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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，著作版权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

CW-650R 激光切割机 Laser Cutting Machine

设备优势 Equipment Advantages

1. 非接触式加工，与传统方式相比，切口光滑无毛刺，不变形，不损伤表面元件。机动灵活的操作方式，提升效率，节省刀模成本；
2. 双驱龙门机构+固高运动控制系统，配置进口激光器及光学系统，定位精准、微孔真圆度高，直角无过冲、无过烧，R角圆滑过渡、复杂折线曲线及微图形组合不失真；
3. 软件性能优越，可实现分层切割，可快速适应大/中/小批量产品多样化生产，非常适合新产品验证；
4. CCD自动矫正，提高切割精度，降低人为误差，减少手工对位工时；
5. 关键零部件及光学系统全部采用进口元件，保证产品生命周期的可靠性，适应24小时连续运转；
6. 可选配自动上下料，以进一步减少人工，提高设备利用率；

1. Non-contact processing, more clear and smooth without burrs, no deformation, no damage surface components comparing with the traditional methods . Flexible operation mode can improve efficiency and saves die cost;
2. Double drive gantry mechanism and solid high motion control system, equipped with imported laser source and optical system, accurate positioning, high roundness of microholes, no overshoot, no overburn at right angles, smooth transition of R Angle, complex broken line curve and micro graphics combination without distortion;
3. The software has superior performance, can realize layered cutting, can quickly adapt to the diversified production of large/medium/small batch products, and is very suitable for new product verification;
4. CCD automatically corrects, improves cutting accuracy, reduces human error, and reduces manual alignment work hours;
5. All the key parts and optical systems are imported components to ensure the reliability of the product life cycle and adapt to 24-hour continuous operation;
6. Optional automatic loading and unloading to further reduce labor cost and improve equipment utilization.

应用领域 Applicable Fields

主要用于手机薄膜行业、通讯、消费电子、薄膜类高精度切割，如gdf膜、电子纸、偏光片、触摸屏PET、OCA、手写板、柔性oled等。

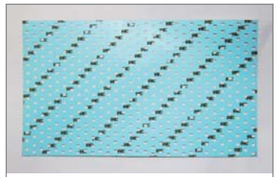
Mainly used in mobile phone film industry, communications, consumer electronics, and high-precision cutting of films, such as gdf film, electronic paper, polarizer, touch screen PET, OCA, handwriting board, flexible OLED, etc.

技术参数 Technical Parameters

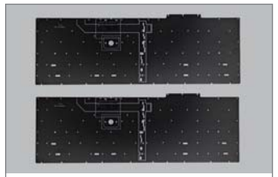
型号 Model	激光器功率 Laser power	加工幅面 Working area	定位精度 Positioning	最大空移速度 Maximum moving speed	冷却方式 Cooling mehod	电源需求 Supply voltage
CW-650R	30～150W	600 x 500mm	±0.01mm	1000mm/s	风冷/水冷 Water/air cooling system	AC 220V±10% 50HZ

产品展示 Sample show

蓝膜背胶 Blue film adhesive



双面胶半切 Double-sided tape half cut



过渡膜 Transition film

PET双面胶 PET double-sided tape

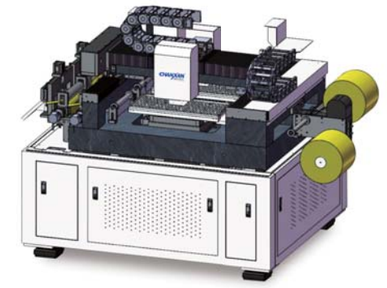
双工位卷对片皮秒激光快速微加工设备

Double-station Roll-to-sheet Picosecond Laser Fast Micromachining Equipment

设备优势 Equipment Advantages

1. 双头同时加工，切割覆盖膜等卷状材料效率翻倍；
2. 自动进料、自动切割、自动收料，完全实现自动化；
3. 切割边缘光滑，基本无碳化；
4. 高效、高精度、高产能；
5. 自主设计，严谨分光系统，实现同等功率下速度、效果最优化；
6. 具有联网功能，远程监测设备生产进度和运行状况信息；

1. Double-head processing at the same time, double the efficiency of cutting roll materials such as cover film;
2. Automatic feeding, automatic cutting, automatic receiving, fully automatic;
3. The cutting edge is smooth and basically no carbonization;
4. High efficiency, high precision and high productivity;
5. Independent design, rigorous spectroscopic system, to achieve the optimization of speed and effect under the same power;
6. With networking function, remote monitoring of equipment production progress and operating status information;



应用领域 Applicable Fields

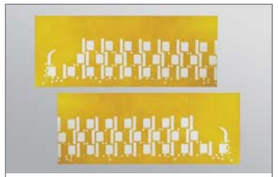
FPC覆盖膜卷对片、FPC覆盖膜卷对卷、FPC外形、FPC辅材等制程。

FPC cover film roll-to-sheet, FPC cover film roll-to-roll, FPC shape, FPC auxiliary materials and other processes.

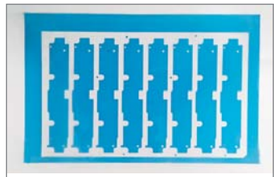
技术参数 Technical Parameters

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	外形尺寸 Overall dimension	电源需求 Supply voltage
CX-2060PZ/PLT	纳秒/皮秒可选 Nanosecond/ picosecond selectable	270 x 610mm	±5um	≤3000mm/s	2200x1500x1750mm	AC 380V±10% 50HZ

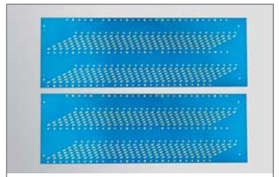
产品展示 Sample show



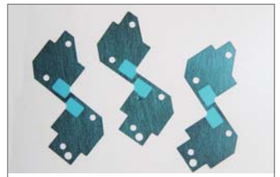
黄色覆盖膜 Yellow cover film



蓝色离型膜 Blue release film



PET 蓝膜 PET blue film



组合成型切片 Combination molding slice

高精度激光切割机 High precision Laser Cutting Machine

设备优势 Equipment Advantages

1. 采用进口QCW准连续光纤激光器，电光转换效率高，运行成本极低；
2. 高精度大理石及热处理钢架构，保证设备长期稳定性；
3. 激光器光束质量好，性能稳定，免维护寿命可达10万小时；
4. 配置直线电机和大理石平台，运行过度快、精度高；
5. CCD视觉支持多种视觉定位；

1. Using imported QCW quasi-continuous fiber laser, high electro-optical conversion efficiency and low operating cost;
2. High-precision marble and heat-treated steel structure to ensure the long-term stability of the equipment;
3. The laser beam has good quality, stable performance and maintenance-free life of up to 100,000 hours;
4. Equipped with linear motor and marble platform, running excessively fast and high precision;
5. CCD vision supports multiple vision positioning;

应用领域 Applicable Fields

LED陶瓷基板支架钻孔切割；汽车&LED陶瓷电路基板划片；手机背板，3C电子等智能终端电子产品；钟表齿轮&眼镜外框精密外形切割；听筒音筒钻孔。

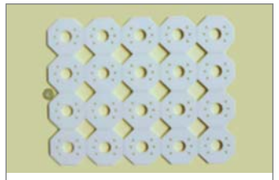
Drilling and cutting of LED ceramic substrate support; automotive & LED ceramic circuit substrate scribing; mobile phone backplanes, 3C electronics and other smart terminal electronic products; precision shape cutting of clock gears & glasses frame; earpiece speaker drilling.

技术参数 Technical Parameters

型号 Model	加工幅面 Working area	定位精度 Positioning	激光器功率 Laser power	切割缝宽 cutting slit width	外形尺寸 Overall dimension	电源需求 Supply voltage
CW-6060J	600 x 500mm	±3um	100/150/1000W	0.05-0.12mm	1400x1600x1800mm	AC 380V±10% 50HZ

产品展示 Sample show

多孔陶瓷片切割
Porous ceramic chip cutting



多孔陶瓷片切割
Porous ceramic chip cutting

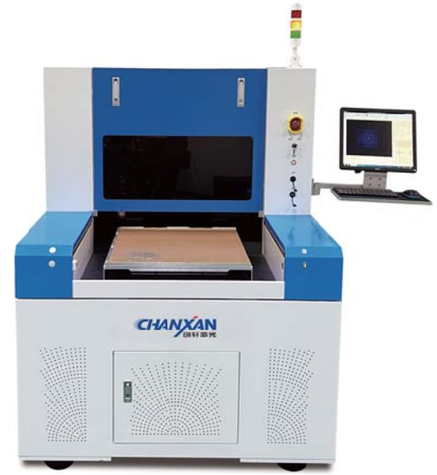
新能源汽车产品
New energy vehicle products

新能源汽车产品
New energy vehicle products

飞秒/皮秒/纳秒/紫外激光切割机
Femtosecond/Picosecond/Nanosecond/UV Laser Cutting Machine

设备优势 Equipment Advantages

1. 采用超短脉冲的紫外皮秒激光器，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. 配置高像素CCD自动对位功能，保证产品切割对位精确；
4. 可配置超大幅面的远心场镜，确保加工大幅面产品时不要拼接。最大单一加工幅面可达到200x200mm;
5. 配置高精度的振镜确保产品加工精度和转角工艺效果。重复精度可达1um;



1. The ultra-short pulse ultraviolet picosecond 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 high-pixel CCD automatic alignment function to ensure accurate product cutting and alignment;
4. It can be equipped with ultra-large format telecentric field lens to ensure that it is not spliced when processing large format products. The largest single processing format can reach 200x200mm;
5. Equipped with high-precision galvanometer to ensure product processing accuracy and corner craft effects. The repeatability precision can reach 1um;

应用领域 Applicable Fields

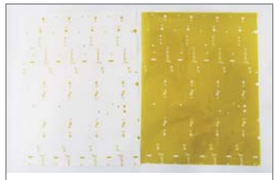
应用于手机行业、通讯、消费电子、半导体、科研、生物医疗等领域。例如柔性OLED屏幕、LCP、PI膜、FPC、纳米金、偏光片、FPC覆盖膜等非金属复合材料的激光精密切割、钻孔、刻蚀加工。

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 such as laser precision cutting, drilling and etching.

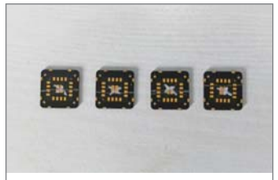
技术参数 Technical Parameters

型号 Model	激光器功率 Laser power	加工幅面 Working area	定位精度 Positioning	重复精度 Repeatability	外形尺寸 Overall dimension	电源需求 Supply voltage
CW-6050FZ/PZ/Z	10、30、35W	500x500mm/600x900mm 可定制双台面 Customized double table	±1um	±1um	1700x1600x2200mm	AC 380V±10% 50HZ

产品展示 Sample show

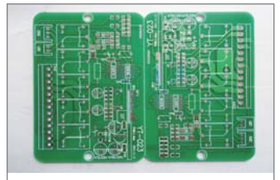


Pi 膜切割
Pi film cutting



芯片切割
Chip cutting

FPC 切割
FPC cutting



绝缘阻断及外型切割
Insulation blocking and shape cutting

玻璃激光切割机 Glass Laser Cutting Machine

设备优势 Equipment Advantages

1、激光器采用皮秒激光器，切割崩边小，切割后强度高，热影响区域小；

2. 光路系统均采用进口镜片，从而保证高质量的光学传输；

3. 设备机台均采用大理石石材，平面度好、不易变形、抗震吸震能力强，保证设备加工的稳定性；

4. 设备采用进口高速振镜，加工精度高、长期稳定性好。

1. The laser adopts a picosecond laser, which has small cutting edges, high strength after cutting, and small heat affected area;

2. The optical system adopts imported lenses to ensure high-quality optical transmission;

3. The equipment and machines are all made of marble stone, which has good flatness, is not easy to deform, and has strong shock resistance and shock absorption ability to ensure the stability of equipment processing;

4. The equipment adopts imported high-speed galvanometer, with high processing precision and long-term stability.

应用领域 Applicable Fields

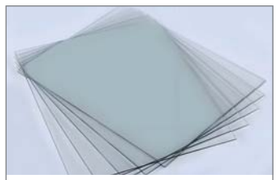
玻璃加工：仪表面板、显示面板、蓝宝石加工、手表、耐磨屏幕、电子零部件、半导体行业等。

Glass processing: instrument panels, display panels, sapphire processing, watches, wear-resistant screens, electronic components, semiconductor industries, etc.

技术参数 Technical Parameters

型号 Model	加工幅面 Working area	定位精度 Positioning	加工崩边 Processing chipping	移动速度 Moving speed	最小孔孔径 Minimum hole diameter	外形尺寸 Overall dimension	电源需求 Supply voltage
CW-6050IPL	500 x 500mm	±3um	⩽20um	1000mm/s	0.2-1.5mm	1800x1600x2200mm	AC 380V±10% 50HZ

产品展示 Sample show



玻璃薄片切割
Glass flake cutting

玻璃片切割
Glass sheet cutting

玻璃片异型切割
Glass slice heterotype cutting

玻璃薄片异型切割
Glass flake heterotype cutting

CX-HV 视觉互移打标机 Visual Mutual Shift Marking Machine

设备优势 Equipment Advantages

1. 移动打标最大程度上减少了打标过程中人工放料摆位的干预，提高自动化水平。

2. 高精度、高像素的视觉系统辅助，重复定位精度可达±0.01mm，视觉识别速度0.01s。

3. 采用高精度伺服丝杠传动系统，安装调试时通过精密准直仪测试，精度稳定在±0.05mm以内。

4. 整体包围式机架，符合欧洲安全标准。

5. 视觉系统可兼容各种类型激光打标机，如光纤，紫光，CO_2，绿光等。

1. Machine minimizes the intervention of manual operation during the marking process and improves the level of automation.

2. High-precision with repeatable positioning accuracy of ±0.01mm, high-pixel vision system assisted with visual recognition speed of 0.01s.

3. The high-precision servo screw drive system is used, and machine passed the Precision Collimator Test during installation and debugging, and the cutting accuracy is stable within ±0.05mm.

4. The overall enclosed frame meets European safety standards.

5. The vision system is compatible with all types of laser marking machines such as fiber laser, violet laser, CO2 laser, green laser and more.

应用领域 Applicable Fields

高端芯片、精密电子部件智能识别打标，汽车按键、不规则精密零部件打标。

Ideal for high-end chips marking, precision electronic components marking, car buttons marking, irregular shaped precision parts marking with smart identification system.

技术参数 Technical Parameters

型号 Model	激光器功率 Laser power	加工幅面 Working area	打标线速 Marking speed	重复精度 Repeatability	耗电功率 Whole power	电源需求 Supply voltage
CX-HV	可选 Optional	可定制 Customizable	⩽8000mm/s	±0.002mm	1200w	AC 220V±10% 50HZ

产品展示 Sample show

IC 打标
IC making

芯片打标
Chip marking

高频变压器打标
High frequency transformer marking

手机壳打标
Case marking

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