



Quality changes the world, Service creates the value!

## 安徽润邦重工机械有限公司

ANHUI RUNBANG HEAVY INDUSTRY MACHINERY CO.,LTD

地址：安徽省马鞍山市博望区

电话：+86 0553-4816998

邮编：243141

邮箱：rbzg@rbqlty.com

网址：www.rbqlty.com

Add: Bowang area, Ma'anshan city, Anhui, China

Tel:+86 0553-4816998

Zip code: 243141

E-mail:rbzg@rbqlty.com

Website:www.rbqlty.com



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—润邦重工—



TDF FLANGE FORMING MACHINE  
DUCT MANUFACTURING LINE  
PITTSBURGH LOCK MACHINE  
HYDRAULIC IRON WORKER  
SHEARING MACHINE  
PUNCH MACHINE  
PRESS BRAKE

**CONCENTRATES ON THE RESEARCH**  
development, manufacture, sale and service

## 安徽润邦重工机械有限公司

ANHUI RUNBANG HEAVY INDUSTRY MACHINERY CO.,LTD

# ABOUT RUNBANG

关于·润邦重工 RUNBANG

秉承“专注，专业，创新，卓越”的发展理念，  
致力于为全球客户提供“智能化，自动化，信息化”钣金机械加工解决方案。

Rbqly®  
—润邦重工—



**ANHUI RUNBANG HEAVY INDUSTRY MACHINERY CO.,LTD** is the modern enterprise which concentrates on the research, development, manufacture, sale and service in the entire metal plate equipment area. There is an technical team which is educated, young and professional devoted themselves to the research and development of shearing, bending, plane and punching. We provide you the most close and reasonable sheet metal processing scheme, meanwhile we can also satisfy you with your customized orders.

The products are widely used in aviation, metallurgy, shipbuilding, automobile, engineering machinery, bridge, petroleum and other professional production fields, and exported to EU, South America, Africa, Southeast Asia, Middle East, etc.

We are highly honored to cooperate & develop with international partners by the scientific management, excellent quality, novel design, reasonable price and perfect service. Advanced technology and modernized management is our goal, which allows us in the forefront of the industry. Sincerely looking forward to develop with you together!

We are sincerely looking for the global agents. Choose Runbang, choose success!!

**Our Business Philosophy:** Quality changes the world, Service creates the value!

## 产品应用范围 · PRODUCT APPLICATION

**安徽润邦重工机械有限公司**是专注于金属钣金全套设备研发、制造、销售、服务为一体的现代化企业，公司拥有一批知识化、专业化、年轻化的技术团队致力于剪、折、刨、冲的开发研究，为用户提供最为贴心、合理的钣金加工方案，同时可满足用户的特殊订单要求。

公司产品广泛用于航天航空、船舶汽车、钢铁冶金、工程机械、桥梁石油等诸多领域，用户遍及东南亚、中东、欧盟、南非、南美等地区。

公司秉承科学的管理方法，立足于产品的质量管理，以其优秀的品质，新颖的设计，合理的价格，完善的服务谋求与国际合作伙伴的长远合作以及共同发展。公司全体员工以先进的技术和现代化的管理手段为追求产品的完美不懈努力，使公司始终走在同行业的前列。我们真诚地愿与各界朋友携手并进，共同发展。

我们诚招全球代理商。选择润邦 -- 选择成功!!

我们的经营理念：**品质改变世界、服务创造价值!**





# PROCESSING EQUIPMENT

加工设备 · PROCESSING EQUIPMENT

“工欲善其事，必先利其器”  
企业一流的生产设备，严密的生产组织管理体系  
将各生产资源进行优化配置  
使我们高端的生产设备物尽其事，使我们的产品质量更加完善……

## 精工细作 · 标准化生产

精良的装备和专业化制造，为润邦重工新产品的规模化增长和品质保证提供了强有力的保障，润邦现有多个专业产品安装调试车间和精密件加工车间，拥有数控龙门铣床、大型数控镗床、数控卧式加工中心等关键设备若干台。

Sophisticated equipment and professional manufacturing, provides a strong guarantee for the growth of heavy industry scale new products and quality assurance, workshop and precision parts processing workshop there are professional product installation and debugging, with Longmen CNC milling machine, large CNC boring machine, CNC horizontal machining center and other key equipment from Taiwan.



## 以质为本 · 精益求精

质量是产品的“生命”，企业在“做大”的同时，必须“做精、做强”，润邦重工对产品质量不满足于既定的控制指标，坚持“没有最好，只有更好”的信念，让产品精中求精。

Quality is the life of products! The bigger the enterprise is, the stronger and finer it should be! RUNBANG HEAVY INDUSTRY is not just satisfied with the established control indexes, but insists on the belief of "NO BEST, BUT BETTER". NEVER STOP!



## 激光切割原理

利用激光将材料快速汽化，用同轴辅助气体将汽化熔渣吹离的过程。  
利用数控系统精细控制，切割单元移动而产生需要的工件。

### PRINCIPLE OF LASER CUTTING

It is a process which using the laser to vaporize the material rapidly and using coaxial auxiliary gas to blow off the vaporized slag. With the control of CNC system, machine makes the required workpiece through cutting head moving.

## 影响力

光纤激光切割机是钣金加工的一次工艺革命，是钣金加工中的“加工中心”；光纤激光切割机柔性化水平高，切割速度快，切割效率高，为客户博得了普遍的市场，激光切割机无切削力，加工无变形；无刀具磨损，材料顺应性好；不论是简单还是复杂零件，都能够用激光一次性精细快速成型切割；其切缝窄，切割面光滑无毛刺、自动化水平高，操作简单，劳动强度低，没有污染；可完成切割自动排样、套料。该技术的有效生命期长，未来30-40年将是激光加工技术拓展的黄金时期。

### Effects

Optical fiber laser cutting machine is a technology revolution, sheet metal processing is "processing center" in sheet metal processing; Optical fiber laser cutting machine flexibility level is high, the cutting speed, cutting efficiency is high, for the customer wins the general markets, laser cutting machine cutting force, surface machining deformation; No tool wear, fine material compliance; Both simple and complex parts, can use laser one-time fine rapid molding; Its narrow kerf width, the cutting face smooth without burr, high automation level, easy operation, low labor intensity, no pollution; Automatic layout can be finished cutting, nesting. The technology of effective life time is long, the next 30 to 40 years will be the golden age of laser processing technology development.

## 应用领域

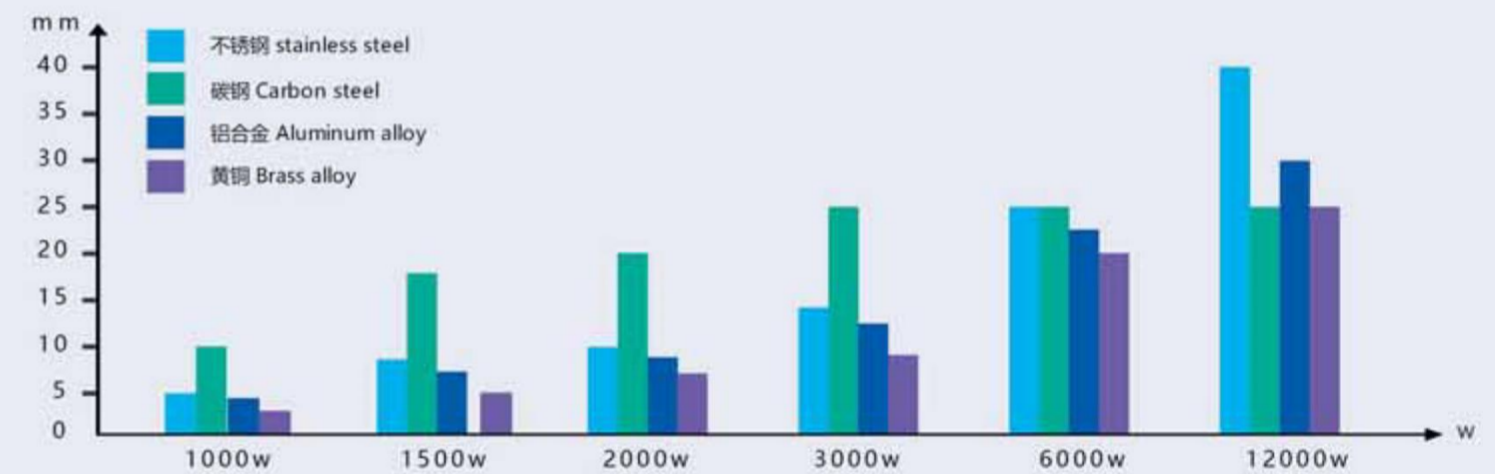
光纤激光切割机目前被广泛应用于钣金加工、冶金设备、电器设备、酒店厨房设备、展示器材、精密零件、五金制品、工艺礼品、工具加工、金属制品等各制造加工行业。可切割材料包括镀锌板、铝材、碳钢、不锈钢、铜等金属。

### APPLICATIONS

Optical fiber laser cutting machine is widely used in sheet metal processing, hotel kitchen equipment, metallurgical equipment, electrical equipment, display equipment, precision parts, metal products, craft gifts, tool processing, metal products and so on various manufacturing industries. Can cut materials including galvanized sheet, aluminum, carbon steel, stainless steel, copper and other metals.

## 加工能力

### PROCESSING CAPACITY



## 切割样品展示 CUTTING SAMPLE DISPLAY

<p>黄铜 (电子化工等) Brass (Electronics, chemicals, etc.)</p>	<p>碳钢中厚板 (汽车改装、轨道交通、矿山机械) Carbon steel plate (Car modification, rail transportation mining machinery, etc.)</p>	<p>铝合金板 (航空、专用车辆幕墙等) Aluminum alloy plate (Aviation, special vehicles, Wall, etc.)</p>	<p>碳钢薄板 (金属柜体、家用电器、农业机械等) Carbon steel sheet (Metal cabinets, Household electric appliances, Agricultural machinery, etc.)</p>
<p>不锈钢中厚板 (电力、锅炉、食品机械等) Stainless steel plate (electricity boilers, food machinery, etc.)</p>	<p>碳钢厚板 (工程机械、造船、桥梁等) Carbon steel slab (Mechanical engineering shipbuilding, bridges, etc.)</p>	<p>不锈钢薄板 (电梯、厨具、医疗器械等) Stainless steel sheet (elevators, kitchen utensils, medical equipment, etc.)</p>	<p>镀锌板 (造船、机场、机场等) Galvanized sheet (shipbuilding, airports, airports, etc.)</p>

# 金属激光切割机 Metal Laser Cutting Machine



## 性能特点

- RBJG型金属激光切割机采用高功率固体激光技术和功能强大、兼容性强的CNC控制软件、高性能的数控激光电源系统,具有以下优点:
- 1.采用品牌光纤激光核心技术,光学模式好,性能稳定。
- 2.光电转换效率高,是国产激光器的两倍。
- 3.激光器发热少,冷却只要5P冷水机,节约用电。
- 4.龙门式飞行光路设计,运行轻巧,比同行节约用电达40%。
- 5.切割过程只需吹压缩空气就能达到完美的切割效果,每年平均可节省数万元的氧气、氮气等辅助气体成本。
- 6.配备集中加油系统,使机床运行更加平稳。

## Features

- RBJG Metal Laser Cutting machine adopts high-power solid-state laser technology and powerful, compatible CNC control software and high-performance CNC laser power system. With the following advantages:
- 1.It adopts advanced branded optical fiber laser core technology, good optical mode, stable performance.
- 2.High efficiency of photoelectric conversion, twice of domestic laser source.
- 3.Low heat of laser source, only needing 5P water cooling machine, saving electricity.
- 4.The gantry type flying optical path design, light operation, saving about 40% electricity than competitors.
- 5.Achieve a perfect cutting effect by only blowing compressed air during processing, which can largely reduce costs of auxiliary gas such as Oxygen, Nitrogen about thousand dollars.
- 6.Equipped with centralized lubrication system to make the machine run more stable.

型号 Model	RB2513-500/750	RB3015-500/750	RB4015-500/750
激光器介质 Laser Media		Nd:YAG	
切割范围 (长*宽) Cutting Range (Long * Width)	2500mm*1250mm	3000mm*1500mm	4000mm*1500mm
最大切割速度 Max Cutting Speed	8米/分钟 (8m/min) (视材料而定) ( Depending on material )		
冷却方式 Cooling Mode	水冷 ( Water cooling )		
脉冲重复频率 Pulse Repetition Frequency	0-300Hz		
最小线宽 Minimum Line Width	0.12mm ( 500W ) /0.15mm ( 750W )		
切割材料厚度 Cutting Material Thickness	0.2-6mm ( 500W ) /0.2-8mm ( 750W ) (视材料而定) ( Depending on material )		
激光波长 Laser Wavelength	1064nm		
电力配置 Power Configuration	380V/50Hz/50A ( 500W ) /380V/50Hz/60A ( 750W )		
连续工作时间 Continuous Working Hours	24小时 24 hours		
机器重量 Machine Weight	约2500kg About 2500kg	约3000kg About 3000kg	约3500kg About 3500kg
外观尺寸 (长*宽*高) Appearance Size (Length * Width * Height)	3770mm*2280mm*1400mm	4270mm*2480mm*1400mm	5370mm*2480mm*1400mm



# CAST ALUMINUM BEAM 铸铝横梁



# STEEL LATHE BED, TWO TEMPERING PROCESS 钢板床身,两次回火加工



# OPTIONAL PARTSPARTS

## 部分高品质选配部件



### 锐科光纤激光发生器 / Raycus fiber laser generator

源于美国军方技术，采用激光光模块与激光电源离模式，方便客户售后维修。  
From the U.S. military technology, using laser module and laser power supply mode, convenient after-sale repair.



### 德国IPG光纤激光器 / Germany interpublic fiber laser

IPG光纤激光器具有工作波长范围广、单模和多模可选、高稳定性和泵浦二极管寿命长等特点。这些激光器为水冷式，可配备内置或独立水冷机。激光器可搭载多种光纤终端、准直光学元件和加工头。  
IPG fiber laser has the wide wavelength, single-mode and multimode optional, high stability and pumped diode characteristics of long service life. The laser for water-cooled, water-cooled machine can be equipped with a built-in or independently. Laser capable of carrying a variety of optical fiber terminals, collimating optics and processing.



### 瑞士Raytools激光切割头/Swiss Raytools laser cutting head

两点对中调节，调焦采用凸轮结构，可配各冲带QBH接头激光器。  
Two of the adjustment, focusing CAM structure, can match various QBH with laser.



### 日本shimpo减速机/shimpo reducer from Japan

精度高、扭转刚度、可靠性高、噪音低、长寿命、免维护。  
High precision, high torsional rigidity, high reliability, low noise, long life, maintenance free.



### 德国普雷斯特激光切割头/Germany Raytools laser cutting head

轻量化设计，自动连续调焦，可自动监测镜片内部压力、温度、污染情况。  
Lightweight design, automatic focusing in a row, can automatically monitor internal pressure, temperature, pollution of the lens.



### 柏楚激光切割系统 /BoChu laser cutting system

基于PC技术的开放式数控系统，最快的短线段处理能力，开放式NC内核。  
Open CNC system based on PC technology, the fastest short-term period of processing capacity, open NC kernel.

(可选配西门子切割系统/Optional Siemens cutting system)



### 日本富士或安川伺服驱动/Japan's Fuji or Yaskawa servo drive

高速性能好，抗过载能力强，能承受三位于额定转矩的负载，低速运行平稳，电机加速的动态响应及时。  
High speed performance is good, resistance to overload ability is strong, can bear the load of three in the rated torque, low speed running smoothly, the dynamic response of the motor speed in a timely manner.



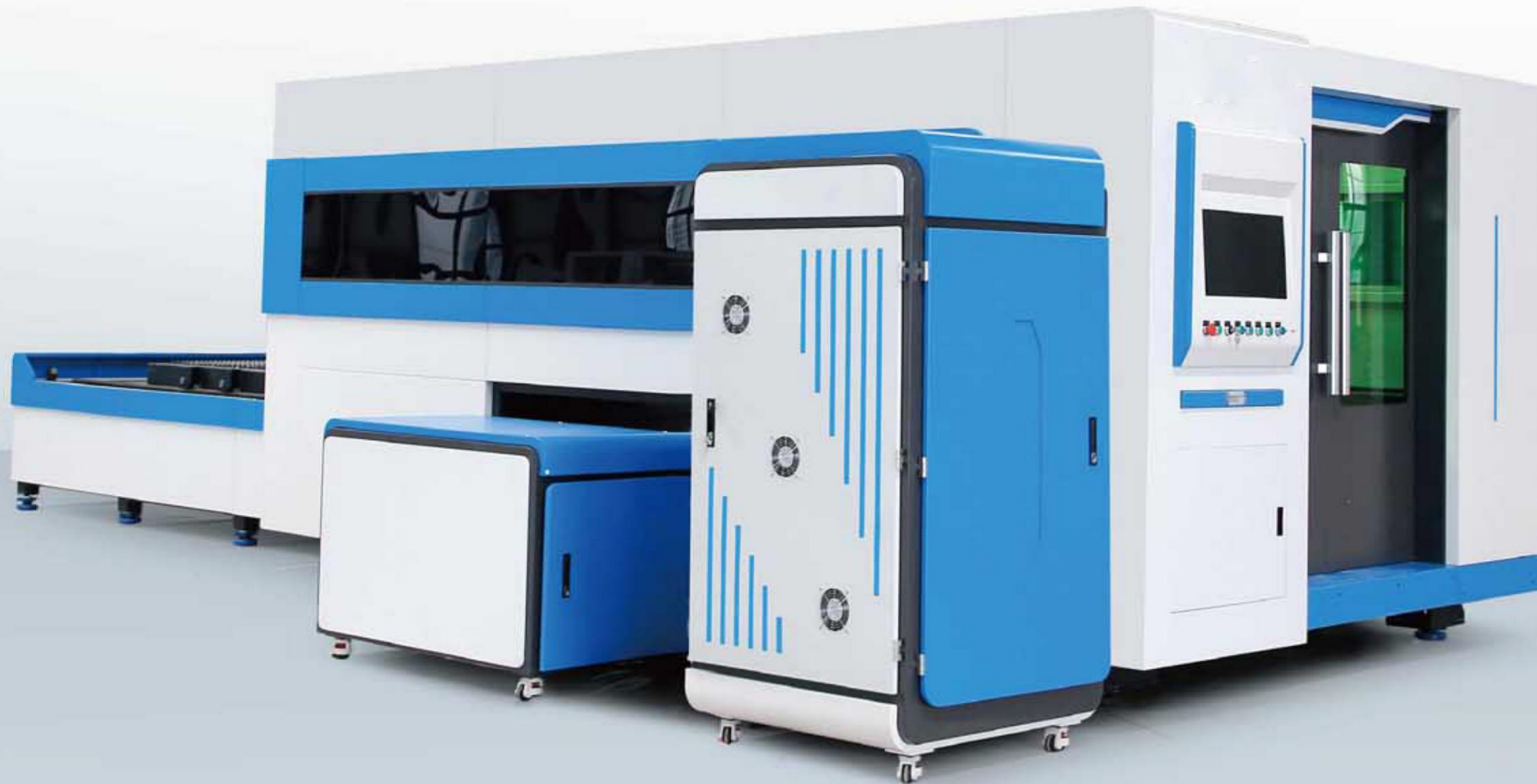
### 台湾上银直线导轨/Taiwan HIWIN linear guide

RGH-CA直线导轨，高刚性、高负荷承载、在相同负荷的要求下，相较于滚珠线轨有较小的体积，可均匀承受高扭力的能力。  
RGH - CA linear guide, high rigidity, high load bearing, under the same load requirements, compared with ball line rail has smaller volume, uniform can bear high torque capacity.

### 台湾YHC齿轮齿条/Taiwan YHC gear rack

# HL-3015B SERIES EXCHANGE WORKTABLE FIBER LASER CUTTING MACHINE

## 光纤交换台面大包围激光切割机



### 应用行业 Applicable industries

机械设备 | 零部件加工 | 汽车配件 | 航空航天  
 石油管道 | 电梯制造 | 钣金加工 | 工艺造型  
 Machinery equipment | Parts processing | Auto parts | Aero-Space  
 Aerospace | Oil pipeline | Elevator manufacturing | Sheet metal processing

### 样品展示 The samples show



### 产品特点:

焦光斑小,切割线条精细;  
 整机耗电量仅为同类CO<sub>2</sub>激光切割机的20-30%。可使用空气切割各类金属薄板;  
 简单友好的人机操作界面,模块化设计,自动识别主流绘图文件;  
 包围式设计,全封闭防护外里,全面提升工作环境洁净度、人员安全性,符合欧洲CE标准;  
 进口交流伺服驱动,进口全密封齿轮齿条传动,进口直线导轨导向;  
 龙门式结构,高阻尼床身,铝合金挤压成型横梁,能承受较高的速度及加速度;  
 采用现代工业领先的平台交换装置,可实现10秒内完成双平台互换;  
 标配IPG光纤激光发生器,使用寿命10万小时,基本免维护,激光切割头配置进口电容非接触式高度跟踪系统,保证切割焦点位置,避免与加工板材碰撞。

### Product features:

Small focal spot, cut fine lines;  
 The machine power consumption is only 20-30% of similar CO<sub>2</sub> laser cutting machine. Can use air cutting all kinds of sheet metal;  
 Simple and friendly man-machine control interface, modular design, automatic identification mainstream mapping file;  
 Surrounded by design. Closed outside the protection, improve the working environment cleanliness, personnel safety, operator European CE standards;  
 Imported ac servo drive, fully sealed gear rack driving, imported linear guide direction;  
 Gantry structure, high damping lathe bed, aluminum alloy extrusion buntion, can withstand the high velocity and acceleration;  
 With modern industry's leading platform switching device. Can achieve 10 seconds, double platform swaps;  
 Standard interpublic fiber laser generator, the service life of 100000 hours, basic maintenance free, non-contact laser cutting head configuration import capacitance height tracking system, guarantee the cutting focus position, avoid collisions with board processing.

### 产品参数 Product Parameter

产品型号 Product Model	RB-3015B	RB-6015B	RB-4020B	RB-6020B
最大加工范围 Working Area	3000*1500mm	6000*1500mm	4000*2000mm	6000*2000mm
激光器功率 Laser Power	500W、700W、1000W、1500W、2000W、3000W			
定位精度 Positioning Accuracy	±0.03mm/m			
重复定位精度 Repeated Positioning Accuracy	±0.02mm			
空程移动最大速度 Maxmum Moving Speed	100m/min			
最大切割速度 Maximum Cutting Speed	60m/min			
传动系统 Drive System	高精度齿轮齿条 Highprecision gear and rack + 高精度直线导轨, high precision linear guide rall			
设备电力需求 Voltage	380VAC±10%/50Hz			

# OPEN-TYPE DOUBLE-DRIVE FIBER LASER CUTTING MACHINE

## 敞开式双驱光纤激光切割机



### 应用行业 Applicable industries

厨具橱柜 | 门业加工 | 灯饰五金 | 机箱机柜  
广告标牌 | 电梯制造 | 钣金加工 | 家电产品

Kitchen cabinets | Door processing | Lighting hardware | Chassis cabinets  
Advertising signs | Elevator manufacturing | Sheet metal processing | Home appliances

### 样品展示 The samples show



### 产品特点:

焦光斑小,切割线条精细;  
整机耗电量仅为同类CO2激光切割机的20-30%。可使用空气切割各类金属薄板;  
简单友好的人机操作界面,模块化设计,自动识别主流绘图文件;  
包围式设计,全封闭防护外罩,全面提升工作环境洁净度、人员安全性,符合欧洲CE标准;  
进口交流伺服驱动,进口全密封齿轮齿条传动,进口直线导轨导向;  
龙门式结构,高阻尼床身,铝合金挤压成型横梁,能承受较高的速度及加速度;  
采用现代工业领先的平台交换装置,可实现10秒内完成双平台互换;  
标配IPG光纤激光发生器,使用寿命10万小时,基本免维护,激光切割头配置进口电容非接触式高度跟踪系统,保证切割焦点位置,避免与加工板材碰撞。

### Product features:

Small focal spot, cut fine lines;  
The machine power consumption is only 20-30% of similar CO2 laser cutting machine. Can use air cutting all kinds of sheet metal;  
Simple and friendly man-machine control interface, modular design, automatic identification mainstream mapping file;  
Surrounded by design. Closed outside the protection, improve the working environment cleanliness, personnel safety, operator European CE standards;  
Imported ac servo drive, fully sealed gear rack driving, imported linear guide direction;  
Gantry structure, high damping lathe bed, aluminum alloy extrusion buntion, can withstand the high velocity and acceleration;  
With modern industry's leading platform switching device. Can achieve 10 seconds, double platform swaps;  
Standard interpublic fiber laser generator, the service life of 100000 hours, basic maintenance free, non-contact laser cutting head configuration import capacitance height tracking system, guarantee the cutting focus position, avoid collisions with board processing.

### 产品参数 Product Parameter

产品型号 Product Model	RB-3015A	RB-6015A	RB-4020A	RB-6020A
最大加工范围 Working Area	3000*1500mm	6000*1500mm	4000*2000mm	6000*2000mm
激光器功率 Laser Power	500W、700W、1000W、1500W、2000W、3000W			
定位精度 Positioning Accuracy	±0.03mm/m			
重复定位精度 Repeated Positioning Accuracy	±0.02mm			
空程移动最大速度 Maxmum Moving Speed	100m/min			
最大切割速度 Maximum Cutting Speed	60m/min			
传动系统 Drive System	高精度齿轮齿条 Highprecision gear and racke + 高精度直线导轨, high precision linear guide rall			
设备电力需求 Voltage	380VAC±10%/50Hz			



# OPEN-TYPE DOUBLE-DRIVE FIBER LASER CUTTING MACHINE

## 敞开式双驱光纤激光切割机 (一体机)



### 应用行业 Applicable industries

厨具橱柜 | 门业加工 | 灯饰五金 | 机箱机柜  
 广告标牌 | 电梯制造 | 钣金加工 | 家电产品  
 Kitchen cabinets | Door processing | Lighting hardware | Chassis cabinets  
 Advertising signs | Elevator manufacturing | Sheet metal processing | Home appliances

### 样品展示 The samples show



### 产品特点:

焦光斑小,切割线条精细;  
 整机耗电量仅为同类CO<sub>2</sub>激光切割机的20-30%。可使用空气切割各类金属薄板;  
 简单友好的人机操作界面,模块化设计,自动识别主流绘图文件;  
 包围式设计,全封闭防护外里,全面提升工作环境洁净度、人员安全性,符合欧洲CE标准;  
 进口交流伺服驱动,进口全密封齿轮齿条传动,进口直线导轨导向;  
 龙门式结构,高阻尼床身,铝合金挤压成型横梁,能承受较高的速度及加速度;  
 采用现代工业领先的平台交换装置,可实现10秒内完成双平台互换;  
 标配IPG光纤激光发生器,使用寿命10万小时,基本免维护,激光切割头配置进口电容非接触式高度跟踪系统,保证切割焦点位置,避免与加工板材碰撞。

### Product features:

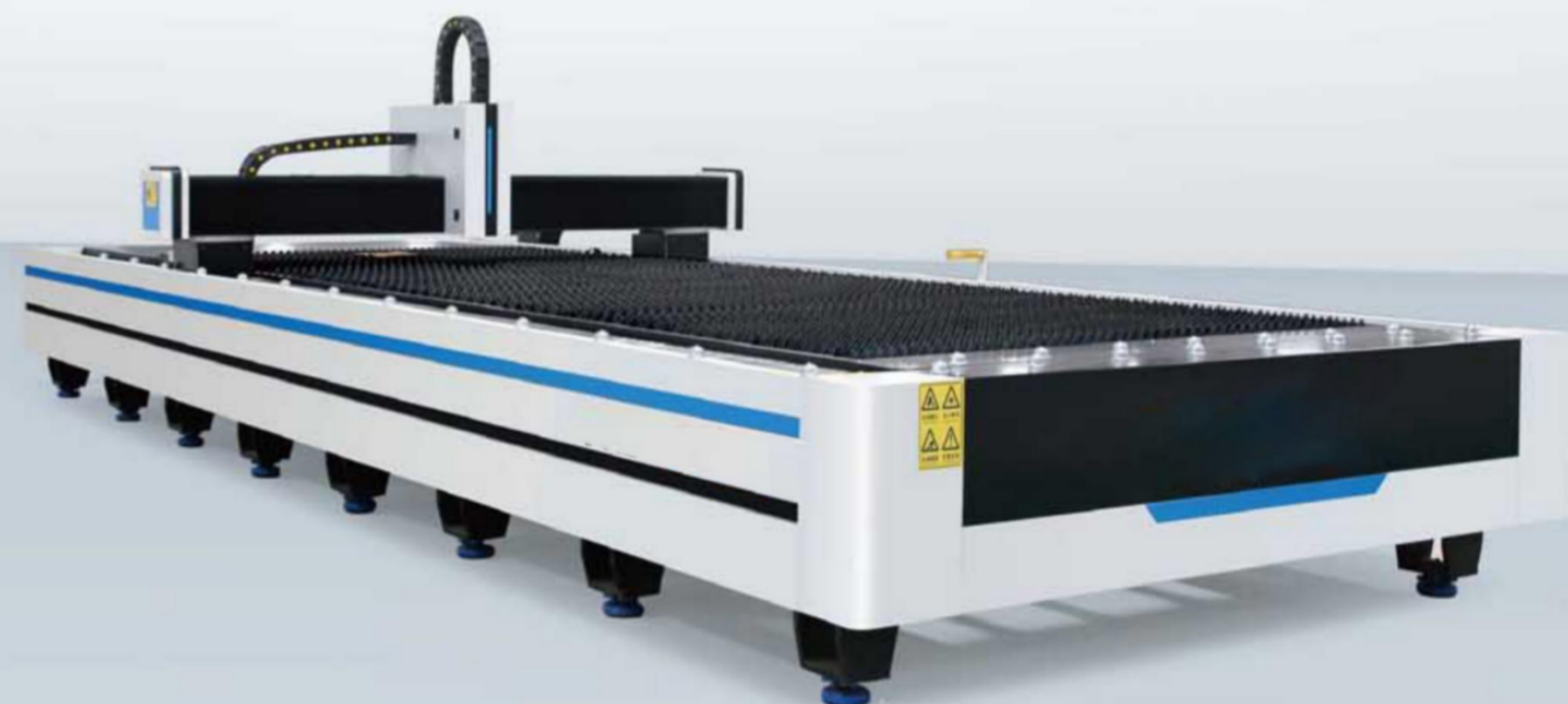
Small focal spot, cut fine lines;  
 The machine power consumption is only 20-30% of similar CO<sub>2</sub> laser cutting machine. Can use air cutting all kinds of sheet metal;  
 Simple and friendly man-machine control interface, modular design, automatic identification mainstream mapping file;  
 Surrounded by design. Closed outside the protection, improve the working environment cleanliness, personnel safety, operator European CE standards;  
 Imported ac servo drive, fully sealed gear rack driving, imported linear guide direction;  
 Gantry structure, high damping lathe bed, aluminum alloy extrusion buntun, can withstand the high velocity and acceleration;  
 With modern industry's leading platform switching device. Can achieve 10 seconds, double platform swaps;  
 Standard interpublic fiber laser generator, the service life of 100000 hours, basic maintenance free, non-contact laser cutting head configuration import capacitance height tracking system, guarantee the cutting focus position, avoid collisions with board processing.

### 产品参数 Product Parameter

产品型号 Product Model	RB-3015A	RB-6015A	RB-4020A	RB-6020A
最大加工范围 Working Area	3000*1500mm	6000*1500mm	4000*2000mm	6000*2000mm
激光器功率 Laser Power	500W、700W、1000W、1500W、2000W、3000W			
定位精度 Positioning Accuracy	±0.03mm/m			
重复定位精度 Repeated Positioning Accuracy	±0.02mm			
空程移动最大速度 Maxmum Moving Speed	100m/min			
最大切割速度 Maximum Cutting Speed	60m/min			
传动系统 Drive System	高精度齿轮齿条 Highprecision gear and racke + 高精度直线导轨, high precision linear guide rall			
设备电力需求 Voltage	380VAC±10%/50Hz (特殊要求可订制)			

# OPEN-TYPE DOUBLE-DRIVE FIBER LASER CUTTING MACHINE

## 敞开式双驱光纤激光切割机



### 产品特点:

焦光斑小,切割线条精细;  
 整机耗电量仅为同类CO2激光切割机的20-30%。可使用空气切割各类金属薄板;  
 简单友好的人机操控界面,模块化设计,自动识别主流绘图文件;  
 包围式设计,全封闭防护外罩,全面提升工作环境洁净度、人员安全性,符合欧洲CE标准;  
 进口交流伺服驱动,进口全密封齿轮齿条传动,进口直线导轨导向;  
 龙门式结构,高阻尼床身,铝合金挤压成型横梁,能承受较高的速度及加速度;  
 采用现代工业领先的平台交换装置,可实现10秒内完成双平台互换;  
 标配IPG光纤激光发生器,使用寿命10万小时,基本免维护,激光切割头配置进口电容非接触式高度跟踪系统,保证切割焦点位置,避免与加工板材碰撞。

### Product features:

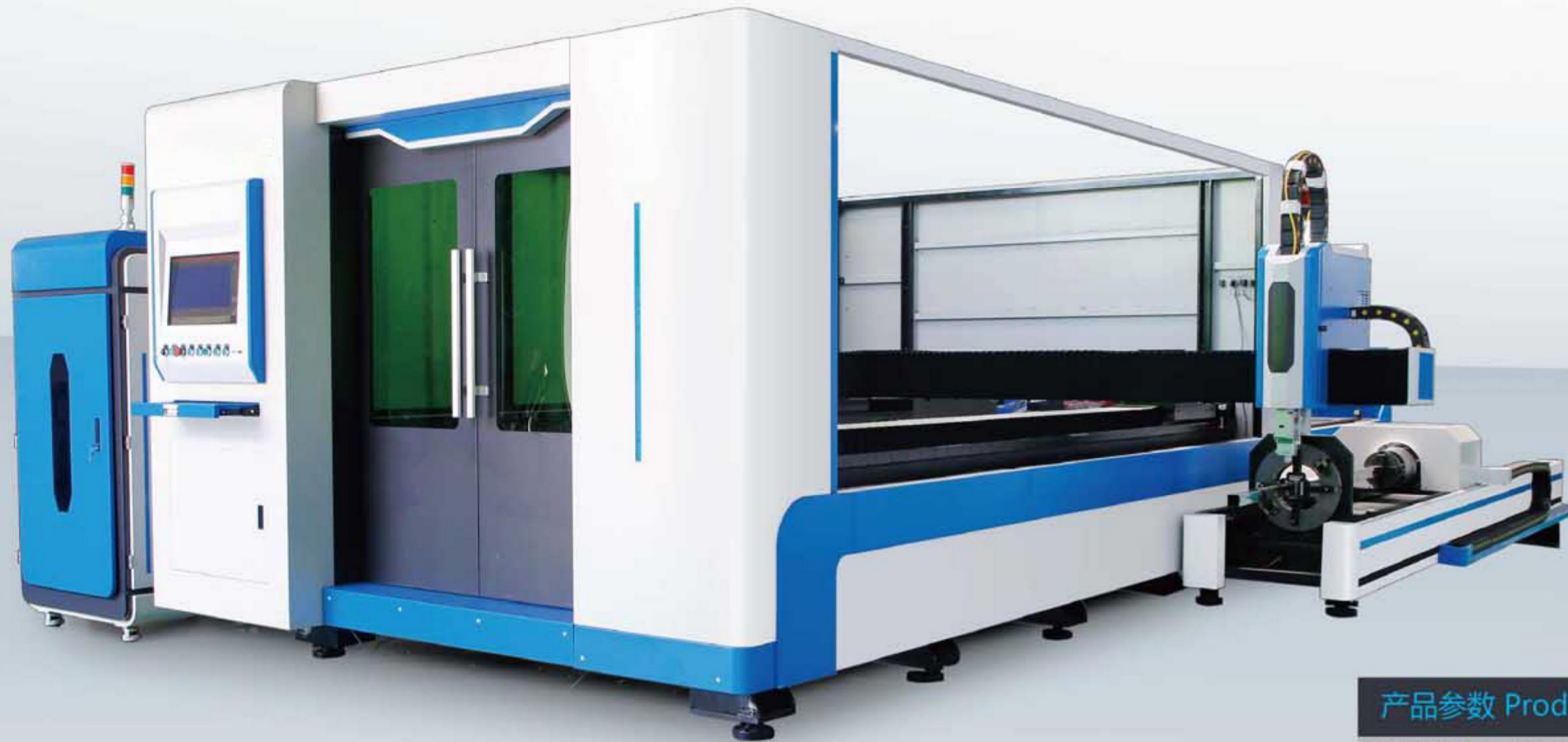
Small focal spot, cut fine lines;  
 The machine power consumption is only 20-30% of similar CO2 laser cutting machine. Can use air cutting all kinds of sheet metal;  
 Simple and friendly man-machine control interface, modular design, automatic identification mainstream mapping file;  
 Surrounded by design. Closed outside the protection, improve the working environment cleanliness, personnel safety, operator European CE standards;  
 Imported ac servo drive, fully sealed gear rack driving, imported linear guide direction;  
 Gantry structure, high damping lathe bed, aluminum alloy extrusion buntun, can withstand the high velocity and acceleration;  
 With modern industry's leading platform switching device. Can achieve 10 seconds, double platform swaps;  
 Standard interpublic fiber laser generator, the service life of 100000 hours, basic maintenance free, non-contact laser cutting head configuration import capacitance height tracking system, guarantee the cutting focus position, avoid collisions with board processing.

### 产品参数 Product Parameter

产品型号 Product Model	RB-3015A	RB-6015A	RB-4020A	RB-6020A
最大加工范围 Working Area	3000*1500mm	6000*1500mm	4000*2000mm	6000*2000mm
激光器功率 Laser Power	500W、700W、1000W、1500W、2000W、3000W			
定位精度 Positioning Accuracy	±0.03mm/m			
重复定位精度 Repeated Positioning Accuracy	±0.02mm			
空程移动最大速度 Maxmum Moving Speed	100m/min			
最大切割速度 Maximum Cutting Speed	60m/min			
传动系统 Drive System	高精度齿轮齿条 Highprecision gear and racke + 高精度直线导轨, high precision linear guide rall			
设备电力需求 Voltage	380VAC±10%/50Hz (特殊要求可订制)			

# TUBE PLATE INTEGRATED CNC FIBER LASER CUTTING

## 分体式管板一体光纤激光切割机



### 应用行业 Applicable industries

厨具橱柜 | 灯饰五金 | 广告标牌 | 电梯制造  
钣金加工 | 工艺造型 | 机械制造 | 通风制冷  
Kitchen cabinets | Lighting hardware | Advertising signs  
Elevator manufacturing | Sheet metal processing | Process modeling  
Machinery manufacturing | Ventilation cooling

### 样品展示 The samples show



### 产品特点:

- 能在主管上切割多个不同方向、不同直径的圆柱相贯线孔，满足支管轴线与主管轴线偏心和非偏心的垂直相交的条件
- 能在支管端部切割圆柱相贯线端头，满足支管轴线与主管轴线偏心和非偏心的垂直相交、倾斜相交的条件
- 能在圆管端部切割斜截面
- 能切割与环形主管相交的支管相贯线端头
- 能切割变角度坡口面
- 能在圆管上切割方孔、腰形孔
- 能进行钢管截断
- 能在方管管面切割各种图形
- 可通过套料软件合理排料，实现拉进零尾料加工性能
- 引用数控中心支架，可实现换管时快速装夹与调整

### Product features:

Low on the head of cutting different direction, different curve of the diameter of the cylindrical hole, meet the branch pipe axis intersect with the vertical head axis eccentricity and eccentric

Low in the pipe end of the curve cutting cylindrical end, meet the branch pipe axis intersect with the vertical head axis eccentricity and eccentric, tilt the intersection of conditions

Low can cut oblique cutting face in the circular tube department

Can low cutting and annular competent intersecting line of branch pipe end

Can low cutting Angle groove surface

Can low on the circular tube type hole cutting square hole, the waist

Low to steel tube truncation

Low square tube surface cutting all kinds of graphics

Through reasonable nesting nesting software, implementation into zero tailing processing performance

Low reference CNC center support, can realize the fast clamping and adjust the tube

### 产品参数 Product Parameter

产品型号 Product Model	RB -3015	RB -6015	RB -4020	RB -6020
最大加工范围 Working Area	3000*1500mm	6000*1500mm	4000*2000mm	6000*2000mm
激光器功率 Laser Power	500W、700W、1000W、1500W、2000W、3000W			
定位精度 Positioning Accuracy	±0.03mm/m			
重复定位精度 Repeated Positioning Accuracy	±0.02mm			
设备电力需求 Voltage	380VAC±10%/50Hz			
切板性能 Cutting Pipe performance	RB -3015GT	RB -6015GT	RB -4020GT	RB -6020GT
空程移动最大速度 Maxmum Moving Speed	100m/min			
最大切割速度 Maximum Cutting Speed	60m/min			
传动系统 Drive System	高精度齿轮齿条 Highprecision gear and racke + 高精度直线导轨 high precision linear guide rall			
切管性能 Plate cutting Performance	RB -3015GT	RB -6015GT	RB -4020GT	RB -6020GT
管材尺寸 Pipe Dimension	圆管 Circular tube 20~200mm/方管 Square tube 20x20mm~150x150mm			
加工管型 Processing Tube Type	圆管、矩形管、椭圆管、U形管等 Round tubes, rectangular tubes, elliptical tubes, U tubes etc.			
最大管材长度 Maximum Pipo Longth	3000mm			
快移速度 Fast Moving snood	30m/min			
旋转速度 Rotational Speed	150r/min			
传动系统 Drive System	高精度齿轮齿条 Highprecision gear and racke + 高精度直线导轨 high precision linear guide rall			

# TUBE PLATE INTEGRATED CNC FIBER LASER CUTTING

## 管板一体光纤激光切割机



### 应用行业 Applicable industries

厨具橱柜 | 灯饰五金 | 广告标牌 | 电梯制造  
 钣金加工 | 工艺造型 | 机械制造 | 通风制冷  
 Kitchen cabinets | Lighting hardware | Advertising signs  
 Elevator manufacturing | Sheet metal processing | Process modeling  
 Machinery manufacturing | Ventilation cooling

### 样品展示 The samples show



### 产品特点:

聚焦光斑小，切割线条精细；  
 一机两用，即可切割板材，也可切割管材；  
 整机耗电量仅为同类CO<sub>2</sub>激光切割机的20—30%，可使用空气切割各类金属薄板；  
 简单友好的人机操作界面，模块化设计，自动识别solidworks文件，加载三维切割轨迹，自动排序；  
 进口交流伺服驱动，进口全密封齿轮齿条传动，进口直线导轨导向；  
 龙门式结构，高阻尼床身，铝合金挤压成型横梁，能承受较高速度及加速度；  
 标配IPG光纤激光发生器，使用寿命10万小时，基本免维护，激光切割头配置进口电容非接触式高度跟踪系统，保证切割焦点位置，避免与加工板材碰撞。

### Product features:

Small focusing spot, cut fine lines;  
 One can be dual-use, cutting board, also can be cutting steel tubes;  
 The machine power consumption is only 20-30% of similar CO<sub>2</sub> laser cutting machine, can use air cutting all kinds of sheet metal;  
 Simple and friendly man-machine control interface, modular design, automatic identification solidworks file, load the three-dimensional cutting trajectory, automatic sorting;  
 Imported ac servo driver. Imported fully sealed gear rack transmission. Imported linear guide direction;  
 Gantry structure, high damping lathe bed, aluminum alloy extrusion beams, which can withstand the high velocity and acceleration;  
 Standard interpublic fiber laser generator, the service life of 100000 hours, basic maintenance free, non-contact laser cutting head configuration import capacitance height tracking system, guarantee the cutting focus position. Avoid collisions with board processing.

### 产品参数 Product Parameter

产品型号 Product Model	RB -3015	RB-6015	RB -4020	RB -6020
最大加工范围 Working Area	3000*1500	6000*1500	4000*2000	6000*2000
激光器功率 Laser Power	500W、700W、1000W、1500W、2000W、3000W			
定位精度 Positioning Accuracy	±0.03mm/m			
重复定位精度 Repeated Positioning Accuracy	±0.02mm			
设备电力需求 Voltage	380VAC±10%/50Hz			
切板性能 Cutting Pipe performance	RB -3015GT	RB-6015GT	RB -4020GT	RB -6020GT
空程移动最大速度 Maxmum Moving Speed	100m/min			
最大切割速度 Maximum Cutting Speed	60m/min			
传动系统 Drive System	高精度齿轮齿条 Highprecision gear and rack + 高精度直线导轨, high precision linear guide rali			
切管性能 Plate cutting Performance	RB -3015GT	RB-6015GT	RB -4020GT	RB -6020GT
管材尺寸 Pipe Dimension	圆管 Circular tube 20~200mm/方管 Square tube 20x20mm~150x150mm			
加工管型 Processing Tube Type	圆管、矩形管、椭圆管、U形管等 Round tubes, rectangular tubes, elliptical tubes, U tubes etc.			
最大管材长度 Maximum Pipo Length	3000mm			
快移速度 Fast Moving snood	30m/min			
旋转速度 Rotational Speed	150r/min			
传动系统 Drive System	高精度齿轮齿条 Highprecision gear and rack + 高精度直线导轨, high precision linear guide rali			

# PROFESSIONAL FIBERLASER TUBE CUTTER

## 专业管材激光切割机



### 应用行业 Applicable industries

厨具橱柜 | 灯饰五金 | 广告标牌 | 电梯制造  
钣金加工 | 工艺造型 | 机械制造 | 通风制冷

Kitchen cabinets | Lighting hardware | Advertising signs  
Elevator manufacturing | Sheet metal processing | Process modeling  
Machinery manufacturing | Ventilation cooling

### 样品展示 The samples show



### 产品特点:

- 可实现在主管上切割多个不同方向、不同直径的圆柱相贯线孔，满足支管轴线与主管轴线偏心和非偏心的垂直相交的条件。
- 可实现在支管端部切割圆柱相贯线端头，满足支管轴线与主管轴线偏心和非偏心的垂直相交、倾斜相交的条件。
- 可实现在圆管端部切割斜截面。
- 可实现与环形主管相交的支管相贯线端头的切割。
- 可实现变角度坡口面、方孔，腰形孔切割。

### Product features:

- Can cut lines and holes with different diameters from different directions on the pipe and meet centrifugal and non-centrifugal vertical intersection condition for branch and main pipe axis.
- Can cut column crossed lines at the end of branch pipe, and meet centrifugal and non-centrifugal vertical intersection condition for branch and main pipe axis.
- Can cut inclined section at the end section of the pipe.
- Can cut branch pipe intersected with the main circular pipe.
- To realized angel groove face, square hole, waist-shaped holes cutting.

型号 Model	RB3000/RB6000
激光器发生器 Laser generator medium	光纤激光器 Fiber Laser Module
最大输出功率 Max. output power	1000w/1500w/2000w
有效切割管材直径 Effective pipe cutting diameter	≤350mm
有效管材切割长度 Effective pipe cutting length	3000mm/6000mm
工作台轴向定位精度 Worktable axial positioning accuracy	≤±0.05mm
工作台重复定位精度 Worktable reposition accuracy	≤±0.03mm

# LASER CUTTING WELDING ROBOT

## 激光切割/焊接机器人

Rbqly®  
—润邦重工—



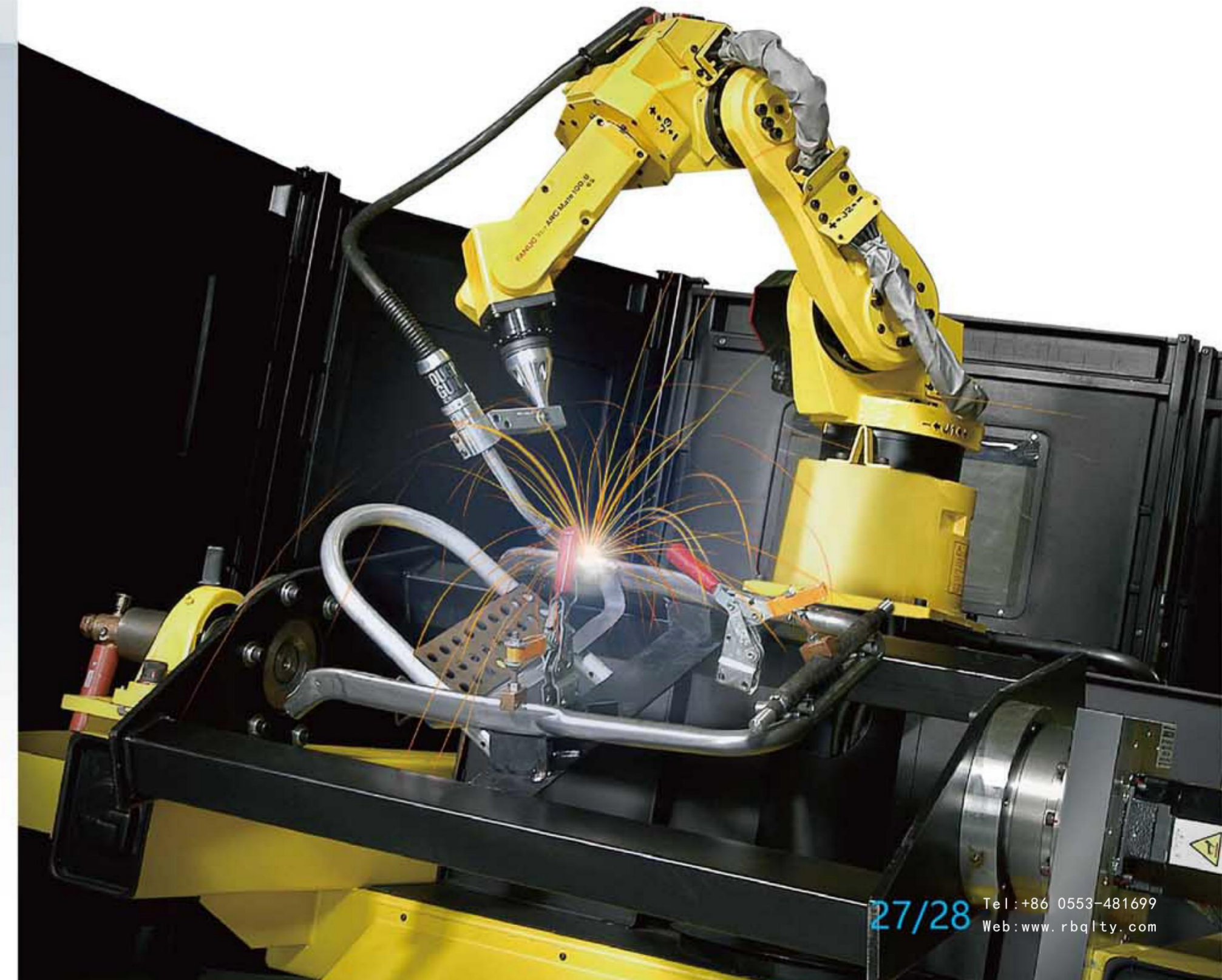
型号 Model	BW-ROB Series
激光器类型 Laser type	光纤激光器 Fiber Laser
可选配激光器类型 Optional power	1000W-6000W
加工半径 Cutting radius	R1.3m-R2.0m

### 产品特点:

- 机械结构采用进口机械手，六轴联动，将激光束引导装置完全集成在机器人手臂中，将稳定的激光和运动的机器人手臂的优势相结合，可实现三维空间内任意曲线和特定曲线的加工，操控方便，智能化程度高，大大减少了周期时间，保证了设备的高运行速度，高精度及高可靠性。
- 优质精密激光切割头，反应灵敏、切割精准，与机械手有效配合，保证切割焦点位置，保证切割质量稳定。
- 工业机器人代表最先进的激光切割水平，大大降低了系统的成本造价，减少了系统运行维护费用，减少了系统的占地面积。

### Product features:

- Mechanical structure adopts imported robotic arm,with six-axis linkage working mode,apply laser beam guiding device into robotic arm,combine advantages of stable laser beam and sportive robotic arm,can realize the processing of random or specified curve in 3D space.Easy operating,high intelligence,those performance can shorten the leading-time,guarantee high-working speed,precision and reliability.
- High efficiency laser cutting head with quick response and precise cutting,matched with machinery hand can guarantee cutting focus position and produce stable cutting quality.
- Industrial robot represents the most advanced laser cutting technology,It can greatly reduce the cost,decrease the maintenance fee and save the cover area of system.





光纤激光机切割厚度及速度参数  
Cutting thickness and speed of fiber laser cutting machine

材料 Material	厚度 Thickness (mm)	500w		1000w		2000w	
		最大切割速度 Max cutting speed m/min	最佳切割速度 Optimum cutting speed m/min	最大切割速度 Max cutting speed m/min	最佳切割速度 Optimum cutting speed m/min	最大切割速度 Max cutting speed m/min	最佳切割速度 Optimum cutting speed m/min
Carbon steel 碳钢 (O <sub>2</sub> ) 氧气	0.2	-	-	-	-	-	-
	0.4	30	20	60	45	80	60
	0.6	-	-	-	-	-	-
	0.8	-	-	-	-	-	-
	1	15.0	10.00	24.0	16.0	35.0	22.0
	1.5	-	-	-	-	-	-
	2	8	6.0	13.0	10.0	22.0	16.0
	2.5	-	-	-	-	-	-
	3	4.0	3.0	8.0	5.0	12.0	8.0
	4	2.0	1.5	4.0	2.5	7.0	4.0
	5	1.0	0.8	3.0	2.0	5.0	3.0
	6	0.8	0.6	2.0	1.5	3.5	2.5
	8	-	-	1.2	1.0	2.0	1.6
	10	-	-	1.0	0.8	1.8	1.3
	12	-	-	0.8	0.5	1.3	1.0
16	-	-	-	-	1.0	0.8	
20	-	-	-	-	0.8	0.6	
Stainless steel 不锈钢 (Air) 空气	0.2	-	-	-	-	-	-
	0.4	-	-	-	-	-	-
	0.5	25	20.0	-	-	-	-
	0.6	-	-	-	-	-	-
	0.8	20	16.0	-	-	-	-
	0.8 (切割膜 cutting with membrane)	15.0	10.0	-	-	-	-
	1	15	10.0	24.0	16.0	35.0	22.0
	1.5	-	-	-	-	-	-
	2	6.0	4.0	10.0	6.0	16.0	10.0
	3	1.5	1.0	3.0	2.0	9.0	5.0
Galvanized plate 镀锌板 (O <sub>2</sub> ) 氧气	4	-	-	2.0	1.5	4.5	3.0
	5	-	-	1.3	1.0	3.5	2.5
	6	-	-	-	-	3.0	2.0
	8	-	-	-	-	1.2	1.0
	0.5	20	16.0	-	-	-	-
	1	15.0	10.0	24.0	16.0	35.0	25.0
	2	5.0	3.0	8.0	5.0	12.0	8.0
	3	1.0	0.6	2.0	1.5	5.0	3.0
	4	-	-	1.2	1.0	4.0	2.5
	6	-	-	-	-	3.0	2.0
Aluminum plate 铝板	0.5	3.0	2.5	-	-	-	-
	1	2.4	2	8.0	6	13.0	10
	1.5	2.0	1.5	2.5	2	5.2	4
	2	1.5	1	1.3	1	2.6	2
	3	0.8	0.6	0.8	0.6	1.3	1
	4	-	-	-	-	1.0	0.8
	5	-	-	-	-	0.8	0.6
	0.5	2.0	1.5	3.0	2.5	5.0	4
	1	1.5	1	2.0	1.5	3.0	2.4
	2	0.8	0.6	1.5	1	2.5	2
Copper plate 铜板	3	-	-	0.7	0.5	1.5	1
	4	-	-	-	-	0.8	0.5

参数如有更改恕不另行通知! Parameters are subject to change without prior notice!

500w 光纤机使用成本分析 500w Fiber Laser Using Cost

	辅助气体 Assisted gas	可选方案一: 空气切割 (用空压机组切割不 锈钢板) Choose I :using air compressor group as air supply to cutting stainless steel	可选方案二: 氧气切割 (用O <sub>2</sub> 切割不锈 钢) Choose II :using O <sub>2</sub> cutting stainless steel	可选方案三: 氮气切割 (用N <sub>2</sub> 切割不锈 钢) Choose III :using N <sub>2</sub> cutting stainless steel
能耗 Consumption				
激光器 Laser module		1.9kw	1.9kw	1.9kw
冷水机组 Water Chiller Group		1.8kw	1.8kw	1.8kw
电力消耗 Power Consumption	机床主机 Host Machine	8kw	8kw	8kw
	排尘设备 Dust Exhausting Equipment	5.5kw	5.5kw	5.5kw
易损件 Quick-waer Part		2RMB/h	2RMB/h	2RMB/h
气体消耗 Gas Consumption		3kw	约(About)6.7RMB/h	约(About)64RMB/h
总电力功率 Total Power		20.2kw	17.2kw	17.2kw
平均功耗 (取60%切割效率) Average Power Consumption (Take 60% Cutting Efficiency)		20.2*60%=12.12kw	17.2*60%=10.32kw	17.2*60%=10.32kw
总运行成本 All Cost(按1RMB/kwh)		12.12+2=14.12RMB/h	10.32+6.7+2=19.02RMB/h	10.32+64+2=76.32RMB/h

1000w 光纤机使用成本分析 1000w Fiber Laser Using Cost

	辅助气体 Assisted gas	可选方案一: 空气切割 (用空压机组切割不 锈钢板) Choose I :using air compressor group as air supply to cutting stainless steel	可选方案二: 氧气切割 (用O <sub>2</sub> 切割不锈 钢) Choose II :using O <sub>2</sub> cutting stainless steel	可选方案三: 氮气切割 (用N <sub>2</sub> 切割不锈 钢) Choose III :using N <sub>2</sub> cutting stainless steel
能耗 Consumption				
激光器 Laser module		4kw	4kw	4kw
冷水机组 Water Chiller Group		3.6kw	3.6kw	3.6kw
电力消耗 Power Consumption	机床主机 Host Machine	8kw	8kw	8kw
	排尘设备 Dust Exhausting Equipment	5.5kw	5.5kw	5.5kw
易损件 Quick-waer Part		2.5RMB/h	2.5RMB/h	2.5RMB/h
气体消耗 Gas Consumption		3kw	约(About)6.7RMB/h	约(About)64RMB/h
总电力功率 Total Power		24.1kw	21.1kw	21.1kw
平均功耗 (取60%切割效率) Average Power Consumption (Take 60% Cutting Efficiency)		24.1*60%=14.46kw	21.1*60%=12.66kw	21.1*60%=12.66kw
总运行成本 All Cost(按1RMB/kwh)		14.46+2.5=16.96RMB/h	12.66+6.7+2.5=21.9RMB/h	12.66+64+2.5=79.2RMB/h

2000w 光纤机使用成本分析 2000w Fiber Laser Using Cost

	辅助气体 Assisted gas	可选方案一: 空气切割 (用空压机组切割不 锈钢板) Choose I :using air compressor group as air supply to cutting stainless steel	可选方案二: 氧气切割 (用O <sub>2</sub> 切割不锈 钢) Choose II :using O <sub>2</sub> cutting stainless steel	可选方案三: 氮气切割 (用N <sub>2</sub> 切割不锈 钢) Choose III :using N <sub>2</sub> cutting stainless steel
能耗 Consumption				
激光器 Laser module		8kw	8kw	8kw
冷水机组 Water Chiller Group		7kw	7kw	7kw
电力消耗 Power Consumption	机床主机 Host Machine	10kw	10kw	10kw
	排尘设备 Dust Exhausting Equipment	5.5kw	5.5kw	5.5kw
易损件 Quick-waer Part		2.5RMB/h	2.5RMB/h	2.5RMB/h
气体消耗 Gas Consumption		5.5kw	约(About)6.7RMB/h	约(About)64RMB/h
总电力功率 Total Power		36kw	30.5kw	30.5kw
平均功耗 (取60%切割效率) Average Power Consumption (Take 60% Cutting Efficiency)		36*60%=21.6kw	30.5*60%=18.3kw	30.5*60%=18.3kw
总运行成本 All Cost(按1RMB/kwh)		21.6+2.5=24.1RMB/h	18.3+6.7+2.5=27.5RMB/h	18.3+64+2.5=84.8RMB/h

参数如有更改恕不另行通知! Parameters are subject to change without prior notice!