

## 医疗行业 整体激光解决方案

## MEDICAL INDUSTRY THE OVERALL LASER SOLUTION

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让每一个客户都用好激光机 >>>  
Make Sure Every Customer Use Laser Machine Well

## 关于创轩 / About US

创轩激光是一家从事激光技术开发, 推广激光工艺应用的高新技术企业。公司致力于将激光技术推广到各工业生产领域, 并着重专注于研发非金属材料的激光加工工艺及超快激光技术成套设备的开发应用。

公司拥有一支由清华博士后领衔的研发团队。自主研发的CW系列、SG系列、CW/P系列、CX系列激光设备广受用户好评。我们还致力于将激光技术进行跨界融合, 开发了激光加视觉, 激光加自动化等前沿应用并获得完整知识产权。共获取各项国家专利100多项, 著作权6项, 注册商标3项。先后获得国家高新技术企业, 创新型科技企业; 并申报专精特新企业, 瞪羚企业等荣誉称号。

Chanxan Laser Technology Co.,Ltd. is a high-tech enterprise in the development of laser technology and the promotion of laser technology application. The company is committed to promoting laser technology to various industrial production fields, and focuses on the development and application of laser processing technology for non-metallic materials and complete sets of ultrafast laser technology.

The company has a research and development team led by postdoctoral fellows of Tsinghua University. The self-developed CW series, SG series, CW/P series, and CX series laser equipment are widely praised by users. We are also committed to the cross-border integration of laser technology, developed cutting-edge applications such as laser plus vision, laser plus automation, and obtained complete intellectual property rights.



创轩(常熟)工业园

十几年来, 创轩激光产品及服务的客户超8000家, 涉及100多个国家和地区。先后成立创轩苏州、创轩越南、创轩南京、创轩广东、创轩常熟五大基地。建设完成和使用超8万平方米的生产厂房, 基本完成集团化发展格局。

光生万物。我们坚信激光技术所带来的“光加工”时代, 将是建设美好生活的一部分! 创轩人将更加努力创造更尖端的激光设备, 为科研教学、医疗用品、半导体、超快精密加工、新能源, 新材料, 汽配, 工艺品, 智能家居, 柔性面料等领域的工业生产和工艺提升贡献一份力量。

For more than ten years, Chanxan Laser products and services have served more than 8,000 customers, involving more than 100 countries and regions. Five bases of Chanxan Suzhou, Chanxan Vietnam, Chanxan Nanjing, Chanxan Guangdong, and Chanxan Changshu have been established successively. The construction and use of over 80,000 square meters of production plants have basically completed the group development pattern.

Light produces all things. We firmly believe that the era of "light processing" brought by laser technology will be part of building a better life! Chanxan people will work harder to create more cutting-edge laser equipment for industrial production and process improvement in the fields of scientific research and teaching, medical supplies, semiconductors, ultra-fast precision processing, new energy, new materials, auto parts, handicrafts, smart home, flexible fabrics, etc. to make a contribution.

» 我们的使命: 让每一个客户都用好激光机!  
Our mission: Make Sure Every Customer Use Laser Machine Well!

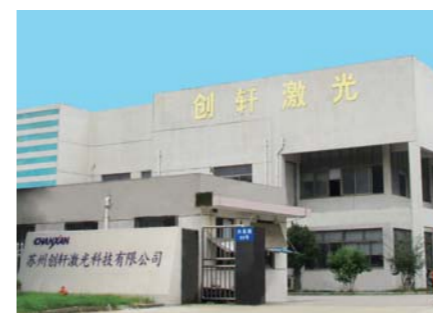
## 创轩激光五大基地 / Chanxan Laser Five Bases



常熟 Changshu



南京 Nanjing



苏州 Suzhou



广东 Guangdong



越南 Vietnam

### 设备优势 Equipment Advantages

- 1、高性能进口激光器，刻痕不易清除。
- 2、根据不同材质打码要求可选紫光、绿光、光纤、CO<sub>2</sub>激光器。
- 3、高精度CCD实现自动识别、自动定位、自动检测，评级。
- 4、可连接SHOPFLOW,MES,IMS,PMS等管理系统。
- 5、提供大幅面，单头，翻转，双头，半自动和全自动多种机型满足客户定制需求。
- 6、可选配吸尘、除静电等装置。

1. Imported high-performance laser, not easy to remove scratches.
2. According to the coding requirements of different materials, purple light, green light, optical fiber, CO<sub>2</sub> laser can be selected.
3. The high-precision CCD realizes automatic identification, automatic positioning, automatic detection and rating.
4. It can be connected to management systems such as SHOPFLOW, MES, IMS, PMS.
5. Provide large-format, single-head, flip, double-head, semi-automatic and fully automatic models to meet customer customization needs.
6. Optional devices such as dust collection and static elimination.



### 应用领域 Applicable Fields

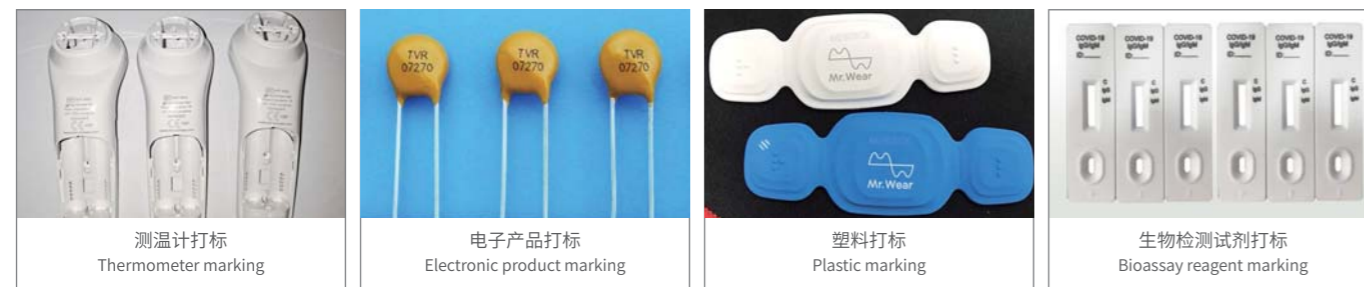
激光应用领域:适用于血糖仪、血压计、耳温枪、生物检测试剂等，塑料、金属类产品的LOGO、字符、二维码、表面装饰工艺标记。

Laser application fields: suitable for blood glucose meters, blood pressure monitors, ear thermometers, biological detection reagents and marking LOGO, characters, two-dimensional codes, surface decoration process of plastic and metal products.

### 技术参数 Technical Parameters

系列 Series	激光器功率 Laser power	标刻范围 Marking range	定位精度 Positioning	扫描速度 Scanning speed	可定制 Can be customized	电源需求 Supply voltage
SG	5/7/10/15/20W	70/105/155/175/210mm	0.02mm	6000-22000mm/s	视觉/运动平台/ 抽风除湿/流水 Vision/Sports Platform/ Ventilation Dehumidification/ Flowing Water	AC 220V±10% 50HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

- 1、配置加工过程精密视觉定位系统。
- 2、可在极微小的表面雕刻出各种精细复杂图案。
- 3、可对等径管类、变形管类、半成品管类、小幅面平面类器械进行雕刻加工。
- 4、可加工316L、Ni-Ti、Ti、Al、Cu、塑胶件等材质。
- 5、多样化组合式精密管材自动夹持系统。
- 6、开放式ECAD和激光加工CAM软件。

1. Equipped with a precise visual positioning system during processing.
2. Various fine and complex patterns can be carved on extremely tiny surfaces.
3. It can engrave and process equal-diameter pipes, deformed pipes, semi-finished pipes, and small-format flat instruments.
4. It can process 316L, Ni-Ti, Ti, Al, Cu, plastic parts and other materials.
5. Diversified combined precision pipe automatic clamping system.
6. Open ECAD and laser processing CAM software.

### 可选配件 Optional spare parts

- 排气系统、视觉系统 • 其它轴(根据铸术) • 脚踏开关 • 自动高度调节
- Exhaust system, vision system • Other shafts (according to casting technique)
- Foot switch • Automatic height adjustment

### 精细打标 Fine marking

打标线宽小: <50um;

打标精度高: 旋转运动中管类器械径向跳动<5um;

打标质量好: 雕刻处表面光滑、无明显变形&凸点&凹坑、稳定性好;

加工效率高: 管材气动控制自动夹持, 兼容管材自动上下料系统;

Small marking line width: <50um;

High marking accuracy: radial runout of tube instruments in rotating motion <5um;

Good marking quality: the surface of the engraving is smooth, without obvious deformation & bumps & pits, and good stability;

High processing efficiency: automatic clamping of pipes pneumatically controlled, compatible with automatic pipe loading and unloading systems.

### 技术参数 Technical Parameters

系列 Series	激光器功率 Laser power	加工幅面 Working area	定位精度 Positioning	打标速度 Marking speed	外形尺寸 Overall dimension	电源需求 Supply voltage
SG	20/30/50W	管材 pipe φ0.3-φ7.5±0.02mm& φ1.0-φ16.0±0.02mm 平面 plane 300mm*300mm	±2um	≤7000mm/s	900x850x1450mm	AC 220V±10% 50HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

- 1、双工位/双头四工位/多工位结构，激光头可以电动调节位置翻转，加工范围大，效率高。
- 2、加工区域配置多个CCD和激光源，保证定位精度，可配置OCR及复检功能。
- 3、能与车间生产管理系统进行数据通讯。

1. Double-station/double-head four-station/multi-station structure, the laser head can be turned over by electric adjustment, the processing range is large, and the efficiency is high.
2. The processing area is equipped with multiple CCDs and laser sources to ensure positioning accuracy, and can be equipped with OCR and re-inspection functions.
3. It can communicate with the workshop production management system.



### 应用领域 Applicable Fields

适用于血糖仪、血压计、耳温枪、生物检测试剂盒等塑料类产品LOGO、字符、二维码、表面装饰工艺标记。

各种定制款打标机：实现双工位、四工位、多工位，激光头可电动调节位置，加工范围大，效率高。

It is suitable for plastic product LOGO, characters, two-dimensional codes, surface decoration craft markings such as blood glucose meters, blood pressure monitors, ear thermometers, biological testing kits, etc.

Various customized marking machines: realize double-station, four-station, multi-station, the laser head can be adjusted by electric position, the processing range is large, and the efficiency is high.



### 技术参数 Technical Parameters

系列 Series	激光器功率 Laser power	激光波长 Laser wavelength	振镜 Galvanometer	聚焦镜头 Focusing lens	视觉检测系统 Visual inspection system	除尘系统 Dust removal system	电源需求 Supply voltage
SG	5/7/10W	多种光源可选 Various light sources optional	多款可选 Various models optional	多种焦距可选 Multiple focal distances optional	专业定制方案 Professional customization scheme	专业定制除尘系统 (可选配烟雾净化器) Professional customized dust removal system (smoke purifier optional)	AC 220V±10% 50HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

- 1、功能搭配灵活，支持个性化功能定制。
- 2、支持从部件级到系统级的创新设计。
- 3、支持激光切割、钻孔加工。
- 4、具有连续自动进给加工功能和管材自动上下方案可选方案。
- 5、外观精致、界面直观，操作简单。

1. Flexible function matching and support for personalized function customization.
2. Support innovative design from component level to system level.
3. Support laser cutting and drilling processing.
4. It has the function of continuous automatic feed processing and the optional plan of automatic pipe up and down.
5. Exquisite appearance, intuitive interface and simple operation.



### 应用领域 Applicable Fields

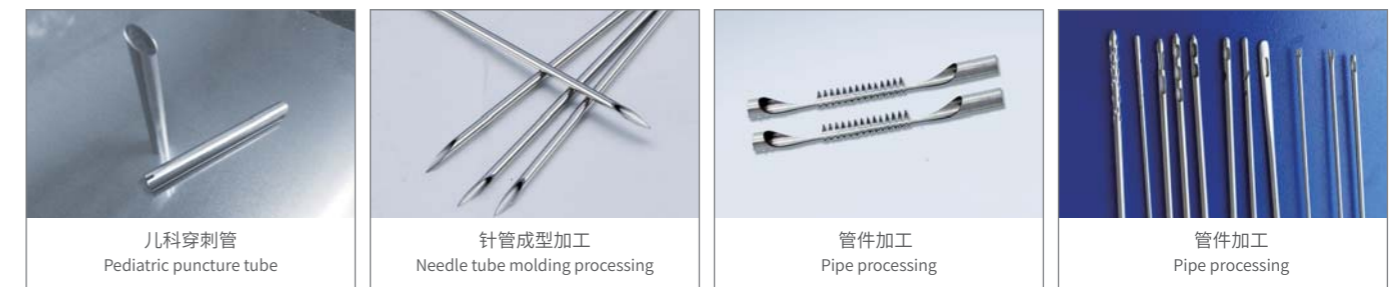
可加工304、316L、Ni-Ti、Al、镍钛合金、钴基合金、纯铁、镁合金等多种金属材料；可加工等径管类、变形管类、半成品管类、小幅面平面类器械。

It can process a variety of metal materials such as 304, 316L, Ni-Ti, Al, nickel-titanium alloy, cobalt-based alloy, pure iron, magnesium alloy, etc.; It can process equal-diameter pipes, deformed pipes, semi-finished pipes, and small-format plane equipment.

### 技术参数 Technical Parameters

系列 Series	加工幅面 Working area	定位精度 Positioning	最小切割缝宽 Minimum cutting seam width	最大运行速度 Maximum operating speed	激光器类型 Laser type	外形尺寸 Overall dimension	电源需求 Supply voltage
SG	0~200mm	±10um	80um	200mm/s	光纤激光器 Fiber laser	1200x1500x1750mm	AC 220V±10% 50HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

- 1、体积小，节省生产空间，降低成本。
- 2、高精度皮带模组导轨，配合轻巧激光头快速联动。
- 3、有效幅面：500x300mm，整体体积小。
- 4、304定制不锈钢托盘。
- 5、进口固体激光器。

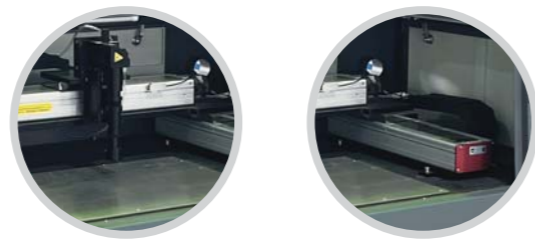
1. Small size, saving production space and reducing cost.
2. The high-precision belt module guide rail is matched with the lightweight laser head for quick linkage.
3. Effective format: 500x300mm, small overall size.
4. 304 custom stainless steel tray.
5. Imported solid-state laser.



### 应用领域 Applicable Fields

猪心/牛心包膜及其他医用生物薄膜材料的高精度切割和开口。

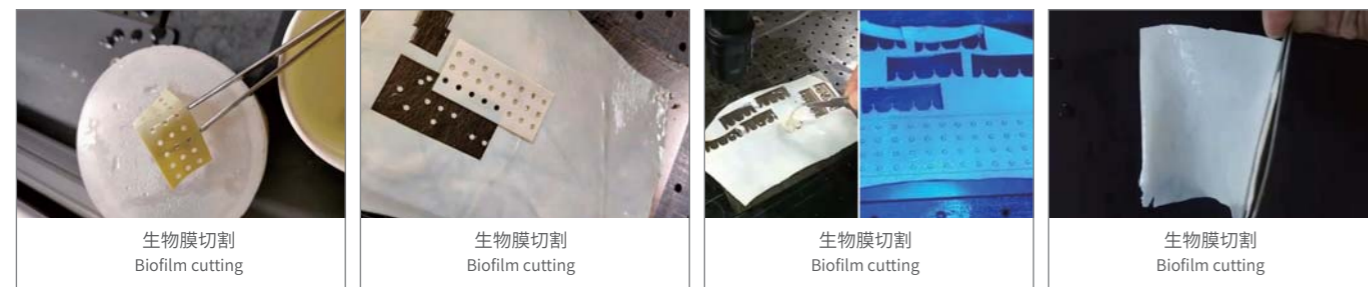
High-precision cutting and opening of pig heart/bovine pericardium and other medical biofilm materials.



### 技术参数 Technical Parameters

型号 Model	激光器功率 Laser power	加工幅面 Working area	定位精度 Positioning	切割速度 Cutting speed	激光器类型 Laser type	外形尺寸 Overall dimension	电源需求 Supply voltage
CW-5030R	30W	400*300mm	±0.05mm	500mm/s	CO <sub>2</sub> 激光器 CO <sub>2</sub> laser	850x1350x1075mm	AC 220V±10% 50HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

1. 采用超短脉冲激光器，具有加工效率高，热影响区小，无需后续辅助处理等优点，可以达到“冷”加工的工艺。
2. 采用大理石平台X/Y系统采用直线电机驱动系统，确保平台高速运行的精准度和稳定性。
3. 配置识别率CCD自动对位功能，保证产品切割对位精确。
4. 进口优质激光器与光学系统，全光路防护，确保机器长时间稳定工作。

1. The use of ultrashort pulse laser has the advantages of high processing efficiency, small heat-affected zone, and no need for subsequent auxiliary processing, which can achieve "cold" processing.
2. The marble platform X/Y system adopts a linear motor drive system to ensure the accuracy and stability of the platform's high-speed operation.
3. Equipped with recognition rate CCD automatic alignment function to ensure accurate product cutting alignment.
4. Imported high-quality lasers and optical systems, all optical path protection, to ensure the long-term stable operation of the machine.



### 应用领域 Applicable Fields

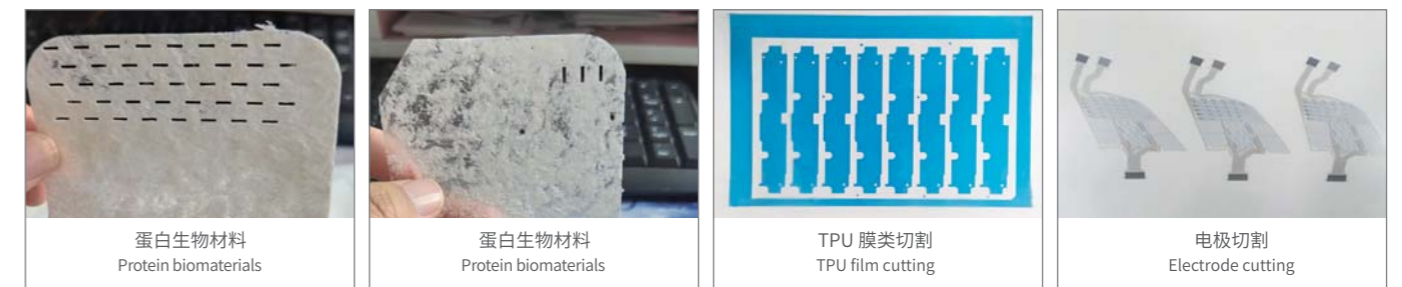
应用于手机行业、通讯、消费电子、半导体、科研、生物医疗等领域。例如柔性OLED屏幕、LCP、PI膜、FPC、纳米金、偏光片、FPC覆盖膜等非金属材料激光精密切割、钻孔、刻蚀加工。

Used in the mobile phone industry, communications, consumer electronics, semiconductors, scientific research, biomedical and other fields. Such as flexible OLED screen, LCP, PI film, FPC, nano-gold, polarizer, FPC cover film and other non-metallic composite materials laser precision cutting, drilling, etching processing.

### 技术参数 Technical Parameters

型号 Model	激光器功率 Laser power	可选光源 Optional light source	加工幅面 Working area	定位精度 Positioning	切割速度 Cutting speed	冷却方式 Cooling method	电源需求 Supply voltage
CS-0605-V-A	30W	皮秒 Picosecond	500 x610mm 可定制双台面 Customized double table	±1um	≤3000mm/s	风冷/水冷 Water/air cooling system	AC 380V±10% 50HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

1. 丝杆、进口激光器、大理石平台，铸铝龙门结构及铸铁底盘。
2. 高精度机床、高精度伺服丝杆传动保证位置精度和尺寸精度、更好的真圆度、更好的拐角效果。
3. 稳定的行走及能量控制使机器能切出的产品边缘热影响区更小，更光滑的切边效果，而且切割效果一致性好。
4. 软件性能优越，可实现分层切割、切割路径最优化、激光能量跟随速度等功能，切割效果一致性好，材料半切能量控制好。

1. Screw rod, imported laser, marble platform, cast aluminum gantry structure and cast iron chassis.
2. High-precision machine tools and high-precision servo screw drive ensure position accuracy and dimensional accuracy, better roundness, and better corner effects.
3. Stable walking and energy control make the heat-affected zone of the product edge cut by the machine smaller, smoother cutting edge effect, and good cutting effect consistency.
4. The software performance is superior, which can realize the functions of layered cutting, cutting path optimization, laser energy following speed, etc., the cutting effect is consistent, and the material half-cutting energy is well controlled.



### 应用领域 Applicable Fields

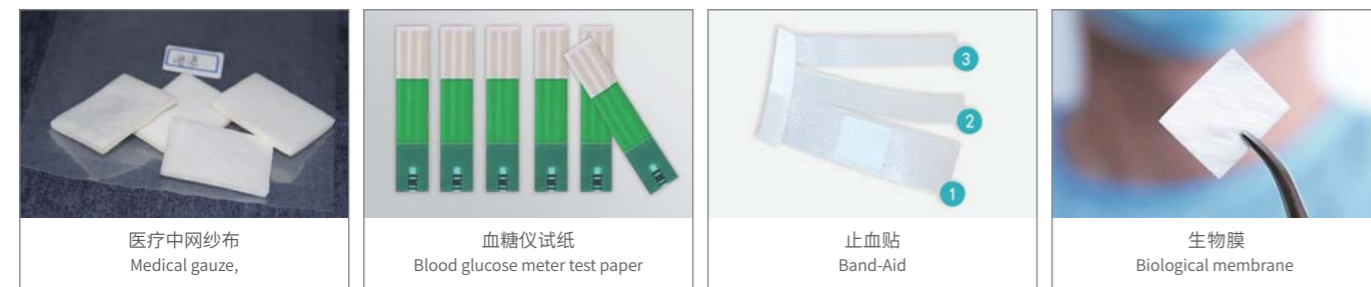
医用无纺布、试纸、生物膜材料、其他医用非金属材料的高精度切割和开口。

High-precision cutting and opening of medical non-woven fabrics, test papers, biofilm materials, and other medical non-metallic materials.

### 技术参数 Technical Parameters

型号 Model	激光器功率 Laser power	加工幅面 Working area	定位精度 Positioning	切割速度 Cutting speed	冷却方式 Cooling method	电源需求 Supply voltage
CW-650R	30W/60W	600 x 500mm	±5um	0~40000mm/min	风冷/水冷 Water/air cooling system	AC 220V±10% 50HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

1. 甄选国际一流的激光器，光束质量好，切割质量高，能完成最小线宽50um的精细加工(视材料而定)。
2. 双丝杆，双电机传动系统，提高生产效率，运行速度可达1000mm/s。
3. 软件具有图形排样及尖角平滑处理功能，可实现高速切割，打孔及标刻功能。
4. 整机光路为光纤传导，外光路免维护，易损量的消耗量极少。
5. 切割精度高，整机切割精度±25um,设备稳定性高,CPK>1.33。
6. 专业切割软件，多级权限操作，便于生产管理。
7. 机台整体铸造，具有较高的精度及稳定性。

1. Select world-class lasers with good beam quality and high cutting quality, and can complete fine processing with a minimum line width of 50um (depending on the material).
2. Double screws and dual motor transmission systems improve production efficiency, and the operating speed can reach 1000mm/s.
3. The software has graphic layout and sharp corner smoothing functions, which can realize high-speed cutting, punching and marking functions.
4. The optical path of the whole machine is optical fiber transmission, the external optical path is maintenance-free, and the consumption of vulnerable parts is very small.
5. High cutting accuracy, the cutting accuracy of the whole machine is ±25um, the equipment stability is high, CPK>1.33.
6. Professional cutting software, multi-level authority operation, easy production management.
7. The machine is integrally cast with high precision and stability.



### 应用领域 Applicable Fields

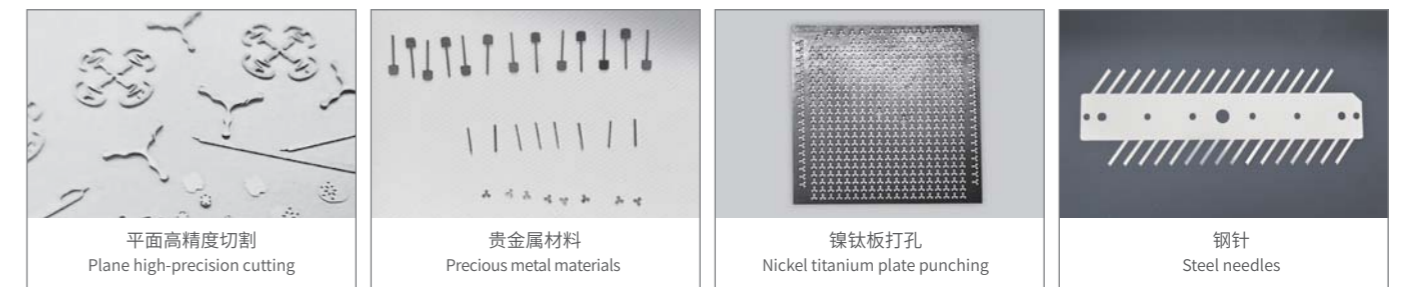
适用于各种金属薄板、微精密金属的划线切割打孔，主要应用于LED、精密机械、半导体控制器件、3C零部件行业。

Suitable for marking, cutting and punching of various metal sheets and micro-precision metals, and mainly used in LED, precision machinery, semiconductor control devices, and 3C parts industries.

### 技术参数 Technical Parameters

系列 Series	激光器功率 Laser power	加工范围 Processing range	定位精度 Positioning	切割速度 Cutting speed	激光器类型 Laser type	外形尺寸 Overall dimension	电源需求 Supply voltage
SG	1000-2000W	600*600mm	±0.006mm	≤1000mm/s	光纤激光器 Fiber laser	1800x1430x1850mm	AC 220V±10% 50HZ

### 产品展示 Sample show





### 设备优势 Equipment Advantages

- 1、光束质量好, 聚焦光斑小, 加工热影响区小, 不会产生热效应, 无烧焦问题。
- 2、可实现X轴上移动式打标, 大大增加打标的范围, 适合大尺寸产品的打标雕刻。
- 3、振镜高速打标, 打标效果精细并可重复加工; 高精度细致光斑保证打标结果的完美。
- 4、可实现导管的180度旋转打标, 打标速度快, 效率高。
- 5、移动式振镜打标头+旋转型治具, 可实现导管高速自动化打标, 速度快, 无需人工放置, 提高生产效率。
- 6、可用于各种金属非金属表面精细化打标雕刻, 如: 玻璃, 塑胶, 金属镀层等。适用材料广泛。



1. Good beam quality, small laser spot, small processing heat-affected zone, no thermal effects, no burnt edge problems.
2. Machine can realize flying-marking on X-axis, which greatly increases the marking range and is suitable for marking and engraving of large size products.
3. High-speed marking with Galvo lens, fine marking effect and repeatable processing; high-precision detailed spot to ensure the perfect marking results.
4. Machine can realize 180 degree rotating marking of catheter, fast marking speed and high efficiency.
5. Moving galvo head + rotating fixture can realize high-speed automatic marking of catheter. Saving labors and improving the efficiency of production.
6. It can be used for fine marking and engraving of various metal and non-metal surfaces, such as: glass, plastic, metal plating, etc. Machine is with wide range of applicable materials.

### 应用领域 Applicable Fields

广泛应用于食品、医药包装材料、电线电缆, 消费电子, 航空航天等行业, 如: 食品包装袋日期打码, 药品包装打生产日期, 医疗器械上打字符产品信息等。

可用于各类医疗塑料橡胶类材料表面的打标刻字打刻度线, 如: TPE、PTFE、TPU、PU、聚氨酯、尼龙、聚氯乙烯、聚丙烯、聚醚酮等材料, 金属, 非金属, 玻璃等材料。

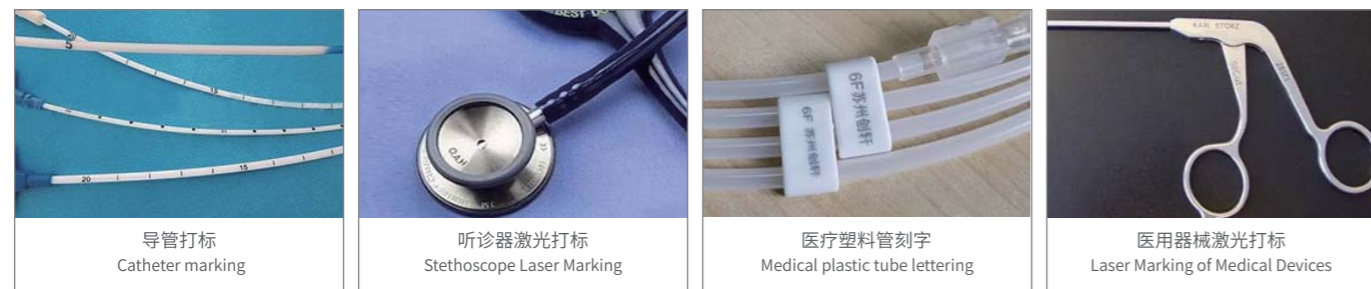
Widely used in food, pharmaceutical packaging materials, wire and cable, consumer electronics, aerospace and other industries. such as: the date coding of food packaging, the production date of pharmaceutical packaging, the information of medical devices, etc.

It can be used on the surface of all kinds of medical plastic and rubber materials. Marking, such as TPE, PTFE, TPU, PU, polyurethane, nylon, Polyvinyl chloride, Polypropylene, PEEK and other materials like metal, non-metal, glass etc.

### 技术参数 Technical Parameters

型号 Model	激光器功率 Laser power	激光波长 Laser wavelength	激光器类型 Laser type	加工幅面 Working area	冷却方式 Cooling mehod	电源需求 Supply voltage
CX-05ZRX	5W、8W、10W、15W	355um	紫外激光器 UV laser machine	100*100mm 整体打标范围可定制 Overall marking range customization	专业工业恒温系统 Professional industrial thermostat system	AC 220V±10% 50HZ

### 产品展示 Sample show



导管打标 Catheter marking

听诊器激光打标 Stethoscope Laser Marking

医疗塑料管刻字 Medical plastic tube lettering

医用器械激光打标 Laser Marking of Medical Devices



### 设备优势 Equipment Advantages

- 1、采用进口或优质国产CO<sub>2</sub>射频激光器, 光束质量更好, 光电转换率高, 性能好, 可进行各种精细加工、打孔。
- 2、雕刻精度高、标记清晰、不易磨损, 打标速度快、性能稳定; 设备无需耗材。
- 3、工作寿命长, 激光输出稳定, 适合工业化长时间连续工作的要求, 且能充气循环使用。
- 4、支持PLT、PCX、DXF、BMP等文件, 直接使用SHX、TTF字库, 支持自动编码、序列号、批号、日期、条形码及二维码的打标, 软件具有图形反打功能。



1. It adopts imported or high-quality domestic CO<sub>2</sub> RF laser source, which has better beam quality, high photoelectric conversion rate and good performance.
2. High engraving precision, clear marking machine, not easy to wear, fast marking speed, stable performance, no consumables for equipment.
3. Long working life, stable laser output, suitable for industrial long-term continuous work, and can be refilled with gas continuing to use.
4. Support PLT, PCX, DXF, BMP and other documents, directly use SHX, TTF fonts, support automatic coding, serial number, batch number, date, barcode and QR code marking, software has graphic anti-play function.

### 应用领域 Applicable Fields

可用于各类医用塑料类材料(圆管)表面的打标打孔等, 如: TPE、PTFE、TPU管、PU管、聚氨酯、尼龙、聚氯乙烯、聚丙烯、聚醚酮等材料。

It can be used for marking and lettering on the surface of various medical plastic materials (round tubes), such as TPE, PTFE, TPU tubes, PU tubes, polyurethane, nylon, polyvinyl chloride, polypropylene, polyether ketone and other materials.

### 技术参数 Technical Parameters

型号 Model	激光器功率 Laser power	激光波长 Laser wavelength	打标速度 Marking speed	重复精度 Repeat positioning accuracy	冷却方式 Cooling mehod	电源需求 Supply voltage
CX-150S	150W	10.64um	≤7000mm/s	±0.01mm	内置风冷或外置水冷 Internal air cooling or outer water cooling	AC 220V±10% 50HZ

### 产品展示 Sample show



硅胶管 Silicone tube

尼龙管 Nylon tube

医疗导管 Medical catheter

医疗导管 Medical catheter

### 设备优势 Equipment Advantages

- 1、热影响区域极小，避免被加工材料变形、损伤或烧焦，成品率高。
- 2、使用材料广，弥补目前广泛采用的红外激光标记加工效果不佳的缺陷。
- 3、光电转化率高，355nm输出波长，雕刻效果美观，触摸手感好，防伪效果高。
- 4、产品广泛应用于微加工、各种金属、非金属膜材料的精细雕刻。

1. The heat affected area is extremely small, which can avoid deformation, damage or burning of the processed materials and has a high yield rate.
2. It can be used in a wide range of materials, making up for the poor processing effect of the currently widely used infrared laser marking.
3. High photoelectric conversion rate, 355nm output wavelength, beautiful engraving effect, good touch feeling and high anti-counterfeiting effect.
4. The products are widely used in micro-machining and fine engraving of various metal and non-metal film materials.



### 应用领域 Applicable Fields

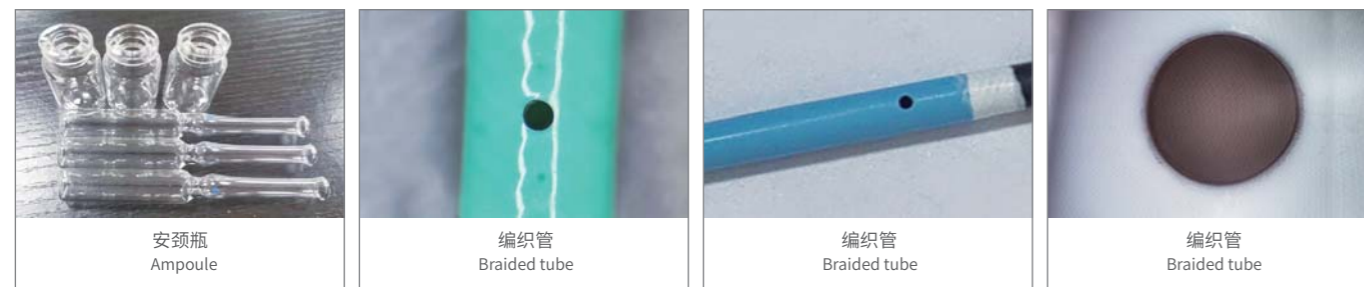
超精细加工的高端市场，编织管打孔，药瓶打孔，药品、化妆品、高分子材料的包装瓶表面打标，柔性PCB板打标，划片；硅晶圆片微孔、盲孔加工；LCD液晶玻璃二维码打标、玻璃器具表面打孔、金属表面镀层打标、塑料按键、电子元件、礼品、通讯器材、建筑材料等。

High-end market of ultra-fine processing, braided tube punching, medicine bottle punching, surface marking of medicine, cosmetics, polymer material packaging bottles, flexible PCB board marking, dicing; silicon wafer micro-hole and blind hole processing; LCD glass QR code marking, glassware surface punching, metal surface coating marking, plastic buttons, electronic components, gifts, communication equipment, building materials, etc.

### 技术参数 Technical Parameters

型号 Model	激光器功率 Laser power	激光波长 Laser wavelength	激光器类型 Laser type	加工幅面 Working area	冷却方式 Cooling method	电源需求 Supply voltage
CX-DKJ	15~30W	355nm	紫光 UV laser	1000*100mm	水冷 Water cooling system	AC 220V±10% 50HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

- 1、完美替代传统打孔工艺，完成高精度复杂曲线成型。
- 2、机动灵活适用于新产品验证及批量生产。
- 3、可实现对膜类、面料类产品全切、半切、打孔。

1. Perfectly replace the traditional punching process to complete high-precision complex curve forming.
2. Flexible and adaptable to new product verification and mass production.
3. It can realize full cutting, half cutting and punching of film and fabric products.



### 应用领域 Applicable Fields

该设备主要针对医疗行业升温毯、手术服，非金属材料的激光切割打孔。

This equipment is mainly used for laser cutting and punching of heating blankets, surgical gowns and non-metallic materials in the medical industry.

### 技术参数 Technical Parameters

型号 Model	激光器功率 Laser power	激光波长 Laser wavelength	激光器类型 Laser type	加工幅面 Working area	冷却方式 Cooling method	电源需求 Supply voltage
CX-100SD	100W	10.64um	CO2	2000mm 宽内 Wide inner	水冷 Water cooling system	AC 220V±10% 50HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

- 1、配置精密视觉定位系统。
  - 2、可焊接等径管类、变形管类、半成品管类、小幅面平面类器械。
  - 3、可加工316L、Ni-Ti、Ti、Al、Cu等金属材料。
  - 4、多样化组合式精密管自动夹持系统。
  - 5、开放式ECAD和激光加工CAM软件。
1. Machine is equipped with the precision CCD positioning system.
  2. It can weld equal diameter pipes, deformed pipes, semi-finished pipes, and small-format flat surface equipment.
  3. It can process 316L, Ni-Ti, Ti, Al, Cu and other metal materials.
  4. It has diversified combined accurate automatic clamping system for tubes.
  5. It has open ECAD and laser processing CAM software.

### 精细焊接 Fine welding

- 焊接光斑小: <100um
- 焊接精度高: 旋转运动中管类器械径向跳动<5um
- 焊接质量好: 焊缝表面光滑、无明显变形&凸点&凹坑&异色、稳定性好
- 加工效率高: 管材气动控制自动夹持, 兼容管材自动上下料系统
- Small welding spot: <100um;
- High welding accuracy: radial runout of pipe instruments in rotating motion <5um;
- Good welding quality: smooth welded surface, no obvious deformation & bumps & pits & different colors, good stability;
- High processing efficiency: automatic clamping of pipes with pneumatical controlling system, compatible with automatic pipe loading and unloading systems.

### 技术参数 Technical Parameters

系列 Series	激光器功率 Laser power	加工范围 Processing range	定位精度 Positioning	焊接光斑 Welding spot	加工材质 processing material	外形尺寸 Overall dimension	电源需求 Supply voltage
SG	标配200W 300/QCW150可选	管材 pipe $\phi 0.3-\phi 7.5 \pm 0.02\text{mm}$ 平面 plane $\phi 1.0-\phi 16.0 \pm 0.02\text{mm}$ 300mm*300m	$\pm 5\text{um}$	$< \phi 100\text{um}$	316L、Ni-Ti、Ti、Al、Cu等	1400x1600x1500mm	AC 220V $\pm 10\%$ 50HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

- 1、特定功能输出的激光器搭配先进技术的夹具,无需添加任何吸光添加剂,但接美观,洁净无污热。
  - 2、模块化设计使系统配置显活,多种可选软硬件配置可灵活满足客户定制的需求,可根据产品的特点,选择最优的配置。
  - 3、激光器与自动焊接集成为一体,结构紧凑,移动灵活。
  - 4、激光器免维护,可靠性高,寿命期间内无需更换任何器件。
  - 5、可进行点、直线、圆、方形或由直线圆弧组成的任意平面图形的焊接,也可进行圆周焊接。
  - 6、具有CCD监视功能,激光器具有红光指示功能,定位瞄准简单、快捷、准确。
1. The laser with specific function output is matched with the advanced technology fixture, without adding any light-absorbing additives, but the connection is beautiful, clean and heat-free.
  2. Modular design makes the system configuration flexible. A variety of optional software and hardware configurations can flexibly meet customer customization needs. The optimal configuration can be selected according to the characteristics of the product.
  3. The laser source is integrated with automatic welding, which has compact structure and flexible movement.
  4. The laser source is maintenance-free and highly reliable, and no components need to be replaced during its service life.
  5. It can weld points, straight lines, circles, squares or any plane figures composed of straight lines and arcs, and can also perform circular welding.
  6. With CCD monitoring function, the laser has red light indication function, and positioning and aiming are simple, fast and accurate.

### 应用领域 Applicable Fields

广泛应用于医疗行业、汽车行业、电子行业、照明行业及家电行业的氟树脂(PEA)、烯烃类树脂(PE/PP),工程树脂(PBT/PA6/PC/POM)、超级工程树脂(PSF/PPS/PEEK/LCP)、透明材料(PC/PVC/PP/PMMA/PET)的焊接。

It is widely used in the welding of fluoro-resins (PEA), olefin resins (PE/PP), engineering resins (PBT/PA6/PC/POM), super engineering resins (PSF/PPS/PEEK/LCP), and transparent materials (PC/PVC/PP/PMMA/PET) in the medical industry, automotive industry, electronics industry, lighting industry, and home appliance industry.

### 技术参数 Technical Parameters

型号 Model	激光器功率 Laser power	激光波长 Laser wavelength	激光器类型 Laser type	加工幅面 Working area	冷却方式 Cooling method	电源需求 Supply voltage
CX-N-303	30~50W (可选)	750~2um (可选)	半导体 Semiconductor	300*300mm	风冷/水冷 Water/air cooling system	AC 220V $\pm 10\%$ 50HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

- 1、双工位/双头四工位结构，激光头可以电动调节位置翻转，加工范围大，效率高。
- 2、加工区域配置多个CCD和激光源，保证定位精度，可配置OCR及复检功能。
- 3、能与车间生产管理系统进行数据通讯。

1. Double-station/double-head four-station structure, the laser head can be turned over by electric adjustment, with a large processing range and high efficiency;
2. The processing area is equipped with multiple CCDs and laser sources to ensure positioning accuracy, and can be equipped with OCR and re-inspection functions;
3. It can communicate with the workshop production management system.



### 应用领域 Applicable Fields

适用于血糖仪、血压计、耳温枪、生物检测试剂盒等塑料类产品LOGO、字符、二维码、表面装饰工艺标记。

各种定制款打标机：实现：双工位、四工位，激光头可电动调节位置，加工范围大，效率高。

It is suitable for LOGO, characters, QR code, surface decoration marking of plastic and metal products such as blood glucose meters, blood pressure monitors, ear thermometers, biological testing reagents, etc.

Various customized marking machines: Realizing double-station, four-station, laser head can be adjusted electrically, with large processing range and high efficiency.

### 技术参数 Technical Parameters

系列 Series	激光器功率 Laser power	激光器类型 Laser type	加工范围 Processing range	定位精度 Positioning	外形尺寸 Overall dimension	电源需求 Supply voltage
CX-N-D-03	5~30W	可选 Optional	110*110mm	±0.02mm	1800*1700*2350mm	AC 220V±10%, 50HZ/60HZ

### 产品展示 Sample show



### 设备优势 Equipment Advantages

- 1、采用齿轮齿条传动结构，高速双边同步驱动，是传统皮带机切割效率的3倍。
- 2、钢架结构、整体拼焊结构，消除内应力处理，确保机床变形公差在0.02mm以内。
- 3、具有良好的扩展性，可配置双激光头。
- 4、分布式抽风系统，有效吸收切割烟尘颗粒，实现清洁环保切割。
- 5、专业的图形切割及排样软件，具有混合排料功能。

1. Adoption of rack and pinion transmission structure, high-speed bilateral synchronous drive, 3 times the cutting efficiency of the traditional belt machine.
2. Steel frame structure, overall tailor-welded structure, internal stress elimination treatment, to ensure that the deformation tolerance of the machine tool is within 0.02mm
3. Good scalability, can be configured with double laser heads.
4. Distributed air extraction system, effectively absorbing cutting soot particles, realizing clean and environmentally friendly cutting.
5. Professional graphic cutting and nesting software with mixed nesting function.



### 应用领域 Applicable Fields

主要用于氢能隔膜布（PPS聚苯硫醚）。

Mainly used for hydrogen energy diaphragm cloth(PPS polyphenyl sulfide)

### 技术参数 Technical Parameters

型号 Model	激光器功率 Laser power	激光波长 Laser wavelength	激光器类型 Laser type	加工幅面 Working area	冷却方式 Cooling method	电源需求 Supply voltage
CW-2530F	130~350W	10.64um	CO <sub>2</sub>	2500*2500mm	水冷 Water system	AC 220V±10% 50HZ

### 产品展示 Sample show



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Our Partners Show (排名不分先后 names not listed in order)



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Research Institutes (排名不分先后 names not listed in order)

