

公司简介

Company Profile

江苏拓普迈德科技有限公司是一家专业致力于钣金设备研发、生产和销售的综合性公司，总部 Top Mind Technology Limited 设于中国香港红磡维港中心，拥有多年的生产经营历史，公司秉承先进设计理念，结合用户实际操作需求和经验，制造出结构合理、品质优良的钣金加工设备，产品主要有数控折弯机、数控剪板机、数控开槽机和光纤激光切割机等，产品和服务遍及世界各地。

公司施行精细化管理，注重质量，做好细节，完善服务，产品通过欧洲 CE 安全认证，出口欧盟及世界多个国家和地区；推行 ISO9001 质量管理体系，规范企业内部管理流程，保证企业稳步发展；建立知识产权保障机制，鼓励创新，取得多项专利，为公司未来发展奠定坚实基础。

一直以来，我公司以精湛的设计，稳定可靠的质量，贴心优质的服务，得到客户的肯定。坚持以质量求发展，以信誉求生存”的企业宗旨，坚持自主创新，努力塑造良好的企业文化。为您提供钣金一体化解决方案，力求产品精益求精，引领突破创新的方向，成为数控钣金机械的引领者和钣金加工的合作者，开创数控钣金机械行业新局面。

Jiangsu Top mind Technology Co.Ltd. is a professional integrated company dedicated to research & development, production and sales of sheet metal equipment. Top mind Technology Limited, as the headquarter of company, located in Victoria Harbour Centre, Hung Hom, Hongkong, China, with a long history of production and management, the company adheres to the advanced design concepts, combines the user actual operation demands and the experiences, manufactures the reasonable structure and high quality sheet metal processing equipment, our main products including CNC press brake, CNC V-grooving machine, CNC shearing machine, optical fiber laser cutting machine and so on, the products and services throughout the world.

The company implements the fine management, pays attention to the quality and details, and improve our service continuously. Our products have passed the European CE safety certification and are exported to many countries and regions in the European Union and the world. ISO9001 quality management system is implemented to standardize the internal management process and ensure the steady development of enterprises. We have established an intellectual property protection mechanism to encourage innovation and obtain a number of patents to lay a solid foundation for the company's future development.

All along, our company get the customer's affirmation because of exquisite design, stable reliable quality and intimate high-quality service. We adhere to the "Quality-oriented development, reputation-oriented survival", the purpose of the enterprise, adhere to independent innovation, and strive to shape a good corporate culture. To provide you with integrated solutions for sheet metal, striving for excellence products, leading the direction of breakthrough innovation, become the leader of CNC sheet metal machinery and sheet metal processing partners, create a new situation of CNC sheet metal machinery industry.



生产车间

Production workshop

精品源自于精制，
先进的设备，不仅制造出精致的产品，
更制造出我们的自信。

Elaborate works originate from refinement;
The state-of-the-art equipment
not only produces delicate products,
but also creates our confidence.



MESON PM 系列数控折弯机

拓迈科技 Numerical Control Bending Machine



德国 Laimore 公司
MT15 折弯机数控系统

- ◆ 新一代 MT15 电液折弯机数控系统致力于让折弯机用户的工作更简单；
- ◆ 15.6"LED 真彩液晶屏搭配友好的人机界面，菜单式操作易学易用；
- ◆ 高灵敏度电阻触摸屏，支持戴手套操作；
- ◆ Linux 操作系统稳定可靠，开机仅需 4-5 秒钟，瞬间断电内容不丢失；
- ◆ 可配合工业机器人交互作业，通过自动化解决人员短缺的烦恼；
- ◆ 本系统拥有丰富的接口，可作为折弯单元简单方便的连接至自动化生产线，最大程度的脱离人工干预，提高设备的精度、效能。

基础功能

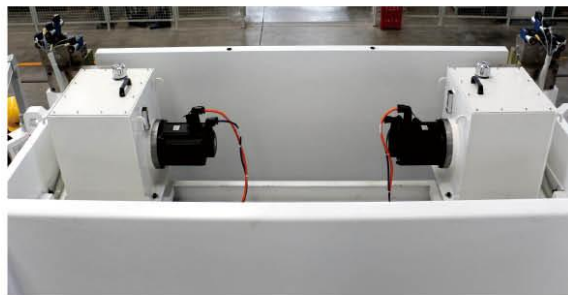
- ◆ 可以储存 100 万个产品； ◆ 最大计数 9999 个；
- ◆ 模具可单独存储 10 万套； ◆ 每步速度可编程；
- ◆ 工步最多可循环 9999 次； ◆ 模具图形实时展示。

出众配置带来强劲性能

- ◆ 1920*1080px 工业级触摸屏支持伺服泵、内置压力放大器；
- ◆ 四核处理器，主频 1GHz、1GB 内存、4GB 存储；
- ◆ USB 接口 *1、RS232 接口 *1、以太网接口 *110/100M 自适应；
- ◆ 光电隔离 I/O 端口、独立启/停按钮、编码器 (差分, 5V/12V)；
- ◆ 标配 4+1 轴、选配 6+1 轴。

油电混合数控折弯机

Oil-electric hybrid CNC bending machine



DSVP- 双伺服油电混合

是采用二台伺服电机及伺服泵输出的能量全部供给了左 - 右油缸，整个过程没有溢流耗能现象，这种控制方式不存在任何多余能量的损耗，工作效率极高，节能效果非常突出。

油电混合数控折弯机与电液折弯机对比：

滑板动作	普通电液	单伺服电液	双伺服油电混合
100 吨折弯机为例			
上死点	电机运转 - 耗能	伺服电机不运转 - 节能	伺服电机不运转 - 节能
快下	电机运转	电机不运转	电机不运转
慢下	电机运转溢流 - 耗能	电机运转不溢流 - 节能	电机运转不溢流 - 节能
回程	电机运转	电机不运转	电机不运转
能耗	100 %	60-70 %	40-50 %
快下速度	160 mm/s	220 mm/s	300 mm/s
慢下速度	10 mm/s	15 mm/s	20 mm/s
回程速度	150 mm/s	180 mm/s	280 mm/s
折弯速度	12-13 次 / 分	15-16 次 / 分	≥20 次 / 分

产品特点 PRODUCT FEATURES

► EPrAX Control 是最新研发的电液控制方案，结合两种驱动技术的优势：

和单纯电驱动相比，具有液压的强劲动力和持久性。紧凑的设计免除了外部管路，同时直接安装在油缸上，更干净，无泄漏。

► 系统将 CNC 控制器中的电信号转换成机械直线运动。为完成此运动，机床 CNC 控制器与电机驱动控制器之间进行信号的传输。同步油缸按照预先设定的工作曲线，控制追踪工进及快速运行。用一个可调速的伺服泵单元来驱动控制折弯工具的位置和折弯过程中的折弯力。

高品质 油电混合液压系统 电液比例液压系统

Superior quality
Hybrid Hydraulic System of Oil and Electricity
Electro-hydraulic proportional hydraulic system



油缸驱动液压系统
Cylinder Driving Hydraulic System



MING PD 系列电液数控折弯机

拓迈科技 *Electro-Hydraulic Numerical Control Bending Machine*

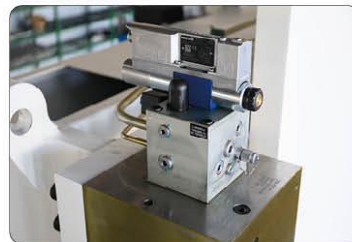


荷兰 DELEM 公司
DA53T 折弯机数控系统

四轴集成彩色触摸屏折弯机数控系统， 为折弯机提供先进的集成化和多功能的解决方案

- ◆ 新一代的 DA50T 系列基于 Delem 触屏式用户界面，提供最方便的 CNC 编程；
- ◆ 此系统是该系列中的新成员，为电液折弯机提供了完美的全触摸控制解决方案；
- ◆ 面板式为基本安装方式，最多可控制 4 轴，可选择悬吊式安装方式；
- ◆ 配置 10.1" 高分辨率 TFT 彩色宽体显示屏，集成了工业级的多点触摸屏，可以轻松访问 Delem 用户界面；
- ◆ 可以使用快捷键直接在编程和加工界面快速切换，整体设计依据人机工程学原理进行了优化，使操作更加便捷和人性化；
- ◆ 通过快捷方便的“编程直接到生产”的工序，极大地减少了调整及试折的时间；
- ◆ USB 接口方便模具和产品的快速备份 / 恢复；
- ◆ 标准配置 3+1(Y1、Y2、X 轴及挠度补偿)，另一选配轴可以用于 R 轴或 Z 轴；
- ◆ 标准配置可存储 30 个上模，30 个下模，999 个程序，每个程序 99 个步序。

SVP 特点配置



闭环伺服比例阀 智能油缸



机械补偿 数控模具



加大双直线导轨后挡块 滚珠丝杆直线导轨



主伺服驱动



移动前托料 快夹



主伺服电机 液压泵



光栅尺

MRS PC系列电液数控折弯机

拓迈科技 *Electro-Hydraulic Numerical Control Bending Machine*



瑞士 CYBELEC 公司
CYB T12 折弯机数控系统

CybTouch 12 PS 是专为 4 轴电液同步折弯机开发的数控系统

◆作为 CybTouch 产品家族一员, CybTouch 12 PS 数控系统专为 OEM 厂商的需求而设计。

◆CybTouch 12 PS 数控系统提供了广泛的折弯机功能, 并能使用户方便使用。通过简单的调试, 就可以精确的匹配其所控制的折弯机的需求。

◆高度直观的全触摸屏人机界面, 让操作者使用 CybTouch 12 PS 数控系统更加简单方便。

◆它的 2D 手指绘图界面和手动定义折弯步序功能使其成为电液同步折弯机一个强大有效的数控系统。

◆新的滑块管理程序可以在一个更高的精度情况下为折弯机提供更快更平滑的动作。

◆通过高速 RfLink 卡可以实现无线通信, 使数控系统的数据在笔记本电脑上备份、传输, 而且可以观察记录滑块动作曲线。

◆可存储 100 个上模, 100 个下模, 300 个程序, 每个程序 24 个步序, 10 种材质。

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)
- ◆轮廓补偿控制
- ◆具有模具/产品库
- ◆支持闭环或开环控制
- ◆先进的 Y 轴控制算法, 既可控制闭环环, 也可控制开环环。
- ◆高级双机联动功能
- ◆USB 外传接口, 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 axis)
- ◆Contour compensation control
- ◆with mold / material / Product Library
- ◆Support sensor or frequency conversion control
- ◆Advanced Y-axis control algorithm can control both closed-loop and open-loop drive.
- ◆network dual computer linkage (optional)
- ◆USB peripheral interface, Profile-53TL offline programming software



DA-58T / 荷兰 DELEM 公司

- ◆2D 触摸式图形编程
- ◆15" 高分辨率的 TFT 真彩显示屏
- ◆折弯工艺计算
- ◆轮廓补偿控制
- ◆闭环和开环控制模式
- ◆先进的 Y 轴控制算法, 既可控制闭环环, 也可控制开环环。
- ◆USB 接口, Profile-58TL 离线编程软件
- ◆2D touch graphic programming
- ◆15" high resolution TFT true color display
- ◆Subcut of bending process
- ◆Disturbance compensation control
- ◆Sensor and frequency converter control mode
- ◆The advanced Y axis control algorithm can control the closed loop value or the open loop value.
- ◆USB interface, Profile-58TL off-line programming software

DA-66T / 荷兰 DELEM 公司

- ◆2D 触摸式图形编程
- ◆3D 产品库/模具显示
- ◆17" 高分辨率 TFT 真彩显示屏
- ◆完整的 Windows 应用程序
- ◆兼容 Delem 模块化交换系统
- ◆USB 外传接口
- ◆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/production
- ◆17" high resolution color TFT
- ◆Full Windows application suite
- ◆Custom Modulus compatibility (modulus scalability and adaptivity)
- ◆USB peripheral interface
- ◆Open system architecture
- ◆Sensor bending detection interface



DA-69T / 荷兰 DELEM 公司

- ◆2D 和 3D 触摸式图形编程
- ◆3D 产品库/模具显示
- ◆17" 高分辨率 TFT 真彩显示屏
- ◆完整的 Windows 应用程序
- ◆兼容 Delem 模块化交换系统
- ◆USB 外传接口
- ◆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/production
- ◆17" high resolution color TFT
- ◆Full Windows application suite
- ◆Custom Modulus compatibility (modulus scalability and adaptivity)
- ◆USB peripheral interface
- ◆Open system architecture
- ◆Sensor bending detection interface

S630 / 意大利 ESA 公司

- ◆电液比例阀控制同步
- ◆S630 ESA 数控系统控制面板宽幅
- ◆适当配置要求材料, 行程 600mm,
- ◆可编程在 0.01mm
- ◆可编程自动返回
- ◆自动压力加工
- ◆缺欠
- ◆系统工具
- ◆进口脚踏开关 ◆标准安全保护
- ◆Electric Hydraulic proportional valve control synchronization
- ◆Proportional control panel with ESA S630 CNC System
- ◆Backgauge on ballcrank, stroke 600mm, programmable in 0.01mm
- ◆Programmable automatic beam return
- ◆Quick manual System Top Tooling clamping
- ◆Pilot for System Tooling
- ◆Import Foot Pedal Command
- ◆Standard safety protection



S640 / 意大利 ESA 公司

- ◆15" 触摸屏分辨率 1366x768 WSVA)
- ◆视觉控制 4 轴, 最多控制轴数
- ◆PC 板双处理器, 双通道, 光纤
- ◆CPU 通过纳秒 X2 Gb 的 RAM 2 E 1.2 GHz
- ◆存储器容量高达 30,000 个程序
- ◆工件和模具数据库的交互式 2D 建模编辑器
- ◆2D 图形显示, 工件编程
- ◆2 个串行端口 RS-232C USB 端口为记忆板
- ◆1 个以太网端口, 2 个端口, 光纤接口, 局域网
- ◆15" touch screen (resolution 1366x768 WSVA)
- ◆Control 4 axes and control 6 axes at most
- ◆PC board integrated logic, surface mounting, optical fiber
- ◆CPU through the RAM 2 E 1.2 GHz of nanosecond X2 Gb
- ◆Block has up to 30,000 programs
- ◆Interactive 2D drafter editor for workpiece and die data entry
- ◆2D graphics display items, workpiece and die
- ◆2 serial port RS-232C USB ports are memory rods
- ◆1 Ethernet ports, 2 ports, fiber optic interfaces, local area network

CybTouch 8 / CYBELEC

- ◆大触摸屏, 色彩鲜艳, 对比度高。
- ◆操作界面, 清晰直观和大而容易。
- ◆直观及易于操作的人机界面。
- ◆完善的编程功能使大量的多步序 编程效率高。
- ◆后制多步折弯非常方便。
- ◆在帮助和培训方面使软件 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。
- ◆交互多语言
- ◆Large touch screen, bright color, high contrast
- ◆Convenient interface, clear display and large icon buttons
- ◆Perfect, 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 on-line prompts make the software interface very friendly
- ◆Using PC or laptop, data can be upgraded and transmitted through wireless software
- ◆USB interface transfer/backup data
- ◆Support multiple language



CybTouch 12 / CYBELEC

- ◆大触摸屏, 色彩鲜艳, 对比度高。
- ◆操作界面, 清晰直观和大而容易。
- ◆直观及易于操作的人机界面。
- ◆完善的编程功能使大量的多步序 编程效率高。
- ◆后制多步折弯非常方便。
- ◆在帮助和培训方面使软件 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 on-line prompts make the software interface very friendly
- ◆Using PC or laptop, data can be upgraded and transmitted through wireless software
- ◆USB interface transfer/backup data
- ◆Support multiple language



数控折弯机技术参数

Technical Parameters for Numerical Control Bending Machine

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	1200	200	100	380	4	1800x1050x1700
40T/1600	400	1600	1200	300	120	400	4	1800x1340x2000
40T/2200	400	2200	1800	300	120	400	4	2400x1340x2000
40T/2500	400	2500	2100	300	120	460	5	2700x1340x2000
63T/2500	630	2500	2100	350	160	460	5	2700x1380x2250
63T/3200	630	3200	2700	350	160	460	5	3400x1380x2250
80T/2500	800	2500	2100	400	160	460	6	2700x1450x2250
80T/3200	800	3200	2700	400	160	460	6	3400x1450x2250
80T/4000	800	4000	3300	400	160	460	6	4200x1450x2250
100T/2500	1000	2500	2100	500	200	500	8.7	2700x1500x2420
100T/3200	1000	3200	2700	500	200	500	8.7	3400x1500x2420
100T/4000	1000	4000	3300	500	200	500	8.7	4200x1650x2620
100T/5000	1000	5000	4200	500	200	500	8.7	5200x1600x2500
125T/2500	1250	2500	2100	500	200	500	10.8	2700x1550x2450
125T/3200	1250	3200	2700	500	200	500	10.8	3400x1550x2450
125T/4000	1250	4000	3300	500	200	500	10.8	4200x1550x2450
125T/5000	1250	5000	4200	500	160	500	10.8	5200x1650x2550
125T/6000	1250	6000	5000	500	160	500	13.2	6200x1650x2550
170T/3200	1700	3200	2700	450	200	480	13.2	3400x1700x2520
170T/4000	1700	4000	3300	450	200	480	13.2	4200x1700x2520
170T/5000	1700	5000	4200	450	200	480	13.2	5200x1800x2800
170T/6000	1700	6000	5000	450	200	480	16.7	6200x1800x2900
220T/3200	2200	3200	2700	400	200	480	16.7	3400x1800x2550
220T/4000	2200	4000	3300	400	200	480	16.7	4200x1800x2550
220T/5000	2200	5000	4200	400	200	480	16.7	5200x1900x2900
220T/6000	2200	6000	5000	400	200	480	21.4	6200x1900x3100
250T/3200	2500	3200	2700	400	250	550	16.7	3400x1950x2800
250T/4000	2500	4000	3300	400	250	550	16.7	4200x1950x2800
250T/5000	2500	5000	4200	400	250	550	16.7	5200x2000x3000
250T/6000	2500	6000	5000	400	250	550	21.4	6200x2000x3150
320T/3200	3200	3200	2700	400	250	550	21.4	3400x2000x3200
320T/4000	3200	4000	3300	400	250	550	21.4	4200x2000x3200
320T/5000	3200	5000	4200	400	250	550	21.4	5200x2200x3300
320T/6000	3200	6000	5000	400	250	550	26.9	6200x2300x3400
400T/4000	4000	4000	3300	400	300	600	26.9	4200x2500x3400
400T/5000	4000	5000	4200	400	300	600	26.9	5200x2500x3500
400T/6000	4000	6000	5000	400	300	600	30	6200x2500x3600
500T/4000	5000	4000	3300	400	320	620	37	4200x2700x3700
500T/5000	5000	5000	4200	400	320	620	37	5200x2700x3800
500T/6000	5000	6000	5000	400	320	620	37	6200x2700x4000
600T/4000	6000	4000	3300	400	320	620	45	4200x2900x4300
600T/5000	6000	5000	4200	400	320	620	45	5200x3000x4700
600T/6000	6000	6000	5000	400	320	620	45	6200x3000x5000

Force Chart for Press Brake 板料折弯力表

V	4	6	8	10	12	14	16	18	20	24	28	32	36	40	45	50	55	60	65	70	80	90	100	120	
B	2.8	4	5.5	7	8.5	10	11	12.5	14	17	20	22	25	28	31	35	38	42	46	48	56	63	70	85	
R	0.7	1	1.3	1.6	2	2.3	2.6	3	3.3	3.8	4.5	5	6	6.5	7	8	9	10	10.5	11	16	14	16	19	
S	0.5	40	30																						
	0.6	60	40	30	30																				
	0.8		70	50	40	30																			
	1		110	80	70	60																			
	1.2			120	100	80	70	60																	
	1.5				150	120	110	90	80																
	2					220	190	170	150	130	110														
	2.5						250	220	200	170	150	130													
	3							330	290	250	210	180	160												
	3.5								400	330	290	250	220	200	180										
	4									440	370	330	290	260	230	210									
	4.5										470	410	370	330	300	270	240								
	5											510	450	400	360	330	300	270	250						
	6																520	470	430	390	360	340	300		
8																									
10																									
12																									
14																									

This chart is calculated according to the plate of tensile strength $\sigma_b=620\text{N/mm}^2$ and length L=1m, the force can be got according to the proportion while different kind of plate and different length to be bent.

本表数值是以材料强度 $\sigma_b=450\text{N/mm}^2$ 及长度 L=1m 计算所得。不同强度材料及长度所需折弯力可按相应比例计算所得。

$\sigma_b=620\text{N/mm}^2$
P: 折弯力 (KN)
L: 折弯材料长度 (m)
S: 折弯材料厚度 (mm)
V: 下模开口尺寸 (mm)

P: Bending Force (KN)
L: The width of the plate (m)
S: The thickness of the plate (mm)
V: Width of the bottom die (mm)

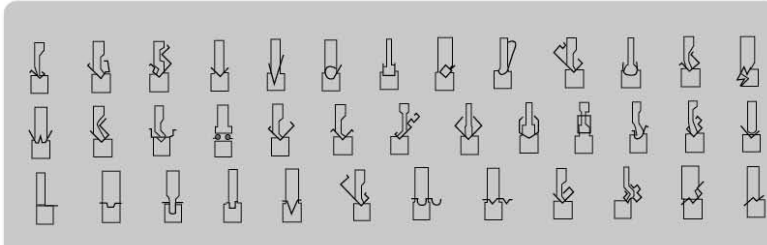
板料折弯力计算公式

Calculation Formula for Plate Bending Force

$$P = \frac{650S^2L}{V}$$

注：1、本表按 $\sigma_b=450\text{MPa}$ 抗拉强度的碳钢板材为依据。
2、不锈钢板：表中查出的P值乘以2；
3、铝板：表中查出的P值乘以0.7。

Notes:
1. The table is based on the carbon steel sheet with the tensile strength $\sigma_b=450\text{Mpa}$.
2. Stainless steel sheet. The value of P is 2 according to the table.
3. Aluminum sheet. The value of P should be multiplied by 0.7 according to the table.



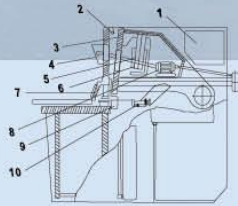


机器结构示意图
Machines Schematic Diagram

产品特点 PRODUCT 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。

1. The mainframe is fitted with numeric-control system special for shearing machines. The position of rear stopper is displayed in a real-time manner.
2. Multi-step programming function is available and the rear stopper is able for automatic operation and continuous positioning, to achieve an automatic adjustment for position of rear stopper.
3. It is provided with counting function for shearing, to display the shearing numbers in a real-time manner, able for power-failure memory of position of rear stopper, procedures, and parameters.
4. Imported ball bearing lead screw and linear guide rail are used, to ensure the positioning precision, so that the processing precision of machine is higher.



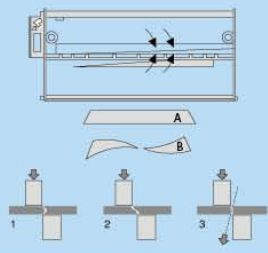
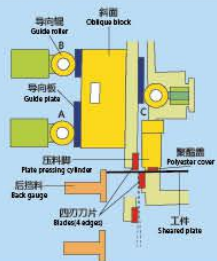
- | | |
|------------------|-----------------------------|
| 1. 油箱、液压集成块 | Oil tank, hydraulic block |
| 2. 带有高强度钢丝绳的对丝装置 | Shadow light with planewire |
| 3. 摆臂 | Swing board |
| 4. 控制台 | Control board |
| 5. 主油缸 | Main cylinder |
| 6. 快速回程油缸 | Rapid return cylinder |
| 7. 安全防护装置 | Safety protection device |
| 8. 后挡料电机 | Backgauge motor |
| 9. 喉口 | Throat |
| 10. 电机驱动的后挡料 | Powered backgauge |

技术参数 Technical Data

型号 Type	可剪板厚 Cutting thickness (mm)	可剪板宽 Cutting width (mm)	前切角 Cutting angle °	材料强度 Material strength (N/mm ²)	行程次数 Travel times (Min ⁻¹)	后挡料调节范围 Stopper adjust range (mm)	主电机功率 Power (Kw)	外形尺寸 Dimension (L×W×H) (mm)
4 × 2500	4	2500	1° 30'	≤450	16	20-500	5.5	3040 × 1550 × 1550
4 × 3200	4	3200	1° 30'	≤450	13	20-500	5.5	3840 × 1550 × 1550
4 × 4000	4	4000	1° 30'	≤450	10	20-600	5.5	4600 × 1700 × 1700
4 × 6000	4	6000	1° 30'	≤450	5	20-800	7.5	6480 × 2100 × 2300
6 × 2500	6	2500	1° 30'	≤450	15	20-500	7.5	3040 × 1710 × 1620
6 × 3200	6	3200	1° 30'	≤450	12	20-500	7.5	3840 × 1710 × 1620
6 × 4000	6	4000	1° 30'	≤450	9	20-600	7.5	4620 × 1850 × 1700
6 × 5000	6	5000	1° 30'	≤450	8	20-500	7.5	5640 × 1900 × 2000
6 × 6000	6	6000	1° 30'	≤450	5	20-800	18.5	6480 × 2100 × 2300
8 × 2500	8	2500	1° 30'	≤450	11	20-500	7.5	3040 × 1700 × 1700
8 × 3200	8	3200	1° 30'	≤450	8	20-500	7.5	3880 × 1700 × 1700
8 × 4000	8	4000	1° 30'	≤450	8	20-600	7.5	4640 × 1700 × 1700
8 × 5000	8	5000	1° 30'	≤450	8	20-500	7.5	5400 × 2400 × 2000
8 × 6000	8	6000	1° 30'	≤450	8	20-800	18.5	6480 × 2100 × 2350
10 × 2500	10	2500	1° 30'	≤450	10	20-500	7.5	3040 × 1800 × 1700
10 × 3200	10	3200	2°	≤450	10	20-500	11	3860 × 2000 × 1700
10 × 4000	10	4000	2°	≤450	10	20-600	11	4650 × 2100 × 2000
10 × 6000	10	6000	1° 30'	≤450	10	20-800	18.5	6500 × 2100 × 2300
12 × 2500	12	2500	1° 40'	≤450	12	20-600	18.5	3140 × 2050 × 2000
12 × 3200	12	3200	1° 40'	≤450	10	20-600	18.5	3880 × 2150 × 2000
12 × 4000	12	4000	1° 40'	≤450	10	20-600	18.5	4680 × 2150 × 2100
12 × 5000	12	5000	2°	≤450	6	20-600	18.5	5800 × 2400 × 2400
12 × 6000	12	6000	2°	≤450	5	20-1000	22	6900 × 2600 × 2700
16 × 2500	16	2500	2° 30'	≤450	10	20-600	18.5	3140 × 2150 × 2000
16 × 3200	16	3200	2° 30'	≤450	10	20-600	18.5	3880 × 2150 × 2000
16 × 4000	16	4000	2° 30'	≤450	10	20-800	37	4650 × 2150 × 2200
16 × 5000	16	5000	2°	≤450	6	20-1000	18.5	5900 × 2600 × 2700
16 × 6000	16	6000	2°	≤450	5	20-1000	22	6900 × 2700 × 2700
20 × 2500	20	2500	2° 30'	≤450	8	20-800	22	3440 × 2300 × 2500
20 × 3200	20	3200	2° 30'	≤450	8	20-800	22	4150 × 2350 × 2700
20 × 4000	20	4000	2° 30'	≤450	5	20-1000	22	4850 × 2600 × 2400
20 × 6000	20	6000	2° 30'	≤450	4	20-1000	37	6700 × 3000 × 3000
25 × 2500	25	2500	3°	≤450	8	20-1000	37	3200 × 2700 × 2900
25 × 3200	25	3200	3°	≤450	5	20-1000	37	4200 × 2400 × 2500
30 × 2500	30	2500	3°	≤450	4	20-1000	40	3300 × 2900 × 3000
30 × 3200	30	3200	3° 30'	≤450	4	20-1000	40	4200 × 2500 × 2600
40 × 2500	40	2500	4°	≤450	3	20-1000	75	3200 × 3300 × 3200
40 × 3200	40	3200	4°	≤450	3	20-1000	90	4300 × 3300 × 3000

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 disaccord please refer to actual data. All rights reserved to our company.





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。

在剪切时，刀口间隙可根据不同板料的需求进行调节，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.

技术参数 Technical Data

型号 Type	可剪板厚 Cutting thickness	可剪板宽 Cutting length	行程次数 Travel times	后挡料距离 Bumper distance	剪切角 Cutting angle	喉口深度 Throat depth	电机功率 Power	外形尺寸 Dimension
	(mm)	(mm)	(次/min)	(mm)	(°)	(mm)	(KW)	L×W×H (mm)
4x2500	4	2500	14~25	600	0.5~1.5	100	5.5	3000x2000x1850
6x2500	6	2500	12~20	600	0.5~1.5	125	7.5	3030x2075x1920
6x3200	6	3200	10~18	600	0.5~1.5	125	7.5	3730x2075x1970
6x4000	6	4000	10~18	600	0.5~1.5	125	7.5	4530x2075x1970
6x5000	6	5000	11~18	800	0.5~1.5	125	7.5	5530x2075x2210
6x6000	6	6000	9~15	800	0.5~1.5	125	11	6530x2075x2830
7x7000	7	7000	7~15	800	0.5~1.5	125	11	7530x2075x2830
8x2500	8	2500	12~20	600	0.5~1.5	125	11	3040x2075x1920
8x3200	8	3200	10~18	600	0.5~1.5	125	11	3740x2075x1920
12x2500	12	2500	10~18	800	0.5~2	125	15	3110x2575x2210
12x3200	12	3200	9~18	800	0.5~2	125	15	3810x2575x2420
12x4000	12	4000	8~15	800	0.5~2	125	15	4610x2575x2530
16x2500	16	2500	9~16	800	0.5~2.5	125	22	3130x2655x2200
16x4000	16	4000	8~15	800	0.5~2.5	125	22	4630x2655x2570
20x2500	20	2500	8~15	800	0.5~2.5	125	30	3160x2855x2720
20x4000	20	4000	6~12	800	0.5~2.5	125	30	4660x2855x2720
25x2500	25	2500	8~15	800	0.5~3.5	120	37	3330x2000x2650
25x3200	25	3200	8~15	800	0.5~3.5	120	27	3970x2100x2865
25x4000	25	4000	6~12	1000	0.5~3.5	120	27	4780x2500x3150
32x2500	32	2500	6~12	1000	0.5~3.5	120	45	4100x2300x3200
32x3200	32	3200	8~12	1000	0.5~3.5	120	55	1900x2650x3450
40x2500	40	2500	4~10	1000	0.5~3.5	120	75	4100x2550x3500
40x3200	40	3200	4~10	1000	0.5~3.5	120	75	4900x2900x3750

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.

可选配数控系统
Optional CNC system



MD11-1



E21S



E200PS



DAC310



DAC360



滚筒送料(可选)
Roller feeding (optional)



气动后托料(可选)
Pneumatic retainer (optional)



滑料装置(可选)
Slip device (optional)



光纤激光切割机

Fiber laser cutting machine



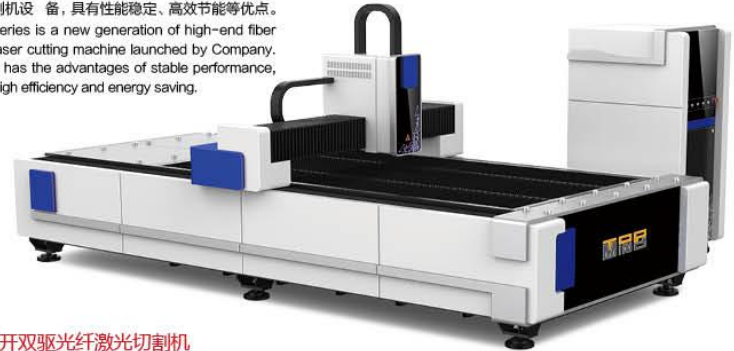
交换台式光纤激光切割机
Exchangeable Fiber Laser Cutting Machine

产品特点 PRODUCT FEATURES

- 高刚性重型机床，减少高速切割过程中产生的震荡；
- 龙门双驱结构，德国进口齿轮齿条传动系统，提高客户的生产效率；
- 高性能铸铝横梁，经过有限元分析，实现高加速圆弧切割；
- 全闭环激光切割控制系统及自动调焦功能，具备高速穿孔及自动寻边功能。
- High-rigidity heavy chassis, reducing the vibration generated during high-speed cutting greatly.
- Gantry double-drive structure, with imported German rack & pinion transmission system, improves the production efficiency.
- High-performance cast aluminum guide rail, after finite element analysis, realizes highly accelerated speed circular arc cutting.
- Close-loop laser cutting control system, auto focus, high-speed piercing and automatic tracing -edge function.

产品特点 PRODUCT FEATURES

- 系列为本公司推出的新一代高端光纤激光切割机设备，具有性能稳定、高效节能等优点。
- series is a new generation of high-end fiber laser cutting machine launched by Company. It has the advantages of stable performance, high efficiency and energy saving.



敞开双驱光纤激光切割机
Open Type Double Drive Fiber Laser Cutting Machine

设备型号 / Mode No	3015	4015	4020	6020
加工幅面 / Working Pange	3000mmx1500mm	4000mmx1500mm	4000mmx2000mm	6000mmx2000mm
Y 轴行程 / Y Axis track	3050mm	4050mm	4050mm	6050mm
X 轴行程 / X Axis track	1525mm	1525mm	2025mm	2025mm
Z 轴行程 / Z Axis track	120mm	120mm	120mm	120mm
X, Y 轴重复定位精度 / X, Y Axis accuracy	±0.02mm	±0.02mm	±0.02mm	±0.02mm
X, Y 轴最大加速度 / X, Y Axis max. acceleration	0.8G	0.8G	0.8G	0.8G
X, Y 轴最大定位速度 / X, Y Axis max. Speed	80m/min	80m/min	80m/min	80m/min
工作台最大载重 / Max. load of worktable	0.8T	1T	1T	1.2T
整机重量 / Net Weight	3.8T	4.5T	5T	7T
整机外形尺寸 (长 X 宽 X 高) / Dimension (LxWxH)	5000x2700x1600mm	6000x2700x1600mm	6000x3200x1600mm	8000x3200x1600mm

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 disaccord please refer to actual data, All rights reserved to our company.

交换台式光纤激光切割机
Exchangeable Fiber Laser Cutting Machine

设备型号 / Mode No	3015B	4020B	6020B	6025B
加工幅面 / Working Pange	3000mmx1500mm	4000mmx2000mm	6000mmx2000mm	6000mmx2500mm
Y 轴行程 / Y Axis track	3050mm	4050mm	6050mm	6050mm
X 轴行程 / X Axis track	1525mm	2025mm	2025mm	2525mm
Z 轴行程 / Z Axis track	270mm	270mm	270mm	270mm
X, Y 轴重复定位精度 / X, Y Axis accuracy	±0.02mm	±0.02mm	±0.02mm	±0.02mm
X, Y 轴最大加速度 / X, Y Axis max. acceleration	1.2G	1.2G	1.2G	1.2G
X, Y 轴最大定位速度 / X, Y Axis max. Speed	100m/min	100m/min	100m/min	100m/min
工作台最大载重 / Max. load of worktable	0.8T	1T	1.2T	1.2T
整机重量 / Net Weight	6T	8T	10T	12T
整机外形尺寸 (长 X 宽 X 高) / Dimension (LxWxH)	8500x2900x1950mm	10500x3400x1950mm	14500x3400x1950mm	14500x3900x1950mm

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 disaccord please refer to actual data, All rights reserved to our company.

全伺服数控创槽机

Full Servo CNC slotting machine



立式创槽机
Vertical grooving machine

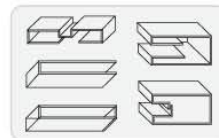
产品特点 PRODUCT FEATURES

- 立式创槽机是传统创槽机的升级产品。
- 采用框架式结构，高强度螺栓连接，整体刚性好，变形小。
- 该系列横梁固定不动，工件由后送料机构送入，工作台面采用碳素工具制作，高频表面淬火后硬度达 55-60Hc (普通台面 <30Hrc) 使工作台面硬度远大于不锈钢硬度，解决了传统机型因工作台面硬度低出现沟痕的现象，保证工作台面平面度 $\leq \pm 0.02$ ，彻底解决因工作台面变形降低 V 型槽精度的问题，延长了设备的使用寿命。
- 工作台面均设有托料装置，防止加工过程中板材划伤。

- Vertical grooving machine is an upgraded product of traditional slot planer.
- frame structure, high-strength bolt connection, good overall rigidity and small deformation.
- the beam of this series is fixed, the workpiece is fed by the rear feeding mechanism, and the worktable is made of carbon tools. After high-frequency surface quenching, the hardness reaches 55-60Hc (ordinary table surface <30Hrc), which makes the hardness of the worktable much higher than that of stainless steel, solves the phenomenon of groove marks caused by low hardness of the worktable of traditional models, ensures that the flatness of the worktable is $\leq \pm 0.02$, completely solves the problem of reducing the accuracy of V-groove due to the deformation of the worktable, and prolongs the service life of the equipment.
- material supporting devices are set at the front and rear of the worktable to prevent sheet material from being scratched during processing.

产品特点 PRODUCT FEATURES

- 龙门式，上下料方便，气冷无环境污染，三+1轴数控，伺服控制，实现全自动运行加工，提高创槽加工精度。
- 采用韩国液压控制系统作为动力，压力大，紧固力可靠，同时噪音低、能耗小。
- 采用精研磨齿，45#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。
- 数控程序设计合理，易于掌握，只需输入加工尺寸即可完成。
- 根据材质的不同，可用旋钮调整加工速度，便于操作人员操作。
- gantry type, convenient loading and unloading, air cooling, no environmental pollution, three + 1 axis NC, servo control, realize full-automatic operation and processing, and improve the machining accuracy of grooving.
- Korean hydraulic control system is adopted as the power, with high pressure, reliable fastening force, low noise and low energy consumption.
- fine grinding gear, 45# steel forging quenching and tempering, helical rack guide rail transmission, variable frequency adjustment of moving speed, and stable cutting process.
- the NC program design is reasonable and easy to master. It can be completed only by inputting the machining size.
- according to different materials, the processing speed can be adjusted by knob to facilitate the operation of operators.



龙门式创槽机
Gantry slotting machine

机床型号	开槽材料最大宽度 (mm)	开槽材料最大长度 (mm)	开槽材料最大厚度 (mm)	开槽材料最小厚度 (mm)	V型槽底边最小距离 (mm)	切削速度 m/min	刀后右移动行程 (mm)	定位精度 (mm)	刀架上下移动行程 (mm)	定位精度 (mm)	主传动电机功率 (kw)	液压系统工作压力 (Mpa)	机床尺寸 (长*宽*高)
3200x1250	1250	3200	4.5	0.5	8	75	0.001	正负0.01	0.001	正负0.01	5.5	7-9	5300*2300*1700
4000x1250	1250	4000	4.5	0.5	8	75	0.001	正负0.01	0.001	正负0.01	5.5	7-9	6100*2300*1700
4000x1500	1500	4000	4.5	0.5	8	75	0.001	正负0.01	0.001	正负0.01	5.5	7-9	6100*2600*1700
5000x1250	1250	5000	4.5	0.5	8	75	0.001	正负0.01	0.001	正负0.01	5.5	7-9	7100*2300*1700
5000x1500	1500	5000	4.5	0.5	8	75	0.001	正负0.01	0.001	正负0.01	5.5	7-9	7100*2600*1700
6000x1250	1250	6000	4.5	0.5	8	75	0.001	正负0.01	0.001	正负0.01	5.5	7-9	8100*2300*1700
6000x1500	1500	6000	4.5	0.5	8	75	0.001	正负0.01	0.001	正负0.01	7.5	7-9	8100*2600*1800

立式创槽机
Vertical grooving machine

机床型号	开槽材料最大宽度 (mm)	开槽材料最大长度 (mm)	开槽材料最大厚度 (mm)	开槽材料最小厚度 (mm)	V型槽底边最小距离 (mm)	切削速度 m/min	刀后右移动行程 (mm)	定位精度 (mm)	刀架上下移动行程 (mm)	定位精度 (mm)	主传动电机功率 (kw)	液压系统工作压力 (Mpa)	机床尺寸 (长*宽*高)
3200/1600	1600	3200	4	0.5	8-10	55	0.001	正负0.01	0.001	正负0.01	5.0	6-8	4800*2850*2100
4200/1600	1600	4200	4	0.5	8-10	55	0.001	正负0.01	0.001	正负0.01	5.0	6-8	5600*2850*2100
5200/1600	1600	5200	4	0.5	8-10	55	0.001	正负0.01	0.001	正负0.01	5.0	6-8	6600*2850*2100
6200/1600	1600	6200	4	0.5	8-10	55	0.001	正负0.01	0.001	正负0.01	5.0	6-8	7500*2850*2100
7200/1600	1600	7200	4	0.5	8-10	55	0.001	正负0.01	0.001	正负0.01	5.0	6-8	8500*2950*2300

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.