DELIGHTEOS
LASER
2026

当康激光
DELIGHTEOS LASER

气密性激光焊接专家

Expertise in Airtight laser Welding

广东当康激光科技有限公司

Guangdong Delighteos Laser technology Co., Ltd.



DELIGHTEOS

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DELIGHTEOS

广东当康激光科技有限公司



AI数据中心散热产品气密性激光焊接设备 · 整体工艺方案提供商

AI Data Center Thermal Management

Airtight Laser Welding Equipment

Integrated Welding Process Solutions

CCC认证 CCC Certified

高新技术企业 High-Tech Enterprise

50%

fifty percent

2026年AI数据中心液冷渗透率预测

AI DC Liquid Cooling Penetration 2026

1300亿

130 billion

2029年中国液冷市场规模预测

China Liquid Cooling Market 2029

1- 7系

1–7 Series

全系铝合金气密性焊接覆盖

All Alloy Series Full Coverage

DELIGHTEOS 广东当康激光科技有限公司

专注液冷数据中心、汽车热管理、空调制冷行业激光焊接与自动化

Dedicated to Laser Welding, Automation for Liquid Cooling, Thermal Management & Refrigeration Industries.

广东当康激光科技有限公司(品牌：**DELIGHTEOS**) 是一家专业从事激光技术应用开发的高科技企业，专注液冷数据中心、汽车热管理、空调制冷行业激光焊接与自动化应用。持有 CCC多项国际认证。

Delighteos Laser is a high-tech enterprise specializing in laser technology applications for liquid cooling, thermal management, refrigeration and automation application. Holds multiple international certifications including CCC.

专注铝材液冷板、换热器、散热器激光密封焊接设备

Aluminum cold plates, heat exchangers & radiator laser sealing welding

专注各种材料气密性焊接设备

Airtight welding equipment for various materials

专注制冷铜阀、管件异种材料零部件焊接

copper valves, fittings & dissimilar material component welding

解决气密性焊接难题：变形小、气密好、效率高、成本低

Airtight welding solutions: minimal deformation, excellent airtight sealing, high efficiency with low costs

华东华南双布局

东莞总部 · 昆山分公司

高校研发合作

哈工大 · 浙大 · 港理工

深度定制开发
非标气密焊接专家

Expert in
Custom Airtight Welding

全国服务覆盖

Nationwide Coverage

🏆 头部客户验证

Sanhua · DunAn · FoXCONN

当康激光核心技术 -- 环形光斑焊接 Delighteos'Core Technology: Ring-Shaped Beam Welding

采用环形光斑的方式焊接，配比环形和中心激光的比例，实现对温度梯度的精准控制，大幅减少裂纹；同时环形光晕带来的搅拌作用可帮助气体排出，减少气孔。达到国标(GB/T 22085)B 级标准，焊缝耐压耐久度优良。

Using annular beam welding, the ratio of annular to center laser is precisely calibrated to control temperature gradients,significantly reducing cracking.Meeting GB/T 22085 Grade B standard with excellent pressure durability.

铝合金/紫铜焊接难点 vs 当康解决方案
Welding Challenges: Aluminum Alloy to Copper vs. Delighteos Solutions

X 焊道容易夹杂气孔 The weld bead is prone to trapping pores	√有效减少气孔 Effectively reduces pores
X 焊道容易产生裂纹 Weld beads are prone to cracking	√调整熔池形态，有效减少裂纹 Adjust the molten pool shape to effectively reduce cracks
X 焊接变形大 Large welding deformation	√有效减少热影响区和变形问题 Effectively reduce the heat-affected zone and deformation problems
X 熔池深度不稳定 The depth of the molten pool is unstable	√焊接低飞溅，表面光滑，熔深稳定 Low spater welding, smooth surface, stable penetration

6 大核心优势 Six Core Strengths

微米级焊接精度，气密性好

Micron-level precision,excellent airtightness

变形极小，不影响产品性能

Minimal deformation,no performance impact

高效自动化，设备24h稳定加工

High automation, 24h stable operation

热影响区极小，铝合金友好

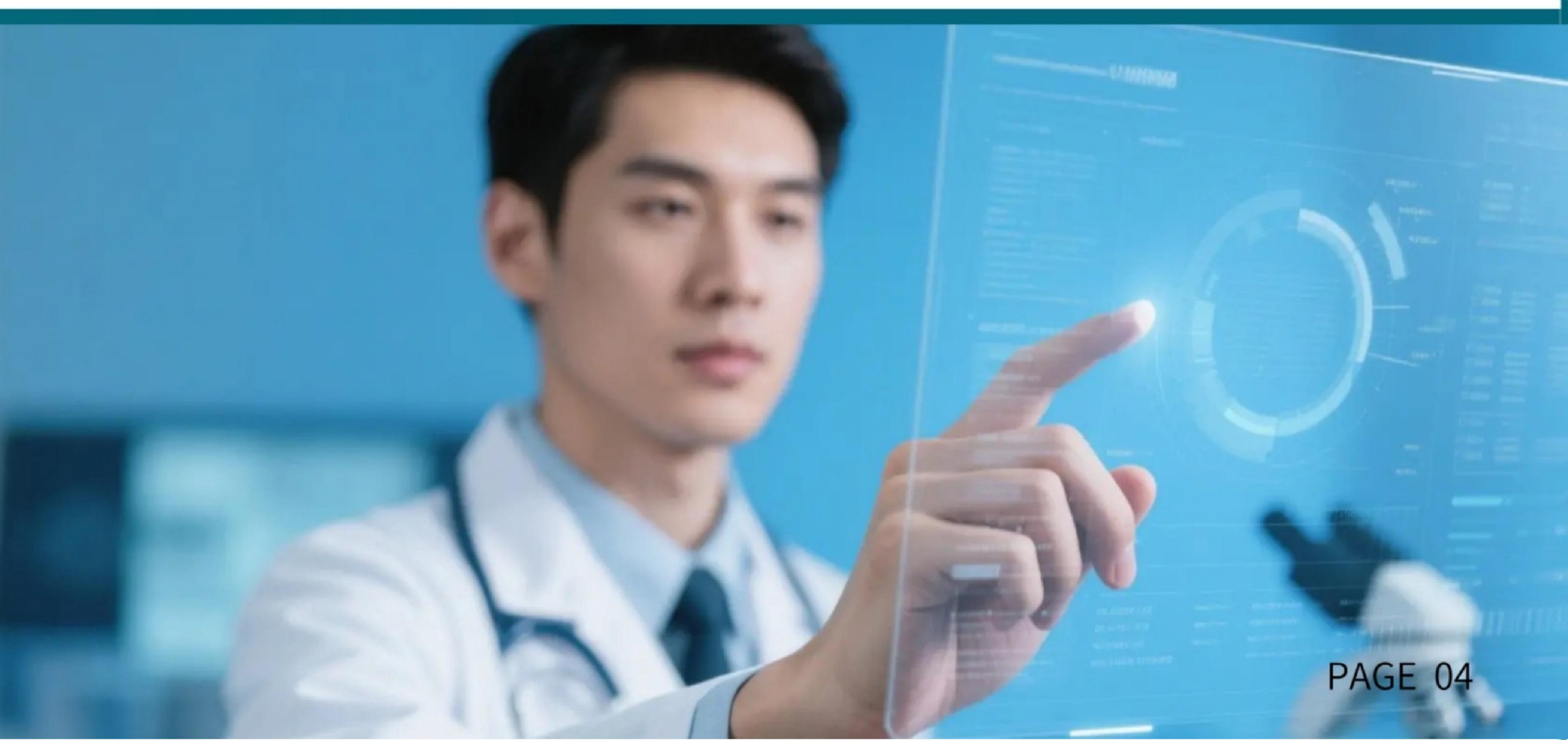
Minimal heat-affected zone, Aluminium alloy friendly

填丝/自熔双模式，适应多材质

Filler wire/autogenous dual mode, multi-material

CCC认证，国标B级

Triple certified: CCC





AI液冷
AI Liquid Cooling

分水器平台激光焊接机
Manifold Platform Laser Welding Machine

适用于 AI 服务器，机架分水器产品
Suitable for AI servers, rack manifold products

产品参数 Product Specifications

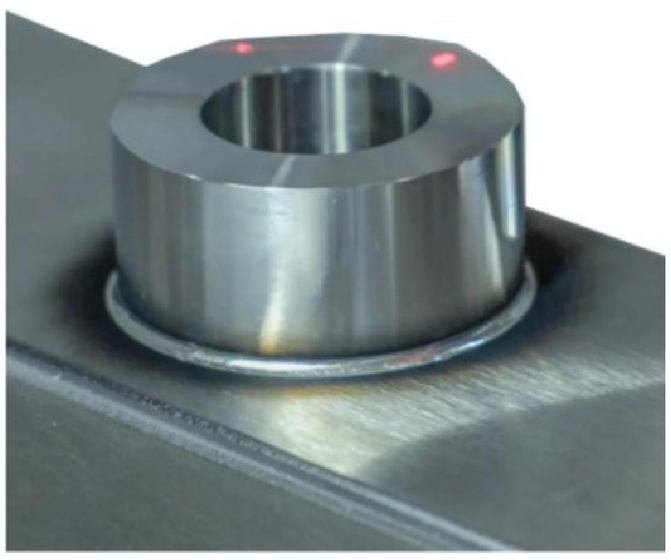
光纤激光器功率 Fiber Laser Power	1500W	3000W
激光波长 Laser wavelength	1080 ± 5nm	
功率可调范围 Adjustable Power Range	10~100%	
机床最大加工范围 Maximum Working Area	X：2300mm, Y: 300mm, Z: 300mm	
X/Y/Z单轴直线模组定位精度 X/Y/Z Single-Axis Linear Module Positioning Accuracy	± 0.02mm	
X/Z单轴直线模组最大运行速度 X/Z Axis Maximum Travel Speed	250mm/s	
整机平均功耗 Average Power Consumption	7.5kwh	14.5kw
电源要求 Power Requirements	AC220V 50Hz 三相 Three-Phase, 50Hz	
整机柜体尺寸 Overall Machine Dimensions	L3200xW1000xH2200mm(不含三色灯和悬臂高)	

AI液冷
AI Liquid Cooling

分水器平台激光焊接机
Manifold Platform Laser Welding Machine

样品展示
Sample Showcase

适用于AI 服务器，机架分水器产品
Suitable for AI servers, rack manifold products













CORE PRODUCTS · AI 液冷核心设备

覆盖 AI 数据中心液冷散热全链路焊接需求 Complete Laser Welding Coverage for AI Liquid Cooling Thermal Management



AI液冷
AI Liquid Cooling

波纹管激光焊接机
Bellows Laser Welding Machine

专注于AI服务器波纹管产品，适用不同的波纹管产品全制程工序。可根据客户需求个性化配置。
Specializing in AI server bellows products, applicable to the entire production process. Customisable.

产品参数Product Specifications

光纤激光器功率 Fiber Laser Power	1500W	3000W
激光波长 Laser wavelength	1080 ± 5nm	
功率可调范围 Adjustable Power Range	10~100%	
X/Y/Z单轴直线模组定位精度 X/Y/Z Single-Axis Linear Module Positioning Accuracy	± 0.02mm	
X/Z单轴直线模组最大运行速度 X/Z Axis Maximum Travel Speed	250mm/s	
整机平均功耗 Average Power Consumption	7.5kwh	14.5kw
电源要求 Power Requirements	AC220V, 50Hz 三相three-phase、AC380V, 50Hz	
整机柜体尺寸 Overall Machine Dimensions	L1800xW1555xH2435mm(不含三色灯和悬臂高度)	

AI液冷
AI Liquid Cooling

波纹管激光焊接机
Bellows Laser Welding Machine

样品展示Sample Showcase

专注于AI服务器波纹管产品，适用不同的波纹管产品全制程工序。可根据客户需求个性化配置。
Specializing in AI server bellows products, applicable to the entire production process. Customisable.













AI液冷
AI Liquid Cooling

波纹管拍平机
Bellows Flattening Machine

专注于AI服务器波纹管产品，适用不同的波纹管产品全制程工序。可根据客户需求个性化配置。
Specializing in AI server bellows products, applicable to the entire production process. Customisable.

产品参数Product Specifications

适用直径 Applicable Diameter	DN4-DN10 DN指管内孔Tube Inner Diameter
适应厚度 Applicable Thickness	0.08mm-0.4mm
拍平效率 Flattening Efficiency	15秒/条 15 s /pc
平面度 Flatness	≥ 0.05mm
工装寿命 Tooling Life	≤ 5000次 5,000 cycles
用电需求 Power Requirements	220V ± 5V 50Hz/60A
整机柜体尺寸 Overall Machine Dimensions	900mm*700mm*850mm

AI液冷
AI Liquid Cooling

波纹管拍平机
Bellows Flattening Machine

样品展示Sample Showcase

专注于AI服务器波纹管产品，适用不同的波纹管产品全制程工序。可根据客户需求个性化配置。
Specializing in AI server bellows products, applicable to the entire production process. Customisable.













AI液冷
AI Liquid Cooling

波纹管激光切管机
Bellows Laser Cutting Machine

专注于AI服务器波纹管产品，适用不同的波纹管产品全制程工序。可根据客户需求个性化配置。
Specializing in AI server bellows products, applicable to the entire production process. Customisable.

产品参数Product Specifications

光纤激光器功率 Fiber Laser Power	1500W 3000W
激光波长 Laser wavelength	1080+5nm
功率可调范围 Adjustable Power Range	10~100%
机床最大加工范围 Maximum Working Area	X: 1000mm, Y: 800mm, Z: 500mm
X/Y/Z单轴直线模组定位精度 X/Y/Z Single-Axis Linear Module Positioning Accuracy	± 0.02mm
X/Z单轴直线模组最大运行速度 X/Z Axis Maximum Travel Speed	250mm/s
整机平均功耗 Average Power Consumption	7.5 kwh 14.5kw
电源要求 Power Requirements	AC220V, 50Hz 三相 three-phase、AC380V,50Hz
整机柜体尺寸Overall Machine Dimensions	L1800xW1555xH2435mm(不含三色灯和悬臂高度) (excluding the stack light and cantilever height)

AI液冷
AI Liquid Cooling

波纹管激光切管机
Bellows Laser Cutting Machine

样品展示Sample Showcase

专注于AI服务器波纹管产品，适用不同的波纹管产品全制程工序。可根据客户需求个性化配置。
Specializing in AI server bellows products, applicable to the entire production process. Customizable.













AI液冷
AI Liquid Cooling

龙门架激光焊接机
Airtight Gantry Laser Welding Machine

专注于AI服务器内部分水器产品，针对各产品不同的焊接步骤，更换对应的焊接夹具，满足产品焊接需求。
Specializing in the internal components of AI servers, with interchangeable welding fixtures for different procedures.

产品参数 Product Specifications

光纤激光器功率 Fiber Laser Power	1500W 3000W
激光波长 Laser wavelength	1080 ± 5nm
功率可调范围 Adjustable Power Range	10~100%
机床最大加工范围 Maximum Working Area	X: 1200mm,Y: 800mm,Z: 400mm
X/Y/Z单轴直线模组定位精度X/Y/Z Single-Axis Linear Module Positioning Accuracy	± 0.02mm
X/Z单轴直线模组最大运行速度 X/Z Axis Maximum Travel Speed	250mm/s
整机平均功耗 Average Power Consumption	7.5kwh 14.5kw
电源要求 Power Requirements	AC220V, 50Hz 三相Three-phase、AC380V，50Hz
整机柜体尺寸 Overall Machine Dimensions	L1850xW1350xH2200mm (不含三色灯和悬臂高度)(excluding the stack light and cantilever height)

AI液冷
AI Liquid Cooling

龙门架激光焊接机
Airtight Gantry Laser Welding Machine

样品展示Sample Showcase

专注于AI 服务器内部分水器产品，针对各产品不同的焊接步骤，更换对应的焊接夹具，满足产品焊接需求。

Specializing in the internal components of AI servers, with interchangeable welding Fixtures for different procedures.















气密性焊接全系列
Complete Range of Hermetic Welding Solutions

铜铝气密平台激光焊接机
Copper Parts Airtight Platform Laser Welding Machine

适用于航空、军工、汽车制冷、AI 行业铜配件气密性焊接。可实现黄铜、紫铜、1-7系铝材、不锈钢、碳钢焊接，部分材料可以混焊，焊缝抗拉力达母材85%以上。

Airtight copper welding for aerospace, military, automotive refrigeration& AI. Supports brass, red copper, SS& carbon steel cross-welding.

产品参数Product Specifications

环形光斑激光器 Ring Beam Laser	2000W+2000W/3000W+3000W
焊接头 Laser Welding Head	当康定制 Delighteos Customization
激光波长 Laser wavelength	1080 ± 5n
功率可调范围 Adjustable Power Range	10~100%
机床最大加工范围 Maximum Working Area	X: 1200mm, Y: 800mm, Z: 400mm
X/Y/Z单轴直线模组定位精度 X/Y/Z Single-Axis Linear Module Positioning Accuracy	± 0.02mm
X/Z单轴直线模组最大运行速度 X/Z Axis Maximum Travel Speed	250mm/s
整机平均功耗 Average Power Consumption	7.5kwh 14.5kw
电源要求 Power Requirements	AC220V,50Hz 三相 three-phase、 AC380V,50Hz
整机柜体尺寸 Overall Machine Dimensions	L1850xW1350xH2200mm (不含三色灯和悬臂高度)(excluding the stack light and cantilever height)

气密性焊接全系列
Complete Range of Hermetic Welding Solutions

铜铝气密平台激光焊接机
Copper Parts Airtight Platform Laser Welding Machine

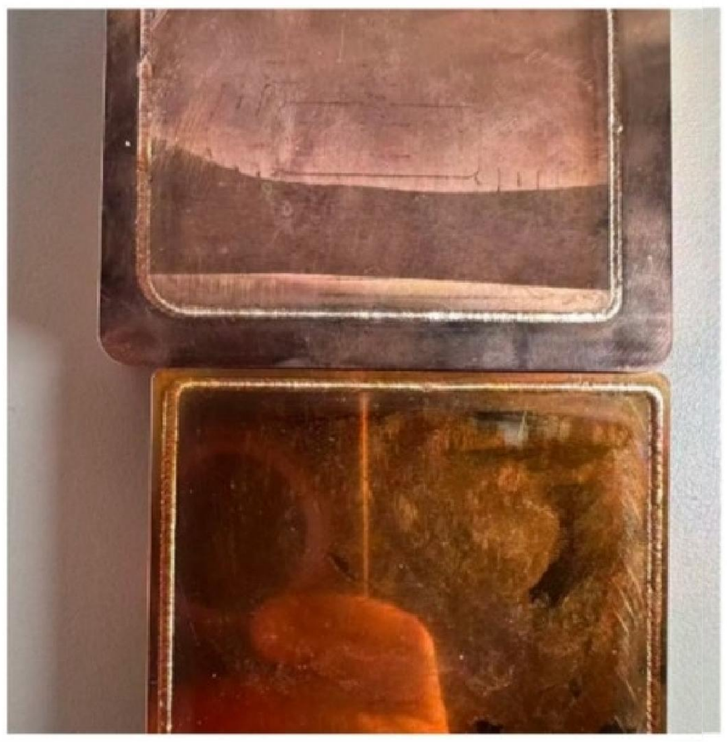
样品展示Sample Showcase

适用于航空、军工、汽车制冷、AI 行业铜配件气密性焊接。可实现黄铜、紫铜、1-7系铝材、不锈钢、碳钢焊接，部分材料可以混焊，焊缝抗拉力达母材85%以上。

Airtight copper welding. For aerospace, military, automotive refrigeration&AI. Supports brass, red copper, SS&carb on steel cross-welding.















气密性焊接全系列
Complete Range of Hermetic Welding Solutions

铝气密机器人激光焊接机
Aluminum Airtight Robotic Laser Welding Machine

以工业机器人为载体，适用于大型铝合金气密件。可接驳变位机，实现复杂形状工件全自动焊接，覆盖 1-7 系铝合金
Robot-mounted for large aluminum airtight parts. Supports positioner for complex geometries. Covers 1-7 series alloys

产品参数Product Specifications

光纤激光器 Fiber Laser	当康定制C4/C6 Delighteos Customization
光纤激光功率 Fiber Laser Power	峰值功率Peak Power 4000W 峰值功率Peak Power6000W
激光波长 Laser wavelength	1080 ± 5nm
功率可调范围 Adjustable Power Range	10~100%
机床最大加工范围 Maximum Working Area	按实际要求定制 Customized to Meet Specific Requirements
焊接加工精度 Welding Precision	± 0.02mm
最大运行速度 Maximum Travel Speed	250mm/s
整机平均功耗 Average Power Consumption	7.5kwh 14.5kw
电源要求 Power Requirements	AC220V,50Hz 三相 three-phase、 AC380V,50Hz
机械臂规格 Robot Arm Specifications	按实际要求定制 Customized to Meet Specific Requirements

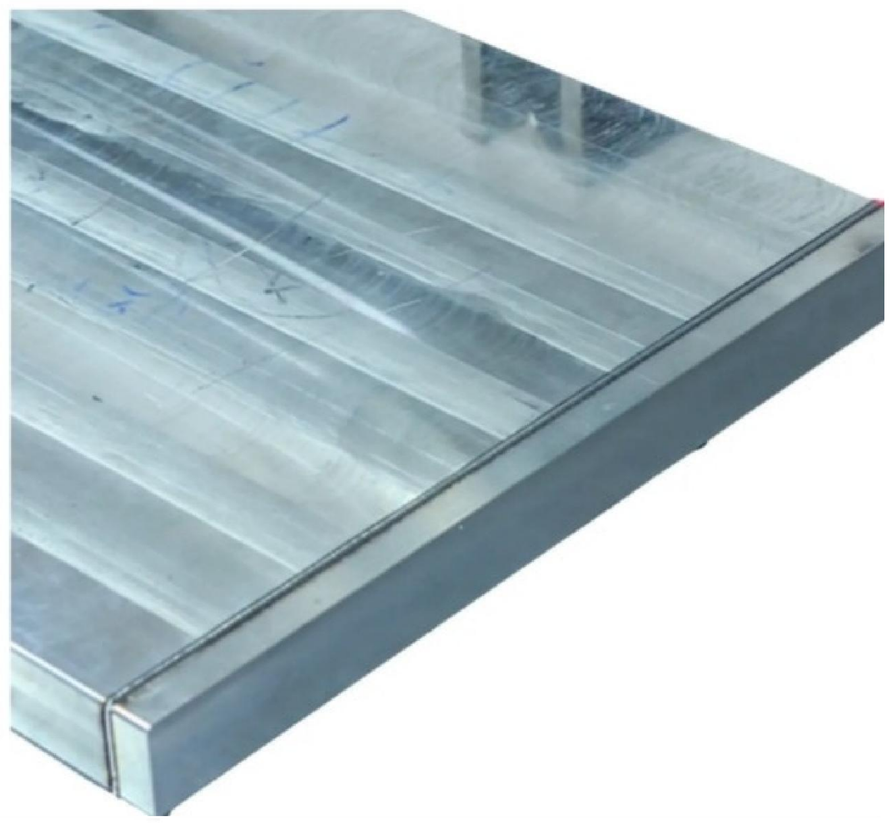
气密性焊接全系列
Complete Range of Hermetic Welding Solutions

铝气密机器人激光焊接机
Aluminum Airtight Robotic Laser Welding Machine

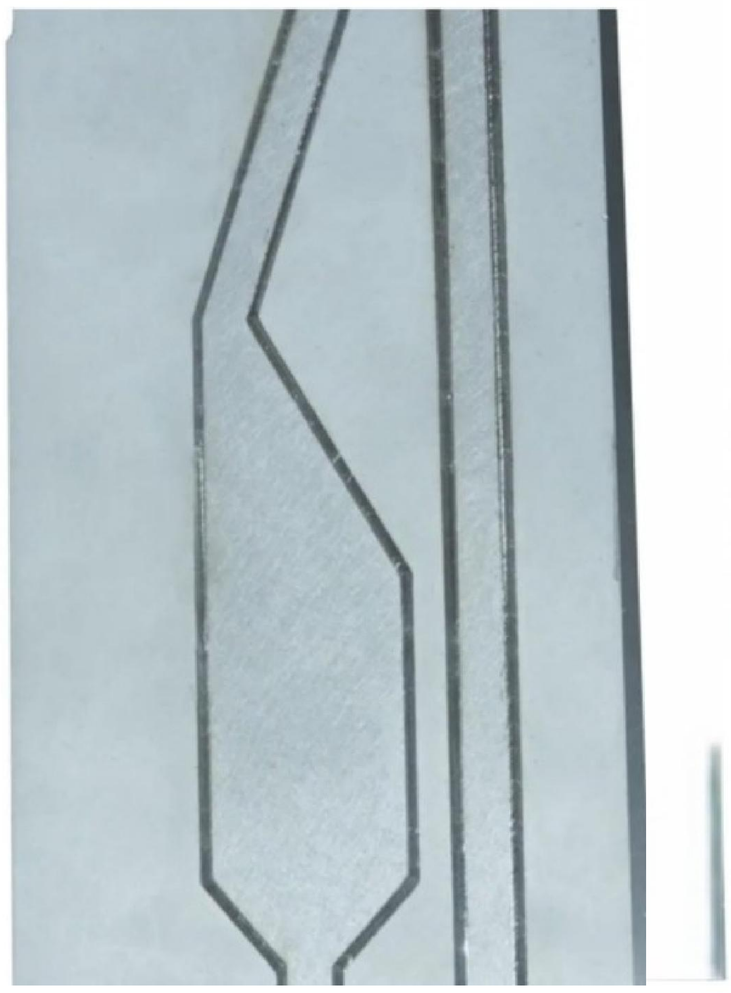
样品展示Sample Showcase

以工业机器人为载体，适用于大型铝合金气密件。可接驳变位机，实现复杂形状工件全自动焊接，覆盖1-7系铝合金

Robot-mounted for large aluminum airtight parts. Supports positioner for complex geometries. Covers 1-7 series alloys











气密性焊接全系列
Complete Range of Hermetic Welding Solutions

振镜激光焊接机
Galvanometer&Gantry Laser Welding Machine

振镜激光焊接机适用于电子、通信精密零件高速焊接。龙门架系列2000-6000W适用于大幅面工业焊接应用。
Galvanometer series for electronics & precision components; Gantry series 2000-6000W for large-format industrial welding.

产品参数Product Specifications

光纤激光器功率 Fiber Laser Power	1500W 3000W
激光波长 Laser wavelength	1080 ± 5nm
功率可调范围 Adjustable Power Range	10~100%
机床最大加工范围 Maximum Working Area	70mm*70mm-220mm*220mm
焊接速度 Welding Speed	300-2000mm/
整机平均功耗 Average Power Consumption	7.5kwh 14.5kw
电源要求 Power Requirements	AC220V,50Hz 三相three-phase、AC380V, 50Hz
整机柜体尺寸 Overall Machine Dimensions	L850xW1050xH2000mm(不含三色灯和悬臂高度) (excluding the stack light and cantilever height)

气密性焊接全系列
Complete Range of Hermetic Welding Solutions

振镜激光焊接机
Galvanometer & Gantry Laser Welding Machine

样品展示Sample Showcase

振镜激光焊接机适用于电子、通信精密零件高速焊接。龙门架系列2000-6000W 适用于大幅面工业焊接应用。

Galvanometer series for electronics&precision components; Gantry series 2000-6000W for large-format industrial welding.











视觉激光打标机
Vision Laser Marking Machine

光纤打标机(20-120W)、 紫外打标机(3-15W)、CO2 打标机(20-40W)， 适用于金属、非金属、塑料、陶瓷等多种材料表面处理与追溯码打印。

Fiber (20-120W), UV(3-15W), CO2(20-40W) marking machines for metal,non-metal, plastic, ceramic marking & traceability code printing.

产品参数Product Specifications

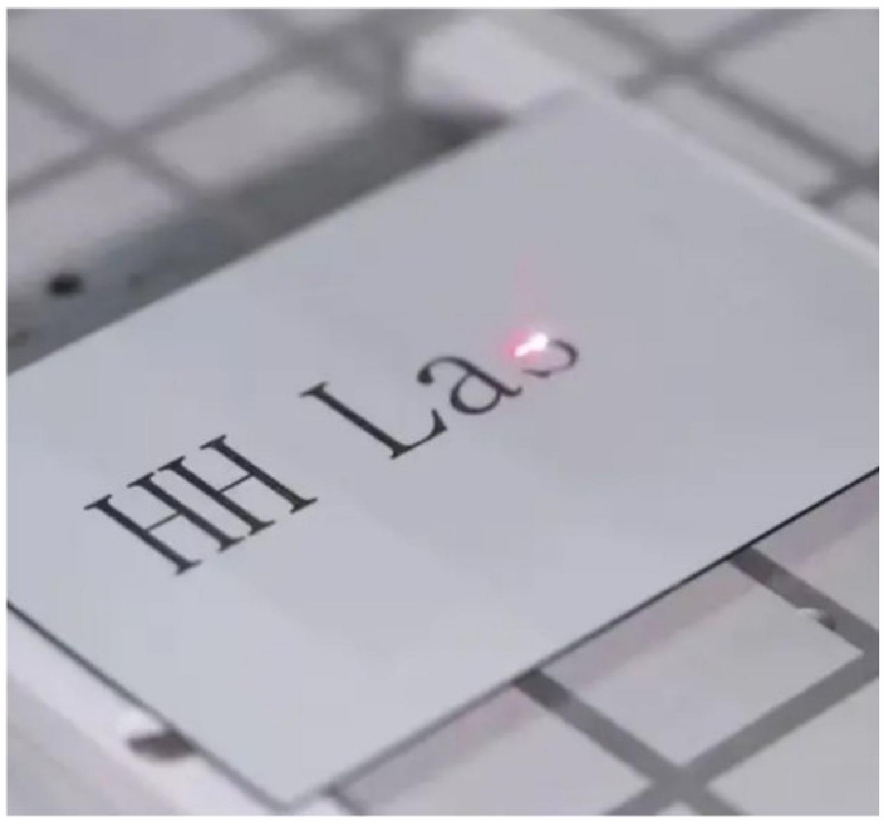
打标速度	Marking Speed	<7000mm/s
重复频率	Repetition Rate	1khz-200khz
最小字符	Minimum Character Size	0.2mm
定位精准	Precise Positioning	± 0.5mm
设备功率	Equipment Power	≤800W
电力需求	Power Requirements	200V/10A ± 5%
冷却方式	Cooling Method	风冷/Air cooling

视觉激光打标机
Vision Laser Marking Machine

样品展示Sample Showcase

光纤打标机(20-120W)、 紫外打标机(3-15W)、CO2打标机(20-40W),适用于金属、非金属、塑料、陶瓷等多种材料表面处理与追溯码打印。

Fiber (20-120W), UV(3-15W), CO2(20-40W) marking machines for metal, non-metal, plastic,ceramic marking & traceability code printing.









新能源汽车自动化与制冷 | Automation & Refrigeration

BOSCH
Invented for life

DAIKIN

SANHUA

DUnAn
SENSIN G

Valeo

Panasonic.

LUXSHAREICT

GEELY

SAIC

银轮股份
YINLUN CO.,LTD

COOLER MASTER

nVIDIA

HUAWEI

传感器、阀门及家电行业 · Sensors, Valves & Appliances

MITSUBISHI ELECTRIC
Changes for the Better

SAMSUNG

Panasonic.

GREE

Midea®

DAIKIN

前端研发合作高校 · R&D University Partners

1920 HIT

浙江大学 ZHEJIANG UNIVERSITY 1897

THE HONG KONG POLYTECHNIC UNIVERSITY 香港理工大學

COOPERATION PROCESS & CONTACT · 合作流程与联系方式

需求诊断 Needs Diagnosis

了解产品材质、尺寸、气密性指标及产能需求，提供初步工艺建议

Analyze your product materials, dimensions, hermeticity requirements, and production capacity to provide preliminary welding process recommendations.

免费打样 Free Sample Welding

提供样品焊接测试，出具焊接工艺评定报告(WPS)，直观验证效果

Provide sample welding tests and a Procedure Qualification Record (PQR) to directly verify the welding results.

方案设计 Solution Design

依据需求定制设备方案，提供3D 效果图及产能规划报告

Develop tailored equipment solutions based on your specific requirements, complete with 3D renderings and comprehensive production capacity planning reports.

设备制造Manufacturing

广东本地工厂标准生产，标准交期60-90天，支持加急

Manufactured at our factory in Guangdong under standardized production processes, with a standard lead time of 60–90 days. Expedited production is available upon request.

安装调试 Installation

工程师到厂安装、调试、工艺优化，提供操作人员专业培训

Our engineers provide on-site installation, commissioning, and welding process optimization, along with professional training for operators.

持续服务 Ongoing Support

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总部地址
Headquarters Address
广东省东莞市大岭山镇连环路39号B栋8楼
Floor 801, Building 2, No. 39 Lianhuan Road, Dalingshan Town, Dongguan, Guangdong, China

昆山分公司
Kunshan Branch
江苏省苏州市昆山市玉山镇北门路 1278号
No. 1278, Beimen Road, Yushan Town, Kunshan, Suzhou, Jiangsu, China

官方公众号
Official WeChat Account
抖音/微信搜索：当康激光
Search “Delighteos Laser” on Instagram, Douyin or WeChat

联系电话(微信同步) +86 13902482475 李先生 Mr.Li +86 13316630086姜先生 Mr.Jiang
Contact Number (Also Available on WeChat)



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公司：广东当康激光科技有限公司

地址：广东省东莞市大岭山镇连环路39号B栋8楼

Guangdong Delighteos Laser technology Co., Ltd.

Floor 801, Building B, No. 39 Lianhuan Road, Dalingshan Town,

Dongguan, Guangdong, China

www. delighteos.com