

SHANGHAI ELECTRIC



**上海机床厂有限公司**  
SHANGHAI MACHINE TOOL FACTORY CO., LTD  
(原上海冲剪机床厂)

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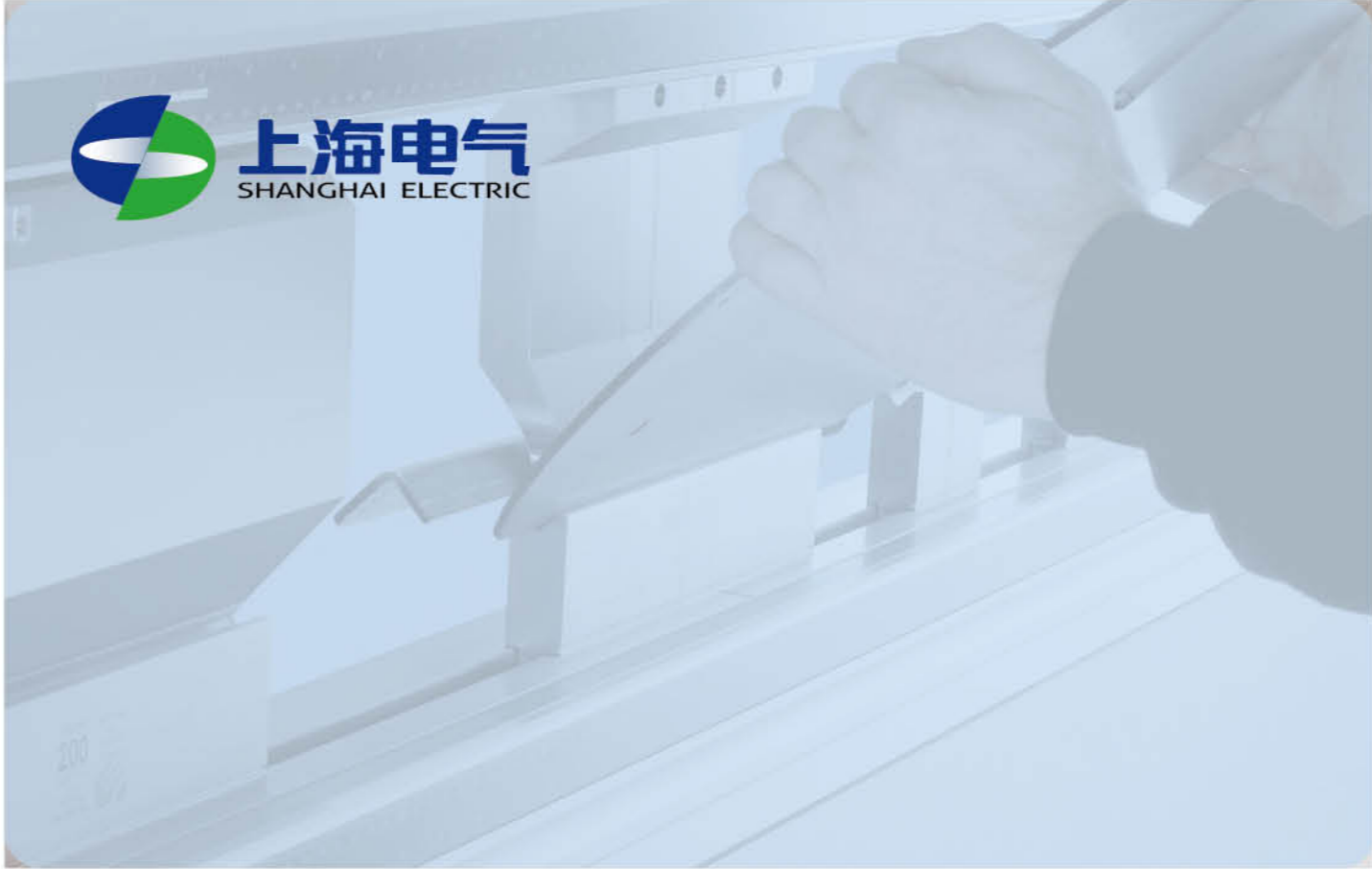
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SPS 上海冲剪  
上海机床厂有限公司  
SHANGHAI MACHINE TOOL FACTORY CO., LTD

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上海机床厂有限公司隶属于上海电气集团股份有限公司，是国内技术实力雄厚的大型精密机床制造企业。2012年，拥有上冲“SPS”“AS”“TL”品牌的上海冲剪机床厂和拥有“凹凸”“AUTO”品牌的上海第二锻压机床厂战略重组，成为上海机床厂有限公司，上机公司的成型机床产品品种包含：AS系列高精度数控折弯机、PSA系列电液同步数控折弯机、PSB系列主伺服电液同步数控折弯机、PSM系列双向泵控数控折弯机、PSN系列扭轴伺服数控折弯机，PSD系列双机联动数控折弯机；QC11Y、QC11K系列闸式剪板机、QC12Y、QC12K系列液压摆式剪板机；数控龙门式刨槽机、数控龙门式四面刨槽机、数控立式刨槽机等。

公司技术力量雄厚，设有专属的技术研发中心，由长期从事机床研发的团队领航，专业从事精密磨床、成型机床和重型机床等产品研发；并在推动行业科技创新、技术进步、标准制定等方面起到带头引导作用。

公司以“塑造人品，制造精品”的质量理念贯穿于生产、经营、管理等全过程，相继获得：全国机床工具行业精心创品牌十佳企业、上海市文明单位、上海市质量管理奖、上海市高新技术企业、“中国最具市场竞争力品牌”、中国首家出口免检、出口管理一类企业、现代化管理企业、中国名牌、上海名牌等殊荣。

公司通过不断自主创新，瞄准国际机床的先进水平，以提高国内机床行业的技术品位为己任，推动产品升级换代。

Shanghai Machine Tool Factory Co., Ltd. is affiliated with Shanghai Electric Group Co., Ltd. and is a large precision machine tool manufacturing enterprise with strong technical strength in China. In 2012, Shanghai Punching and Shearing Machine Tool Factory, which owns the brands of "Upward Punching", "SPS", "AS", and "TL", and Shanghai Second Forging and Pressing Machine Tool Factory, which owns the brands of "Concave and Convex" and "AUTO", strategically restructured into Shanghai Machine Tool Factory Co., Ltd. The company's molding machine tool products include: AS series high-precision CNC bending machines, PSA series electro-hydraulic synchronous CNC bending machines, PSB series main servo electro-hydraulic synchronous CNC bending machines, PSM series bidirectional pump controlled CNC bending machine, PSN series torsion axis servo CNC bending machine, PSD series dual machine linkage CNC bending machine; QC11Y and QC11K series gate type shear machines, QC12Y and QC12K series hydraulic swing shear machines; CNC gantry grooving machine, CNC gantry four sided grooving machine, CNC vertical grooving machine, etc. The company has a strong technical force and a dedicated technology research and development center, led by a team that has been engaged in machine tool research and development for a long time. It specializes in the research and development of precision grinding machines, forming machine tools, and heavy-duty machine tools; And play a leading and guiding role in promoting industry technological innovation, technological progress, and standard formulation. The company's quality concept of "shaping character and manufacturing high-quality products" runs through the entire process of production, operation, and management. It has successively won: Top 10 Enterprises in the National Machine Tool Industry for Carefully Creating Brands, Shanghai Civilized Unit, Shanghai Quality Management Award, Shanghai High tech Enterprise, "China's Most Competitive Brand in the Market", China's first export inspection free and export management first-class enterprise, modern management enterprise, Chinese famous brand Shanghai famous brand and other honors. The company aims to improve the technological grade of the domestic machine tool industry by continuously innovating independently and aiming at the advanced level of international machine tools, promoting product upgrading and upgrading.



## 赓续红色基因 传承上机精神







### AS 系列

#### 高精度电液数控折弯机

- 知名品牌电机驱动油泵，节能，速度快；
- 值得信赖的品质，稳定可靠；
- 适合对各类工件进行高质量折弯加工；
- 工作台自动机械挠度补偿闭环控制。



### PSA 系列

#### 电液同步数控折弯机

- 流线型设计，高速度、高精度、高刚性的数控折弯机；
- 电液伺服同步技术，更加精准地控制滑块的精度；
- 工作台机械挠度补偿和喉口变形补偿机构，确保折弯精度；
- 后挡料采用数字交流伺服电机驱动，精密滚珠丝杆传动，直线导轨导向。



### PSB 系列

#### 主伺服电液同步数控折弯机

- 电液伺服阀及光栅尺构成的闭环控制方式，滑块位置反馈精度高，同步性能好，折弯精度高；
- 后挡料采用功能更为齐全的后挡料轴的后挡料机构；
- 液压系统采用集成式控制系统，减少管路安装，克服漏油现象，确保机床工作稳定性，外形简洁美观；
- 液压挠度自动补偿，数控系统自动调整补偿量，方便准确；



### PSM 系列

#### 高端型双向泵控数控折弯机

- 机器采用更高端的配置，更加适合国内外高端客户的需求；
- 双向泵控同步控制技术，速度更快、效率更高、精度更高、节能环保；
- 高刚性整机设计，机架和滑块变形更小，产品精度更高；
- 更大行程和装模高度设计，方便大型工件折弯操作；
- 高性能后挡料，速度更快、精度更高。



### PSD 系列

#### 双机联动数控折弯机

- 由两台数控折弯机，通过系统联动，可折弯大型工件；
- 高速度、高精度、高刚性的数控折弯机；
- 电液伺服同步技术，更加精准地控制滑块的精度；
- 工作台机械挠度补偿和喉口变形补偿机构，确保折弯精度；



### PSS 系列

#### 全电数控折弯机

- 整机焊接去应力处理，龙门加工中心一次装夹加工，强度高，刚性好，精度高；
- 电缸采用重载研磨滚珠丝杆，寿命长，精度高；
- 无需液压油，全电机伺服驱动，传动效率高，节能环保；
- 可选配多种控制系统，实现 4 到 8 轴数控控制。



### PSN 系列

#### 扭轴伺服数控折弯机

- 整机钢板焊接结构，采用振动时效消除内应力，机器强度高、刚性好；
- 液压双油缸上传动，机械挡块，扭轴同步，运行平稳可靠，精度高；
- 后挡料距离及滑块行程采用伺服电机调节及手动微调方式，并配有数字显示装置，使用方便快捷；
- 下模配有挠度补偿装置；
- 10 英寸高清显示屏。



### QC11K 系列

#### 数控液压闸式剪板机

- 第二代液压剪板机；
- 采用三点支撑滚动导轨，消除支撑间隙，提高剪切质量；
- 刀片间隙用手轮调整，迅速、准确、方便；
- 矩形刀片，四个刃口均可使用，使用寿命长；
- 剪切角可调，减少板料扭曲变形；
- 上刀架采用内倾结构，便于落料，并提高工件的精度；
- 具有分段剪切功能，具有灯光对线的功能；



### QC12K 系列

#### 数控液压摆式剪板机

- 主机装配剪板机专用数控系统；
- 后挡料位置实时显示；
- 多步编程功能，后挡料自动运行连续定位，实现后挡料位置的自动调节；
- 剪切计数功能，实时显示剪切数量，断电记忆后挡料位置、程序及参数；
- 采用进口滚珠丝杆、直线导轨，确保了定位精度，机器加工精度更高。



#### 数控立式刨槽机 系列

- 采用框架式结构。整体刚性好，变形小；
- 横梁固定不动，工件由后送料机构送进，工作台采用碳素钢工具制造，高频表面淬火，使工作台硬度大于不锈钢硬度；
- 工作台前后均设有托料装置，防止加工过程中板料划伤。



#### 数控龙门式刨槽机 系列

- 上下料方便，气冷无环境污染四轴数控，伺服控制，实现全自动运行，提高加工精度；
- 采用进口液压控制系统，压力大，紧固力可靠，噪音低，能耗小；
- 采用精研磨齿，高速钢锻件调质斜齿条导轨传动，移动速度可变频调整，切削过程平稳。



#### 数控龙门式四面刨槽机 系列

- 刀架具有自动旋转功能，定位精度高，可实现横向和纵向开槽，无需旋转工件，横向、纵向驱动均采用伺服电机驱动，数控五轴控制。
- 采用气动压料控制系统，压力大，紧固力可靠、噪音低、能耗小、污染小。
- 采用精研磨齿，高速钢锻件调质斜齿条、重载滚柱导轨传动，移动速度数控调整，切削过程平稳。

## 目录 CONTENTS

AS 高精度电液数控折弯机	01
PSA 电液同步数控折弯机	03
PSB 主伺服电液同步数控折弯机	05
PSM 泵控电液同步数控折弯机	07
PSD 双机联动数控折弯机	15
PSN 扭轴伺服数控折弯机	17
电液数控折弯机系列技术参数	21
扭轴数控折弯机系列技术参数	22
PSS 全电数控折弯机	23
QC11K 数控液压闸式剪板机	25
QC12K 数控液压摆式剪板机	27
QC11K 系列技术参数	31
QC12K 系列技术参数	32
数控立式刨槽机	33
数控龙门式刨槽机	35
数控龙门式四面刨槽机	37



# ELECTRO HYDRAULIC SYNCHRONOUS CNC PRESS BRAKE

## AS 电液同步数控折弯机

### 性能特点

#### Performance and Features

- 传统匠心设计，高精度、高刚性的数控折弯机；
- 电液同步技术，更加精准地控制滑块的精度；
- 工作台机械挠度补偿和喉口变形补偿机构，确保折弯精度；
- 后挡料采用数字交流伺服电机驱动，精密滚珠丝杆传动，直线导轨导向。

- Traditional craftsmanship design, high-precision and high rigidity CNC bending machine;
- Electrohydraulic synchronization technology, more precise control of the accuracy of the slider;
- Mechanical deflection compensation and throat deformation compensation mechanisms on the workbench ensure bending accuracy;
- The rear stopper is driven by a digital AC servo motor, precision ball screw drive, and linear guide rail guidance.



数控系统可选配



# ELECTRO HYDRAULIC SYNCHRONOUS CNC PRESS BRAKE PSA 电液同步数控折弯机



## 性能特点

### Performance and Features

- 流线型设计，高速度、高精度、高刚性的数控折弯机；
  - 电液伺服同步技术，更加精准地控制滑块的精度；
  - 工作台机械挠度补偿和喉口变形补偿机构，确保折弯精度；
  - 后挡料采用数字交流伺服电机驱动，精密滚珠丝杆传动，直线导轨导向。
- 
- Streamlined design, high-speed, high-precision, and high rigidity CNC bending machine;
  - Electro hydraulic servo synchronization technology, more precise control of slider accuracy;
  - Mechanical deflection compensation and throat deformation compensation mechanisms on the workbench ensure bending accuracy;
  - The rear stopper is driven by a digital AC servo motor, precision ball screw drive, and linear guide rail guidance.

数控系统可选配



# MAIN SERVO ELECTRO-HYDRAULIC SYNCHRONOUS CNC PRESS BRAKE

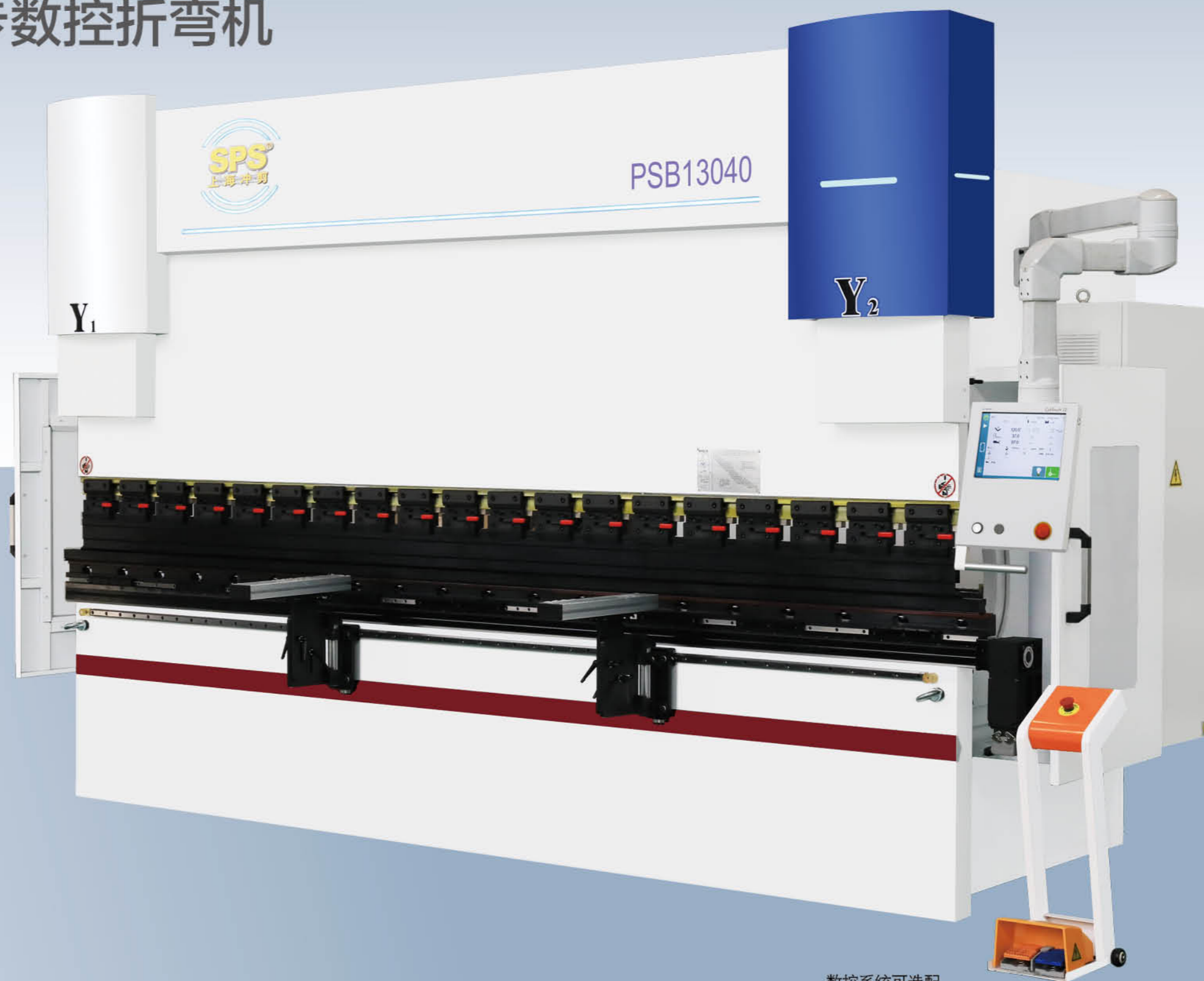
## PSB 主伺服电液同步数控折弯机

### 性能特点

#### Performance and Features

- 整体焊接加工结构；
- 电液伺服阀及光栅尺构成的闭环控制方式，滑块位置反馈精度高，运行准确平稳，同步性能好，折弯精度、滑块的重复定位精度高；
- 后挡料可根据客户需求采用功能更为齐全的多个后挡料轴的后挡料机构；
- 液压系统采用集成式控制系统，减少了管路的安装，克服漏油现象，确保了机床的工作稳定性，外形简洁美观；
- 液压挠度自动补偿机构，消除了滑块变形对工件质量的影响，数控系统自动调整补偿量，方便准确；
- 数控系统可选配荷兰DELEM、意大利ESA或瑞士CYBELEC电液伺服折弯机专用数控系统。

- Overall welded and processed structure.
- The closed-loop control method composed of electro-hydraulic servo valve and grating ruler has high feedback accuracy of slider position, accurate and stable operation, good synchronization performance, high bending accuracy, and repeated positioning accuracy of slider;
- Backgauge mechanism can control several backgauge axes.
- Integrated hydraulic system decreases the pipe connections, oil leakage, and increases the stability and overall beautifies.
- Hydraulic compensation mechanism helps to prevent the deformed slider from affecting the quality of the workpiece, and the compensation mechanism is adjusted automatically by the CNC controller which is convenient and accuracy.
- CNC controller uses Holland DELEM, Italy ESA or Swiss CYBELEC with Multi-languages.



数控系统可选配



# ELECTRO HYDRAULIC SYNCHRONOUS CNC PRESS BRAKE

## PSM 泵控电液同步数控折弯机



### 性能特点

#### Performance and Features

- 流线型设计，高速度、高精度、高刚性的数控折弯机；
  - 电液伺服同步技术，更加精准地控制滑块的精度；
  - 工作台机械挠度补偿和喉口变形补偿机构，确保折弯精度；
  - 后挡料采用数字交流伺服电机驱动，精密滚珠丝杆传动，直线导轨导向。
- Streamlined design, high-speed, high-precision, and high rigidity CNC bending machine;
  - Electro hydraulic servo synchronization technology, more precise control of slider accuracy;
  - Mechanical deflection compensation and throat deformation compensation mechanisms on the workbench ensure bending accuracy;
  - The rear stopper is driven by a digital AC servo motor, precision ball screw drive, and linear guide rail guidance.

数控系统可选配



## 机床配置说明



### 比例阀液压跟随控制技术

采用液压跟随控制技术，保证 Y1 和 Y2 轴高速运行时的同步精度，实现较高的折弯加工效率。

Adopting hydraulic following control technology to ensure synchronous accuracy during high-speed operation of Y1 and Y2 axes, achieving high bending processing efficiency.



### 电气控制系统

选用国际知名品牌电气元件，欧姆龙及法国施耐德电气，均符合 DIN 和 ISO 相关标准，质量稳定，安全可靠。

We use internationally renowned brands of electrical components, including Omron and Schneider Electric, which comply with DIN and ISO standards, ensuring stable quality, safety, and reliability.



### 知名品牌普通电机（标配）

标配品牌“皖南”电机，持久耐用，动力强劲；可选配“西门子”贝得电机和“ABB”电机。

Standard brand "Wannan" motor, durable and powerful; Optional options include "Siemens" Beide motors and "ABB" motors.



### 进口光栅尺

光栅尺可测定滑块与工作台的确切距离，光栅尺与工作台相连，立柱的变形不会影响位置检测，数据立即被反馈至数控系统，便可计算并输出伺服阀控制信号，对其进行必要校正，确保工作台和滑块间始终处于平衡状态。

The grating ruler can measure the exact distance between the slider and the workbench. The grating ruler is connected to the workbench, and the deformation of the column will not affect position detection. The data is immediately fed back to the CNC system, and the servo valve control signal can be calculated and output. Necessary correction can be made to ensure that the workbench and slider are always in a balanced state.



### 主伺服电机及不锈钢油箱（选配）

按需供油，减少溢流，节能约 30-40%；油温不易升高，延长液压系统及部件使用寿命；减少因液压件老化导致的漏油，卡阀，压力不够的问题；相对普通主电机，噪音小，对人体伤害少。

Supply oil as needed, reduce overflow, and save energy by about 30-40%; The oil temperature is not easy to rise, extending the service life of hydraulic systems and components; Reduce oil leakage, valve sticking, and insufficient pressure caused by aging hydraulic components; Compared to ordinary main motors, it has low noise and less harm to the human body.



### 光幕保护（选配）

先进的光幕保护装置，提高了机器的安全性能，自动保护操作人员的安全。

Advanced light curtain protection device improves the safety performance of the machine and automatically protects the safety of operators.



## 机床配置说明



### 机械挠度补偿装置 (标配)

采用机械挠度补偿装置,可按照数控系统编程的指令自动调整;  
工作台整体补偿,补偿楔块整体曲线更贴合实际机床变形曲线,工件整体角度和直线度更佳。

Adopting a mechanical deflection compensation device, it can automatically adjust according to the instructions programmed by the CNC system;  
The overall compensation of the workbench and the overall curve of the compensation wedge are more in line with the actual deformation curve of the machine tool, and the overall angle and straightness of the workpiece are better.



### 4+1 轴后挡料

精确稳固的后挡料系统,新颖独特的双直线导轨结构,确保极佳的定位精度,多级挡位设计,加大定位范围,物超所值。

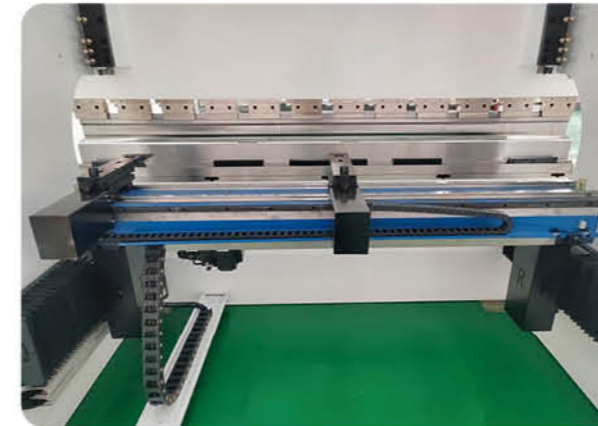
The precise and stable rear retaining system, with a novel and unique dual linear guide rail structure, ensures excellent positioning accuracy. The multi-level gear design increases the positioning range and provides excellent value for money.



### 按步距调节前托料

标准配置为按步距调节的前托料,手动调节上下高度,并具有左右旋转功能。

The standard configuration is a front pallet that is adjusted according to the step distance, with manual adjustment of the upper and lower heights, and a left and right rotation function.



### 6+1 轴后挡料 (标准6+1轴后挡料)

数控轴采用交流伺服电机驱动,精密滚珠丝杠传动,直线导轨导向;

轴数: X、Y1、Y2、R、Z1、Z2;

The CNC axis is driven by an AC servo motor, precision ball screw drive, and linear guide rail guidance;  
Number of axes: X、Y1、Y2、R、Z1、Z2 ;



### 上模快速夹紧 双V下模

上模机械快速夹紧装置,操作简便,更换上模更快更方便;  
下模采用双V模,“T”型快速夹紧方式,可实现快速更换模具。

Mechanical fast clamping device for upper mold, easy to operate, faster and more convenient to replace the upper mold;  
The lower mold adopts a dual V mold and a "T" type quick clamping method, which can achieve rapid mold replacement.



### 多轴铝合金后挡料 (选配)

可实现复杂工件的折弯定位,也可以实现倾斜面工件的折弯定位;

轴数: X1、X2、R1、R2、Z1、Z2;  
(可扩展轴数)

It can achieve bending and positioning of complex workpieces, as well as bending and positioning of inclined workpieces;

Number of axes: X1, X2, R1, R2, Z1, Z2;  
(Number of expandable axes)



## 机床数控系统选配



### DA-53T / 荷兰DELEM公司

- ◆ 10.1" 高分辨率真彩 TFT 显示屏
- ◆ 最多 4 轴控制 (Y1, Y2 + 2 个辅助轴)
- ◆ 挠度补偿控制
- ◆ 具有模具 / 材料 / 产品库
- ◆ 支持伺服或变频控制
- ◆ 先进的 Y 轴控制算法, 既可控制闭环阀, 也可控制开环阀。
- ◆ 网络双机联动 (选配)
- ◆ USB 外设接口。Profile-53TL 离线编程软件

- ◆ 10.1 "high resolution true color TFT display
- ◆ up to 4 axis control (Y1, Y2 + 2 auxiliary axes)
- ◆ deflection compensation control with mold / material / Product Library
- ◆ Support servo or frequency conversion control
- ◆ advanced Y-axis control algorithm can control both closed-loop valve and open-loop valve.
- ◆ network dual computer linkage (optional)
- ◆ USB peripheral interface. Profile-53tl offline programming software



### CybTouch 8 / CYBELEC

- ◆ 大屏幕, 高清晰度和对比度的触屏系统。
- ◆ 便捷界面, 清晰显示和大图标按钮。
- ◆ EasyBend 页面单步折弯非常方便。
- ◆ 完善的编程可以使批量的多步折弯提高效率。
- ◆ 在线帮助和弹出式提示使得软件界面非常友好。
- ◆ 支持多种语言。
- ◆ 使用 PC 或者笔记本可以通过无线软件升级和传输数据。

- ◆ Large screen, high-definition and contrast touch screen system.
- ◆ Convenient interface, clear display and large icon buttons.
- ◆ The EasyBend page is very convenient for single step bending.
- ◆ Perfect programming can improve efficiency in batch multi-step bending.
- ◆ The online help and pop-up prompts make the software interface very user-friendly.
- ◆ Supports multiple languages.
- ◆ Using a PC or laptop, data can be upgraded and transmitted through wireless software.



### DA-58T / 荷兰DELEM公司

- ◆ 2D 触摸式图形编程
- ◆ 15" 高分辨率的 TFT 真彩显示
- ◆ 折弯工序计算
- ◆ 扰度补偿控制
- ◆ 伺服和变频器控制模式
- ◆ 先进的 Y 轴控制算法, 即可控制闭环阀, 也可控制开环阀。
- ◆ USB 接口。Profile-58TL 离线编程软件

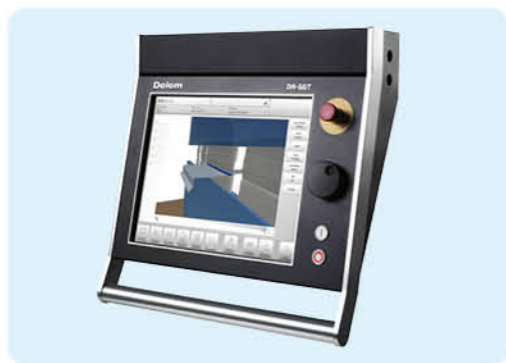
- ◆ 2D touch graphic programming
- ◆ 15 "high resolution TFT true color display
- ◆ calculation of bending process
- ◆ Disturbance compensation control
- ◆ servo and frequency converter control mode
- ◆ the advanced Y axis control algorithm can control the closed loop valve or the open loop valve.
- ◆ USB interface. Profile-58TL off-line programming software



### CybTouch 12 / CYBELEC

- ◆ 大触摸屏, 色彩鲜艳, 对比度高。
- ◆ 便捷界面, 清晰显示和大图标按钮。
- ◆ 直观友好易于操作的人机界面。
- ◆ 完善的编程可以使批量的多步折弯提高效率。
- ◆ 页面单步折弯非常方便。
- ◆ 在线帮助和弹出式提示使得软件界面非常友好。
- ◆ 使用 PC 或者笔记本可以通过无线软件升级和传输数据。
- ◆ USB 接口传输 / 备份数据。
- ◆ 支持多种语言

- ◆ Large touch screen, bright color, high contrast.
- ◆ Convenient interface, clear display and large icon buttons.
- ◆ Visual, friendly and easy to operate man-machine interface.
- ◆ Perfect programming can improve the efficiency of batch multi-step bending.
- ◆ One-step bending of the page is very convenient.
- ◆ Online help and pop-up prompts make the software interface very friendly.
- ◆ Using PCs or laptops, data can be upgraded and transmitted through wireless software.
- ◆ USB interface transfers/back up data.
- ◆ Support multiple languages



### DA-66T / 荷兰DELEM公司

- ◆ 2D 触摸式图形编程
- ◆ 3D 产品图形模拟显示
- ◆ 17" 高分辨率 TFT 真彩显示
- ◆ 完整的 Windows 应用程序包
- ◆ 兼容 Delem 模块化结构系统
- ◆ USB, 外设接口
- ◆ 多任务环境下用户程序应用
- ◆ 角度检测传感器接口

- ◆ 2D graphical touch screen programming mode
- ◆ 3D visualization in simulation and production
- ◆ 17" high resolution color TFT
- ◆ Full Windows application suite
- ◆ Delem Modusys compatibility (module scalability and adaptively)
- ◆ USB, peripheral interfacing
- ◆ Open system architecture
- ◆ Sensor bending & correction interface



### CybTouch 15 PS / CYBELEC

- ◆ 15 英寸现代流线型玻璃表面触摸屏, 可搭配手套使用;
- ◆ 用户友好的人机界面, 得益于直观的编程和易于设置;
- ◆ 使用专用向导 (自动调整);
- ◆ 二维图形轮廓图 (触摸轮廓) 和精确的二维程序创建;
- ◆ 自动弯板顺序计算;
- ◆ 易用的单弯页面;
- ◆ 存储容量大;
- ◆ 内部备份和恢复功能;
- ◆ 无线通信扩展诊断和更新 (带笔记本电脑)。

- ◆ 15 inch modern streamlined glass surface touch screen, can be used with gloves;
- ◆ User friendly human-machine interface, thanks to intuitive programming and easy setup;
- ◆ Using dedicated wizards (automatic adjustment);
- ◆ 2D graphic contour map (touch contour) and precise 2D program creation;
- ◆ Automatic bending sequence calculation;
- ◆ Easy to use single bend page;
- ◆ Large storage capacity;
- ◆ Internal backup and recovery functions;
- ◆ Wireless communication extension diagnosis and update (with laptop).



### DA-69T / 荷兰DELEM公司

- ◆ 2D 和 3D 触摸式图形编程
- ◆ 3D 产品图形模拟显示
- ◆ 17" 高分辨率 TFT 真彩显示
- ◆ 完整的 Windows 应用程序包
- ◆ 兼容 Delem 模块化结构系统
- ◆ USB, 外设接口
- ◆ 多任务环境下用户程序应用
- ◆ 角度检测传感器接口

- ◆ 2D and 3D graphical touch screen programming mode
- ◆ 3D visualization in simulation and production
- ◆ 17" high resolution color TFT
- ◆ Full Windows application suite
- ◆ Delem Modusys compatibility (module scalability and adaptively)
- ◆ USB, peripheral interfacing
- ◆ Open system architecture
- ◆ Sensor bending & correction interface



### CybTouch VP88 / CYBELEC

- ◆ 19" 流线型触摸屏设计, 戴手套也可进行操作。
- ◆ 与 CT 系列类似的图形化人机界面, 易学易用。
- ◆ 2D 手指画图编程功能 (画截面图) 和 3D 折弯演示 (需配合 3D 离线编程软件)。
- ◆ 自动计算折弯步序。
- ◆ 可配置折弯机的各种前送料、后送料轴, 更高级的算法, 折弯精度更高。
- ◆ 双机联动, 模具输入。
- ◆ 针对复杂零件使用产品组功能进行生产管理。
- ◆ 分步折弯功能、压底折弯。
- ◆ 在 Windows 10 操作系统下运行, 以实现多任务管理和联网。
- ◆ 角度测量、条码读取、定制化工业 4.0 软件。

- ◆ 19 "streamlined touch screen design, can also be operated while wearing gloves.
- ◆ Similar to the CT series, the graphical human-machine interface is easy to learn and use.
- ◆ 2D finger drawing programming function (drawing cross-sectional views) and 3D bending demonstration (required in conjunction with 3D offline programming software).
- ◆ Automatically calculate the bending step sequence.
- ◆ Various front feeding and rear blocking shafts of the bending machine can be configured.
- ◆ More advanced algorithms with higher bending accuracy.
- ◆ Dual machine linkage and mold input.
- ◆ Use product group functions for production management of complex parts.
- ◆ Step by step bending function and bottom pressing bending.
- ◆ Run under the Windows 10 operating system to achieve multitasking management and networking.
- ◆ Angle measurement, barcode reading, and customized Industry 4.0 software.



# DUAL MACHINE LINKAGE CNC PRESS BRAKE

## PSD 双机联动数控折弯机



机床型号 type	公称压力 Nominal force (KN)	工作台长度 Worktable length (mm)	立柱间距 Poles distance (mm)	喉口深度 Throat depth (mm)	滑块行程 Ram Strokes (mm)	最大开启高度 Max open (mm)	主电机功率 Power (Kw)
110/3200	2 × 1100	2 × 3200	2700	450	200	480	2×7.5
110/4000	2 × 1100	2 × 4000	3500	450	200	480	2×7.5
170/4000	2 × 1700	2 × 4000	3500	400	200	480	2×11
220/4000	2 × 2200	2 × 4000	3500	400	200	480	2×15
250/3200	2 × 2500	2 × 3200	2700	400	250	530	2×18.5
250/4000	2 × 2500	2 × 4000	3500	400	250	530	2×18.5
250/5000	2 × 2500	2 × 5000	4000	400	250	530	2×18.5
250/6000	2 × 2500	2 × 6000	5000	400	250	560	2×18.5
320/5000	2 × 3200	2 × 5000	3900	400	250	560	2×22
320/6000	2 × 3200	2 × 6000	4900	400	250	560	2×22
400/7000	2 × 4000	2 × 7000	5800	450	300	630	2×30
500/6000	2 × 5000	2 × 6000	4900	450	300	650	2×37

数控系统可选配



# TORSION AXIS SERVO CNC PRESS BRAKE

## PSN 扭轴伺服数控折弯机



### 性能特点

#### Performance and Features

- 整机钢板焊接结构，采用振动时效消除内应力，机器强度高、刚性好；
- 液压双油缸上传动，机械挡块，扭轴同步，运行平稳可靠，精度高；
- 后挡料距离及滑块行程可通过数控系统精准控制，使用方便快捷；
- 配有挠度补偿装置（选配）。

■ The whole machine has a welded steel plate structure, which adopts vibration aging to eliminate internal stress, and the machine has high strength and good rigidity;

■ Hydraulic dual oil cylinder upper transmission, mechanical stop, synchronous torsion shaft, stable and reliable operation, high accuracy;

■ The distance between the rear stopper and the stroke of the slider can be accurately controlled through the CNC system, making it convenient and fast to use;

■ Equipped with deflection compensation device (optional).

数控系统可选配





### 伺服电机驱动油缸

油缸液压油通过伺服电机控制同步带，从而对油缸精确控制，使折弯精度更精准，折弯压力更可控。

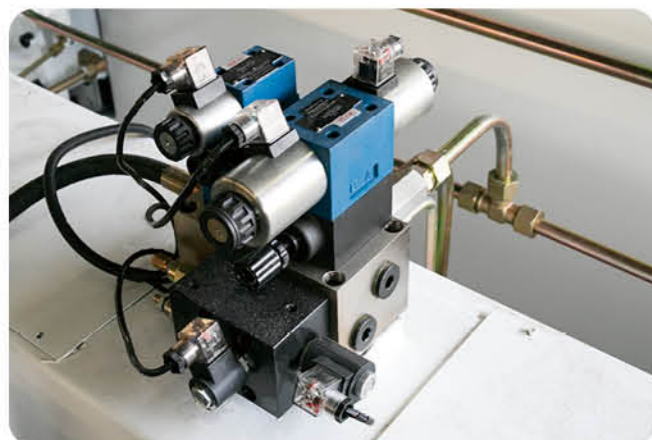
The hydraulic oil of the oil cylinder is controlled by a servo motor to control the synchronous belt, thereby accurately controlling the oil cylinder, making the bending accuracy more precise and the bending pressure more controllable.



### 机械扭轴结构

机械扭轴结构，可实现扭力平衡，滑块上下运行平稳可靠，实现高效率、高精度扭力同步。

The mechanical torsion shaft structure can achieve torque balance, and the slider runs smoothly and reliably up and down, achieving high efficiency and high-precision torque synchronization.



### 液压系统

使用集成式液压控制系统，该系统减少了管道连接的数量，使其性能更加可靠，且易于维护保养，(可选配 Rexroth)。

Using an integrated hydraulic control system, the system reduces the number of pipeline connections, making its performance more reliable and easy to maintain (optional with Rexroth).



### TP10S 数控系统

- ◆ 10 寸高清晰 TFT 256K 真彩触摸屏
- ◆ 标配 Y、X1 轴伺服电机
- ◆ 支持角度编程，系统自动计算板材折弯深度
- ◆ 滑块 (Y 轴) 位置控制
- ◆ 后挡料 (X1 轴) 位置控制
- ◆ 220 个程序，每个程序 24 工步
- ◆ 软限位功能，断电记忆
- ◆ 选配支持 X2、R1、R2、Z1、Z2
- ◆ 选配支持挠度补偿

- ◆ 10 inch TFT 256K color touch screen
- ◆ The standard Y, X1 axis servo motor
- ◆ Support angle programming, system automatically calculate depth
- ◆ Slider (Y axis) position control
- ◆ Position control of rear stopper (X1 axis)
- ◆ 220 programs, each program 24 steps
- ◆ Soft limit function, Power off memory
- ◆ Matching support X2, R1, R2, Z1, Z2
- ◆ Matching support for the degree of compensation



### E310P 数控系统

- ◆ 根据折弯角度、材料、板厚和模具参数，自动计算挡块位置；
- ◆ 伺服控制 X 轴和 R 轴，实现后挡料的高精度控制；
- ◆ 角度编程和位置编程；
- ◆ 一页式编程，快捷方便，提高编程效率；
- ◆ 保压时间和退让等待可直接通过装置来控制，无需再外接时间继电器；
- ◆ 避免出现模具干涉或碰撞；
- ◆ 夹紧点位置自动调整；
- ◆ 回程距离调节功能，提高机床的工作效率；
- ◆ R 轴零位自动调整；
- ◆ 多种工作模式 (点动、单次、连续) 下的工件加工；
- ◆ IO 端口可自由编号，并具有自检功能；
- ◆ 单向和双向定位功能；
- ◆ 断电位置记忆功能，对参数、位置及程序等进行现场保护；
- ◆ 退让逃料功能；
- ◆ 可手动移轴。

- ◆ Automatically calculate the stop position based on bending angle, material, plate thickness, and mold parameters;
- ◆ Servo control of the X-axis and R-axis, achieving high-precision control of the rear stopper;
- ◆ Angle programming and position programming;
- ◆ One page programming, fast and convenient, improving programming efficiency;
- ◆ The pressure holding time and concession waiting can be directly controlled through the device, without the need for external time relays;
- ◆ Avoid mold interference or collision;
- ◆ Automatic adjustment of clamping point position;
- ◆ Return distance adjustment function to improve the work efficiency of the machine tool;
- ◆ Automatic adjustment of R-axis zero position;
- ◆ Workpiece processing in multiple working modes (jog, single, continuous);
- ◆ IO ports can be freely numbered and have self checking function;
- ◆ unidirectional and bidirectional positioning functions;
- ◆ Power off position memory function for on-site protection of parameters, positions, and programs;
- ◆ Concession and material evasion function;
- ◆ The axis can be manually moved.

E310P 数控装置传承了 ESTUN 经典的操作方式，通过简单直观的参数配置界面完成折弯机的控制操作。其界面友好、容易上手、功能对口，并具备如下控制功能：

The E310P CNC device inherits the classic operation method of ESTUN and completes the control operation of the bending machine through a simple and intuitive parameter configuration interface. It has a friendly interface, is easy to use, and has corresponding functions, as well as the following control functions:



## Technical Parameters 数控折弯机系列技术参数

Type	63T/2500	80T/3200	110T/3200	110T/4000	130T/3200	130T/4000	170T/3200
公称力 nominal force	630KN	800KN	1100KN	1100KN	1300KN	1300KN	1700KN
折弯长度 bending length	2500mm	3200mm	3200mm	4000mm	3200mm	4000mm	3200mm
立柱间距离 poles distance	2100mm	2700mm	2700mm	3500mm	2700mm	3500mm	2700mm
喉口深度 throat depth	350mm	350mm	500mm	500mm	500mm	500mm	450mm
滑块行程 slider travel	150mm	150mm	200mm	200mm	200mm	200mm	200mm
工作台高度 height of table	780mm	780mm	780mm	780mm	780mm	780mm	850mm
装模高度 die loading height	420mm	420mm	480mm	480mm	480mm	480mm	480mm
主电机功率 power	5.5kw	7.5kw	7.5kw	7.5kw	11kw	11kw	15kw
后挡料 × 轴行程 × travel	600mm	600mm	600mm	600mm	600mm	600mm	600mm
后挡料 × 轴速度 × speed	200mm/s	200mm/s	200mm/s	200mm/s	200mm/s	200mm/s	200mm/s
外形尺寸(长×高×宽) Dimension (mm)	2800 × 2200 × 1200	3500 × 2350 × 1350	3500 × 2750 × 1400	4300 × 2560 × 1450	3500 × 2560 × 1450	4300 × 2560 × 1450	3500 × 2500 × 1450

Type	170T/4000	220T/3200	220T/4000	250T/3200	250T/4000	320T/3200	320T/4000
公称力 nominal force	1700KN	2200KN	2200KN	2500KN	2500KN	3200KN	3200KN
折弯长度 bending length	4000mm	3200mm	4000mm	3200mm	4000mm	3200mm	4000mm
立柱间距离 poles distance	3500mm	2700mm	3500mm	2700mm	3500mm	2700mm	3500mm
喉口深度 throat depth	400mm	360mm	400mm	360mm	400mm	400mm	400mm
滑块行程 slider travel	200mm	200mm	200mm	250mm	250mm	250mm	250mm
工作台高度 height of table	840mm	900mm	900mm	840mm	900mm	950mm	950mm
装模高度 die loading height	480mm	480mm	480mm	480mm	550mm	560mm	560mm
主电机功率 power	15kw	15kw	18.5kw	15kw	22kw	22kw	22kw
后挡料 × 轴行程 × travel	600mm	600mm	600mm	600mm	600mm	600mm	600mm
后挡料 × 轴速度 × speed	200mm/s	200mm/s	200mm/s	200mm/s	200mm/s	200mm/s	200mm/s
外形尺寸(长×高×宽) Dimension (mm)	4300 × 2600 × 1450	3300 × 2600 × 1500	4300 × 2600 × 1500	3300 × 2650 × 1600	4300 × 2650 × 1600	4300 × 2700 × 2000	3300 × 2700 × 2000

Type	400T/4000	500T/5000	500T/6000	500T/7000	600T/5000	600T/6000	600T/7000
公称力 nominal force	4000KN	5000KN	5000KN	5000KN	6000KN	6000KN	6000KN
折弯长度 bending length	4000mm	5000mm	6000mm	7000mm	5000mm	6000mm	7000mm
立柱间距离 poles distance	3500mm	3900mm	4900mm	5900mm	3900mm	4900mm	5900mm
喉口深度 throat depth	400mm	500mm	500mm	500mm	500mm	500mm	500mm
滑块行程 slider travel	250mm	250mm	250mm	250mm	300mm	300mm	300mm
工作台高度 height of table	1000mm	1000mm	下沉 800mm	下沉 800mm	下沉 800mm	下沉 1000mm	1000mm
装模高度 die loading height	560mm	600mm	600mm	600mm	600mm	600mm	600mm
主电机功率 power	30kw	37kw	37kw	37kw	45kw	45kw	45kw
后挡料 × 轴行程 × travel	600mm	600mm	600mm	600mm	600mm	600mm	600mm
后挡料 × 轴速度 × speed	200mm/s	200mm/s	200mm/s	200mm/s	200mm/s	200mm/s	200mm/s
外形尺寸(长×高×宽) Dimension (mm)	4300 × 2700 × 2000	5400 × 2800 × 2200	6500 × 2800 × 2200	7500 × 2800 × 2200	5500 × 3000 × 2200	6500 × 3000 × 2500	7500 × 3000 × 2500

注：本资料所列数据为参考数据，如与机床实际数据不符，应以机床实际数据为准，本公司保留对此资料的最终解释权！  
The above data is just for reference, if there is any discord please refer to actual data, All rights reserved to our company.

## Technical Parameters 扭轴折弯机系列技术参数

机床型号 type	公称压力 Nominal force	工作台长度 Worktable length	立柱间距 Poles distance	喉口深度 Throat depth	滑块行程 Ram Strokes	最大开启高度 Max open	主电机功率 Power	外形尺寸Dimension Lxwxh (mm)
	KN	mm	mm	mm	mm	mm	kw	mm
30T/1600	300	1600	1340	180	80	250	3	1800x1050x1700
40T/1600	400	1600	1330	220	120	320	5.5	1800x1340x2000
40T/2200	400	2200	1800	220	120	320	5.5	2400x1340x2000
40T/2500	400	2500	2000	220	120	320	5.5	2700x1340x2000
63T/2500	630	2500	2000	300	120	370	5.5	2700x1380x2250
63T/3200	630	3200	2500	300	120	370	5.5	3400x1380x2250
80T/2500	800	2500	2000	300	120	370	7.5	2700x1450x2250
80T/3200	800	3200	2500	300	120	370	7.5	3400x1450x2250
80T/4000	800	4000	3100	300	120	370	7.5	4200x1450x2250
110T/2500	1100	2500	2000	400	160	410	7.5	2700x1500x2420
110T/3200	1100	3200	2500	400	160	410	7.5	3400x1500x2420
110T/4000	1100	4000	3060	400	160	410	7.5	4200x1500x2420
110T/5000	1100	5000	4000	400	160	410	7.5	5200x1600x2500
130T/2500	1300	2500	2000	400	160	410	7.5	2700x1550x2450
130T/3200	1300	3200	2500	400	160	410	7.5	3400x1550x2450
130T/4000	1300	4000	3055	400	160	410	7.5	4200x1550x2450
130T/5000	1300	5000	4000	400	160	410	11	5200x1650x2550
130T/6000	1300	6000	5000	400	160	410	11	6200x1650x2550
170T/3200	1700	3200	2500	400	200	460	11	3400x1700x2520
170T/4000	1700	4000	3100	400	200	460	11	4200x1700x2520
170T/5000	1700	5000	4000	400	200	460	11	5200x1800x2800
170T/6000	1700	6000	5000	400	200	460	11	6200x1800x2900
220T/3200	2200	3200	2500	400	200	470	15	3400x1800x2550
220T/4000	2200	4000	3100	400	200	470	15	4200x1800x2550
220T/5000	2200	5000	4000	400	200	470	15	5200x1900x2900
220T/6000	2200	6000	4600	400	200	470	15	6200x1900x3100
250T/3200	2500	3200	2500	400	250	500	18.5	3400x1950x2800
250T/4000	2500	4000	3100	400	250	500	18.5	4200x1950x2800
250T/5000	2500	5000	4000	400	250	500	18.5	5200x2000x3000
250T/6000	2500	6000	4600	400	250	500	18.5	6200x2000x3150
320T/3200	3200	3200	2500	400	250	530	22	3400x2000x3200
320T/4000	3200	4000	3100	400	250	530	22	4200x2000x3200
320T/5000	3200	5000	4000	400	250	530	22	5200x2200x3300
320T/6000	3200	6000	4500	400	250	530	22	6200x2300x3400
400T/4000	4000	4000	3100	400	300	560	30	4200x2500x3400
400T/5000	5000	5000	4000	400	300	560	30	5200x2500x3500
400T/6000	6000	6000	5000	400	300	560	30	6200x2500x3600
500T/4000	4000	4000	3100	400	320	600	37	4200x2700x3700
500T/5000	5000	5000	4000	400	320	600	37	5200x2700x3800
500T/6000	6000	6000	4500	400	320	600	37	6200x2700x4000
600T/4000	4000	4000	3100	400	320	600	45	4200x2900x4300
600T/5000	5000	5000	4000	400	320	600	45	5200x3000x4700
600T/6000	6000	6000	4500	400	320	600	45	6200x3000x5000

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# FULL ELECTRIC CNC PRESS BRAKE

## PSS 全电数控折弯机

### 性能特点

#### Performance and Features

- 整机焊接去应力处理，龙门加工中心一次装夹加工，强度高，刚性好，精度高；
  - 电缸采用重载研磨滚珠丝杆，寿命长，精度高；
  - 无需液压油，全电机伺服驱动，传动效率高，节能环保；
  - 可选配多种控制系统，实现4到8轴数控控制。
- The whole machine is welded for stress relief treatment, and the gantry machining center is clamped and processed in one go, with high strength, good rigidity, and high accuracy.
- The electric cylinder adopts heavy-duty grinding ball screw, which has a long service life and high accuracy.
- No hydraulic oil required, fully electric mechanical servo drive, high transmission efficiency, energy-saving and environmentally friendly.
- Multiple control systems can be selected to achieve 4-8 axis CNC control.





# CNC HYDRAULIC GUILLOTINE SHEARING MACHINE

## QCIIK 数控液压闸式剪板机

### 性能特点

#### Performance and Features

- 第二代液压剪板机;
- 采用钢板焊接结构, 通过振动时效消除应力, 有很好的刚性和稳定性;
- 采用三点支承滚动导轨, 消除支承间隙, 提高剪切质量;
- 刀片间隙用手轮调整、迅速、准确、方便;
- 矩形刀片, 四个刃口均可使用, 使用寿命长;
- 剪切角可调, 减少板料扭曲变形;
- 上刀架采用内倾结构, 便于落料, 并提高工件的精度;
- 具有分段剪切功能, 具有灯光对线的功能;
- 机动后档料, 数字显示;
- 后托料装置 (可另选择配置)。

- The second generation hydraulic shearing machine;
- Adopting a steel plate welding structure, stress is eliminated through vibration aging, which has good rigidity and stability;
- Adopting a three-point support rolling guide rail to eliminate support gaps and improve shear quality;
- The blade gap is adjusted with a handwheel, which is fast, accurate, and convenient;
- Rectangular blade, all four blades can be used, with a long service life;
- Adjustable shear angle to reduce sheet metal distortion and deformation;
- The upper tool holder adopts an inward tilt structure, which is convenient for material cutting and improves the accuracy of the workpiece;
- Equipped with segmented cutting function and light alignment function;
- Motorized rear bumper, digital display;
- Rear support device (optional configuration).

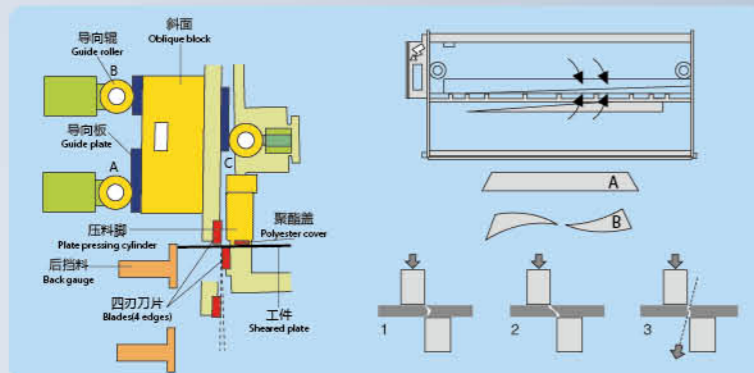
### 三点滚轮导轨结构

#### Three Trolley and Rail Structure

采用三滚轮导轨结构, 前预压导轨使刀架始终贴在上导轨和下导轨上做无间隙反复运动。

剪切时刀口间隙可根据不同板料进行调节, 以取得更好的剪切质量。

The three roller guide structure is adopted, and the front preloading guide rail makes the tool holder stick to the upper guide rail and the lower guide rail to move repeatedly without gap. In order to obtain better cutting quality, the blade gap can be adjusted according to the needs of different plates.





# CNC HYDRAULIC PENDULUM SHEARING MACHINE

## QC12K 数控液压摆式剪板机



### 性能特点

Performance and Features

- 主机装配剪板机专用数控系统;
  - 后挡料位置实时显示;
  - 多步编程功能, 后挡料自动运行连续定位, 实现后挡料位置的自动调节;
  - 剪切计数功能, 实时显示剪切数量, 断电记忆后挡料位置、程序及参数;
  - 采用进口滚珠丝杆、直线导轨, 确保了定位精度, 机器加工精度更高。
- 
- Special CNC system for main machine assembly and shearing machine;
  - Real time display of rear stopper position;
  - Multi step programming function, automatic operation and continuous positioning of rear stopper, achieving automatic adjustment of rear stopper position;
  - Shear counting function, real-time display of shear quantity, memory of material blocking position, program, and parameters after power outage;
  - Imported ball screw and linear guide rail are used to ensure positioning accuracy and higher machining accuracy.





### 剪板机液压系统

采用品牌阀组，压力大且坚固可靠，同时噪音低能耗小，能够灵敏的接受操作系统的信号，确保经久耐用不漏油，使机器更稳定可靠。

Adopting brand valve group, with high pressure and reliable fastening, low noise and low energy consumption, it can sensitively receive signals from the operating system, ensuring durability and no oil leakage, making the machine more stable and reliable.



### 齿轮泵

齿轮泵有效降低了机器工作时的噪音，且运行更加平稳。

The gear pump effectively reduces the noise during machine operation and operates more smoothly.



### 直线导轨后挡料

后挡料采用滚珠丝杆和直线导轨控制，剪切尺寸更精准，噪音低，速度快。

The rear stopper is controlled by a ball screw and a linear guide rail, resulting in more precise cutting dimensions, low noise, and fast speed.



### E21S 数控系统 (标配)

- 后挡料控制
  - 控制普通电机或变频器
  - 智能定位
  - 双路可编程数字输出，工件计数
  - 40 个程序存储
  - 每个程序 25 步
  - 单边定位，退让功能
  - 参数一键备份与恢复
  - 公英制，中 / 英文
- Rear blocking control,
  - Control ordinary motors or frequency converters
  - Intelligent positioning,
  - Dual programmable digital output, workpiece counting
  - 40 program storage,
  - 25 steps per program
  - Unilateral positioning and concession function
  - One click parameter backup and recovery
  - Metric and English, Chinese/English



### E200PS 数控系统 (选配)

- 7 寸 TFT 真彩触摸屏、高清晰、高对比度
  - 菜单式编程界面，大图标按键设计
  - 支持可编程的剪切功能，使批量复杂剪切简单、方便、高效根据不同板材进行剪切
  - 快捷单步剪切功能，自动计算剪切长度
  - 后挡料自动校正
  - 后挡料采用伺服控制，快速准确后挡料自动停车功能
  - 自动计算刀片间隙，自动计算剪切角度
  - 支持多种语言，自动剪切
- 7-inch TFT true color touch screen, high-definition, high contrast
  - Menu style programming interface, large icon button design
  - Support programmable cutting function, making batch complex cutting simple, convenient, and efficient according to different sheet materials
  - Quick single step cutting function, automatically calculating the cutting length
  - Automatic correction of rear material
  - The rear material adopts servo control, with fast and accurate automatic stop function for the rear material
  - Automatically calculate blade clearance and shear angle
  - Supports multiple languages and automatic cutting



### ES10 数控系统 (选配)

- 7 寸 TFT 真彩触摸屏、高清晰、高对比度
  - 菜单式编程界面，大图标按键设计
  - 支持可编程的剪切功能，使批量复杂剪切简单、方便、高效根据不同板材进行剪切
  - 快捷单步剪切功能，自动计算剪切长度
  - 后挡料自动校正
  - 后挡料采用伺服控制，快速准确后挡料自动停车功能
  - 自动计算刀片间隙，自动计算剪切角度
  - 支持多种语言，自动剪切
- 7-inch TFT true color touch screen, high-definition, high contrast
  - Menu style programming interface, large icon button design
  - Support programmable cutting function, making batch complex cutting simple, convenient, and efficient according to different sheet materials
  - Quick single step cutting function, automatically calculating the cutting length
  - Automatic correction of rear material
  - The rear material adopts servo control, with fast and accurate automatic stop function for the rear material
  - Automatically calculate blade clearance and shear angle
  - Supports multiple languages and automatic cutting



## Technical Parameters QC11K系列技术参数

型号 Type	可剪板厚 Cutting thickness	可剪板宽 Cutting length	剪切角 Cutting angel	喉口深度 Throat Depth	后挡料距离 Back-GaugeRange	行程次数 Travel times	主电机功率 Power	外形尺寸 Dimension LxWxH
	mm	mm	°	mm	mm	cycle/min	kw	mm
6 x 2500	6	2500	0.5-1.5	100	10-600	14	7.5	3100x1700x1950
6 x 3200	6	3200	0.5-1.5	100	10-600	12	7.5	3800x1700x1950
6 x 4000	6	4000	0.5-1.5	100	10-600	10	7.5	4600x1700x1950
6 x 5000	6	5000	0.5-1.5	100	10-600	8	11	5700x1850x2150
6 x 6000	6	6000	0.5-2	100	10-600	6	11	6700x1900x2350
8 x 2500	8	2500	0.5-2	100	10-600	14	7.5	3100x1800x2050
8 x 3200	8	3200	0.5-2	100	10-600	12	7.5	3800x1800x2050
8 x 4000	8	4000	0.5-2	100	10-600	10	11	4600x1800x2050
8 x 5000	8	5000	0.5-2	100	10-600	7	11	5700x1900x2250
8 x 6000	8	6000	0.5-2	120	10-600	6	11	6700x1900x2250
10 x 2500	10	2500	0.5-2	120	10-800	10	15	3100x1850x2100
10 x 3200	10	3200	0.5-2	120	10-800	8	11	3800x1850x2100
10 x 4000	10	4000	0.5-2	120	10-800	6	15	4600x1850x2100
10 x 5000	10	5000	0.5-2	120	10-800	5	18.5	5700x2000x2500
10 x 6000	10	6000	0.5-2	120	10-800	4	18.5	6700x2000x2600
12 x 2500	12	2500	0.5-2.5	120	10-800	10	15	3100x2000x2200
12 x 3200	12	3200	0.5-2.5	120	10-800	8	18.5	3800x2000x2200
12 x 4000	12	4000	0.5-2.5	120	10-800	6	18.5	4600x2000x2250
12 x 5000	12	5000	0.5-2.5	120	10-800	5	22	5700x2100x2700
12 x 6000	12	6000	0.5-2.5	120	10-800	4	22	6700x2100x3000
16 x 2500	16	2500	0.5-2.5	120	15-800	8	18.5	3100x2100x2300
16 x 3200	16	3200	0.5-2.5	120	15-800	7	18.5	3800x2100x2400
16 x 4000	16	4000	0.5-2.5	120	15-800	6	22	4600x2100x2500
16 x 5000	16	5000	0.5-2.5	120	15-800	5	30	5700x2150x2700
16 x 6000	16	6000	0.5-2.5	120	15-800	4	37	6700x2150x2900
20 x 2500	20	2500	0.5-3	120	15-800	6	22	3100x2050x2400
20 x 3200	20	3200	0.5-3	120	15-800	5	22	3800x2150x2400
20 x 4000	20	4000	0.5-3	120	15-800	4	30	4600x2200x2800
20 x 5000	20	5000	0.5-3	120	15-800	4	37	5700x2300x2900
20 x 6000	20	6000	0.5-3	120	15-800	3	37	6700x2300x3100
25 x 2500	25	2500	0.5-3	120	20-800	5	37	3500x2250x2550
25 x 3200	25	3200	0.5-3	120	20-800	5	37	4000x2250x2550
25 x 4000	25	4000	0.5-3.5	120	20-800	3	37	4900x2300x3000
25 x 5000	25	5000	0.5-3.5	120	20-800	3	45	6100x2500x3100
25 x 6000	25	6000	0.5-3.5	120	20-800	3	45	7200x2600x3300
30 x 2500	30	2500	0.5-3.5	120	20-800	4	30	3400x2500x3000
30 x 3200	30	3200	0.5-3.5	120	20-800	3	37	4000x2600x3200
30 x 4000	30	4000	0.5-3.5	120	20-900	3	45	4600x2600x3400

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## Technical Parameters QC12K系列技术参数

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	mm	mm	°	mm	mm	cycle/min	kw	mm
4 x 2500	4	2500	1.5	100	20-600	18	5.5	3200x1600x1600
4 x 3200	4	3200	1.5	100	20-600	19	5.5	3900x1600x1600
4x 4000	4	4000	1.5	100	20-600	14	7.5	4700x1600x1600
4 x 5000	4	5000	1.5	100	20-600	12	11	5800x1750x1850
4 x 6000	4	6000	1.5	100	20-600	8	11	6800x1750x1850
6 x 2500	6	2500	1.5	100	20-600	17	7.5	3200x1650x1800
6 x 3200	6	3200	1.5	100	20-600	15	7.5	3900x1650x1800
6 x 4000	6	4000	1.5	100	20-600	12	7.5	4700x1650x1800
6 x 5000	6	5000	1.5	100	20-600	10	11	5800x1800x1950
6 x 6000	6	6000	2	100	20-600	8	11	6800x1800x1950
8 x 2500	8	2500	2	100	20-600	16	7.5	3200x1700x1850
8 x 3200	8	3200	2	100	20-600	14	7.5	3900x1700x1850
8 x 4000	8	4000	2	100	20-600	11	7.5	4700x1700x1850
8 x 5000	8	5000	2	100	20-600	10	11	5800x1900x2100
8 x 6000	8	6000	2	120	20-600	8	11	6800x1900x2200
10 x 2500	10	2500	2	120	20-600	12	11	3200x1850x1900
10 x 3200	10	3200	2	120	20-600	10	11	3900x1850x1900
10 x 4000	10	4000	2	120	20-600	8	15	4700x1850x1900
10 x 5000	10	5000	2	120	20-600	7	15	5800x2000x2150
10 x 6000	10	6000	2	120	20-600	6	18.5	6800x2000x2500
12 x 2500	12	2500	2.5	120	20-600	11	15	3200x2050x2150
12 x 3200	12	3200	2.5	120	20-600	10	18.5	3900x2050x2150
12 x 4000	12	4000	2.5	120	20-600	8	18.5	4700x2050x2150
12 x 5000	12	5000	2.5	120	20-600	7	22	5800x2200x2200
12 x 6000	12	6000	2.5	120	20-600	6	22	6800x2400x2600
16 x 2500	16	2500	2.5	120	20-600	10	18.5	3200x2150x2250
16 x 3200	16	3200	2.5	120	20-600	9	18.5	3900x2150x2250
16 x 4000	16	4000	2.5	120	20-600	8	22	4700x2150x2250
16 x 5000	16	5000	2.5	120	20-600	6	30	5800x2500x2500
16 x 6000	16	6000	2.5	120	20-600	6	37	6800x2500x2700
20 x 2500	20	2500	3	120	20-600	8	22	3200x2250x2350
20 x 3200	20	3200	3	120	20-600	7	22	3900x2250x2350
20 x 4000	20	4000	3	120	20-600	6	30	4700x2350x2350
20 x 5000	20	5000	3	120	20-600	5	37	5800x2600x2700
20 x 6000	20	6000	3	120	20-600	4	37	6800x2600x2900
25 x 2500	25	2500	3	120	20-600	6	37	3200x2300x2500
25 x 3200	25	3200	3	120	20-600	5	37	3900x2300x2500
25 x 4000	25	4000	3.5	120	20-600	5	37	4700x2500x2600
25 x 5000	25	5000	3.5	120	20-600	4	45	5800x2700x2800
25 x 6000	25	6000	3.5	120	20-600	4	45	6800x2700x2900

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# CNC VERTICAL GROOVING MACHINE

## 数控立式刨槽机



### 单刨头 双刨头可选

多把合金刀（可选白钢刀）使用，提高切削精度，双头来回刨槽可提高生产效率，单刨头更稳定，精度高。

Multiple alloy knives (optional white steel knives) are used to improve cutting accuracy. Double headed back and forth grooving can improve production efficiency, while single headed planing is more stable and accurate.



### 液压压料装置

采用密集独立压料，压力大且坚固可靠，可刨槽各种形状和大小不一的板。

Adopting dense independent pressing material, with high pressure and reliable fastening, it can plane various shapes and sizes of boards.



### 主伺服电机 直线导轨 精密齿条

主伺服电机精密控制刨头高速的左右移动，可实现定点刨槽等功能，方便快捷。同时搭配上银直线导轨和TBI精密齿条，保证了高速刨槽过程中的精度和速度。

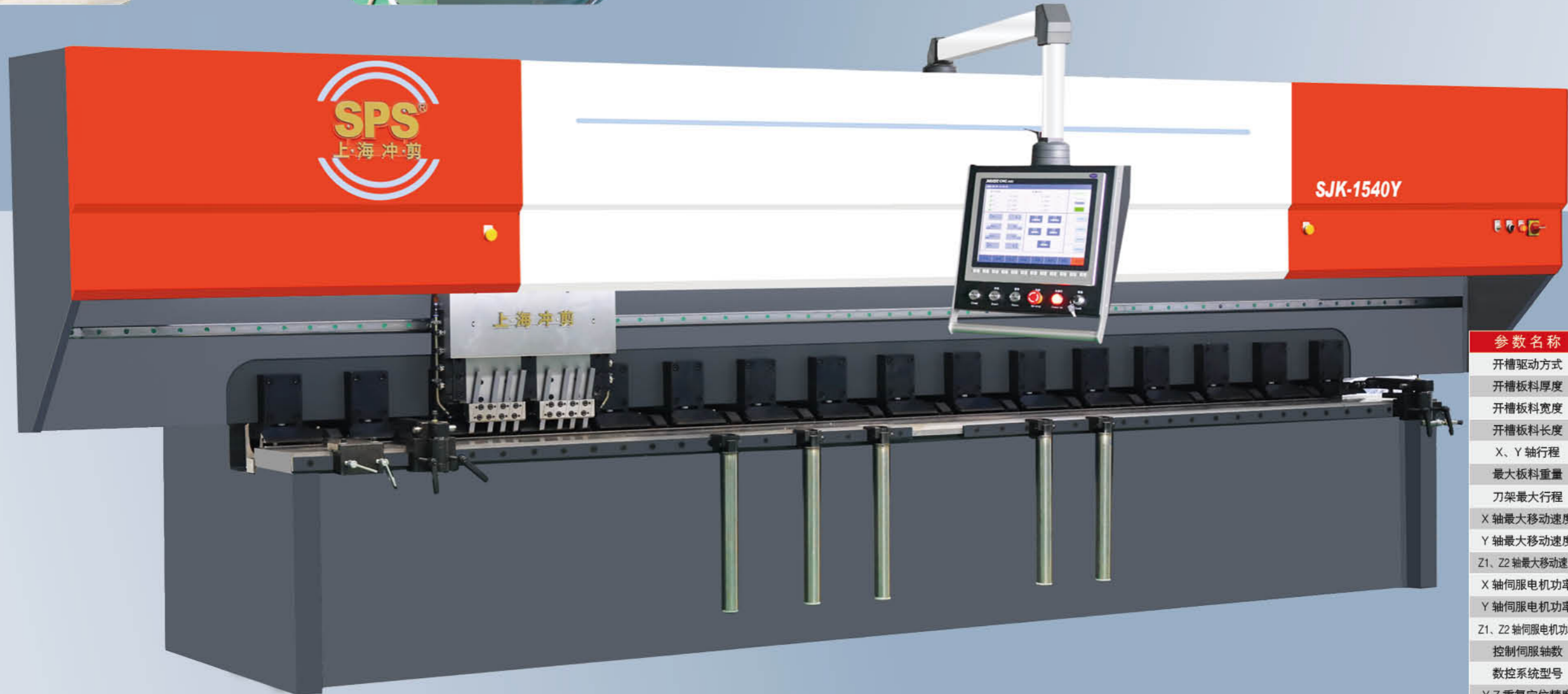
The main servo motor precisely controls the high-speed left and right movement of the planer head, which can achieve functions such as fixed point slotting, making it convenient and fast. At the same time, it is equipped with silver linear guide rails and TBI precision gear racks, ensuring the accuracy and speed during the high-speed groove planing process.



### 液压夹具

液压夹紧更稳固，压力大，送料精度高。

Hydraulic clamping is more stable, with high pressure and high feeding accuracy.



参数名称	单位	SJK1540Y
开槽驱动方式		X轴伺服驱动齿轮齿条传动
开槽板料厚度	mm	0.5-4
开槽板料宽度	mm	20-1600
开槽板料长度	mm	600-4000
X、Y轴行程	mm	4000x1600
最大板料重量	kg	120
刀架最大行程	mm	10
X轴最大移动速度	m/min	100
Y轴最大移动速度	m/min	20
Z1、Z2轴最大移动速度	m/min	9
X轴伺服电机功率	KW	5.5
Y轴伺服电机功率	KW	1.5
Z1、Z2轴伺服电机功率	KW	2X0.4
控制伺服轴数	个	4
数控系统型号		SX002
Y、Z轴重复定位精度	mm	±0.020
最小刨槽边宽(合金刀)	mm	14
液压	Mpa	8
外形尺寸	mm	6000X3000X2000



# CNC GANTRY GROOVING MACHINE

## 数控龙门式刨槽机



### 单刨头 双刨头可选

多把合金刀（可选白钢刀）使用，提高切削精度，双头来回刨槽可提高生产效率，单刨头更稳定，精度高。

Multiple alloy knives (optional white steel knives) are used to improve cutting accuracy. Double headed back and forth grooving can improve production efficiency, while single headed planing is more stable and accurate.



### 液压压料装置

采用密集独立压料，压力大且紧固可靠，可刨槽各种形状和大小不一的板。

Adopting dense independent pressing material, with high pressure and reliable fastening, it can plane various shapes and sizes of boards.



### 主伺服电机 直线导轨 精密齿条

主伺服电机精密控制刨头高速的左右移动，可实现定点刨槽等功能，方便快捷。同时搭配上银直线导轨和TBI精密齿条，保证了高速刨槽过程中的精度和速度。

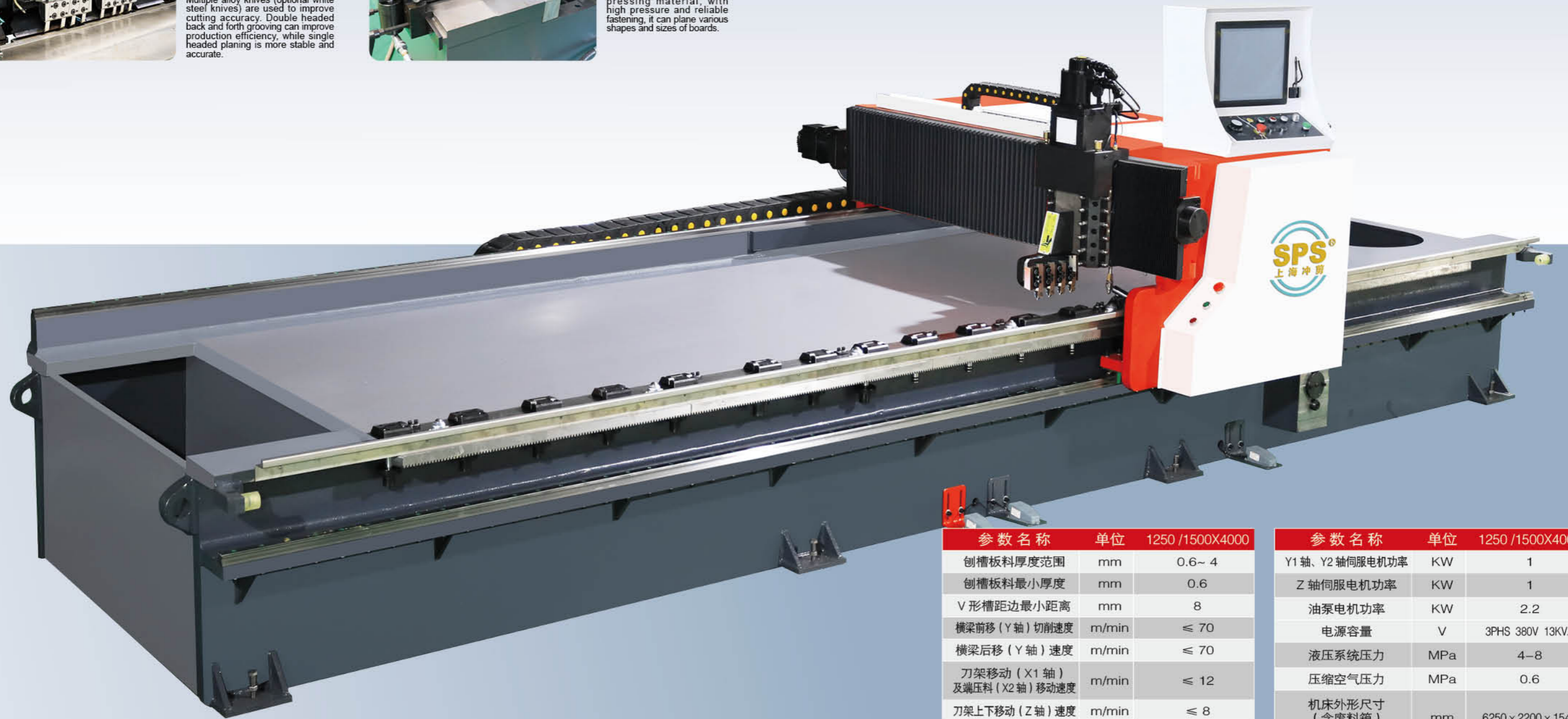
The main servo motor precisely controls the high-speed left and right movement of the planer head, which can achieve functions such as fixed point slotting, making it convenient and fast. At the same time, it is equipped with silver linear guide rails and TBI precision gear racks, ensuring the accuracy and speed during the high-speed groove planing process.



### 液压夹具

液压夹紧更稳固，压力大，送料精度高。

Hydraulic clamping is more stable, with high pressure and high feeding accuracy.



参数名称	单位	1250 / 1500X4000
刨槽板料厚度范围	mm	0.6~ 4
刨槽板料最小厚度	mm	0.6
V形槽距边最小距离	mm	8
横梁前移 (Y轴) 切削速度	m/min	≤ 70
横梁后移 (Y轴) 速度	m/min	≤ 70
刀架移动 (X1轴) 及端压料 (X2轴) 移动速度	m/min	≤ 12
刀架上下移动 (Z轴) 速度	m/min	≤ 8
X轴电机功率	KW	5.5

参数名称	单位	1250 / 1500X4000
Y1轴、Y2轴伺服电机功率	KW	1
Z轴伺服电机功率	KW	1
油泵电机功率	KW	2.2
电源容量	V	3PHS 380V 13KVA
液压系统压力	MPa	4~8
压缩空气压力	MPa	0.6
机床外形尺寸 (含废料箱) (长×宽×高)	mm	6250×2200×1540



# CNC GANTRY FOUR SIDED GROOVING MACHINE

数控龙门式四面刨槽机

