



一站式激光解决方案提供商

One-stop Laser Solution Provider

佛山市艾瑞利机电设备有限公司

Foshan Arl Mechanical & Electrical Equipment Co., Ltd.

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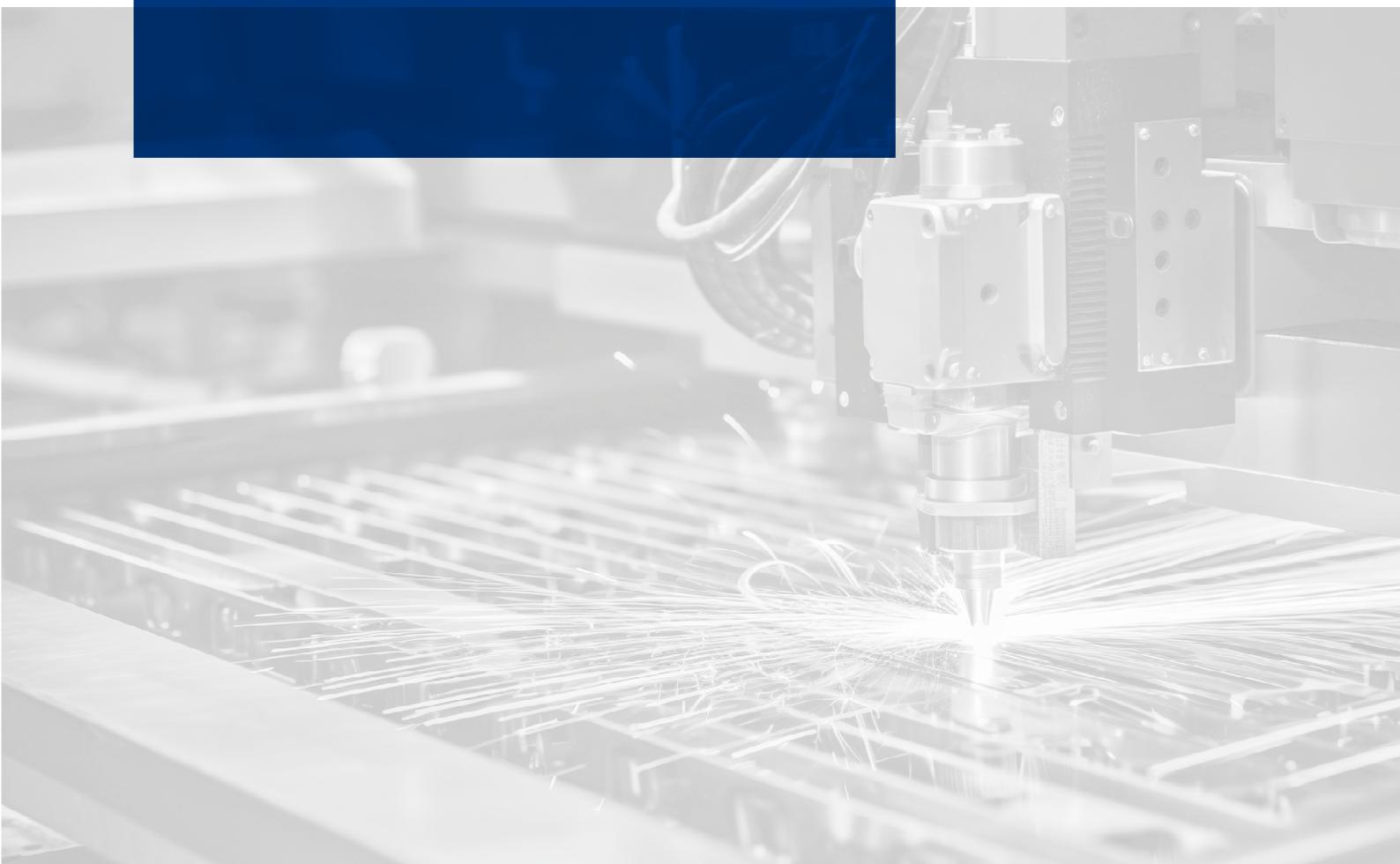
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PROFESSIONAL SOLUTIONS FOR

METAL LASER CUTTING AND WELDING EQUIPMENT

金属激光切割焊接设备

专业解决方案



佛山市艾瑞利机电设备有限公司
Foshan Arl Mechanical & Electrical Equipment Co., Ltd.



COMPANY PROFILE | 公司简介

20000⁺ m²

生产厂房
Production building

200⁺ 位

技术人员
Technical personnel

200⁺ 台

专业设备
Professional equipment

佛山市艾瑞利机电设备有限公司是一家集设计、制造、销售于一体专业从事金属管材，板材切割及焊接设备的企业，产品包括：侧挂激光切管高速机（可升级零尾料功能）、平推激光切管高速机（兼容免画图功能）、三维五轴坡口激光切管高速机（零摆坡口技术）、机器人激光焊接机、机器人激光切割机、弧焊机器人、6轴平台激光焊接机、四轴联动光纤自动激光焊接机、振镜光纤自动激光焊接机、龙门振镜光纤自动激光焊接机、精密激光切板机、手持激光焊接机。

公司自成立以来，秉承着诚信经营的理念，紧紧围绕“让切管更简单、让焊接更智能”的企业愿景，坚持以“用创新寻求可持续发展，用品质捍卫尊严”的价值观，为客户提供可靠、智能、省人工的整套全自动化金属管材切割焊接设备。风雨兼程 12 年，艾瑞利激光不仅在国内深受喜爱，在中国台湾、巴基斯坦、俄罗斯、印度、越南、印尼、泰国、墨西哥等海外市场有很大的市场份额，并在越南、印尼有较高的市场占有率，其中不锈钢焊管在线切割设备国内占有率接近 70%。未来艾瑞利激光将不断超越自我，提供品质更好、更省人工的产品，以回馈所有支持和给予帮助的客户和合作伙伴。



Foshan Arl Mechanical and Electrical Equipment Co., Ltd. is a company specializing in the design, manufacture and sales of metal pipe and sheet cutting and welding equipment. Its products include: Side-mounted laser pipe cutting high-speed machine (upgradable with zero tail material function), flat-pushing laser pipe cutting high-speed machine (compatible with no-drawing function), three-dimensional five-axis beveling laser pipe cutting high-speed machine (zero swing beveling technology), robot laser welding machine, robot laser cutting machine, arc welding robot, 6-axis platform laser welding machine, four-axis linkage fiber automatic laser welding machine, galvanometer fiber automatic laser welding machine, gantry galvanometer fiber automatic laser welding machine, precision laser plate cutting machine, handheld laser welding machine.

Since its establishment, the company has adhered to the principle of honest operation, closely centered on the corporate vision of "making pipe cutting simpler and welding smarter", and consistently upheld the values of "seeking sustainable development through innovation and defending dignity with quality", providing customers with reliable, intelligent and labor-saving complete sets of fully automated metal pipe cutting and welding equipment. After 12 years of hard work through wind and rain, Arllaser has not only been deeply loved in China, but also has a large market share in overseas markets such as Taiwan, China, Pakistan, Russia, India, Vietnam, Indonesia, Thailand, and Mexico. It has a relatively high market share in Vietnam and Indonesia. Among them, the domestic market share of stainless steel welded pipes in wire cutting equipment is close to 70%. In the future, Arllaser will constantly surpass itself, providing better quality and more labor-saving products to repay all the customers and partners who have supported and helped us.



ENTERPRISE CERTIFICATE | 企业证书

荣誉见证品质，资质彰显实力！
荣誉是社会对我们企业的认可，
也是我们一如既往地对高品质的不懈追求。

Honors testify quality, Credentials manifest power !
Honors is the recognition by society for us, and proves
our unremitting pursuit as always for high quality.



PROFESSIONAL SOLUTIONS FOR
METAL LASER CUTTING AND
WELDING EQUIPMENT
金属激光切割焊接设备
专业解决方案

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G120C-G170C-G240C
SIDE MOUNTED LASER TUBE CUTTING HIGH-SPEED MACHINE
(WITH UPGRADEABLE ZERO TAIL MATERIAL FUNCTION)
侧挂激光切管高速机 (可升级零尾料功能)



G90Z/G90K
SMALL DOUBLE CARD ULTRA HIGH SPEED MACHINE (FOR
SMALL PIPES, STRAIGHT CUTTING/CHAMFERING)
小双卡超高速机 (小管专用, 直切 / 坡口)

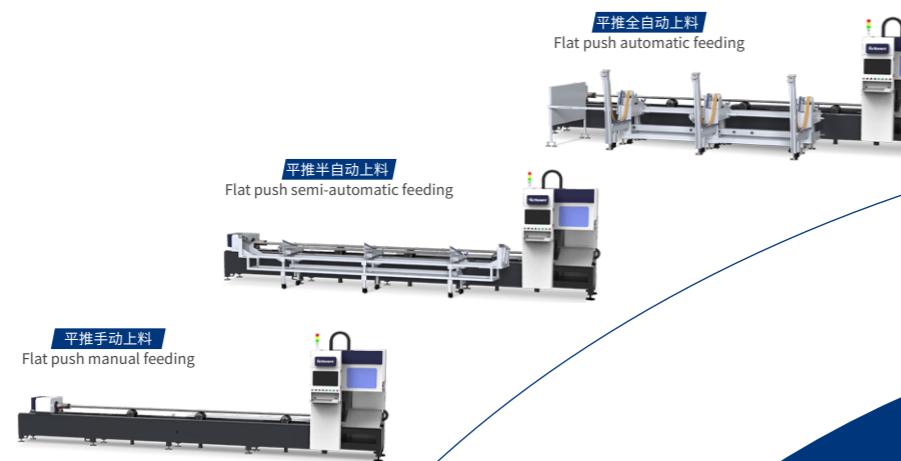
G25
CAPILLARY CLOSING TUBE MACHINE
毛细管精密闭管机



G40
CAPILLARY CLOSING TUBE MACHINE
毛细管精密闭管机



G120D-G170D-G240D
FLAT PUSH LASER TUBE CUTTING HIGH-SPEED MACHINE
(COMPATIBLE WITH NO DRAWING FUNCTION)
平推激光切管高速机 (兼容免画图功能)



平推全自动上料
Flat push automatic feeding



平推半自动上料
Flat push semi-automatic feeding



平推手动上料
Flat push manual feeding

HSF9-1500
HANDHELD LASER WELDING MACHINE
手持激光焊接机



HSF8-1500
PRECISION LASER PLATE CUTTING MACHINE
精密激光切板机



HSF7
GANTRY GALVANOMETER FIBER AUTOMATIC LASER WELDING MACHINE
龙门振镜光纤自动激光焊接机



HSF6
GALVANOMETER FIBER AUTOMATIC LASER WELDING MACHINE
振镜光纤自动激光焊接机



HSF5
FOUR-AXIS LINKAGE FIBER AUTOMATIC
LASER WELDING MACHINE
四轴联动光纤自动激光焊接机



HSF4
SIX-AXIS PLATFORM LASER WELDING MACHINE
六轴平台激光焊接机



HSF3-350
ARC WELDING ROBOT
弧焊机器人



HSF2-1500
ROBOT LASER CUTTING MACHINE
机器人激光切割机

HSF1-1500
ROBOT LASER WELDING MACHINE
机器人激光焊接机

金属激光切割焊接设备

G120D-G170D-G240D

FLAT PUSH LASER TUBE CUTTING HIGH-SPEED MACHINE
(COMPATIBLE WITH NO DRAWING FUNCTION)

平推激光切管高速机 (兼容免画图功能)



平推全自动上料
Flat push automatic feeding



平推半自动上料
Flat push semi-automatic feeding



平推手动上料
Flat push manual feeding

技术参数 / Technical parameters

型号 Model	G120D	G170D	G240D
激光器功率 (W) Laser power	1500-6000	1500-6000	1500-6000
切割管径 (mm) Cutting range	方圆 Circumference:10-120	方圆 Circumference:10-170	方圆 Circumference:10-240
重复定位精度 (mm) Repeat positioning accuracy	±0.02	±0.02	±0.02
管材加工范围 (mm) Pipe length range	≈ 6250	≈ 6250	≈ 6250
机体尺寸 (mm) Machine size	L*W*H:8856*1365*2172	L*W*H:8856*1365*2172	L*W*H:8856*1365*2172
机体 + 料架尺寸 (mm) Body + rack size	半自动 Semi-automatic (L*W*H):8856*1876*2172 全自动 Fully automatic (L*W*H):8856*2886*2172	半自动 Semi-automatic (L*W*H):8856*1876*2172 全自动 Fully automatic (L*W*H):8856*2886*2172	半自动 Semi-automatic (L*W*H):8856*1876*2172 全自动 Fully automatic (L*W*H):8856*2886*2172
机体重量 (T) Machine weight	≈ 3.5	≈ 3.5	≈ 3.5
加速度 (G) Acceleration	≈ 1.6	≈ 1.3	≈ 1.0
尾料长度 (mm) Tailings length	≈ 60	≈ 80	≈ 100

详细参数请参考相关技术方案书。
Please refer to the technical proposal for details.

金属激光切割焊接设备

G120C-G170C-G240C

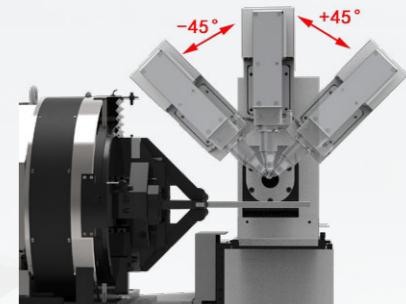
SIDE MOUNTED LASER TUBE CUTTING HIGH-SPEED MACHINE
(WITH UPGRADABLE ZERO TAIL MATERIAL FUNCTION)

侧挂激光切管高速机 (可升级零尾料功能)

全自动上料
Fully automatic feeding



半自动上料
Semi automatic feeding



可升级 k 系列坡口功能
The k series bevel function can be upgraded

手动上料
Manual feeding



优势特点 \ Advantages and characteristics

1、速度快,效率高:
加速度达到 1.6G,效率是普通切管机的 5-6 倍;
2、切割范围广、易操作:
本机可针对多种类型管材:圆管、方管、椭圆管、异型管等多工艺切割。结构稳定;电控原件采用进口配件,支持 24 小时作业。行业通用的操作系统,深度优化,响应快,极简操作。使速度、功能、稳定性完美结合;
3、零尾料零损耗零基础;
4、随动切割:
标配集成调高器,对于变形的管材轻松搞定。

1. Fast speed,high efficiency:
The acceleration reaches 1.6G, and the efficiency is 5-6 times that of the ordinary pipe cutting machine;
2. Wide cutting range,easy operation:
The machine can be used for various types of pipes:round pipe,square pipe,oval pipe,shaped pipe and other multi-process cutting.
Stable structure; the electronic control original adopts imported parts to support 24 hours operation. The industry-wide operating system with deep optimization, quick response and extremely easy operation makes a perfect combination speed, function and stability;
3. Zero tailings, zero loss, zero foundation;
4. Follow up-and-down cutting:
The equipment is equipped with a height adjuster as standard for easily handling the deformation of pipes.

技术参数 \ Technical parameters

型号 Model	G120C	G170C	G240C
激光器功率 (W) Laser power	1500-6000	1500-6000	1500-6000
切割管径 (mm) Cutting range	方圆 Circumference:10-120	方圆 Circumference:10-170	方圆 Circumference:10-240
重复定位精度 (mm) Repeat positioning accuracy	±0.02	±0.02	±0.02
管材加工范围 (mm) Pipe length range	≈ 6250	≈ 6250	≈ 6250
机体尺寸 (mm) Machine size	L*W*H:8990*1544*2311	L*W*H:8990*1544*2311	L*W*H:9079*1831*2426
机体 + 料架尺寸 (mm) Body + rack size	半自动 Semi-automatic (L*W*H):8990*2094*2311 全自动 Fully automatic (L*W*H):8990*2798*2311	半自动 Semi-automatic (L*W*H):8990*2094*2311 全自动 Fully automatic (L*W*H):8990*2798*2311	半自动 Semi-automatic (L*W*H):9079*2860*2426
机体重量 (T) Machine weight	≈ 3.5	≈ 3.5	≈ 3.5
加速度 (G) Acceleration	≈ 1.6	≈ 1.3	≈ 1.0
尾料长度 (mm) Tailings length	≈ 40	≈ 80	≈ 100

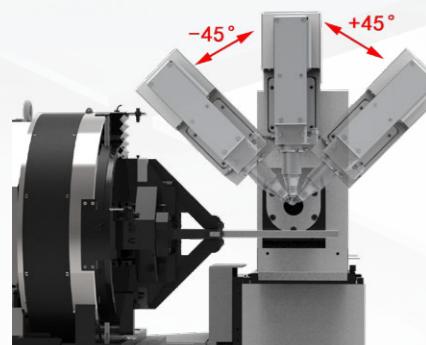
详细参数请参考相关技术方案。
Please refer to the technical proposal for details.

金属激光切割焊接设备

G90Z/G90K

SMALL DOUBLE CARD ULTRA HIGH SPEED MACHINE (FOR
SMALL PIPES, STRAIGHT CUTTING/CHAMFERING)

小双卡超高速机 (小管专用, 直切 / 坡口)



技术参数

Technical parameters

型号 Model	G90Z	型号 Model	G90K
激光器功率 (W) Laser power	1500-3000	激光器功率 (W) Laser power	1500-3000
切割管径 (mm) Cutting range	方圆 Circumference:10-90	切割管径 (mm) Cutting range	方圆 Circumference:10-90
重复定位精度 (mm) Repeat positioning accuracy	±0.02	重复定位精度 (mm) Repeat positioning accuracy	±0.02
管材加工范围 (mm) Pipe length range	≈ 6250	管材加工范围 (mm) Pipe length range	≈ 6250
机体尺寸 (mm) Machine size	手动上料 Manual feeding 3578*1700*1950 半自动 Semi-automatic 9300*1700*1950 全自动 Fully automatic 9300*1900*1950	机体尺寸 (mm) Machine size	手动上料 Manual feeding 3578*1700*1950 半自动 Semi-automatic 9300*1700*1950 全自动 Fully automatic 9300*1900*1950
机体重量 (T) Machine weight	≈ 2.5	机体重量 (T) Machine weight	≈ 2.5
加速度 (G) Acceleration	≈ 2.0	加速度 (G) Acceleration	≈ 1.5
尾料长度 (mm) Tailings length	≈ 40	尾料长度 (mm) Tailings length	坡口 Bevel ≈ 350 直切 Straight cut ≈ 130

优势特点

Advantages and characteristics

1. ±45°坡口切割, 一次成型;
2. 坡口角度 45°任意调节, 使焊接更牢固;
3. 此款设备可对多种类型的中小型管材进行高效的三维 45°切割, 五金家具、卫浴行业的明星产品;
4. 速度快、效率高、精度高, 加速度达到 1.6G, 效率是普通切管机的 5-6 倍, 切割精度可达到 ±0.02mm。
1. ±45° groove cutting, One molding;
2. The groove Angle of 45° can be adjusted to make the welding more firm;
3. This equipment can be used for a variety of types of small and medium-sized pipes for efficient 3D 45° cutting, hardware furniture, bathroom industry star products;
4. Fast speed, high efficiency, high precision, acceleration up to 1.6G, efficiency 5-6 times higher than ordinary pipe cutting machines, cutting accuracy can reach ± 0.02mm.

详细参数请参考相关技术方案。
Please refer to the technical proposal for details.

金属激光切割焊接设备

G25

CAPILLARY CLOSING TUBE MACHINE

毛细管精密切管机

优势特点 \ Advantages and characteristics

1、速度快，效率高：
加速度达到 1.6G，效率是普通切管机的 5-6 倍；
2、直线电机：
极大提升切割速度和精度，实现对极小管材切割不烧边，少挂渣的效果；
3、DD 马达：
采用更高精度的 DD 马达，无需原点复位，响应快、高转速、噪音低；
4、大理石平台：
运动部位采用大理石平台，更加稳定尺寸形状，保证床身生命周期不变形；
5、随动切割：
标配高精调高器，可以精准标定各种极小管材，更保证切割精度；
6、管材多工艺切割：
本机型可针对多种类型的小管进行三维切割：圆管、方管、椭圆管、其它异型管等。



1. Fast and efficient:
The acceleration reaches 1.6G, and the efficiency is 5-6 times of ordinary pipe cutting machine;
2. Linear motor:
Greatly improve the cutting speed and precision, and achieve the effect of cutting very small pipes without burning edges and less slng hanging;
3. DD motor:
The DD motor with higher accuncy is adopted, without zero point reset, with fast response, high speed and low noise;
4. Marble platform:
The moving part adopts a marble platform,which is more stable in size and shape, and ensures that the bed does not deform during its life ecle;
5. Follow-up cutting:
High-precision height adjuster is equipped as standard, which can accurately calibrate all kind of tiny pipes, and more ensures that the cutting accuracy;
6. Pipe multi-process cutting:
This machine can be used for 3D cutting of various types of small tubes:round tubes,square tubes,elliptical tubes, other special-shaped tubes, etc.

G40

CAPILLARY CLOSING TUBE MACHINE

毛细管精密切管机

优势特点 \ Advantages and characteristics

1、速度快，效率高：
直径 38mm 以下的金属管材高效切割而设计，集高精度、高速度、高灵活性于一体，适用于多种金属管材的复杂加工需求；
2、机械结构：
配备高刚性机械结构及精密伺服系统，确保切割过程稳定可靠；
3、DD 马达：
采用更高精度的 DD 马达，响应快、高转速、噪音低，转速高达 300r/min；
4、广泛材料适应性：
支持不锈钢、碳钢、铝合金、铜等多种金属材质，管材直径范围覆盖 2mm 至 40mm；
5、随动切割：
标配高精调高器，可以精准标定各种极小管材，更保证切割精度；
6、应用行业：
精密管件、五金配件、不锈钢水龙头、淋浴管道、医疗器械等产品精细切割与打孔的定制化切割。



1. Fast speed and high efficiency:
Designed for efficient cutting of metal pipes with a diameter of less than 38mm, it combines high precision, high speed, and high flexibility Integrated, suitable for complex processing needs of various metal pipes;
2. Mechanical structure:
Equipped with high rigidity mechanical structure and precision servo system to ensure stable and reliable cutting process;
3. DD motor:
Adopting a higher precision DD motor, it has fast response, high speed, and low noise, with a speed of up to 300r/min;
4. Wide material adaptability:
Supports various metal materials such as stainless steel, carbon steel, aluminum alloy, copper, etc., with pipe diameters ranging from 2mm to 40mm;
5. Follow up cutting:
Equipped with a high-precision regulator as standard, it can accurately calibrate various extremely small pipes, ensuring cutting accuracy;
6. Application industry:
Customized cutting and punching of precision fittings, hardware accessories, stainless steel faucets, shower pipes, medical equipment and other products.

技术参数 \ Technical parameters

型号 Model	G25	管材加工范围 (mm) Pipe length range	≤ 6500
激光器功率 (W) Laser power	1000-3000	机体尺寸 (mm) Machine size	L*W*H:2000*1100*1800
切割管径 (mm) Cutting range	圆管: φ2-φ25 Round tube 方管: □≤ 25 Square tube	机体重量 (T) Machine weight	1.5
重复定位精度 (mm) Repeat positioning accuracy	±0.01	加速度 (G) Acceleration	≈ 1.6

详细参数请参考相关技术方案书。 Please refer to the technical proposal for details.

此款设备是电子烟管、医疗器械、净水器，空调、高端厨具、商业装柜、手机支架等行业极小管加工的首选产品！

This equipment is the first choice for the processing of small tubes in electronic cigarette tubes, medical devices, water purifiers, air conditioners, high end kitchenware, commercial cabinets, mobile phone holders and other industries!

技术参数 \ Technical parameters

型号 Model	G40	管材加工范围 (mm) Pipe length range	≤ 6500
激光器功率 (W) Laser power	1000-3000	机体尺寸 (mm) Machine size	L*W*H:1850*860*1500
切割管径 (mm) Cutting range	圆管: φ2-φ38 Round tube 方管: □≤ 38 Square tube	机体重量 (T) Machine weight	1.5
重复定位精度 (mm) Repeat positioning accuracy	±0.01	加速度 (G) Acceleration	≈ 1.6

详细参数请参考相关技术方案书。 Please refer to the technical proposal for details.

此款设备是电子烟管、医疗器械、净水器，空调、高端厨具、商业装柜、手机支架等行业极小管加工的首选产品！

This equipment is the first choice for the processing of small tubes in electronic cigarette tubes, medical devices, water purifiers, air conditioners, high end kitchenware, commercial cabinets, mobile phone holders and other industries!

金属激光切割焊接设备

HSF1-1500

ROBOT LASER WELDING MACHINE

机器人激光焊接机



细节展示 Detail display



适用材料 Applicable materials

主要适用于焊接: 不锈钢、碳钢、合金钢、硅钢、弹簧钢、铝、铝合金、镀锌板、镀铝锌板等金属焊接。

It is mainly applicable to welding: stainless steel, carbon steel, alloy steel, silicon steel, spring steel, aluminum, aluminum alloy, galvanized sheet, aluminized zinc sheet and other metal welding.

应用范围 Application scope

机器人激光焊接机广泛应用于航空航天、汽车轮船、机械制造、电梯制造、广告制作、家用电器制造、医疗器械、五金装饰、健身器材、金属对外加工服务等各种制造行业。

Robot laser welding machines are widely used in various manufacturing industries such as aerospace, automobiles and ships, mechanical manufacturing, elevator manufacturing, advertising production, household appliance manufacturing, medical devices, hardware decoration, fitness equipment, and metal external processing services.

性能特点 Performance characteristics

- 1、6轴机器人，六轴联动可完成任意轨迹，可满足各种自动化焊接需求；
- 2、焊接速度快，可以满足0.3mm-8mm的焊接厚度，焊接过程的热影响区小，变形小，焊缝光滑且美观；
- 3、机器手激光焊接，免维护，高效稳定，使用寿命长达100,000小时。整机的功耗仅相当于YAG激光焊接机和传统的氩弧焊，对接焊和等离子焊的八分之一；
- 4、机器手激光焊接操作简单易用，系统包含强大的激光焊接工艺包，解决焊接工艺，减少了人工成本，实现效率增倍。

1. The 6-axis robot, with six-axis linkage, can complete any trajectory and meet various automated welding requirements;
2. The welding speed is fast, capable of meeting welding thicknesses ranging from 0.3mm to 8mm. The heat-affected zone during the welding process is small, with minimal deformation and smooth, aesthetically pleasing weld seams;
3. Robot hand laser welding, maintenance-free, highly efficient and stable, with a service life of up to 100,000 hours. The power consumption of the entire machine is only one eighth of that of YAG laser welding machines and traditional argon arc welding, butt welding and plasma welding;
4. The robot hand laser welding operation is simple and easy to use. The system includes a powerful laser welding process package, which solves the welding process, reduces labor costs, and doubles efficiency.

技术参数 Technical parameters

型号 Model	HSF1-1500
激光波长 Laser wavelength	1070±10nm
工作模式 Working mode	连续 / 脉冲 Continuous/pulse
建议焊接厚度 Suggested welding thickness	不锈钢 / 碳钢 : 0.3-8mm Stainless steel/carbon steel: 0.3-8mm
焊接缝隙要求 Requirements for welding gap	<0.5mm
重复定位精度 Repeat positioning accuracy	±0.05mm
瞄准定位方式 Aiming and positioning method	红光指示 (CCD 选配) Red light indication (CCD optional)
整套设备功率 Power of the entire set of equipment	10-30kW
工作电压 Working voltage	AC220V/380V 50-60Hz
可选功率 Optional power	1500W-2000W-3000W-6000W
光斑大小 Spot size	0.2mm-5mm(可调 Adjustable)
机械手臂长 The length of the mechanical arm	1.4m, 1.6m, 1.8m, 2.0m (选配 Optional)

金属激光切割焊接设备

HSF2-1500

ROBOT LASER CUTTING MACHINE

机器人激光切割机



细节展示 Detail display

切割专用激光头
Special laser head for cutting防撞系统
Anti-collision system切割专用调高器
Special height adjuster for cutting编程示教器
Programming instructor

适用材料 Applicable materials

主要适用于：切割、不锈钢、碳钢、合金钢、硅钢、弹簧钢、铝、铝合金、镀锌板、镀铝锌板等金属切割。

It is mainly applicable to: cutting of stainless steel, carbon steel, alloy steel, silicon steel, spring steel, aluminum, aluminum alloy, galvanized sheet, aluminized zinc sheet and other metals.

应用范围 Application scope

机器人三维激光切割机广泛应用于航空航天、汽车轮船、机械制造、电梯制造、广告制作、家用电器制造、医疗器械、五金装饰、健身器材、金属对外加工服务等各种制造行业。

Robot 3D laser cutting machines are widely used in various manufacturing industries such as aerospace, automobiles and ships, mechanical manufacturing, elevator manufacturing, advertising production, household appliance manufacturing, medical devices, hardware decoration, fitness equipment, and metal external processing services.

性能特点 Performance characteristics

- 1、6轴机器人，六轴联动可完成任意轨迹，可满足各种自动化三维切割需求；
- 2、高效离线编程（选配）：生产与编程可同时进行；编程者无需进入工作区；路径检测避免碰撞；编程速度和精度远超在线示教；一键式修改程序参数；
- 3、切割效果卓越：专业工艺参数配合，切割面平整，毛刺少；可搭配外部轴联动配合紧密，切割路径平滑，最大化避免死角；
- 4、高集成一体化：占用场地小；机器人控制器、激光器切割控制系统、恒温系统一体化；隐藏式集中布线，整洁美观；
- 5、一站式技术服务：高效现场安装调试；专业教学培训服务；便捷远程技术指导；及时响应并解决售后问题。

1. The 6-axis robot, with six-axis linkage, can complete any trajectory and meet various automated three-dimensional cutting requirements;
2. High-efficiency offline programming (optional) : Production and programming can be carried out simultaneously; Programmers do not need to enter the workspace. Path detection avoids collisions; The programming speed and accuracy far exceed those of online teaching. One-click modification of program parameters;
3. Outstanding cutting effect: Professional process parameters are well coordinated, resulting in a smooth cutting surface with few burrs. It can be closely matched with external shaft linkage, ensuring a smooth cutting path and maximizing the avoidance of dead corners;
4. High integration and one-piece design: Occupies less space; Integrated robot controller, laser cutting control system and constant temperature system; Hidden centralized wiring, neat and beautiful;
5. One-stop technical service: Efficient on-site installation and commissioning; Professional teaching and training services; Convenient remote technical guidance; Respond promptly and solve after-sales problems.

技术参数 Technical parameters

型号 Model	HSF2-1500
激光波长 Laser wavelength	1070±10nm
工作模式 Operating mode	连续 Continuous
建议切割厚度 Recommended cutting thickness	不锈钢 / 碳钢: 0.1-8mm Stainless steel/carbon steel: 0.1-8mm
重复定位精度 Repeat positioning accuracy	±0.05mm
瞄准定位方式 Aiming and positioning mode	红光指示 Red light indication
整套设备功率 Power of complete equipment	16-20kW
工作电压 Working voltage	AC220V/380V 50-60Hz
可选功率 Optional power	1500W-2000W-3000W-6000W
机械手臂长 Manipulator travel	1.4m, 1.6m, 1.8m, 2.0m (选配 Optional)

金属激光切割焊接设备

HSF3-350

ARC WELDING ROBOT

弧焊机器人



细节展示 Detail display



适用材料 Applicable materials

主要适用于焊接: 不锈钢、碳钢、合金钢、硅钢、弹簧钢、铝、铝合金、镀锌板、镀铝锌板等金属焊接。

It is mainly applicable to welding: stainless steel, carbon steel, alloy steel, silicon steel, spring steel, aluminum, aluminum alloy, galvanized sheet, aluminized zinc sheet and other metal welding.

应用范围 Application scope

弧焊机器人广泛应用于航空航天、汽车轮船、机械制造、电梯制造、广告制作、家用电器制造、医疗器械、五金装饰、健身器材、金属对外加工服务等各种制造行业。

Arc welding robots are widely used in various manufacturing industries such as aerospace, automobiles and ships, mechanical manufacturing, elevator manufacturing, advertising production, household appliance manufacturing, medical devices, hardware decoration, fitness equipment, and metal external processing services.

性能特点 Performance characteristics

1. 超低飞溅、热输入低、搭桥能力强；
2. 通过对短路熔滴过渡进行精确控制，使熔滴平静进入熔池，减小了液桥爆断带来的主要飞溅；
3. 电弧柔和，熔池平静，飞溅极低，且不沾工件；
4. 电弧搭桥能力强，薄板大间隙容错率高，且适合全位置高质量打底；
5. 同等热输入情况下，大幅提高焊接行走速度，该特点可用于高速焊；适用气体: CO₂、MAG、MIG 等气体。

1. Ultra-low splashing, low heat input, and strong bridging capacity;
2. By precisely controlling the short-circuit droplet transition, the droplets can enter the molten pool calmly, reducing the main splashing caused by the liquid bridge rupture;
3. The arc is gentle, the molten pool is calm, the spatter is extremely low, and it does not stick to the workpiece;
4. It has strong arc bridging capacity, large gap fault tolerance rate for thin plates, and is suitable for high-quality priming at all positions;
5. Under the same heat input conditions, the welding walking speed is significantly increased. This feature can be applied to high-speed welding. Applicable gases: CO₂, MAG, MIG and other gases.

焊接电源 (选配) Welding power supply (optional)



奥太 ▶
Aotai
NBC-350RL



麦格米特 ▶
McGrady
Ehave2-CM350R



威尔泰克 ▶
Wiltek
NB350RP

技术参数 Technical parameters

型号 Model	HSF3-350	
输入电压 / 频率 Input voltage/frequency	V/Hz	三相 380+15%50/60 Three-phase 380+15%50/60
额定输入容量 Rated input capacity	KVA	14
额定输入电流 Rated input current	A	25
额定负载持续率 (40°C) Rated load duration (40°C)	%	350A/34V 100%
输出空载电压 Output no-load voltage	V	65
输出电流调节范围 Output current adjustment range	A	10~350
输出电压调节范围 Output voltage adjustment range	V	10~540
使用焊丝直径 Use the diameter of the welding wire	mm	0.8、1.0、1.2、1.6
送丝类型 Wire feeding type	推丝 Push wire	
气体流量 Gas flow rate	L/min	15~20
焊枪冷却方式 Cooling method of welding torch	气冷 / 水冷 Air-cooled/water-cooled	
外壳防护等级 Enclosure protection grade	IP23S	
绝缘等级 Insulation class	H	
焊机尺寸 Welding machine dimensions	mm	720*300*545
焊机重量 Welding machine weight	kg	48

金属激光切割焊接设备

HSF4

SIX-AXIS PLATFORM LASER WELDING MACHINE

六轴平台激光焊接机

性能特点 \ Performance characteristics

1. 焊接常规小五金件、异型件（可定制工装夹具）；
2. 全部功能由软件控制、高度集成；
3. 高稳定性，满负荷时输出功率波动<3%；
4. 具备红光导引；
5. 预留拓展 I/O 接口、可配合电气自动化装置联动工作；
6. 搭载单摆焊接头、可进行点、直线、圆等图案焊接方式；
7. 易操作免维护；
8. 该激光焊接设备，主要由光纤激光器、单摆焊接头、精密模组、导光系统、冷却循环系统、红光指示、CCD 影像监视器系统、全铝板精密机柜组成。

1. Welding conventional small hardware parts and special-shaped parts (customizable tooling fixtures);
 2. All functions are controlled by software and highly integrated;
 3. High stability, output power fluctuation <3% at full load;
 4. With red light guide;
 5. Reserve the expansion I/O interface, which can cooperate with the linkage work of the electrical automation device;
 6. Equipped with a pendulum welding head, which can perform spot, straight, circular, and other pattern welding methods;
 7. Easy to operate and free of maintenance;
 8. The laser welding equipment is mainly composed of fiber laser, single pendulum welding head, precision module, light guide system, cooling circulation system, red light indicator, CCD image monitor system, and all-aluminum plate precision cabinet.



产品案例 \ Product case



技术参数 \ Technical parameters

设备名称 (Equipment name)	六轴平台激光焊接机 (Six-axis platform 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 ³
红光定位 (Red light positioning)	有 (Have)
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)	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
有效行程 (Effective itinerary)	X 轴 (axis)=500mm;Y 轴 (axis)=300mm,Z 轴 (axis)=300mm A 轴 (axis)= 旋转轴 (可选配) Rotating shaft (optional)
运动轴 (Motion axis)	4 轴 (axis)
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 (About)400kg
外形尺寸 (长 x 宽 x 高) (Dimensions length x width x height)	1750*1200*1700mm

HSF5

FOUR-AXIS LINKAGE FIBER AUTOMATIC LASER WELDING MACHINE

四轴联动光纤自动激光焊接机

性能特点 \ Performance characteristics

1. 焊接常规小五金件、异型件（可定制工装夹具）；
2. 全部功能由软件控制、高度集成；
3. 高稳定性，满负荷时输出功率波动<3%；
4. 具备红光导引；
5. 预留拓展 I/O 接口、可配合电气自动化装置联动工作；
6. 搭载单摆焊接头、可进行点、直线、圆等图案焊接方式；
7. 易操作免维护；
8. 该激光焊接设备，主要由光纤激光器、单摆焊接头、精密模组、导光系统、冷却循环系统、红光指示、CCD 影像监视器系统、全铝板精密机柜组成。

1. Welding conventional small hardware parts and special-shaped parts (customizable tooling fixtures);
 2. All functions are controlled by software and highly integrated;
 3. High stability, output power fluctuation <3% at full load;
 4. With red light guide;
 5. Reserve the expansion I/O interface, which can cooperate with the linkage work of the electrical automation device;
 6. Equipped with a pendulum welding head, which can perform spot, straight, circular, and other pattern welding methods;
 7. Easy to operate and free of maintenance;
 8. The laser welding equipment is mainly composed of fiber laser, single pendulum welding head, precision module, light guide system, cooling circulation system, red light indicator, CCD image monitor system, and all-aluminum plate precision cabinet.



产品案例 \ Product case



技术参数 \ Technical parameters

设备名称 (Equipment name)	四轴联动光纤自动激光焊接机 (Four-axis linkage fiber automatic 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 ³
红光定位 (Red light positioning)	有 (Have)
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)	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
有效行程 (Effective itinerary)	X 轴 (axis)=500mm;Y 轴 (axis)=300mm,Z 轴 (axis)=300mm A 轴 (axis)= 旋转轴 (可选配) Rotating shaft (optional)
运动轴 (Motion axis)	4 轴 (axis)
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 (About)400kg
外形尺寸 (长 x 宽 x 高) (Dimensions length x width x height)	1750*1200*1700mm

金属激光切割焊接设备

HSF6

GALVANOMETER FIBER AUTOMATIC LASER WELDING MACHINE

振镜光纤自动激光焊接机

性能特点 \ Performance characteristics

1. 软包电池转镍，电池组焊接等更高的焊接工艺要求；
2. 全部功能由软件控制、高度集成；
3. 高稳定性，满负荷时输出功率波动 <3%；
4. 具备红光导引，采用进口传感器，拥有自动定焦功能；
5. 预留拓展 I/O 接口，可配合电气自动化装置联动工作；
6. 搭载振镜焊接头、可进行点、直线、圆等图案焊接方式；
7. 易操作免维护；
8. 该激光焊接设备，主要由光纤激光器、高速振镜焊接头、精密模组、导光系统、冷却循环系统、红光指示、CCD 影像监视器系统、全铝板精密机柜。

1. Soft-pack batteries are converted to nickel, battery packs are welded, and other higher welding process requirements;
2. All functions are controlled by software and highly integrated;
3. High stability, output power fluctuation <3% at full load;
4. With red light guide, imported sensor, with auto focus function;
5. Reserved to expand the I/O interface, which can cooperate with the linkage work of the electrical automation device;
6. Equipped with galvanometer welding head, it can perform spot, line, circle, and other pattern welding methods;
7. Easy to operate and free of maintenance;
8. The laser welding equipment is mainly composed of fiber laser, high-speed galvanometer welding head, precision module, light guide system, cooling circulation system, red light indicator, CCD image monitor system, and all-aluminum plate precision cabinet.



产品案例 \ Product case



技术参数 \ Technical parameters

设备名称 (Equipment name)	振镜光纤自动激光焊接机 (Galvanometer fiber automatic laser welding machine)
激光功率 (Laser power)	500-1500W
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)	1.1/1.3/1.4m ³
红光定位 (Red light positioning)	有 (Have)
焊缝宽度 (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
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
有效行程 (Effective itinerary)	X 轴 (axis)=500mm,Y 轴 (axis)=300mm,Z 轴 (axis)=300mm (可选配) (Optional)
运动轴 (Motion axis)	3 轴 (axis)
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 (About)400kg
外形尺寸 (长 x 宽 x 高) (Dimensions length x width x height)	1750*1200*1700mm

HSF7

GANTRY GALVANOMETER FIBER AUTOMATIC LASER WELDING MACHINE

龙门振镜光纤自动激光焊接机

性能特点 \ Performance characteristics

1. 龙门结构，满足锂电池组的各种尺寸需求；
2. 全部功能由软件控制、高度集成；
3. 高稳定性，满负荷时输出功率波动 <3%；
4. 具备红光导引，采用进口传感器，拥有自动定焦功能；
5. 预留拓展 I/O 接口，可配合电气自动化装置联动工作；
6. 搭载振镜焊接头、可进行点、直线、圆，等图案焊接方式；
7. 易操作免维护；
8. 该激光焊接设备，主要由光纤激光器、高速振镜焊接头、精密模组、导光系统、冷却循环系统、红光指示、CCD 影像监视器系统、高强钢精密机柜。

1. Gantry structure to meet various size requirements of lithium battery packs;
2. All functions are controlled by software and highly integrated;
3. High stability, output power fluctuation <3% at full load;
4. With red light guide, imported sensor, with auto focus function;
5. Reserved to expand the I/O interface, which can cooperate with the linkage work of the electrical automation device;
6. Equipped with galvanometer welding head, it can perform spot, line, circle, and other pattern welding methods;
7. Easy to operate and free of maintenance;
8. The laser welding equipment is mainly composed of fiber laser, high-speed galvanometer welding head, precision module, light guide system, cooling circulation system, red light indicator, CCD image monitor system, and high-strength steel precision cabinet.



产品案例 \ Product case



技术参数 \ Technical parameters

设备名称 (Equipment name)	龙门振镜光纤自动激光焊接机 (Gantry galvanometer fiber automatic 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)	1.1/1.3/2.1m ³
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
有效行程 (Effective itinerary)	X 轴 (axis)=1000mm,Y 轴 (axis)=800mm,Z 轴 (axis)=500mm (可选配) (Optional)
运动轴 (Motion axis)	3 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)1000kg
外形尺寸 (长 x 宽 x 高) (Dimensions length x width x height)	2600*1350*2200mm

金属激光切割焊接设备

HSF8-1500

PRECISION LASER PLATE CUTTING MACHINE

精密激光切板机

性能特点 \ Performance characteristics

1、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；
2、采用进口伺服电机、高精度研磨丝杆和CNC数控系统、速度快、精度高、维护率低；
3、采用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；
4、非接触式加工、热影响。

1. This machine adopts a marble precision platform and a gantry double-drive integrated closed structure, which has good rigidity, shock resistance and high-speed stability;
2. It adopts imported servo motor, high-precision grinding screw and CNC numerical control system, with high speed, high precision and low maintenance rate;
3. It adopts special fiber laser and precise special cutting head to ensure small cutting seam, high precision, and smooth cutting surface without burrs;
4. Non-contact processing, thermal influence.



适用行业 / 材料 \ Applicable industry / material

3C 行业产品：小型金属薄壳结构件、尤其适合数码产品壳体冲压成形后的 2D 激光加工；
汽车轮胎模具：轮胎模具的小钢片切割；
金属眼镜行业：切割眼镜腿、眼镜框；
金属饰品行业：各种金属饰品镂空切割；
其它行业金属及合金薄板的精密切割。

3C industry products: small metal thin-shell structural parts, especially suitable for 2D laser processing of digital product housings after stamping and forming;
Automobile tire mold: the small steel sheet cutting of tire mold;
Metal glasses industry: cutting glasses legs and glasses frames;
Metal jewelry industry: hollow cutting of various metal jewelry;
Precision cutting of metal and alloy sheets in other industries.

产品案例 \ Product case



技术参数 \ Technical parameters

设备名称 (Equipment name)	精密激光切板机 (Precision laser plate cutting machine)
激光功率 (Laser power)	1000W/1500W/2000W/3000W
激光波长 (Laser wavelength)	1064nm
切割范围 (Cutting range)	600*600mm, 3000*1500mm
切割缝宽 (Cutting seam width)	最大 (Maximum)0.15mm (视功率和材料而定) (Depending on power and material)
切割厚度 (Cutting thickness)	最大 (Maximum)5mm 不锈钢 (Stainless steel)
切割速度 (Cutting speed)	最大 (Maximum)500mm/s
机床精度 (Machine accuracy)	≤ ± 0.03mm
供气条件 (Air supply conditions)	小于 1.5Mpa ≤ C ≤ 2.5Mpa
最大功耗 (Maximum power consumption)	≤ 14kW (根据选配功率) (According to optional power)
供电 (Powered by)	220V 或 (or)380V (根据功率) (According to power)
使用环境 (Use environment)	室温低于 (Room temperature is lower than)35°C, 干燥环境无水油污粉尘, 通风 (Dry environment without water, oil and dust, ventilated)
兼容文件 (Compatible files)	CAD 或 (or)CorelDRAW 输出 DXF 格式文件 (Export DXF format file)
外形尺寸 (长 x 宽 x 高) (Dimensions length x width x height)	3050*1600*1800mm
整机重量 (Total weight)	约 (About)1600kg

HSF9-1500

HANDHELD LASER WELDING MACHINE

手持激光焊接机

性能特点 \ Performance characteristics

1、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、拼缝的点焊满焊;
2、高稳定性,满负荷时输出功率波动<3%;
3、具备红光导引、自动送丝;
4、预留拓展 I/O 接口,可配合电气自动化装置联动工作;
5、搭载双摆动焊接头、可进行点、直线、圆、8字、鱼鳞纹等图案焊接方式;
6、易操作免维护;
7、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。

1. Integrated structure design, flexible and convenient, fiber laser welding has the advantages of high electro-optical conversion rate, good beam quality, high reliability, maintenance-free operation, etc. The flexible design is suitable for the full welding of inner corners, outer corners and seams of various frame structures;
2. High stability, output power fluctuation <3% at full load;
3. With red light guide and automatic wire feeding;
4. Reserve the expansion I/O interface, which can cooperate with the linkage work of the electrical automation device;
5. Equipped with dual oscillating welding heads, pattern welding methods such as dots, straight lines, circles, figure eights, and fish scales can be performed;
6. Easy to operate and free of maintenance;
7. The laser welding equipment is mainly composed of fiber laser, high-speed double pendulum welding head, cooling circulation system, red light indicator, and wire feeding system.



产品案例 \ Product case



技术参数 \ Technical parameters

设备名称 (Equipment name)	手持激光焊接机 (Handheld 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)	1-1000%
调制频率 (Modulation frequency)	连续 / 调制 (Continuous/modulation)20-50KHz
功率稳定性 (Power stability)	≤ 3%
光束质量 (Beam quality)	1.1/1.3/1.4/2.1-2.7m ³
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) (According to power)
工作温度 (Operating temperature)	10-40°C
操作系统 (Operating system)	专用激光焊接系统 (Specialized laser welding system)
光纤线缆 (Fiber optic cable)	15m (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 (About)200kg
外形尺寸 (长 x 宽 x 高) (Dimensions length x width x height)	1000*800*700mm (含送丝机) (It includes a wire feeder)