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智能激光解决方案

INTELLIGENCE LASER SOLUTION

光纤切割系列



东莞市合力激光设备有限公司

Dongguan City Heli Laser Equipment Co., Ltd

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鞍山合力激光设备有限公司

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服务电话：4006416888 网址：www.helilaser.com

激光设备制造领域先进制造技术的实践者
Practitioner of advanced manufacturing technology for laser equipment

一站式激光应用工艺解决方案的开拓者
Pioneer of one-stop laser application technology

客户利益的坚定守护者
Steadfast guardian of customer benefit

中国民族激光产业的支柱企业
Mainstay enterprise of China's national laser industry

高品质工业激光设备的大型专业制造商
Large professional manufacturer of high-quality industrial laser equipment

——合力激光——
——Hoolylaser——

合力旗下公司 (Hooly subsidiary):

- 东莞合力 (Dongguan city helilaser)
- 鞍山合力 (Anshan helilaser)
- 东莞力城智联 (Dongguan city leyend)
- 东莞优纳特 (Dongguan city unite)

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services for the first

客户为本 服务为先

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C 企业简介 Company Introduction

东莞市合力激光设备有限公司是一家专业从事激光技术应用开发的企业，也是国内较早致力于激光设备研发、生产、销售光、机、电一体化高新技术设备的现代化独资企业。公司位于国际制造业名城——广东省东莞市，依托珠三角发达的轻工机械、电子产品制造业的优势和人才优势，致力于高科技成果的转化和激光产业化发展。

合力激光现已拥有数千平米的生产基地，并在鞍山自主建起占地两万平方米的现代化的研发中心和实验室。公司拥有员工150余人，大专以上学历100余人，拥有多年激光设备开发制造经验的工程师30余人、教授职称技术顾问5人；现已成为国际大型激光设备制造企业。产品远销东亚、东南亚、欧洲、中东、北美等区域，经公司营销团队多年努力HOOLY品牌在国内，国际市场已拥有一定影响力。

东莞市合力激光有限公司是一家专业致力于切割创新自动化激光设备的研发，生产为一体的高新技术企业，在东莞市万江区开设了第三间分工厂，注册了力城智联，奥卡特，优纳特等多个品牌。

鞍山合力激光坐落在辽宁激光科技产业园，辽宁激光科技产业园位于鞍山高新区内，规划打造年销售收入1000亿元的国家级激光产业基地，辽宁激光科技产业园与哈工大（鞍山）工业技术研究院、华科大等科研院所深度合作，建立哈工大（鞍山）工业技术研究院、华科大国家激光工程研究中心，为成果转化和高端人才聚集提供平台；形成工业激光产业、纺织激光产业、创意激光产业及医疗激光产业。

公司以科技转化为核心竞争力，以振兴民族激光为经营目标，以厚于德、诚于信、敏于行为企业文化，采用国际化现代化的营销手段开拓市场。不懈努力争取成为现代化的民族激光航母。

Dongguan City Heli Laser Equipment Co., Ltd. is a professional enterprise engaged in the Laser Technology's Application and Development. Also is the earliest Modern enterprise who committed to develop produce and sale the laser equipment with High technology Which integrated the Optical, mechanical and electrical.

Hellilaser Company is located in the famous international manufacturing city—Dongguan city of Guangdong province, relying on the pearl river delta's advanced light industrial machinery, the advantages of the electronics product manufacturing industry and the advantages of the various talents. Hellilaser company devoted to trantages of the various talents. Hellilaser company devoted to transform the high-tech achievements and develop the Laser equipments industrialization.

Hellilaser company covers more than three thousands of square meters production space. Also Possess R&D center and laboratory which covers more than 20000 Square meters area. She has 150 staff, more than 100 staff with college degree or above, 30 engineer with many years of experience in develop and design the laser equipments. 5 professor title technical adviser.

Now Hellilaser company has developde as China's one of the large-scale international laser equipment factory. Their Products are exported to east Asia, southeast Asia, Europe, Middle East, North America and many other countries. With many years of hard work, HOOLY brand has got many customer's high praise and make a certain influence all over the world.

Dongguan Heli Laser Co., Ltd. is a high-tech enterprise specialized in research and development and production of innovative and automatic laser equipment. It has set up the third sub-factory in Dongguan Wanjiang District, registered the Legend, Oucut, Unite, and other brands.

Anshan Heli laser is located in Liaoning laser science and technology industrial park, Liaoning laser science and technology industrial park is located in anshan high-tech zone, planning makes the annual sales income is 100 billion yuan the national laser industry base, laser science and technology industrial park in liaoning university and Harbin University of technology, The Huazhong University of Science and Technology, such as scientific research institutes, set up Harbin University of technology (Anshan) of industrial technology research institute, The Huazhong University of Science and Technology research center, laser at hksut for achievements and high-eng talent gathered platform, forming industrial laser industry, textile industry, creative laser industry and medical laser industry.

Hellilaser Company view technology as the core competitiveness, view Revitalization of the nation's Laser technology

科技领先 铸就行业高端典范

Leading Technology Created a Model of High-end Industry

目前，公司已拥有多项发明和专利，荣获国家高新技术产品、中国制造网认证供应商、中国AAA级质量守信企业等多项称号。凭借持续不断的科技创新、精益求精的质量管理，我司已通过SGS、ISO9001质量控制体系，同时公司产品均已通过欧盟CE以及美国FDA认证。

At present, our company has a number of inventions and patents, won the National high-tech products, China manufacturing network certified suppliers, China AAA-quality and trustworthy enterprises with a number of titles. With the relentless scientific and technological innovation, better quality management, our company has passed SGS, ISO9001 quality control system, while the company's main products have passed the European Union CE and the US FDA certification.



合力激光·光纤切割系列 HOOPLY LASER·HL-F fiber laser cutting machine

|| 精诚合一，用心开创！
Sincere unity, starting with your heart!

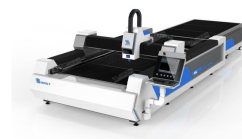
2513金属非金属混合切割机 2513 metal and nonmetal mixed laser cutting machine

本类机型器适用于钣金加工行业、广告装饰行业、工艺品行业、包装行业、刀模板行业、五金行业等。
Sheet metal processing industry, advertising decoration industry, handicraft industry, packaging industry, knife template industry, hardware industry, etc.



3015双平台光纤激光切割机 3015 double working platform fiber cutting machine

本类机型器适用于钣金加工行业、广告装饰行业、工艺品行业、包装行业、刀模板行业、五金行业等。
Sheet metal processing industry, advertising, decoration industry, handicraft industry, packaging industry, knife template industry, hardware industry, etc.



光纤激光切管机 Pipe Fiber laser cutting machine

应用于石油勘探、灯具、金属加工、五金加工等行业圆形钢管、方形钢管、椭圆形钢管、三角形钢管、六角形钢管、菱形钢管、八角形钢管、半圆形钢管等。
Squick Laser for a variety of cutting the pipe shape puzzle on the market designed to meet the most shape pipe processing needs. Used in petroleum exploration, lamps, metal processing, metal processing industries round tubing square tubing, oval tubing, triangular tubing, hexagonal tubing, diamond tubing, octagonal tubing, semicircular tubing round and so on.



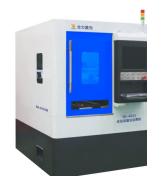
3015大包围交换平台 3015 large surrounding exchange platform

可切割多种金属板材、管材。主要适用于不锈钢、碳钢、锰钢、镀锌板、各种合金板、稀有金属等材质的快速切割。
Applicable to fast cutting on plate or tube in meta, mainly for cutting on SS, carbon steel, Manganese steel, galvanized plate, alloy plate, rare metal.



全自动激光切割机 Full automatic laser cutting machine

本类机型器适用于切割钢板、不锈钢、铝合金、硬质合金、钛等多种硬度材料。
Sheet metal processing industry, steel, stainless steel, aluminum alloy, hard alloy, titanium and other kinds of hardness materials.



机械手三维光纤切割机 Robot arm 3D fiber laser cutting machine

本类机型器适用于不锈钢、碳钢、合金钢、硅钢、钛合金等金属材料三维切割。
This product is suitable for cutting stainless steel plate, stainless steel, galvanized sheet, carbon steel, electrolytic plate, silicon steel, aluminum and alloy sheet metal.



2513金属非金属混合切割机
2513 metal and nonmetal mixed laser cutting machine



扫码观看视频

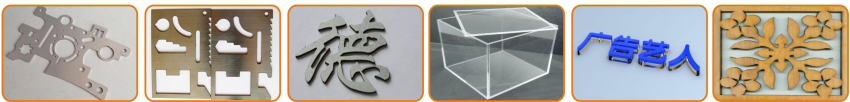


产品应用
Product application

- 本类机型机器适用于钣金加工行业、广告装饰行业、工艺品行业、包装行业、刀模板行业、五金行业等
Sheet metal processing industry, advertising decoration industry, handicraft industry, packaging industry, knife template industry, hardware industry, etc.

适用材料
Applicable Materials

- 本品适用于各类铁板以及钢板不锈钢等金属材料制品、亚克力等非金属材料。
This product is suitable for all kinds of iron and steel stainless steel metal materials such as wood, acrylic and other non-metal materials.



性能指标参数
Technical Specification

产品型号/Machine model	HL-2513P
激光波长/Laser wavelength	CO ₂ :10640nm Fiber:1064nm
激光类型/Laser type	CO ₂ 激光器和光纤激光器/Co ₂ laser tube and Fiber laser machine
激光功率/Laser power	CO ₂ :200W Fiber: 300、500W、1000W
雕刻面积/Engraving area	2500*1300mm
雕刻速度/Engraving speed	0-1500mm/s
切割速度/Cutting speeds	0-800mm/s
重复精度/Repeating locating	±0.05mm
运动系统/Moving system	CNC控制系统/CNC control system
工作电压/Working voltage	Ac220±10% 50HZ
整机功率/Whole power	4500W
工作温度/Operating temperature	5%-95%
控制软件/Controlling software	正版合力激光软件/Original helilaser software
支持格式/Graphic format supported	BMP PLT AI DXF DST
外形尺寸/Size	3000*1800*1150mm
整机重量/Gross weight	2.8T

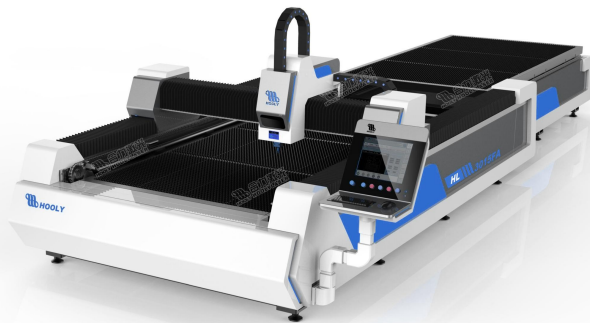
产品特点
Product features

- 精度高，性能稳定，速度快
- 多功能型激光切割机床，采用光纤激光器和CO₂激光器集成的方式而设计制造，改变了以前光纤激光切割机只能切割金属的历史
- 15mm厚钢板焊接，并进行龙门铣加工，加工面厚度达到40mm，又进行热处理加工，保障机械20年不变形，从而实现机械的稳定运行
- 机器配备了知名品牌光纤激光器，有着速度快、切口细、不挂渣的优势
- 可以切割不锈钢、碳钢、亚克力、木板等材料，是广告装饰、五金加工、钣金制作、工艺礼品等行业的最佳使用设备
- High precision, stable performance, fast speed
- Multi-function laser cutting machine, adopting fiber laser and CO₂ laser integrated design and manufacture, changes the history of fiber laser cutting machine can only cut metal.
- 15mm thick steel plate welding, and gantry milling processing, the processing surface thickness of 40mm. And with heat treatment processing, guarantee the machinery without deformation for 20 years, in order to achieve stable operation of machinery
- The machine is equipped with well-known brand fiber laser, has fast speed, thin incision, do not adhering slag advantages.
- Can cut stainless steel, carbon steel, acrylic, wood and other materials, advertising decoration, metal processing, is sheet metal production, gifts and other industries' best choice of equipment.

3015双平台光纤激光切割机 3015 double working platform fiber cutting machine



扫码观看视频



产品应用 Product application

- 本类机型适用于钣金加工行业、广告装饰行业、工艺品行业、包装行业、刀模板行业、五金行业等。
- Sheet metal processing industry, advertising, decoration industry, handicraft industry, packaging industry, knife template industry, hardware industry, etc.

适用材料 Applicable Materials

- 本品适用于不锈钢板、不锈钢、镀锌板、碳钢、电解板、硅钢、铝及合金等金属板材进行切割
- This product is suitable for cutting stainless steel plate, stainless steel, galvanized sheet, carbon steel, electrolytic plate, silicon steel, aluminum and alloy sheet metal.



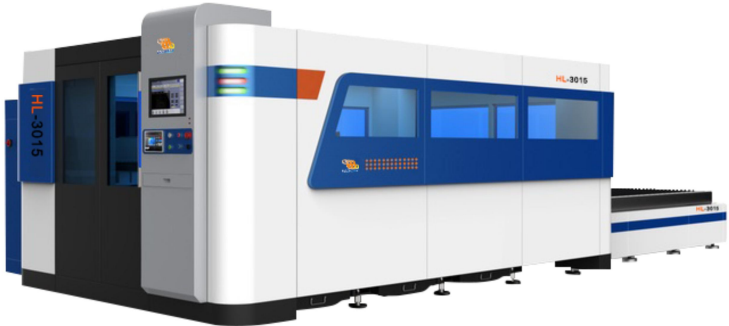
性能指标参数 Technical Specification

产品型号/Machine model	HL-3015FA
激光发生器/Laser generator	光纤激光器/Fiber laser tube
激光波长/Laser wavelength	Fiber:1064nm
激光功率/Laser power	500W/800W/1000W/2000W3000W/4000W
切割行程/Cutting stroke	3000*1500mm
切割速度/Cutting speeds	视材料及厚度而定
重复定位精度/Repeated position accuracy	±0.05mm
切割厚度/Cutting thickness	最大碳钢6mm/8mm/12mm/20mm/30mm/40mm
整机功率/Whole power	55KW/8.5KW
工作电压/Working voltage	AV380V±10%50HZ/60HZ/60A

产品特点 Product features

- 激光切割速度快变形小、精度高
- 龙门双驱结构
- 床身经有限元优化分析，并经过退火与震动时效处理，可保证原生态没人动态切割性能与高速高精的切割。
- CNC数控系统采用优化算法，光机电一体化设计，从根本上保证了切割性能
- 功能强大的软件，操作简单，自动编程。支持DXF、PLT等图形格式，兼容性强
- 自主研发的双交换平台设计，大大节省了上下料时间，提高了客户加工效率。
- 可选配自动上料机，组成板材切割柔性加工系统
- High laser cutting speed, small deformation and high precision
- Gantry double drive structure
- Lathe is optimally analysed by finite element, annealing and vibration aning treatment. Can guarantee its high speed and high precision of cutting.
- CNC numerical control system based on optimization algorithm, opto-mechatronics design, radically gurantee the cutting performance
- Powerful software, simple operation, automatic programming supports dxf, plt and other graphic formats, compatibility strong
- Independent research and development of the double-exchange platform design, greatly reducing the loading and unloading time, improve customer processing efficiency.
- Optional automatic feeding machine, consisting of sheet metal cutting flexible manufacturing system

3015全包围双平台互换光纤激光切割机
3015 large surrounding exchange platform



产品应用
Product application

- 广泛应用于：厨房电器、钣金机箱机柜、机械设备、电器设备、灯饰五金、广告招牌、骑车配件、展示器材、各种金属制品、钣金切割加工等行业。
Widely used in kitchen appliance,electric control box,high-reesolute device,mechaical equipment,electrical equipment,lighting,posters,auto parts,display equipment hardware and metal processing

适用材料
Applicable Materials

- 可切割多种金属板材、管材。主要适用于不锈钢、碳钢、锰钢、镀锌板、各种合金板、稀有金属等材质的快速切割；
Applicable to fast cutting on plate or tube in meta,mainly for cutting on SS,carbon steel,Manganese steel,galvanized plate,alloy plate,rare metal.



性能指标参数
Technical Specification

Table with 3 columns: Product Model/Machine model, HL-3015, and specifications. Rows include laser power, cutting area, axis strokes, speeds, accuracy, material thickness, control system, transmission mode, cooling type, power consumption, and dimensions.

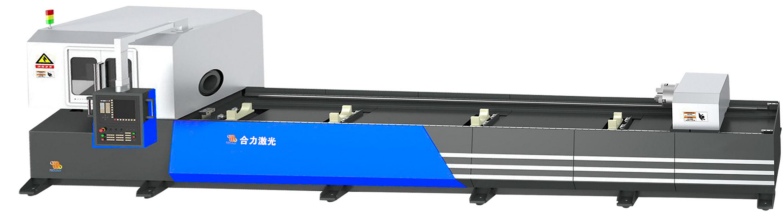
产品特点
Product features

- 光纤激光切割速度快，运行与维护成本低，操作简单易学
该机床采用动龙门式结构，齿轮齿条及直线导轨，传动平稳，精度高
机床与横梁经过高温，精密龙门铣，可保持高强度、高精度、长年工作不变形
x、y、z轴均采用进口伺服电机，高精度、高速度、大扭矩、大惯量、性能稳定耐用，保证了整机的高速度及加速性
采用基于windows操作系统的光纤激光切割机专用数控系统，集成了激光切割控制专用功能模块，功能强大，人机界面好，操作简单
Fiber laser cutting with high cutting speed, low operating and maintenance costs, easy to operation
The machine adopts moving gantry structure, gear rack and linear guide, smooth transmission, high precision
The machine tool and the cross beam through the high temperature and the precision gantry milling, can maintain the high intensity and accuracy, for long-term work does not distort
X, Y, Z axis are adopted imported servo motor, with high precision, high speed, high torque, high inertia, stable and durable performance, to ensure the machine's high speed and acceleration
Based on the windows operating system, fiber laser cutting machine dedicated CNC system, integrated laser cutting control dedicated function modules, powerful function, nice human-machine interface, simple operation

光纤激光切管机
Pipe Fiber laser cutting machine



扫码观看视频



产品应用
Product application

- 广泛应用于钣金加工、航天、航空、电子、电气、高铁及地铁配件、汽车零部件加工、粮食机械、纺织机械、工程机械、精密配件、轮船、冶金设备、电梯、家用电器、厨房用品、工具加工、装饰、广告等各种金属材料加工制造行业。
- Widely used in sheet metal processing, aerospace, aviation, electronics, electrical, high-speed rail and metro accessories, auto parts processing, food machinery, textile machinery, engineering machinery, precision parts, ships, metallurgy equipment, Elevator, home appliances, kitchen supplies, tools, processing, decoration, advertising and other metal materials processing and manufacturing industries.

适用材料
Applicable Materials

- 可有效切割20-180mm (可根据客户需求尺寸定制) 外径的圆管、方管、矩形管、椭圆管、腰圆管、六边形管、角铁、槽钢、工字钢、D型管等多种金属 (0.3mm-10mm碳钢、0.3mm-8mm不锈钢、0.3mm-6mm铝合金等) 样式管材
- Can effectively cut 20-180 - mm (can customize according to customer needs size) diameter of circular pipe, square tube, rectangular tube, oval tube, waist circular tube and hexagon pipe, Angle steel, channel steel, i-steel, D type pipe and other metal(0.3mm -10mm carbon steel, 0.3mm-8mm stainless steel, 0.3mm-6mm aluminum alloy) of The style of tubing.

性能指标参数
Technical Specification

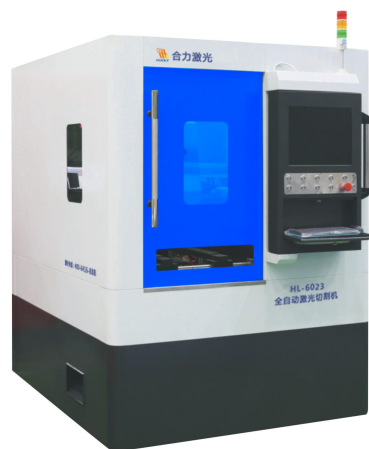
产品型号/Machine model	HL-6020R
激光器类型/Laser types	光纤激光器/ Fiber Laser
激光功率/Laser power	500W/1000W/1500W
激光波长/Laser wavelength	Fiber:1064nm
最大管长/Max tube length	6M
控制系统/Control system	管材加工专用/Special system for tube workpiece
驱动系统/Driving system	伺服电机/Servo motor
传动系统/Moving system	丝杆传动/High precision ball screw moving system
进给速度/Feeding speed	400mm/s
旋转轴速度/rotation axis speed	450R/min
激光功率/Laser power(standard optional)	500W/1KW-2KW
最大管径/Max tube diameter	120mm
重复定位精度/Repeat positioning accuracy(mm)	0.1mm/m
加工加速度/Cutting acceleration	0-2000mm/s ²
加工速度/Cutting speed	0-300mm/s
总功率(千瓦)/Total power(KW)	4.5kw/9kw/11kw
进给长度/Feeding length	≤5.5m
整机重量/Gross weight	4.5T



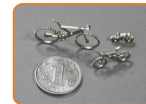
产品特点
Product features

- 采用管材加工的专业控制系统，在调整运动条件下保证加工精度，生产效率高，加工精度高
- 标配500W光纤激光器，选配1000W-2000W的IPG光纤激光器，运行和维护成本低。
- 采用开放式结构，接近性好，方便上下料操作。配有收料车，让收料更方便
- 针对高速运动要求，设计和制造加强焊接型床身，两次实效处理，确保床体长期运行的精度和稳定性
- 标配三气源双压气路控制系统（高压空气、氮气、氧气），满足客户对各种材料的加工需求，操作简单，成本更低
- 优化的光学镜片，特殊设计的喷嘴和传感器技术，使切割更流畅，更稳定
- Adopting pipe processing professional control system, in the adjustment of movement conditions to ensure processing accuracy, with high production efficiency and high precision machining.
- Standard equip 500W fiber laser, optional 1000W-2000W IPG fiber laser, low cost of operation and maintenance.
- Open structure, good proximity, convenient loading and unloading operation. With a receiving vehicle, so that the collection is more convenient
- For high-speed movement requirements, design and manufacture to strengthen the welded bed, two effective treatment to ensure the bed of long-term operation of the accuracy and stability
- Standard equip three-source dual-pressure air control system (high-pressure air, nitrogen, oxygen), to meet customer demand for processing of various materials, easy control and low cost
- Optimized optics, specially designed nozzle and sensor technology, for much smoother and stable cutting performance.

全自动激光切割机 Full automatic laser cutting machine



扫码观看视频



性能指标参数 Technical Specification

机型/Model	HL-6023
激光波长/Laser wavelength	Fiber:1064nm
加工幅面(长x宽) Processing area(LxW)	600mmX230mm
X轴行程/X axis track	230mm
Y轴行程/Y axis track	600mm
Z轴行程/Z axis track	120mm
X,Y,Z轴重复定位精度	±0.01mm
X,Y最大定位速度	30m/min
最大加速度/axis max acceleration	0.5G
机床重量/Weight of machine tool	1.2T
外形尺寸(长x宽x高) Dimension(LxWxH)	1760mmX1460mmX1900mm

产品特点 Product features

- 能在平板上切割各种图形
- 精度高、速度快、割缝小，热影响区小，切割面光滑无毛刺
- 全自动送料，卸料，节省工时
- 可以切割钢板、不锈钢、铝合金、硬质合金、钛等多种硬度材料
- Can cut all kinds of graphics on the plate material
- High precision,fast speed,small slot,small heat addected zone,the cutting surface is smooth without burr
- Automatic feeding,discharging,saving time
- Can cut steel,stainless steel,aluminum alloy,hard alloy,titanium and other kinds of hardness materials

产品应用 Product application

- 广泛应用于眼镜行业、工艺礼品、五金配饰、电子、电器等各种精密金属制品行业。
- Widely used in the eyeglasses industry, craft gifts, hardware accessories, electronics, electrical appliances and other precision metal products industry.

适用材料 Applicable Materials

- 主要适用于碳钢板、不锈钢板、薄镀锌板、薄铝板、薄铜板等各种金属材料非接触快速切割、镂空和打孔加工。
- It is mainly used for carbon steel plate, stainless steel plate, thin galvanized sheet, thin aluminum plate, thin copper plate and other kinds of metal materials not contact fast cutting, hollow-out and drilling.

机械手三维光纤切割机
Robot arm 3D fiber laser cutting machine



扫码观看视频

产品应用
Product application

- 广泛应用于汽车制造、模具制造、医疗器械、五金、装饰、金属对外加工服务等各种制造行业。
- Sheet metal processing industry,advertising,decoration industry,handicraft industry,packaging industry,knife template industry,hardware industry,etc

适用材料
Applicable Materials

- 适用于不锈钢、碳钢、合金钢、硅钢、钛合金等金属材料的三维切割。
- This product is suitable for cutting stainless steel plate, stainless steel, galvanized sheet, carbon steel, electrolytic plate, silicon steel, aluminum and alloy sheet metal.



性能指标参数
Technical Specification

机型/Model	HL-2400D
加工半径	1550m
激光器功率	200-3000w
几何定位精度	0.1mm/m
重复定位精度	0.05mm
数控系统	PLC
机械手臂持重	16kg
电力配置	380V/50HZ
最大切割厚度	0.5-3.0mm
波长	1064nm
冷却方式	风冷/水冷

产品特点
Product features

- 尖端光纤激光技术与数字控制技术完美融合，代表着最先进的激光切割水平；
- 专业的激光切割机控制系统，电脑操作，能够保证切割质量，使切割工作更方便，操作更为简单；
- 配置进口ABB智能机械手，可实现三维立体切割，操控方便，智能化程度高。保证设备的高速度、高精度、高可靠性；
- 激光切割头配置进口激光切割头，反应灵敏、准确，与机械手有效配合，避免切割头与加工板材碰撞，并能保证切割焦点位置，保证切割质量稳定；
- 激光切割头可承受1.0Mpa气体压力，高压气路设备，提高了对不锈钢等难制材料的切割能力。
- Cutting-edge optical fiber laser technology integrates with digital control technology, which represents the most advanced laser cutting level.
- The professional laser cutting machine control system, computer operation, can guarantee the cutting quality, make the cutting work more convenient, the operation is simpler;
- Equipped with ABB intelligent manipulator, it can realize three-dimensional cutting, easy to operate and intelligent. Ensure high speed, high accuracy and high reliability of equipment;
- Laser cutting head configuration import laser cutting head, responsive and accurate, and effective cooperation with manipulator, avoid cutting head and processing plate collision, and can ensure the cutting focus position, ensure the quality of cutting stability;
- The laser cutting head can withstand the 1.0Mpa gas pressure, high-pressure gas circuit equipment, and improve the cutting ability of the stainless steel and other difficult cutting materials.

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Transmission System



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柏楚数控系统
Cypcut CNC Control System



光纤切割头
Fiber Laser Head



自动打油系统
Auto Oiling System



激光器
Laser Generator



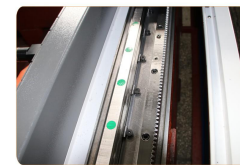
双温双控冷水机
Dual-temp and dual-control Water Chiller



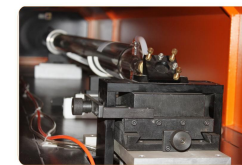
伺服电机
Servo Motor



机架
Machine Frame



直线导轨
Linear Guideway+YYC Rack Drive



Co2激光器
Co2 Laser Tube