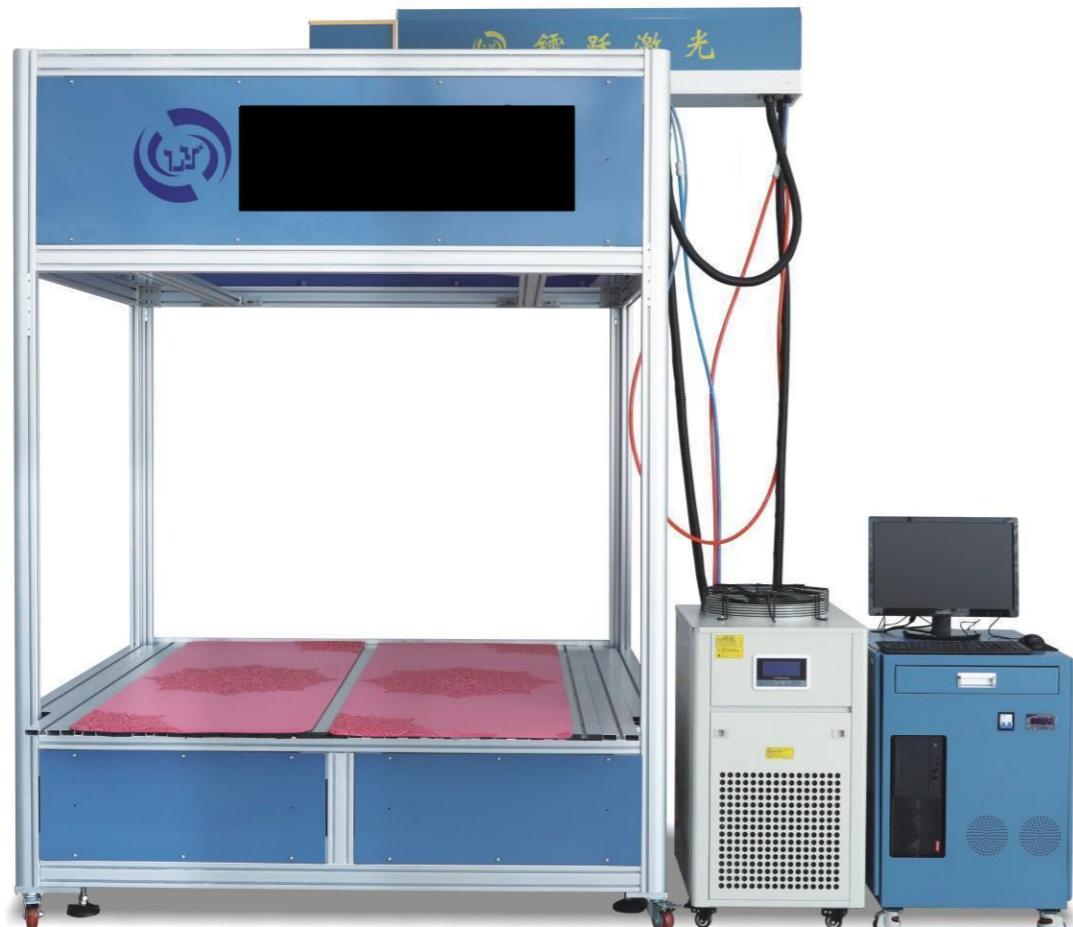
设备名称(Equipment name)	绿光激光钻孔机(Green laser drilling machine)
型号 (Model)	LYLASER YP-30W/60W
激光波长 (Wavelength)	532nm
平均功率 (Average power)	30W@100KHz
加工定位方式 (Machining positioning mode)	CCD定位
单脉冲能量 (Single pulse energy)	> 0.2mJ
重复频率 (Repetition frequency)	70Hz~150kHz
脉冲宽度 (The pulse width)	<8ns
功率稳定性 (Power stability)	< 1%
切割范围 (Cutting range)	50mm(可选配) (Optional)
切割精度 (Cutting precision)	±0.02mm
最小钻孔孔径 (Minimum hole diameter)	0.1mm
切割厚度 (The thickness of the cutting)	10mm
定位精度 (Positioning accuracy)	±10um
环境要求 (Environmental requirements)	温度10°C ~ 30°C 湿度10% ~ 80% ( 无结露 ) Temperature 10°C ~ 30°C Humidity 10% ~ 80% (no condensation)
设备功耗 (The power consumption of the device)	< 5KW
电力需求 (Demand for electricity)	220V/20A/50Hz
冷却方式 (Cooling way)	水冷 ( Water cooled )
设备尺寸 (The equipment size)	约2500mm*2000mm*1500mm
整机重量(The weight)	约 ( About ) 2000KG



# 双工位瑜伽垫高速激光机

YD-150W

复杂图案打标  大范围一次性打标



## 产品案例



## 适用行业及材料

Applicable Industries and materials

- 专为瑜伽垫行业设计定制的高速激光机，适用于：TPE,PU,EVA等各种瑜伽垫地垫打标体位线图案，商标图案，R标图案等,超大打标范围，可一次性打标1.8米或者2米均可，大大的提高生产效率。
- Specially designed for the yoga mat industry custom high speed laser machine, suitable for: TPE,PU,EVA and other yoga mat mat marking position line pattern, trademark pattern, R label pattern, large marking range, one-time marking 1.8 meters or 2 meters can greatly improve production efficiency.

## 设备特点及优势

Equipment Features and advantages

- 可一次性打标2张瑜伽垫，设备无停顿时间，可持续打标工作。  
激光头固定模式，通过镜片摆动实现大范围一次性打标，速度比普通慢速雕刻机快5-10倍。整机操作简单，既能满足日常常规体位线的打标，也能满足其他定制类复杂图案的打标。  
整机基本免维护，不需要定期更换零配件，更省心省事。  
机架部分采用欧标铝型材，更结实牢固，台面高度更符合人体学，适合操作人员的长期工作。机架部分可根据要求定制化生产，满足更多客户的不同需求。
- Can mark 2 yoga MATS at one time, the equipment has no pause time, sustainable marking work.  
Laser head fixed mode, through the lens swing to achieve a large range of one-time marking, the speed is 5-10 times faster than ordinary slow engraving machine. The machine has simple operation, which can meet the marking of routine body position line and other customized complex patterns.  
The machine is basically maintenance-free and does not require regular replacement of spare parts.  
Part of the frame adopts European standard aluminum profile, which is more solid and firm, and the height of the table is more consistent with human body science, which is suitable for the long-term work of operators. The rack part can be customized to meet the different needs of more customers..

## 系统技术参数

Performance Parameters

设备名称(Equipment name)	双工位瑜伽垫高速激光机(Dual position yoga mat high speed laser machine)
设备型号 (Equipment model)	LYLASER -YD-150W
激光波长 (The laser wavelength)	10600um
激光功率 (Laser power)	150W (也可根据要求选配其他) (Others can also be selected as required)
最大速度 (Maximum speed)	10000mm/s
打标范围 (X轴 Y轴) (Marking range (X-axis and Y-axis))	1800mm*1800mm或者2000mm*2000mm (也可根据要求选配其他) (Others can also be selected as required)
最大空走速度 (Maximum emptying speed)	10000mm/s
定位精度 (Positioning accuracy)	±0.05mm
机台尺寸 (The machine size)	约: 2000mm*2100mm*2800mm
冷却方式 (Cooling way)	水冷(Water cooled)
电源需求 (The power demand)	AC220V,50Hz±10%
工作环境 (The work environment)	温度0-45°C, 湿度: 10%-90%, 不结露
整机功率 (The engine power)	3KW
整机重量 (The weight)	约 (About) 1500KG



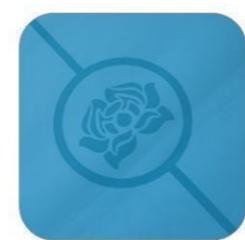
# 精密型瑜伽垫高速激光机

DZCO<sub>2</sub>/150W

线条更精细  满足更高要求的产品



## 产品案例



## 适用行业及材料

Applicable Industries and materials

- 专为瑜伽垫行业设计定制的高品质高速激光机，适用于：TPE,PU,EVA等各种瑜伽垫,地垫打标体位线图案，商标图案，R标图案等，满足于一些对速度和效果都高要求的客户。
- Specially designed for the yoga mat industry custom high quality high speed laser machine, suitable for: TPE,PU,EVA and other yoga mat mat marking position line pattern, trademark pattern, R label pattern, etc., to meet some of the speed and effect are high requirements of the customer.

## 设备特点及优势

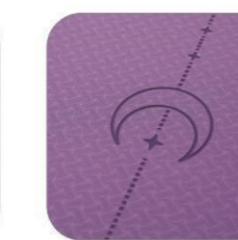
Equipment Features and advantages

- 线条更精细，比常规高速激光机光斑细30%以上，效果跟慢速雕刻机的效果基本一致。  
更快的打标速度，是普通慢速雕刻机的5倍以上。  
打标效果更好的均匀性，整个打标面一致性良好。  
光斑小，光束质量高，整体打标效果热效应小，基本无缩边。  
整机操作更简单，采用金属射频管激光器，基本免维护，可提供延迟质保时间。  
定制款一体式高稳定性机架，一体式含电源设计，整机更实用方便，不占地方。  
激光器光路电动升降，工作台面更符合人体工学设计，更稳定方便操作。
- The lines are more fine, more than 30% finer than the conventional high speed laser spot, the effect is basically the same as the effect of slow engraving machine.  
Faster marking speed, is more than 5 times the ordinary slow engraving machine.  
Marking effect better uniformity, the whole marking surface consistency is good.  
Small spot, high beam quality, overall marking effect, small thermal effect, basically no shrinkage edge.  
The whole machine is easier to operate, using metal radio frequency tube laser, basic maintenance free, can provide delayed warranty time.  
Customized integrated high stability frame, integrated with power design, the whole machine is more practical and convenient, does not occupy space.  
Laser light circuit electric lifting, work table is more ergonomic design, more stable and convenient operation.

## 系统技术参数

Performance Parameters

设备名称(Equipment name)	精密型瑜伽垫高速激光机(Precision yoga mat high speed laser machine)
设备型号 (Equipment model)	LYLASER - DZCO <sub>2</sub> /150W
激光波长 (The laser wavelength)	10600um
激光功率 (Laser power)	150W ( 也可根据要求选配其他 ) (Others can also be selected as required)
最大速度 (Maximum speed)	5000mm/s
打标范围 ( X轴 Y轴 ) (Marking range (X-axis and Y-axis))	650mm*2000mm或者850mm*2000mm ( 也可根据要求选配其他 ) (Others can also be selected as required)
最大空走速度 (Maximum emptying speed)	10000mm/s
定位精度 (Positioning accuracy)	±0.03mm
机台尺寸 (The machine size)	约: 2600mm*1800mm*1900mm
冷却方式 (Cooling way)	水冷(Water cooled)
电源需求 (The power demand)	AC220V,50Hz±10%
工作环境 (The work environment)	温度0-45°C , 湿度 : 10%-90% , 不结露
整机功率 (The engine power)	3KW
整机重量 (The weight)	约 ( About ) 1500KG





**光纤视觉激光打标机**  
Optical fiber vision laser marking machine



**XY平台视觉激光打标机**  
XY platform vision laser marking machine



**CO<sub>2</sub>自动化激光打标机**  
CO<sub>2</sub> automatic laser marking machine



**光纤自动化激光打标机**  
Optical fiber automatic laser marking machine



**小型激光打标机**  
Small laser marking machine



**手持式激光打标机**  
Hand-held laser marking machine



卷对卷自动激光打标机  
Roll to roll automatic laser marking machine



振镜激光点焊机  
Galvanometer laser spot welding machine



双头 3D 激光打标机  
Double head 3D laser marking machine



XY平台激光打标机  
XY platform laser marking machine



大幅面光纤连续激光焊接机

Large format optical fiber continuous laser welding machine



边框光纤连续激光焊接机

Frame fiber continuous laser welding machine



双头激光点焊机

Double head laser spot welder



四轴联动激光焊接机

Four-axis linkage laser welding machine