



正西

做行业领导品牌
CREATE AN INDUSTRY LEADING BRAND



钣金折弯成型解决方案

成都正西液压设备制造有限公司 —— 专注液压成型设备解决方案

成都正西萨凡智能设备有限公司 —— 专注钣金成型解决方案

成都正西机器人有限公司 —— 专注工业自动化解决方案

成都正西云信息技术有限公司 —— 专注物联网大数据智能化生产

- ▼ 液压机
- ▼ 折弯机
- ▼ 智能工厂
- ▼ 信息化系统
- ▼ 自动化单元
- ▼ 工业机器人

更安全
—— SAFER

更稳定
—— MORE STABLE

更高效
—— MORE EFFICIENT



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COMPANY PROFILE

公司简介

成都 正西公司

Chengdu Zhengxi Company

成都正西公司创立于2009年1月，注册资金5970万元，是一家集研发、生产、销售和服务于一体的智能成型装备制造型企业，十四年的自主研发与生产经验，酝酿出了一批高素质的技术管理团队以及一整套成型设备完整的制造工艺，为客户打造出稳定、适用、环保的优质产品。

Chengdu Zhengxi Company was founded in January 2009, with a registered capital of 59.7 million yuan. It is an intelligent molding equipment manufacturing enterprise integrating R&D, production, sales and service. With 12 years of independent R&D and production experience, it has incubated a group of high-quality technical management team and a complete set of manufacturing process of molding equipment. For customers to create stable, applicable,

公司现有有效自主知识产权 36 项(软件著作权4项;国家专利证书 21 项,其中发明专利1项;商标11项), 2018年通过“知识产权管理贯标贯标认证”, 2021年通过“高新技术企业认定”, 连续被评选为“成都市中小型科技发展企业”、“青白江知识产权试点(示范)企业”、“2020 年度成都市知识产权优势单位”、“2021年复合材料液压机国内领先单位”等。

The company has 36 effective proprietary intellectual property rights (4 software copyrights; 21 national patent certificates, including 1 invention patent; 11 trademarks), passed the "Intellectual Property Management Standard Implementation Certification" in 2018, passed the "high-tech enterprise Identification" in 2021, It has been successively selected as "Small and medium-sized technology Development Enterprise in Chengdu", "Qingbaijiang Intellectual Property Pilot (Demonstration) Enterprise", "2020 intellectual property Advantage Unit in Chengdu", "2021 Domestic Leading Unit of Composite Hydraulic Press" and so on.



DEVELOPMENT COURSE

发展历程

成都正西公司



成都正西历经14年技术沉淀, 只为提供更安全更高效更稳定的的液压产品

2020

占地48000m²的新生产基地正式投产!



2016

正西机器人公司正式成立!



2023

正西科技研发大楼开始建设



2012

自主研发的伺服系统压力精度可达±0.05Mpa



四川化工机械厂

2007

四川化工机械厂改制, 开始生产液压机



2009

正式注册“正西”商标和品牌, 开始专注生产液压设备



1956

公司前身为川化集团旗下的四川化工机械厂



2008

自主研发第一台1200吨液压机



2014

工厂面积增加到18000m²



2011

通过ISO体系认证



2015

第一台3500吨锻造机交付使用



2012

产品开始出口





PROCESSING STRENGTH 加工实力

公司位于成都市青白江区大弯智慧大道1698号，总投资2.6亿元，占地45600m²，其中重型车间面积30400m²。主要研发生产设备有160数控落地镗床、14米重型卧式车床、4X8米数控退火炉、数控磨床、自动埋弧焊、探伤与硬度及相关检测设备等精密设备60余台。

The company is located in No. 1698, Dawan Wisdom Avenue, Qingbaijiang District, Chengdu, with a total investment of 260 million yuan, covering an area of 45,600 square meters, including a heavy workshop area of 30400 square meters. The main research and development production equipment has 160 CNC floor boring machine, 14 meters heavy horizontal lathe, 4X8 meters CNC annealing furnace, CNC grinding machine, automatic submerged arc welding, flaw detection and hardness and related testing equipment more than 60

2.6亿

工厂总投资2.6亿元人民币，资金实力雄厚，并在2023年投资建设新的研发大楼，年底投入使用

With a total investment of 260 million yuan, the factory has strong financial strength and will invest in the construction of a new R&D building in 2023, which will be put into use by the end of the year

300+

成都正西公司全体员工共计300余名，不仅能保证设备出厂时的质量，更能保证可以提供优质的售后服务

Chengdu Zhengxi Company has a total of more than 300 employees, not only to ensure the quality of the equipment before delivery, but also to ensure that we can provide high-quality after-sales service

4×8m大型退火炉

4x8m large annealing furnace

折弯机机身经过焊接后会产生应力。我司所有产品都会经过退火工艺进行应力消除退火过后，机身将更加坚硬不易变形

THE BODY OF THE BENDING MACHINE WILL BE STRESSED AFTER WELDING. ALL OUR PRODUCTS WILL UNDERGO ANNEALING PROCESS FOR STRESS RELIEF ANNEALING, AFTER WHICH THE FUSELAGE WILL BE HARDER AND LESS DEFORMATION

4×8m

退火炉机身达到4×8m，可以一次性加工大型折弯机机身

Annealing furnace body up to 4x8m, can be a one-time processing of large bending machine body



数控龙门铣

CNC gantry milling

加工精度和生产效率都比较高，由伺服电机驱动，独特的横梁升降安全连锁装置，保证机床的重复定位精度

MACHINING ACCURACY AND PRODUCTION EFFICIENCY ARE RELATIVELY HIGH, DRIVEN BY SERVO MOTOR, UNIQUE BEAM LIFTING SAFETY INTERLOCKING DEVICE, TO ENSURE THE REPEATED POSITIONING ACCURACY OF

0.01mm

数控龙门铣因其独特的装置，可使产品的加工精度达到0.01mm

CNC gantry milling because of its unique device, the machining accuracy of the product can reach 0.01mm



TEAM CERTIFICATION

团队资质



团队介绍

Team introduction

公司现有员工人数300多人, 下设核心7个中心管理, 21个部门, 公司坚持实行“以人为本”的理念, 打造“重学习, 常练习”的学习文化, 不定期抽出工作时间对员工进行行为规范培训以及安全生产培训会, 并对每一个员工都有机会参与相关技能的专业培训, 并不断更新和完善公司管理与员工学习机制。

The company has more than 300 employees with 8 core management centers and 21 departments. The company adheres to the concept of "people first" and builds a learning culture of "emphasis on learning and frequent practice". It takes time out from time to time to conduct conduct training and production safety training for employees. And every employee has the opportunity to participate in the professional training of relevant skills, and constantly update and improve the company's management and employee learning mechanism. welding, flaw detection and hardness and related testing



工艺严格

Strict workmanship

我司在工艺质量、制造环节中, 严格按照国家及行业标准。在非标类产品制造中亦是最大限度地采用国家和行业标准来设计, 严控每一个环节, 确保每一处质量。公司系列产品通过了“ISO9001质量管理体系认证”、“国际CE认证”, 并积极参与质量管理卓越绩效评价、参与国家标准制定等。

Our company in the process quality, manufacturing links, in strict accordance with the national and industry standards. In the manufacturing of non-standard products is also to maximize the use of national and industry standards to design, strictly control every link, to ensure the quality of every place. The company's series of products have passed the "ISO9001 quality management system certification", "international CE certification", and actively participate in the quality management performance evaluation, participate



资质证书

Qualification certificate



PRODUCT ADVANTAGE

产品优势



电器系统

Electrical system

1. 驱动及电机全新硬件与电磁设计, 大大降低了故障率和返修率;
2. 伺服系统先进的液压算法, 具备高响应、低脉动、低超调等特点, 可提高整体机械的压力精度, 减少机械冲击;
3. 独特的凸极电机结构, 大大降低了温升, 电机永不退磁, 降低了终端的故障可能
4. 支持多种通信方式, 能够满足客户的多种工艺定制要求;
5. 采用永不退磁的优越IPM电磁设计技术, 噪音明显降低, 系统温升更低、电流小、转矩大
6. 成熟丰富的行业工艺应用控制, 极简的工艺易用;
7. 免调谐, 高易用。

1. Drive and motor new hardware and electromagnetic design, greatly reducing the failure rate and repair rate;
2. Advanced hydraulic algorithm of servo system, with high response, low pulsation, low overshoot and other characteristics, can improve the overall mechanical pressure accuracy, reduce mechanical impact;
3. Unique salient pole motor structure, greatly reduce the temperature rise, motor never demagnetizing, reduce the possibility of terminal failure
4. Support a variety of communication methods to meet customers' requirements of various process customization;
5. Adopting the superior IPM electromagnetic design technology that never demagnetizes, the noise is significantly reduced, the temperature rise of the system is lower, the current is small, and the torque is large
6. Mature and rich industrial process application control, simple and easy to use process;
7. No tuning, high ease of use.

机身部分

Fuselage section

1. 机身采用Q355优质钢板整体焊接, 抗震性更强
2. 采用大型回火炉消除应力, 稳定性好, 机架永不变形;
3. 数控五面体加工中心一次成形, 保证了各安装面的平行及垂直度;
4. 机架喉口处设有C形板机构, 检测上下模之间的距离, 确保制件精度

1. The fuselage is welded with Q355 high-quality steel plate, which has stronger shock resistance
2. Use large tempering furnace to eliminate stress, good stability, frame never deformation;
3. The CNC pentahedral machining center is formed once to ensure the parallelism and perpendicularity of each mounting surface;
4. The throat of the frame is provided with a C-shaped plate mechanism to detect the

液压控制系统

Hydraulic control system

1. 采用最先进的全闭环电液伺服同步控制系统, 可实现高速、高精度、高效率的性能;
2. 采用分体式不锈钢油箱, 不会有腐蚀的困扰, 安装、清洗方便, 油箱体积比常规机床减小50%, 降低保养换油成本,
3. 主电机采用伺服电机, 通过动态的伺服电机的速度进行优化, 按照需求精确配给油量, 最大限度减少溢流损失, 没有空闲功率, 当不需要流量或压力时, 伺服电机可以关闭, 节能效果达到40%以上;
4. 液压阀件成套进口德国力士乐REXROTH或哈威HAWE公司, 质量稳定、可靠
5. Y1、Y2可单独编程, 可在偏载状态下工作, 也可锥形折弯;
6. 下死点有保压时间, 可编程, 确保不同制件精度
7. 有慢速回程控制的功能, 操作者可以更好的控制工件;
8. 选用意大利GIVI线性磁栅尺, 高精度导向系统、位置测量系统和液压均衡功能, 能满足全长或偏载的加工需要
9. 油缸内密封件为日本NOK, 密封性强, 寿命长;
10. 液压系统管件、接头采用国外进口, 质量佳, 性能强;
11. 液压系统有超负荷溢流安全保护,
12. 机床可在额定负载下连续工作, 而液压系统保证无泄漏且加工持续稳定, 精度高

1. The most advanced closed-loop electro-hydraulic servo synchronous control system can achieve high speed, high precision and high efficiency performance;
2. The split stainless steel tank will not have the trouble of turbidity, convenient installation and cleaning. The volume of the tank is reduced by 50% compared with the conventional machine tool, reducing the maintenance cost of oil change.
3. The main motor adopts the same service motor, which is optimized by the speed of the dynamic servo motor, and precisely allocates the amount of oil according to the demand to minimize the overflow loss. There is no idle power, and the servo motor can be shut down when no flow or pressure is needed.
4. Hydraulic valve parts complete set imported from Germany REXROTH or HAWE company, stable quality, reliable
5. Y1, Y2 can be programmed separately, can work under off-load condition, can also be conical bending;
6. The lower dead point has pressure holding time, programmable, to ensure the accuracy of different parts
7. With the function of slow return control, the operator can better control the workpiece;
8. Italian GIVI linear magnetic grid ruler, high-precision guiding system, position measurement system and hydraulic balance function, can meet the needs of full-length or off-load processing
9. The oil cylinder seal is Japan NOK, strong sealing and long service life;
10. Hydraulic system pipe fittings, joints imported from abroad, good quality, strong performance;

NUMERICAL CONTROL SYSTEM

数控系统

折弯机所有轴的运动控制通过数控系统实现,正西折弯机标配来自于德国PA技术的EP700B数控系统,响应速度更快,精度更高,操作便利性更强



EP700B-00/德国PA

- | | |
|--------------------------|---|
| 1. 高分辨率TFT显示屏 | 1. High-resolution TFT display |
| 2. 做多4轴控制 (Y1,Y2,X,R辅助轴) | 2. Do more 4 axis control (Y1,Y2,X,R auxiliary axis) |
| 3. 高速实时EtherCAT总线,易于扩展 | 3. High-speed real-time EtherCAT bus, easy to expand |
| 4. 物联网接口,USB外设接口 | 4. Internet of Things interface, USB peripheral interface |
| 5. 先进的Y轴控制算法,定位精度±1丝 | 5. Advanced Y-axis control |



DA-66T/荷兰DELEM(可选配)

- 2d触模式图形编程
- 3d产品图形模拟显示
- 17寸高分辨率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 touch graphics programming
- 3d product graphical simulation display
- 17" high resolution TFT true color display
- Complete Windows application package
- Compatible with Delem modular structure system
- USB peripheral port
- User program application in multitasking environment
- Angle detection sensor port



DA-53T/荷兰DELEM(可选配)

- 10.1寸高分辨率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,可控制闭环阀
- 网络双关联动(选配)
- USB外设接口,Profile-53TL离线编程软件

- 10.1" high resolution TFT display
- Up to 4 axes control (Y1,Y2+2 auxiliary axes)
- Deflection compensation control
- Have mold/material/product library
- Support servo or frequency conversion control
- Advanced Y-axis control algorithm, can control the close and open ring valve
- Network pun Linkage (Optional)
- USB peripheral interface, Profile-53TL offline programming software

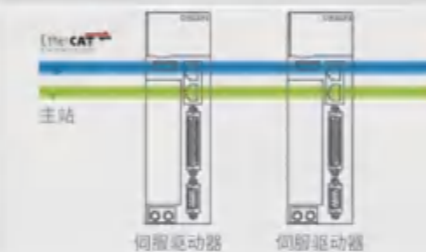
总线控制

Bus control

SV660N系列总线伺服,一网到底。增加后挡料轴数,只需要增加伺服系统
SV660N series bus servo, a net to the end. To increase the number of rear stopper shafts, only need to increase the servo system

EtherCAT快速布线连接,大幅减轻配线工作量

EtherCAT fast wiring connection, greatly reduce the wiring workload



接口丰富/物联网

Interface Rich/IOT

可实现远程监控,远程调试。支持通过电脑,手机APP,微信对设备进行实时运行状态监测,故障报警提醒,实时地图监测,实时曲线监测等功能

Can realize remote monitoring, remote debugging. It supports real-time operation status monitoring, fault alarm reminding, real-time map monitoring, real-time curve monitoring and other functions of the device through computer, mobile APP and wecha

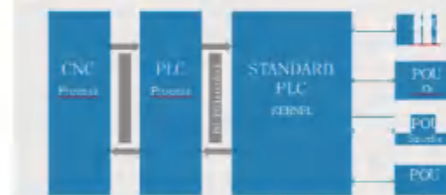


开放性

openness

开放式软件架构,可定制化需求,用户可自主开发扩展功能,折弯机器人,自动换模等

Open software architecture, can be customized requirements, users can independently develop extension functions, bending robot, automatic mold change, etc

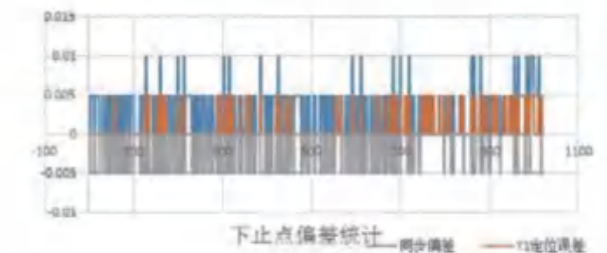


先进控制算法

Advanced control algorithm

工进同步精度0.05mm以内
Process synchronization accuracy within 0.05mm

绝对精度±0.01mm,重复定位精度0.01mm
Absolute accuracy ±0.01mm, repeated positioning accuracy 0.01mm



PRODUCT CHARACTERISTICS

产品特点

高精度磁栅尺

High precision magnetic grid ruler

高精度的导向系统、位置测量系统和液压均衡功能，能满足全长或偏载的加工需求。

High precision steering system, position measurement system and hydraulic balancing function can meet the full length or off-load machining needs.

后挡料系统

Rear stop system

采用最新欧洲技术与机架完全隔离开，更加稳定可靠，精度更高，加工范围更广，X轴退让范围可达到650mm，具有防撞功能。

The latest European technology is completely separated from the frame, more stable and reliable, higher precision, wider processing range, X-axis retreat range can reach 650mm, with anti-collision function.

液压系统

Hydraulic system

采用集成式液压控制系统，简化管路，防止泄露，提高机床工作的稳定性，同时也使得外观更加简洁、美观。德国制造的齿轮泵的使用，保证整体系统噪音低，寿命长。

Adopt integrated hydraulic control system, simplify pipeline, prevent leakage, improve the stability of the machine, but also make the appearance more concise and beautiful. The use of gear pump made in Germany ensures low noise and long service life of the whole system.

电气系统

Electrical system

电气元件采用国外进口或合资产品，符合国际标准，安全可靠，寿命长，抗干扰能力强，电控柜有散热装置

Electrical components imported from abroad or joint venture products, in line with international standards, safe and reliable, long life, strong anti-interference ability, electric control cabinet has a cooling device

整机回火

Complete tempering

整机采用大型退火炉彻底消除应力，保证了机床整机精度的持久稳定。

The whole machine adopts large annealing furnace to eliminate the stress completely and ensure the lasting stability of the machine precision.

同步系统

Synchronous system

油缸同步采用液压比例伺服系统控制，配合国际标准的磁栅尺，形成全闭环控制，同步控制精度高，折弯精度、重复定位精度等也达到了很高的等级。

Cylinder synchronous hydraulic proportional servo system control, with the international standard magnetic grid ruler, the formation of a full closed-loop control, synchronization control precision, bending accuracy, repeated positioning accuracy has reached a very high

前托架装置

Front bracket device

配备可移动式前托架，减轻折弯时的劳动强度，提高生产效率
Equipped with portable front bracket, reduce bending labor intensity, improve production efficiency

油缸

Oil cylinder

整体锻件，表面淬火52-58HRC；活塞杆45#调质处理，表面镀铬；采用日本NOK进口高性能密封圈

Integral forging, surface quenching 52-58HRC; Piston rod 45# conditioning treatment, chrome plated surface; High performance seal ring imported from Japan NOK

模具快夹

Mold quick clip

配备上模快速夹紧，换模方便，降低劳动强度，提高生产效率。

Equipped with the upper die fast clamping, easy to change the die, reduce labor intensity, improve production efficiency

高质量折弯模具

High quality bending mould

整体淬火的精密数控折弯模具，经久耐用。
Precision CNC bending die for integral quenching, durable.

C型喉口补偿装置

Type C throat compensation device

该装置安装在机床喉口处下方，上方与磁栅尺相连，因此机床工作时发生的受力应变，将不会影响检测元件的测量精度，从而保证任何厚度、任何材质板材的折弯精度。

The device is installed below the throat of the machine tool, and the upper part is connected with the magnetic grid ruler, so the mechanical strain occurring during the machine tool operation will not affect the measurement accuracy of the detection element, so as to ensure the bending accuracy of any thickness

机械补偿装置

Mechanical compensation device

高精度整体式机械补偿装置，通过数控系统控制，得到精密补偿，保证高质量折弯精度。

High precision integral mechanical compensation device, through the numerical control system control, precision compensation, to ensure high quality bending accuracy

HA SERIES-HYDRAULIC SERVO CNC PRESS BRAKE

HA系列-液压伺服数控折弯机



液压系统

Hydraulic system

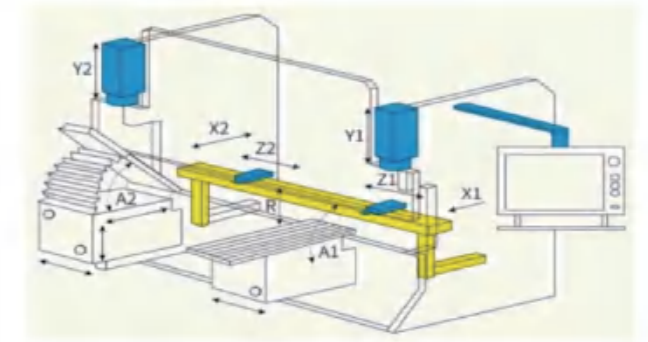
- 1.全新欧洲设计理念,具有高速度,高精度,高刚性
- 2.机架采用高强度钢材焊接,稳定性更高,寿命更长
- 3.采用最新的伺服泵技术,按需做功,更省电省油
- 4.拥有友好的人机交互环境,控制精度高,编程方便
- 5.采用整体式高精度挠度补偿工作台,产品更稳定
- 6.采用意大利GIVI磁栅尺,定性更精确

1. New European design concept, with high speed, high precision, high rigidity
2. The frame is welded with high-strength steel for higher stability and longer life
3. The use of the latest servo pump technology, according to demand work, more energy and fuel saving
4. Friendly man-machine interaction environment, high control precision, convenient programming
5. Using integral high-precision deflection compensation table, the product is more stable
6. Italian GIVI grid ruler, more accurate qualitative

机械原理

Mechanical principle

Y1, Y2 轴:控制滑块上下运行;
V 轴:控制机床挠度补偿量
X, R, Z1, Z2 轴:均为后定位系统控制轴,控制后挡料定位位置
T2 轴:托料轴,折弯时托料板与被加工板料随动托住被加工板料
Y1、Y2、X、V是每台数控折弯机必需具备的;其他轴根据用户需求进行选配



Y1, Y2 axis: control slider up and down operation;
V axis: controls the deflection compensation of the machine tool
X, R, Z1, Z2 axes: They are all control axes of the rear positioning system, controlling the positioning position of the rear retaining material
T2 axis: supporting shaft. When bending, the supporting plate and the processed plate support the processed plate with movement
Y1, Y2, X, V are necessary for every CNC bending machine; Other shafts are selected according to user requirements

技术参数

Technical parameter

项目 project	单位 unit	规格型号 Specification and model					
		110-3200	110-4100	160-3200	160-4100	220-3200	220-4100
折弯吨位 Bending tonnage	KN	1100	1100	1600	1600	2200	2200
折弯长度 Bending length	mm	3200	4100	3200	4100	3200	4100
立柱间距 Column spacing	mm	2600	3600	2600	3600	2600	3600
喉口深度 Throat depth	mm	410	410	410	410	410	410
滑块行程 Slide stroke	mm	215	215	215	215	215	215
装模高度 Loading height	mm	560	560	560	560	560	560
快下速度 Fast down speed	mm/s	220	200	180	180	160	160
工作速度 Working speed	mm/s	14	14	12	12	10	10
回程速度 Return speed	mm/s	180	180	160	160	140	140
外观尺寸(长) Appearance size (length)	mm	3600	4700	3700	4700	3700	4700
外观尺寸(宽) Appearance size(wide)	mm	1500	1500	1600	1600	1800	1800
外观尺寸(高) Appearance size(high)	mm	2600	2600	2900	2900	2900	2900
油箱容积 Tank volume	L	120	120	150	150	150	170
电机功率 Motor power	KW	7.9	7.9	15	15	19	19
机床重量 Machine weight	T	7.5	9	9.5	11	11.5	13

HB SERIES-HYDRAULIC SERVO CNC PRESS BRAKE

HB系列-液压伺服数控折弯机



技术参数 Technical parameter

项目 project	单位 unit	规格型号 Specification and model											
		35-1250	63-2050	63-2550	110-3200	110-4100	160-3200	160-4100	220-3200	220-4100	300-3200	300-4100	
折弯吨位 Bending tonnage	KN	350	630	630	1100	1100	1600	1600	2200	2200	3000	3000	
折弯长度 Bending length	mm	1250	2050	2550	3200	4100	3200	4100	3200	4100	3200	4100	
立柱间距 Column spacing	mm	950	1750	2150	2600	3600	2600	3600	2600	3600	2600	3600	
喉口深度 Throat depth	mm	300	390	390	410	410	410	410	410	410	410	410	
滑块行程 Slide stroke	mm	115	170	170	215	215	215	215	215	215	265	265	
装模高度 Loading height	mm	450	520	520	560	560	560	560	560	560	580	580	
快下速度 Fast down speed	mm/s	220	220	220	220	200	180	180	160	160	120	120	
工作速度 Working speed	mm/s	18	16	16	14	14	12	12	10	10	9	9	
回程速度 Return speed	mm/s	220	200	200	180	180	160	160	140	140	100	100	
外观尺寸(长) Appearance size (length)	mm	1650	2900	3400	3600	4700	3700	4700	3700	4700	3700	4600	
外观尺寸(宽) Appearance size(wide)	mm	1400	1400	1400	1500	1500	1600	1600	1800	1800	1850	1850	
外观尺寸(高) Appearance size(high)	mm	2200	2500	2500	2600	2600	2900	2900	2900	2900	3000	3000	
油箱容积 Tank volume	L	90	90	90	120	120	150	150	150	170	240	240	
电机功率 Motor power	KW	4	7.9	7.9	7.9	7.9	15	15	19	19	21	21	
机床重量 Machine weight	T	3	4.5	5	7.5	9	9.5	11	11.5	13	14	16.3	

标准配置

Standard configuration



标准配置 Standard configuration

- 1.设备机身均采用Q355B加工而成，强度提升1.5倍
- 2.机身焊接完后整机退火，设备持久性更强

1. The body of the equipment is processed by Q355B, and the strength is increased by 1.5 times
2. The machine is annealed after the fuselage is welded, and the durability of the equipment is stronger



标准4+1两轴后挡料 Standard 4+1 two-axle rear stopper

后挡具有X轴与R轴的自动控制，分别为前后与升降，方便更多产品成型，左右同步采用连杆与同步带轮，定位更精准

The rear gear has the automatic control of X axis and R axis, respectively for the front and rear and lifting, convenient for more product forming, left and right synchronous connecting rod and synchronous pulley, positioning more accurate



机械挠度补偿装置·一体式

Mechanical deflection compensation device · All-in-one

2500以上机械均标配机械补偿挠度，电脑自动计算出补偿量后电机自动控制，提高产品精度；一体式补偿，寿命更长，精度更高

More than 2500 machines are equipped with standard mechanical compensation deflection, the computer automatically calculates the compensation amount after the motor automatic control, improve the accuracy of the product; Integral compensation, longer life, higher accuracy



数控系统·大屏智控

Numerical control system · large screen intelligent control

高响应，高速的数控系统，快速编辑，精度高；可数字快速编程，2D图形编程；物联网接口，USB外设接口

High response, high speed CNC system, fast editing, high precision; Digital fast programming, 2D graphics programming; Internet of Things interface, USB peripheral



快装模具卡槽

Quick install mold slot

本机型模具座支持双V同心模，单V快装模，大方模

This model mold base support double V concentric mold, single V fast mold, generous mold



上模快夹

Quick clip on die

上模机械快速夹紧装置便于快速装夹上模

Upper die mechanical fast clamping device is convenient for fast clamping upper die

可选配置

Optional configuration



4/6/8+1轴升级
Axis 4/6/8+1



安全光电
Safety photoelectric



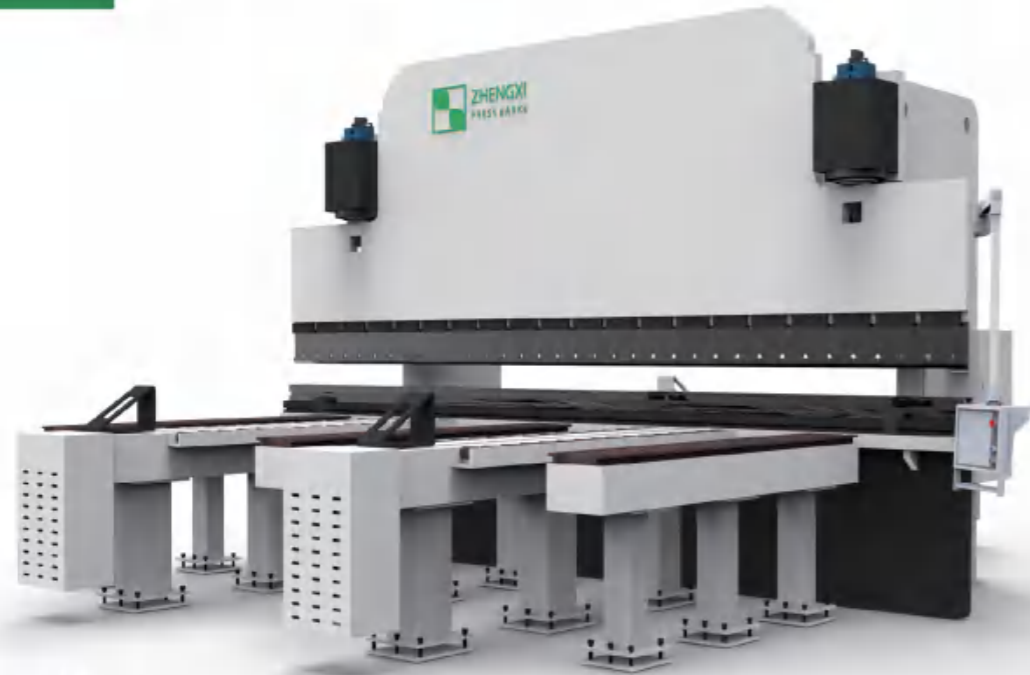
电动液压夹模
Electrohydraulic clamping



自动随动拖
Automatic follow towing

HBG SERIES - LARGE ELECTRIC HYDRAULIC CNC BENDING MACHINE

HBG系列-大型电液数控折弯机



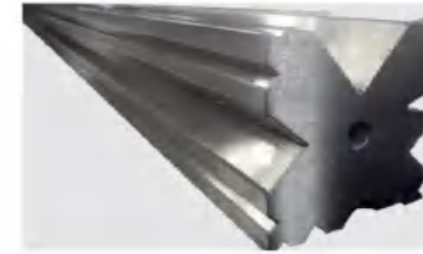
技术参数

Technical parameter

规格型号 Model	折弯吨位 Bending tonnage	折弯长度 Bending length	立柱间距 Column spacing	喉口深度 Throat depth	滑块行程 Slide stroke	装模高度 Mounting height	快下速度 Fast down speed	工作速度 Speed of work	回程速度 Return speed	外观尺寸 physical dimension			油箱容积 Fuel tank capacity	电机功率 Motor power	机床重量 Machine weight
	KN	mm	mm	mm	mm	mm	mm/s	mm/s	mm/s	长 L	宽 W	高 H	L	KW	Tom
HB(TB) -300T/5100	3000	5100	4200	410	265	500	120	10	100	5400	2000	3400	240	21	28
HB(TB) -400T/4100	4000	4100	3200	510	315	520	120	10	100	4400	2200	3500	300	37	26
HB(TB) -400T/5100		5100	4200	610						5400	2200	3800			
HB(TB) -400T/6200		6200	5100	610						6500	2200	3900			
HB(TB) -500T/4100	5000	4100	3200	610	315	520	120	9	100	5400	2300	4200	400	55	32
HB(TB) -500T/6200		6200	5100	610						6500	2300	4500			
HB(TB) -630T/6200	6300	6200	5100	610	315	620	100	9	80	6500	2400	4500	500	80	60
HB(TB) -630T/8200		8200	6500							610	8600	2500			
HB(TB) -800T/8200	800	8200	6500	610	410	620	100	9	80	8600	2500	6000	600	100	110
HB(TB) -1000T/8200	10000	8200	6500	610	410	620	90	8	70	8600	2800	6500	700	120	130
HB(TB) -1200T/8200	12000	8200	6500	610	410	720	90	8	70	8600	3000	6900	700	140	165
HB(TB) -1200T/12000		12000	9500							610	12400	3000			
HB(TB) -1600T/8200	16000	8200	6500	800	410	1250	70	7	50	8600	3600	8100	1600	160	260
HB(TB) -1600T/12000		12000	9500							800	12400	3600			
HB(TB) -2000T/12000	20000	12000	9500	1000	500	1600	70	6	50	12400	4000	8600	2000	180	400
HB(TB) -3000T/12000	30000	12000	9500	1000	600	1900	70	6	50	12400	4000	8800	3000	180	600

标准配置

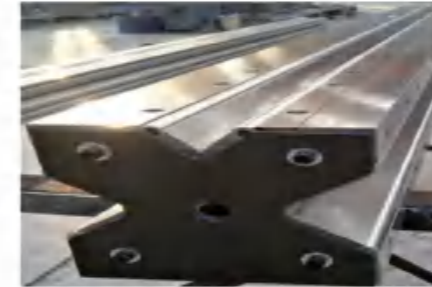
Standard configuration



多V下模 Multiv down mode

标配多V下模，可选择不同开口和外形尺寸的设计，换模方便，可满足常规板材折弯加工，性价比更高

Standard multi-V die, can choose different openings and dimensions of the design, easy to change the die, can meet the conventional plate bending processing, more cost-effective



模口镶条式多V下模 Die insert type multi V lower die

选配多V下模，可选择不同开口和外形尺寸的设计，模口镶高硬度条，耐磨性高，可满足高强度板材折弯加工，寿命长

Optional multi-V lower die, can choose different openings and dimensions of the design, die insert high hardness strip, high wear resistance, can meet the high strength plate bending processing, long life



开口可调式下模 Open adjustable lower die

选配可调式下模，可选择不同开口尺寸的设计，模口采用高硬度材料设计，耐磨性高，可满足高强度板材折弯加工，寿命长

Optional adjustable lower die, can choose the design of different opening size, die mouth with high hardness material design, high wear resistance, can meet the high strength plate bending processing, long life



电动推料单元 Electric pusher unit

普通电机驱动，链条传动，安全系数大，链条张紧结构可以是传动更精准，适用于制管行业

Ordinary motor drive, chain drive, large safety factor, chain tensioning structure can be more accurate transmission, suitable for pipe industry

HS SERIES - HYDRAULIC SERVO CNC BENDING MACHINE

HS系列-液压伺服数控折弯机



液压系统

Hydraulic system

- 1.全新欧洲设计理念,具有高速度,高精度,高刚性
- 2.机架采用高强度钢材焊接,稳定性更高,寿命更长
- 3.采用最新的伺服泵技术,按需做功,更省电省油
- 4.拥有友好的人机交互环境,控制精度高,编程方便
- 5.采用整体式高精度挠度补偿工作台,产品更稳定
- 6.采用意大利GIVI磁栅尺,定性更精确

1. New European design concept, with high speed, high precision, high rigidity
2. The frame is welded with high-strength steel for higher stability and longer life
3. The use of the latest servo pump technology, according to demand work, more energy and fuel saving
4. Friendly man-machine interaction environment, high control precision, convenient programming
5. Using integral high-precision deflection compensation table, the product is more stable
6. Italian GIVI grid ruler, more accurate qualitative

系统特点

System characteristics

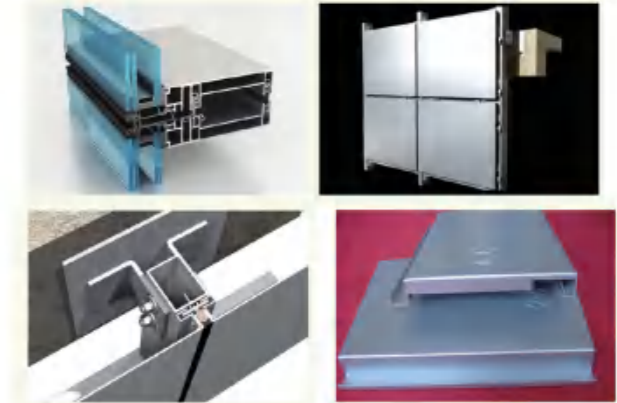
- 1.与传统装置相比用电量节省40%-80%
 - 2.工作效率可提高30%(减少循环时间)
 - 3.定位精度更佳,可达5 μ m
 - 4.无高压溢流,油温降低10-15 $^{\circ}$ C
 - 5.液压油用量仅为传统的30%,体积减小
1. Compared with traditional devices, electricity consumption can be saved by 40%-80%
 2. Work efficiency can be increased by 30% (reduce cycle time)
 3. Better positioning accuracy, up to 5 μ m
 4. No high pressure overflow, oil temperature decreased by 10-15 $^{\circ}$ C
 5. The hydraulic oil usage is only 30% of the traditional, and the volume is reduced

应用领域

Application field

主要适用于大吨位且对精度要求高的产品,主要行业:铝幕墙行业,电梯行业,厨具行业等

Mainly suitable for large tonnage and high precision requirements of the product, Main industries: aluminum curtain wall industry, elevator industry, kitchenware industry, etc



技术参数

Technical parameter

项目 project	单位 unit	规格型号 Specification and model											
		35-1250	63-2050	63-2550	110-3200	110-4100	160-3200	160-4100	220-3200	220-4100	300-3200	300-4100	
折弯吨位 Bending tonnage	KN	350	630	630	1100	1100	1600	1600	2200	2200	3000	3000	
折弯长度 Bending length	mm	1250	2050	2550	3200	4100	3200	4100	3200	4100	3200	4100	
立柱间距 Column spacing	mm	950	1750	2150	2600	3600	2600	3600	2600	3600	2600	3600	
喉口深度 Throat depth	mm	300	390	390	410	410	410	410	410	410	410	410	
滑块行程 Slide stroke	mm	115	170	170	215	215	215	215	215	215	265	265	
装模高度 Loading height	mm	450	520	520	560	560	560	560	560	560	580	580	
快下速度 Fast down speed	mm/s	400	350	350	300	300	270	270	220	220	200	200	
工作速度 Working speed	mm/s	40	30	30	25	25	22	22	20	20	15	15	
回程速度 Return speed	mm/s	300	300	300	280	280	180	180	160	160	120	120	
外观尺寸(长) Appearance size (length)	mm	1650	2900	3400	3600	4700	3700	4700	3700	3700	3700	4700	
外观尺寸(宽) Appearance size(wide)	mm	1400	1400	1400	1500	1500	1600	1600	1800	4700	1850	1850	
外观尺寸(高) Appearance size(high)	mm	2200	2500	2500	2600	2600	2700	2700	2800	1800	3000	3000	
油箱容积 Tank volume	L	50	60	60	60	60	60	60	85	2800	85	85	
电机功率 Motor power	KW	11	11	11	11	11	15	15	22	85	22	22	
机床重量 Machine weight	T	3	4.5	5	7.5	9	9.5	11	11.5	22	16.5	19	

EB SERIES - PURE ELECTRIC SERVO BENDING MACHINE

EB系列-纯电伺服折弯机



数控系统

Numerical control system

采用EP700B数控系统、PBSK系列高负荷滚珠丝杆、SV660/ES810系列伺服系统,高速稳定

Adopting EP700B numerical control system, PBSK series high-load ball screw, SV660/ES810 series co-service system, high speed and stability

系统特点

System characteristics

- 1.高性能同步定位控制算法,重复定位精度0.01mm
- 2.丝杆传动,相比电液机型无开关阀延时,效率更高
- 3.功率消耗取决于负载,无额外损耗,更节能
- 4.平均噪音降低

1. High performance synchronous positioning control algorithm, repeated positioning accuracy The 0.01 mm
2. Lead screw drive, compared with electro-hydraulic models without switch valve delay, Higher efficiency
3. Power consumption depends on the load, no additional loss, more energy saving

应用领域

Application field

适用于精密钣金折弯,小型家电,机箱外壳等产品
主要行业:家用电器,高级开关柜,精密外壳等

Suitable for precision sheet metal bending, small household appliances, case shell and other products
Main industries: Home appliances, advanced switchgear, precision shell, etc



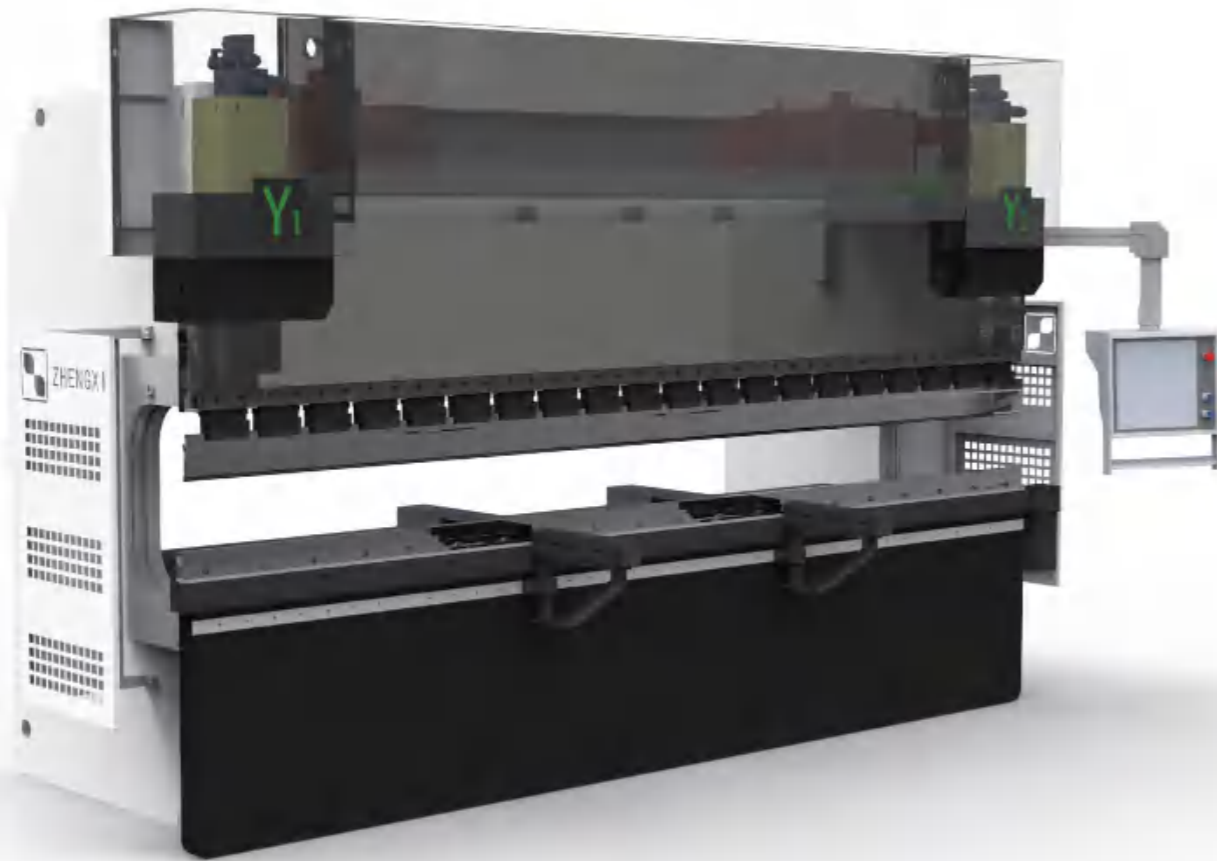
技术参数

Technical parameter

项目 project	单位 unit	规格型号 Specification and model				
		EB-25T/800	EB-35T/1250	EB-45T/2050	EB-65T/2550	EB-110T/3200
折弯吨位 Bending tonnage	KN	250	350	450	650	1100
折弯长度 Bending length	mm	800	1250	2050	2550	3200
立柱间距 Column spacing	mm	600	950	1600	2000	2600
喉口深度 Throat depth	mm	240	250	250	350	410
滑块行程 Slide stroke	mm	200	200	200	200	200
装模高度 Loading height	mm	470	470	470	520	520
快下速度 Fast down speed	mm/s	200	200	200	180	140
工作速度 Working speed	mm/s	50	50	50	50	50
回程速度 Return speed	mm/s	200	200	200	180	140
电机功率 Motor power	KW	7.2	7.9	15	15	25
机床重量 Machine weight	T	3	3.8	5.2	5.2	9

TB SERIES - DOUBLE SERVO ELECTRO-HYDRAULIC CNC BENDING MACHINE

TB系列-双伺服电液数控折弯机



数控系统

Numerical control system

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时进行信号的传输。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单元来驱动控制折弯工具的位置和折弯过程中的折弯力。

The electrical signal in CNC controller is converted into mechanical linear motion. In order to complete the movement, signals are transmitted between the CNC controller and the motor drive controller. Synchronous cylinder in accordance with the preset working curve. Control tracking progress and fast operation. The position of the bending tool and the bending force in the bending process are controlled by a adjustable control unit.

系统特点

System characteristics

- 1.双伺服技术取代常规阀控技术,消除节流损失,节能显著
- 2.伺服电机在短时间内可显著过载,实际安装功率仅为理论安装功率的50%,更节能
- 3.油箱容积减小70%,减少液压油的使用量
- 4.热平衡温度低,无需冷却装置,液压不减寿命延长
- 5.空闲,快下,保压,返程状态下噪音明显下降,改善工作环境
- 6.双伺服电机比单伺服电机速度快50%,紧急情况下压力,流量切换更快
- 7.油液颗粒敏感降低,从NS7级降为NS9级

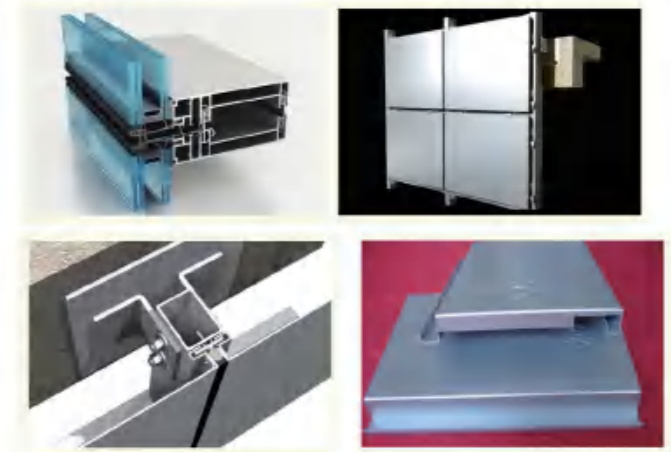
1. Dual servo technology replaces conventional valve control technology, eliminates throttling loss and saves energy significantly
2. Servo motor can be significantly overloaded in a short time, the actual installed power is only 50% of the theoretical installed power, more energy saving
3. The tank volume is 70% smaller, reducing the use of hydraulic oil
- 4 Low thermal balance temperature, no cooling device, hydraulic life is prolonged
5. Idle, fast down, pressure preservation, return to the state of noise decreased significantly, improve the working environment
6. The speed of double servo motor is 50% faster than that of single servo motor, and the pressure and flow are switched faster in emergency
7. Oil particle sensitivity decreased from NS7 to NS9

应用领域

Application field

主要适用于大吨位且对精度要求高的产品,主要行业:铝幕墙行业,电梯行业,厨具行业等

Mainly suitable for large tonnage and high precision requirements of the product, Main industries: aluminum curtain wall industry, elevator industry, kitchenware industry, etc



技术参数

Technical parameter

项目 project	单位 unit	单伺服幕墙折弯机 Single servo curtain wall bending machine				双伺服幕墙折弯机 Double servo curtain wall bending machine			
		110-4100	110-5100	160-6200	220-7200	110-4500	110-5100	220-6200	220-7200
折弯吨位 Bending tonnage	KN	1100	1100	1600	2200	1100	1100	2200	2200
折弯长度 Bending length	mm	4100	5100	6200	7200	4500	5100	6200	7200
立柱间距 Column spacing	mm	3600	3800	5100	6100	3800	3800	5100	6100
喉口深度 Throat depth	mm	550	550	550	550	550	550	550	550
滑块行程 Slide stroke	mm	220	220	220	220	220	220	220	220
装模高度 Loading height	mm	630	630	630	630	630	630	630	630
快下速度 Fast down speed	mm/s	180	160	120	120	200	180	160	140
工作速度 Working speed	mm/s	14	14	10	10	18	18	12	12
回程速度 Return speed	mm/s	160	140	120	120	200	180	140	120
外观尺寸(长) Appearance size (length)	mm	4500	5100	7200	7200	4900	5100	6200	7200
外观尺寸(宽) Appearance size(wide)	mm	1800	1800	2200	2200	1800	1800	2200	2200
外观尺寸(高) Appearance size(high)	mm	2800	3100	3400	3400	2900	3100	3200	3400
油箱容积 Tank volume	L	100	100	150	150	2*50	2*50	150	150
电机功率 Motor power	KW	7.9	7.9	19	19	2*7.9	2*7.9	2.11	2*11
机床重量 Machine weight	T	9	15	32	32	10	15	24	32

MULTI-MACHINE LINKAGE CNC BENDING MACHINE

多机联动数控折弯机



产品特点

Product characteristics

一般大型折弯机的升级换代产品,其加工能力是非常的强大。目前在工程机械、汽车大梁、吊车吊臂、船舶行业和大型电力杆行业中是不可缺少的关键加工设备。

General large alarm machine upgrade products, its processing capacity is very strong. At present, it is an indispensable key processing equipment in construction machinery, automobile girder, crane boom, Marine industry and large power pole industry.

系统特点

System characteristics

1. 流线型设计, 高速度, 高精度, 高刚性的数控板料折弯机
2. 电液伺服系统, 全闭环控制滑块同步
3. 工作台机械补偿和喉口变形补偿机构, 确保折弯深度和精度
4. 后挡料采用数字交流伺服电机驱动, 大导程精密滚珠丝杠传动, 直线导轨导向

1. Streamline design, high speed, high precision, high rigidity Numerical control sheet bending machine
2. Electric servo system, fully closed-loop control slider synchronization
3. Worktable mechanical compensation and throat deformation compensation mechanism, Ensure bending depth and accuracy
4. The rear stopper is driven by digital AC servo motor, large Guide precision ball screw drive, linear guide

应用领域

Application field

主要应用行业: 工程机械, 汽车大梁, 重型起重机吊臂, 高速列车结构件等行业及产品

Main application industries: Construction machinery, automobile girder, heavy crane boom, High-speed train structural parts and other industries and



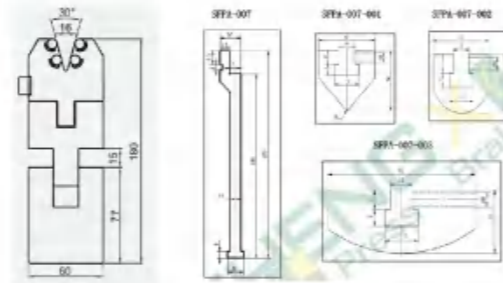
技术参数

Technical parameter

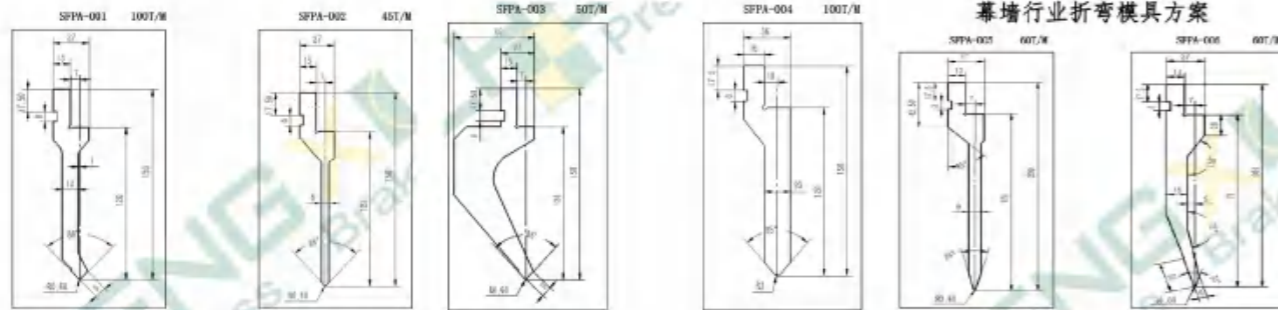
项目 project	单位 unit	规格型号 Specification and model						
		440-8200	600-6400	600-8200	800-8200	1000-12400	1260-14000	1600-14000
折弯吨位 Bending tonnage	KN	2*2200	2*3000	2*3000	2*4000	2*5000	2*6300	2*8000
折弯长度 Bending length	mm	2*4100	2*3200	2*4100	2*4100	2*6200	2*7000	2*7000
立柱间距 Column spacing	mm	3600	2600	3600	3600	5100	6000	5800
喉口深度 Throat depth	mm	410	410	550	550	700	700	700
滑块行程 Slide stroke	mm	215	265	315	315	315	315	315
装模高度 Loading height	mm	560	560	600	600	800	800	800
快下速度 Fast down speed	mm/s	140	120	120	120	100	90	90
工作速度 Working speed	mm/s	10	9	9	9	8	8	8
回程速度 Return speed	mm/s	120	100	100	100	90	80	70
外观尺寸(长) Appearance size (length)	mm	8500	8500	8500	8500	12500	14500	14500
外观尺寸(宽) Appearance size(wide)	mm	1800	1850	1850	2200	2300	2500	2600
外观尺寸(高) Appearance size(high)	mm	2900	3000	3000	3500	3800	4000	4500
油箱容积 Tank volume	L	2*19	2*23	2*23	2*30	2*34	2*34	2*34
机床重量 Machine weight	T	26	35	40	52	98	120	190

MOLD DESIGN

模具

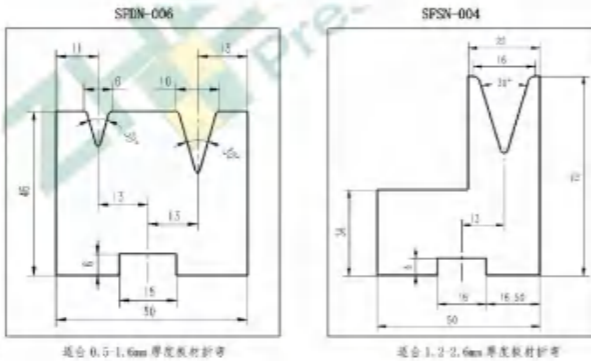


幕墙行业折弯模具方案



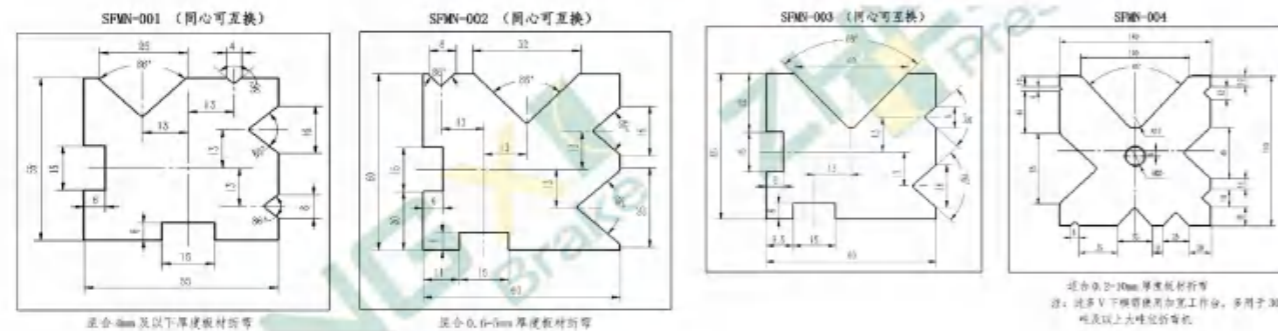
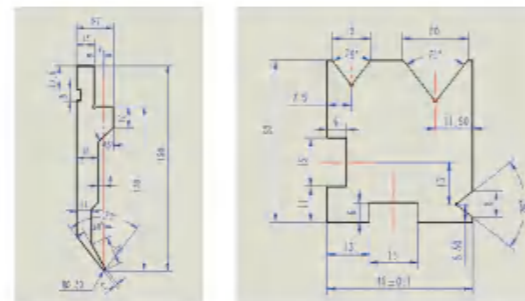
双V下模 SFDN-XXX

双V下模	槽口 V1	槽口 V2	尺寸 A	尺寸 B	尺寸 C	适用折弯板材厚度范围
SFDN-001 (115吨吨型吨型)	4	7	3.5	5	34.5	1.2mm及以下
SFDN-002 (143吨吨型吨型)	6	10	4.5	6.5	37	0.5-1.6mm
SFDN-003 (119吨吨型吨型)	8	12	5.5	7.5	39	0.6-2mm
SFDN-004 (160吨吨型吨型)	12	20	7.5	12	45.5	1-3.2mm
SFDN-005 (220吨吨型吨型)	16	25	9.5	14.5	50	1.2-4mm



单V下模 SFSN-XXX

单V下模	槽口 V	适用折弯板材厚度范围
SFSN-001	32	2.3-5mm
SFSN-002	40	3-6mm
SFSN-003	50	3.5-6mm



自由折弯的压力对照表

Pressure comparison table for free bending

注：本表格中的数据是在90°折弯，材料抗拉强度 $\sigma_b=420\text{Mpa}$ ，折弯长度为1m的基础上计算的结果

v	6	8	10	12	16	18	20	24	32	35	40	50	60	63	80	100	120	130	140	150	160	180	190	200	230	260	
b	4.5	5	7	6.5	12	13	15	17	23	25	28	35	43	45	57	71	85	92	100	105	115	130	135	140	160	180	
r	1	1.2	1.6	2	2.5	2.8	3	3.5	5	5.5	6	8	9.5	10	12	15.5	19	21	23	24.5	26	28	30	32	36	40	
0.5	2.5																										
0.8	7	4.8																									
1.0	11	8	6																								
1.2		12	9	7																							
1.5			15	12	8																						
2.0				23	16	13	12	9.5																			
2.5					26	22	20	15	11																		
3.0							30	24	16	14	12																
4.0								44	31	28	23	18															
5.0									53	47	43	31	25														
6.0											61	45	36	34													
8.0												88	69	65	47	36											
10														110	80	60	47	43	39								
12															120	90	71	65	58	55	50						
16																	140	125	115	105	95	81	80	71			
18																		148	135	125	110	100	95	80			
20																					140	130	120	110	90		

内径R约等于凹模开口宽度V的16%

The inner diameter (R) is approximately 16% of the die opening width (V)

自由折弯建议凹模开口宽度V

Free bending suggested die opening width V

材料厚度 Material thickness	t	0.5~2.5mm	3~8mm	9~10mm	>12mm
凹槽开口宽度 Die opening	V	6Xt	8Xt	10Xt	12Xt

折弯力

Bending force

铝	AL	$\sigma_b=300\text{Mpa}$	$F=F(\text{表})\times 0.65$
不锈钢	S.S	$\sigma_b=300\text{Mpa}$	$F=F(\text{表})\times 1.6$

性能特点

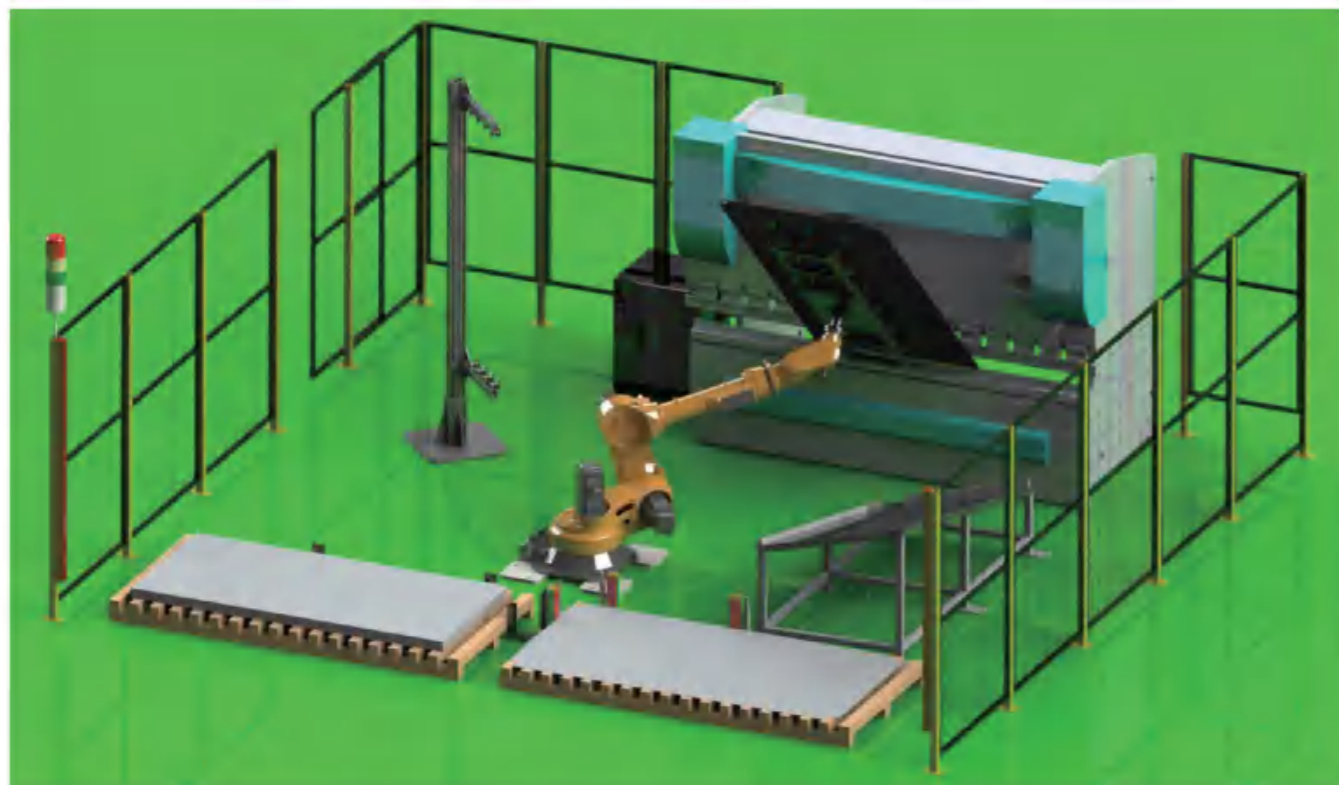
Performance characteristics

1. 所有模具的刃口均采用欧洲加工工艺一次性磨削成型
2. 模具标准保持与国际主流品牌一致，可以与其进行简单的互换拼装
3. 模具经整体淬火和精磨，更加持久耐用

1. The cutting edge of all the molds adopts European processing technology
2. Mold standards are consistent with international mainstream brands, and can be easily exchanged and assembled with them
3. The mold is more durable after overall quenching and fine grinding

AUTOMATED ROBOT BENDING

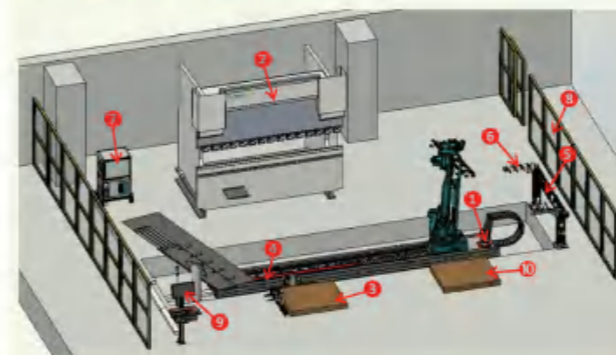
自动化机器人折弯



系统分布示意图

System distribution diagram

折弯机器人-系统分布示意图



- | | |
|------------|--|
| 1.行走机器人 | 1. Walking robots |
| 2.数控折弯机 | 2. CNC bending machine |
| 3.上料装置 | 3. Feeding device |
| 4.精定位装置 | 4. Precise positioning device |
| 5.换向装置 | 5. Reversing device |
| 6.吸盘抓手 | 6. Sucker gripper |
| 7.电控系统集成 | 7. Electronic control system integration |
| 8.安全防护装置 | 8. Safety protection device |
| 9.折弯快速编程系统 | 9. Bending fast programming system |
| 10.码垛区域 | 10. Stacking area |

自动折弯编程系统

Automatic bending programming system

提供读取用户加工图纸信息,通过折弯参数设置计算实现功能控制和路径规划,较多运用在新产品导入,编程调试初期,根据要求运算相应参数,大致可分为:取料,定位,折弯加工,换向(翻面)和成品堆垛等几个部分

It can read the user's processing drawing information and realize function control and path planning by setting and calculating bending parameters. It is widely used in the introduction of new products and the early stage of programming and debugging to calculate the corresponding parameters according to the requirements. It can be roughly divided into: taking materials, positioning, bending processing, reversing (turning over and stacking finished products, etc.).



上料区抓料
Feed area grab material



对中台对中
Align Center



短边自动对正
Automatic alignment



短边自动折弯
Automatic bending



自动翻面
Automatic tipping



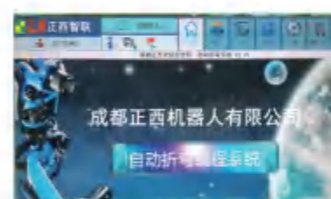
长边自动对正
Automatic alignment



长边自动折弯
Automatic bending



自动放料
Automatic discharge



系统首页
System home page



图纸读取
Drawing reading



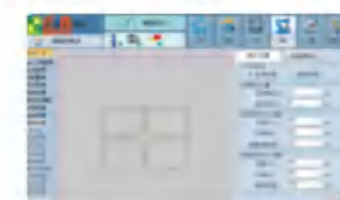
取料设置
Take-up setting



折弯设置
Bending setting



换向设置
Reversing setting



产品堆垛
Product stacking

CNC HYDRAULIC SHEARING MACHINE

数控液压剪板机



产品特点

Product characteristics

1. 机架采用钢板焊接结构, 整体退火消应处理
2. 液压传动, 氮气回程, 操作方便, 性能可靠
3. 刃口间隙调整有指示牌指示, 调整迅速方便
4. 精密卡套式液压接头, 终身不漏油
5. 采用固定式护栏安全保护装置
6. 压料缸用于压紧板料, 以防止板料在剪切时移动
7. 配置有前护栏, 以防止发生工伤事故
8. 后断料部位标配下滑板
9. 丝杆传动, 电动调整

1. The frame adopts steel plate welding structure, integral annealing aging treatment
2. Hydraulic transmission, nitrogen return, easy operation, reliable performance
3. The cutting edge gap adjustment is indicated by the sign, which is quick and convenient to adjust
4. Precision sleeve type hydraulic joint, lifetime no oil leakage
5. Adopt fixed guardrail safety protection device
6. The press cylinder is used to press the plate to prevent the plate from moving during shearing
7. Equipped with front guardrail to prevent industrial accidents
8. After the cutting part of the standard with the skateboard
9. Lead screw drive, electric adjustment

实机展示

Real machine display



性能特点

Performance characteristics

1. 动力设施均设于机身内, 通过对控制面板上的按钮进行操作控制。
2. 设有脚踏开关, 可通过其直接对剪切动作进行操作, 方便快捷
3. 安全防护栏, 可保护操作者的安全, 并能清楚的看到剪切的情形, 既安全, 又方便
4. 采用断路器来对控制电路的短路进行保护。
5. 电机的过载和短路, 通过空气开关进行保护。
6. 操作面板和脚踏开关, 均设有急停开关按钮, 在操作错误时, 可及时停机。
7. 主要电气元件选用施耐德产品。

1. Power facilities are located in the fuselage, and the operation is controlled and realized by pressing 2.
3. Equipped with a foot switch, through which the shearing action can be operated directly, the way is fast
- 4 Safety guardrail, can protect the safety of the operator, and can clearly see the shear situation, both safe and convenient
5. Use the circuit breaker to protect the short circuit of the control circuit.
6. Overload and short circuit of the motor are protected by the air switch.
7. The operation panel and foot switch are equipped with an emergency stop switch button, which can be stopped in time when the operation is wrong.
8. The main electrical components are Schneider products.

HIGH SPEED GROOVING MACHINE

高速刨槽机

数控龙门高速开槽机

CNC gantry high speed slotting machine



产品特点

Product characteristics

1. 机座、横梁均采用框架结构设计，整体刚性好，机身整体热处理，保证机床长期使用不变形
2. 本机为X轴、Y1轴、Y2轴、Z轴四轴数控机床，定位精度高，加工范围大
3. 设有边压料和端压料装置，且均采用液压压紧，压料力可调，压紧可控
4. 液压系统增设蓝能器补偿，电机间隙工作，可节约能源、控制油温

1. Frame and beam are designed with frame structure, the overall rigidity is good, and the overall heat treatment of the fuselage ensures the machine The bed does not deform for a long time
2. The machine is a four-axis CNC machine tool with X axis, Y axis, Y2 axis and Z axis, with high positioning accuracy and large processing range
3. Equipped with side press and end press device, and all fruit with hydraulic pressure, material force can be adjusted, pressing can be exposed
4. The hydraulic system is equipped with blue energy compensator, and the motor gland works, which can

应用领域

Application field

广泛用于酒店会所装饰、电梯、淋浴房、拼接防盗门、厨房设备、船舶行业等设备。

Widely used in hotel club decoration, elevator, shower room, security door splicing, jiju room equipment, ship contact industry and other equipment.

开放式1立式开槽机

CNC gantry high-speed slotting machine



产品特点

Product characteristics

1. 开放式开槽机是传统设备的升级产品，它与传统设备相比。主要特点是重载、高速、高效
2. 本设备横梁固定不动，工件由送料机构送进工作台面可更换。保证工作台面的平面度在±0.03mm以内；
3. 本设备5.6KW大功率伺服电机，刀架体同时安装4把切削刀。最大切制深度1mm，是传统设备效率的5倍，回程速度也加快5倍

1. Open German machine is an upgrade of traditional equipment, compared with traditional equipment. The main features are heavy load, high speed and high efficiency
2. The beam of the equipment is fixed and the workpiece is sent to the workbench by the feeding mechanism and can be replaced. Guarantee table flatness is within ±0.03mm;
3. The flatness of the surface is within ±0.03mm;
4. The equipment is equipped with 5, 6kw high-power uniform motor, and 4 cutting knives are installed on the tool rest body at the same time. The maximum cutting depth is 1mm, which is 5 times the efficiency of traditional equipment, and the return speed is also 5 times faster

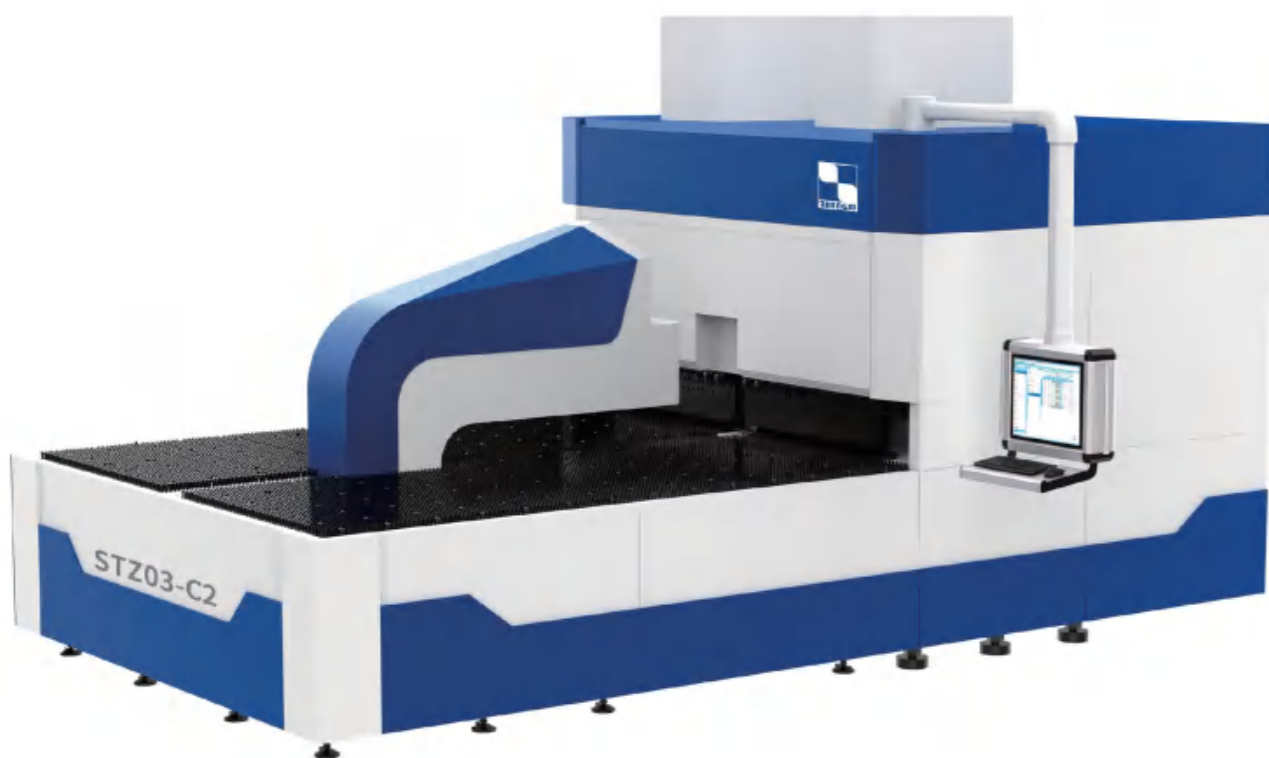
技术参数

Technical parameter

规格 型号		Z X5 K-1250 4000	
加工性能 Machining Capacity	材料 Plate	材质 Material	Q3 55/Q235 / 不锈钢
		长度 Length	4000mm
		宽度 Width	1250mm
		厚度 Thickness	0.5mm-6mm(板料平面度 < 3mm)
		最小边宽 Minimum edge	6mm (1.5mm 以下的板)
系统配置 CNC Specifics	控制方式 Control Type	4轴 CNC 控制 (Y1 , Y2 , Z1 , X)	
	显示器 Display	19寸高清液晶触摸屏	
	储存容量 Memory Capacity	99组, 9999 组/组 (可 99 遍循环)	
加工速度 Machining Sped	传动方式 Working System	滚珠丝杆 / 直线导轨 / 齿轮齿条	
	横梁 (X 轴) 切削 Forward-Cutting	0-120m/min (无极调速)	
	横梁 (X 轴) 回程 Backward	0-120m/min	
	刀架 (Y1 轴) 及端压料 (Y2 轴)	0-20m/min	
	刀架 (Z 轴) 上下 Z-Axis UP-Down	0-20m/min	
加工精度 Machining Precision	刀架 (Y1 轴) 最小分辨率 Y1 Precision	± 0.01mm	
	刀架 (Y1 轴) 最大距离 Y1 Stroke	1250mm	
	刀架上下 (Z 轴) 最小分辨率 Y1 Precision	± 0.01mm	
	刀架上下 (Z 轴) 最大距离 Z Stroke	50mm	
驱动方式 Driving Mode	横梁 (X 轴) X-Axis	5.5kW 伺服电机 Servo Motor	
	刀架上下移动 (Z 轴) X-Axis	1KW 伺服电机 Servo Motor	
	刀架 (Y1 轴) 及端压料 (Y2 轴) Y1 & Y2	1KW 伺服电机 Servo Motor	
夹紧装置	液压系统 Hydraulic	1.5kw/BL/10Mpa	
外形尺寸 Dimensions	长度 Length	6100mm	
	宽度 Width	2300mm	
	高度 Highth	1560mm	
	重量 Weight	8200kg	
	工作台平面度 TableFlatness	±0.02mm/M	
主电源 Main Power	380V/50Hz/3Phase		

YD1400/YD2500 MULTILATERAL BENDING CENTER

YD1400/YD2500多边折弯中心



产品特点

Product characteristics

柔性折弯中心能够独立工作,能够高效的生产各种规格零部件,通用的模具可以不需要任何的调整时间,根据程序设定的尺寸进行自动调整,保证了操作者的安全和产品的品质。定位过程只在整个折弯开始时完成一次,在该周期来操作,开始到加工完成,折弯板材与旋转结构保持不变,0.01度分辨率保证较高生产灵活性

Flexible bending center can be set up to work, can efficiently produce all kinds of Sikger parts, universal mold can not need any wall adjustment time, according to the size set by the program to automatically adjust, to ensure the safety of deep author and product quality positioning process is only completed once at the beginning of the whole folding of the wall, in the circle to protect the work, open to the finish area of the assembly. Jianhai plate and rotating structure remain unchanged, 0.01 degree resolution green proof high production spirit

技术参数

Technical parameter

分类 classification	项目 project	单位 unit	YT1412PD	YT1615PD	YT1615PD	YT1615PD
折弯尺寸 Bending size	最大板料长度 Maximum sheet length	mm	1400	1600	2000	2500
	最大板料宽度 Maximum sheet width	mm	1260	1260	1260	1300
	最大对角线 Maximum diagonal	mm	1900	2060	2360	3260
	最大折弯高度 Maximum bending height	mm	175	175	175	175
	最小折弯高度 Minimum bending height	mm	4	4	4	4
	最小折弯尺寸 Minimum bending size	mm	160*320	180*370	180*370	180*370
	双边最小折弯尺寸 Bilateral minimum bending size	mm	160	180	180	180
	最小圆弧半径 Minimum radius of arc	mm	4	4	4	4
	折弯角度 Bending Angle	度	0-180	0-180	0-180	0-180
	全压死边(冷板) Full dead edge (cold plate)	mm	1	1.2	1.2	1.2
板材厚度 Sheet thickness	不锈钢折弯厚度 Bending thickness of stainless steel	mm	≤0.8	≤1	≤1	≤1
	冷板折弯厚度 Bending thickness of cold plate	mm	≤1.2	≤1.5	≤1.5	≤1.5
	铝板折弯厚度 Bending thickness of aluminum plate	mm	≤1.5	≤2	≤2	≤2
	最小折弯厚度 Minimum bending thickness	mm	0.4	0.4	0.4	0.4
折弯精度 Bending accuracy	折弯直线度 Straightness of bending	mm/1000	0.3	0.3	0.3	0.3
	折弯角度精度 Accuracy of bending Angle	度	±1.0	±1.0	±1.0	±1.0
基本功能 Basic function	折弯速度 Bending velocity	秒/刀	0.3	0.3	0.3	0.3
	送料结构 Feed structure	套	压杆	压杆	压杆	压杆
	最大送料速度 Maximum feeding speed	n/min	120	120	120	120
	上压脚压力 Upper pressing foot pressure	KN	300	500	800	800
	联动轴数 Number of linkage axes	根	19	19	19	13
	送料机升降功能 Feeder lifting function		无	无	无	无
	自动换刀 Automatic tool change	套	有	有	有	选配
	合页刀 Hinge knife	套	无	无	无	有
基本参数 Basic parameter	工作台面 Work surface	套	毛刷和万向球	毛刷和万向球	毛刷和万向球	毛刷和万向球
	总功率 Total power	KW	35	45	55	55
	平均功率 Average power	KW	5	6	8	8
	外观尺寸(长) Appearance size (length)	mm	3500	5500	5500	5500
	外观尺寸(宽) Appearance size(wide)	mm	2864	2864	2864	2864
	外观尺寸(高) Appearance size(high)	mm	2800	2800	2800	2800
机床重量 Machine weight	T	约10	约13	约19	约22	

YT1500 SMART KNIFE LIBRARY BENDING CENTER

YT1500智能刀库折弯中心

产品特点

Product characteristics

重点解决金属成型中各类复杂的钣金折弯问题,通过多轴并发联动,自动完成钣金作业,从技术角度解决对模具、人工的依赖,有效提高生产效率,降低生产成本。轻松实现圆弧、压死边、回型、封闭型及其他复杂的钣金折弯需求。

Focus on solving all kinds of complex sheet metal bending problems in metal forming, through multi-axis concurrent linkage, automatic completion of sheet metal work, from the technical point of view to solve the dependence on mold, manual, effectively improve production efficiency, reduce production costs. It is easy to realize circular arc, dead edge, back shape, closed type and other complex sheet metal bending requirements.



操作面板

Operation panel

采用EtherCAT:控制总线,最大持64轴控制,支持二维图纸工艺编程,简化终端用户操作,支持自动刀库控制定制开发。支持折弯补偿功能,该功能可在加工不同的材料时补偿由于材料拉伸强度不同造成的误差。

Using EtherCAT: control bus, maximum 64 axis control, support two-dimensional drawing process programming, simplify end-user operation, support automatic tool library control customized development. Supports the bending compensation function, which can compensate the error caused by the different tensile strength of the material when machining different materials.



技术参数

Technical parameter

项目 project	单位 unit	带智能刀库 With smart knife library	无刀库 Knife free library
最大折弯高度 Maximum bending height	mm		170
双边最小折弯尺寸 Bilateral minimum bending size	mm	300*300	300*300
最小折弯尺寸 Minimum bending size	mm	360/360	360/360
最大折弯尺寸 Maximum bending size	mm	150*1360	150*1360
圆弧半径 Radius of arc	度	R5-R150	R5-R150
折弯速度 Bending velocity	秒/刀	0.5	0.5
折弯角度精度 Accuracy of bending Angle	度	±0.5	±0.5
常规折弯板材厚度 Conventional bending sheet thickness	不锈钢mm	1.5	1.5
	冷板mm	2	2
	锌板mm	2	2
	热板mm	2	2
	铝板mm	3	3
最小折弯厚度 Minimum bending thickness	mm	0.35	0.35
轴行程 Shaft stroke	X轴mm	150	150
	Z轴mm	230	230
	U轴mm	1500	1500
	Y轴mm	330	330
	S轴mm	150	
	T轴mm	200	
	V轴mm	140	
	R轴mm	1200	
联动轴数 Number of linkage axes	个	26	9
伺服电机数量 Servomotor quantity	台	25	9
自动换刀 (刀库) Automatic tool change (tool library)	秒/次	先折长边后折短边	
	特殊功能	免人工换刀	
	节约功能	免换刀后调试	
	省时功能	支持全智能无人工厂	
	无人功能	CN111570581A	
专利号	2	2	
吸盘 sucker	套	2800	2800
送料结构 Feed structure	吸盘		
噪音 noise	分贝	46	46
平均功率 Average power	KW	2.2	2.2
峰值功率 Peak power	KW	20	20
总功率 Total power	KW	27	27
外观尺寸 Appearance size	长×宽×高mm	4015*3030*2730	4015*2000*2680
机床重量 Machine weight	T	12.6	12.6

SF30 CLOSED SERIES - FULL ELECTRIC SERVO CNC TURRET PUNCH

SF30闭式系列-全电伺服数控转塔冲床



产品特点

Product characteristics



机身采用“O”型(闭环)结构
The fuselage has an "O" (closed loop)



动力输出采用大功率空心轴伺服直驱电
The power output adopts high power hollow shaft servo direct drive motor



机身整体经电炉高温回火处理
The whole fuselage is treated by high temperature tempering in electric furnace

技术参数

Technical parameter

项目 project	参数 parameter	单位 unit
冲切力 Punching force	300 (30)	KN (T)
机架结构 Frame structure	"O" 型封闭式机架	
一次定位最大加工板材尺寸 Maximum plate size for processing at one location	X轴2500, Y轴1250/1500/2000	mm
加工最大板材尺寸 Maximum plate size for processing	6	mm
一次冲孔最大直径 Maximum diameter of one punch	Φ88.9 (可定制)	mm
最高冲压频率 Maximum punching frequency	1800	hpm
最高冲孔次数 Maximum number of holes punched	800	hpm
控制轴数 Number of control axes	5 (X、Y、T、C、R)	个
模具形式 Mold form	长导向85系列国际标准模具	
转塔工位分布 Turret station distribution	16A、11B、3C、2D(含旋转工位1B、1C)	标配
再定位气缸 Relocating cylinder	2	套
夹钳数量 Number of clamps	3	个
最高送料速度 Maximum feed speed	X轴80, Y轴80	m/min
工作台结构 Table structure	毛刷/万向钢球复合台面	
最高转塔速度 Maximum turret speed	40	rpm
加工精度 Machining accuracy	±0.1	mm
最大承载重量 Maximum bearing weight	150	Kg
综合使用功率 Combined service power	6	KW
外形尺寸 Overall dimension	长×宽×高 6500×5200×2100	mm



松下电机 (RTEX总线款)
Panasonic Motor (RTEX bus)



二次定位装置
Secondary positioning device



机身带有模具储存柜
Fuselage with mold storage cabinet

AUTOMATION INDUSTRY

自动化行业应用

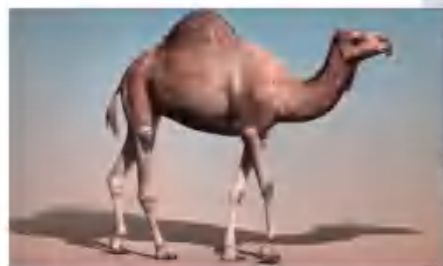
01 复合材料	02 钣金冲压	03 粉末冶金	04 挤压锻造	05 装备物联网	06 智能装备
<ul style="list-style-type: none"> ◆ SMC片材自动送料机 ◆ SMC片材自动贴膜机 ◆ 计量下料机 ◆ BMC自动计量切块机 ◆ 复材抓取端拾器 ◆ 自动开孔打磨飞边机 ◆ 复材自动成型生产线 	<ul style="list-style-type: none"> ◆ 重型冲压专用机器人 ◆ 防盗门板压花生产线 ◆ 自动冲压生产线 ◆ 自动对中找正平台 ◆ 上下料端拾器 ◆ 拆垛码垛平台 ◆ 冲压生产线连机 	<ul style="list-style-type: none"> ◆ 计量送料机 ◆ 尺寸与重量检测台 ◆ 自动出料摆盘码垛机 ◆ 上下料端拾器 ◆ 高精度专用模架 ◆ 成型高精度控制系统 ◆ 粉末成型生产线 	<ul style="list-style-type: none"> ◆ 自动控温系统 ◆ 上下料端拾器 ◆ 自动打料装置 ◆ 自动对中找正平台 ◆ 装出料机/操作机 ◆ 自动化锻压系统 ◆ 挤压锻造生产线 	<ul style="list-style-type: none"> ◆ 工厂设备物联网搭建 ◆ 设备数据收集记录 ◆ 信息化云平台搭建 ◆ 设备物联主板开发 ◆ 产品条码标签与存储 ◆ 信息展示APP开发 ◆ 运维系统开发维护 	<ul style="list-style-type: none"> ◆ 多轴联动软硬件开发 ◆ 多机联动软硬件开发 ◆ 智能工厂系统定制 ◆ 智能装备研发制造 ◆ 产线AI系统研发 ◆ 柔性MES系统定制 ◆ SCADA系统定制
Composite material	Sheet metal stamping	Powder metallurgy	Extrusion forging	Equipping the Internet of Things	Intelligent equipment
<ul style="list-style-type: none"> ◆ SMC sheet automatic feeder ◆ SMC sheet automatic taping machine ◆ Measuring cutting machine ◆ BMC automatic metering and cutting machine ◆ Composite material grabbing end picker ◆ Automatic drilling and trimming machine ◆ Composite automatic forming production line 	<ul style="list-style-type: none"> ◆ Heavy-duty stamping robot ◆ Anti-theft door embossing production line ◆ Automatic stamping production line ◆ Automatic alignment platform ◆ Loading and unloading end picker ◆ Depalletizing and palletizing platform ◆ Stamping production line with machine 	<ul style="list-style-type: none"> ◆ Metering feeder ◆ Size and weight test bench ◆ Automatic discharge swing tray palletizing platform ◆ Loading and unloading end picker ◆ High-precision special mold base ◆ Forming high-precision control system ◆ Powder molding production line 	<ul style="list-style-type: none"> ◆ Automatic temperature control system ◆ Loading and unloading end picker ◆ Automatic feeding device ◆ Automatic alignment platform ◆ Loading and unloading machine/manipulator ◆ Automated forging system ◆ Extrusion forging production line 	<ul style="list-style-type: none"> ◆ Factory equipment IoT construction ◆ Equipment data collection record ◆ Information cloud platform construction ◆ Device IoT motherboard development ◆ Product barcode labeling and storage ◆ Information Exhibition App Development ◆ Operation and maintenance system development and maintenance 	<ul style="list-style-type: none"> ◆ Multi-axis linkage software and hardware development ◆ Multi-machine linkage software and hardware development ◆ Smart factory system customization ◆ Intelligent equipment R&D and manufacturing ◆ Production line AI system development ◆ Flexible MES system customization ◆ SCADA system customization

多轴液压控制项目

Multi-axis hydraulic control project

智能骆驼项目

Smart Camel Project



由液压缸驱动的大型机器人骆驼行走机械、液压控制系统和智能控制由“正西”提供

Large-scale robotic camel walking machinery driven by hydraulic cylinders, hydraulic control system and intelligent control are provided by "Zhengxi"



挤压锻造自动化

Extrusion forging automation



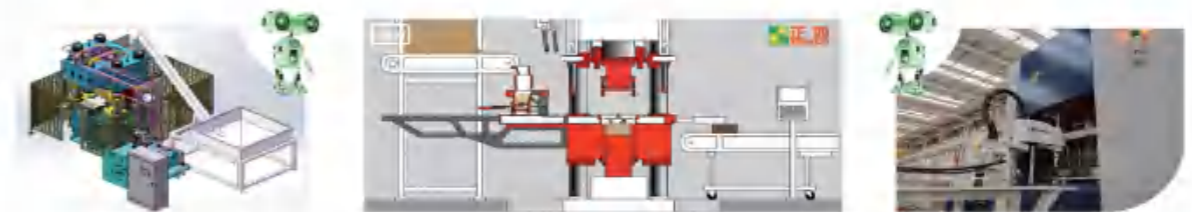
- ◆ 具备开发建设大型液体炉板料热成型冲压线、箱式炉板料热成型冲压线、生产线的经验和能力。可以根据客户需求开发定制高温热成型冲压生产线、热冲压上下料机机械手、单机多工位冲压连线机器人。
- ◆ 热冲压上下料机器人及生产线由冲压机上料机机械手、冲压机上料机械手、加热炉上料机械手、加热炉下料机械手、对中台、控制系统等组成。机械手采用二倍速及四倍速伸缩机械臂，运行速度快。热冲压机器人完成钢板从拆垛到取料、压机送料、冲压机上料、冲压机上料等一系列功能。针对机械手大负载、大行程范围内的快速运行的要求，众拓机器人又研制了一款箱式炉增强热冲压成型生产线。
- ◆ 各轴单独运行，没有多轴累计误差，运行速度快，寿命长，重复定位精度高，夹料定位比多关节机器人更精准，比六关节机器人具更高性价比，更适合大小型工厂的自动化配套加工。
- ◆ 可方便搭配各种检测传感器（钳头内嵌、钳头侧装传感器、侧罩传感器、触杆式传感器）。

- ◆ Possess the experience and ability to develop and construct large-scale roller furnace sheet metal thermoforming press lines, box furnace sheet metal thermoforming press lines, and production lines. According to customer needs, we can develop customized high-temperature thermoforming stamping production lines, hot stamping loading and unloading manipulators, and single-machine multi-station stamping connected robots.
- ◆ The hot stamping loading and unloading robot and production line are composed of a punching machine feeding manipulator, a punching machine unloading manipulator, a heating furnace feeding manipulator, a heating furnace unloading manipulator, a centering station, and a control system. The manipulator adopts double-speed and quadruple-speed telescopic manipulators with fast running speed. The hot stamping robot completes a series of functions of steel plate from destacking to reclaiming, press feeding, punching machine feeding, punching machine unloading and other functions. In response to the requirements of rapid operation of the manipulator with large load and large stroke range, Zhongtuo Robot has developed a box furnace enhanced hot stamping forming production line.
- ◆ Each axis runs independently, no multi-axis cumulative error, fast running speed, long life, high repeat positioning accuracy, clamping positioning is more accurate than multi-joint robots, more cost-effective than six-joint robots, and more suitable for large and small factories Automatic matching processing.
- ◆ It can be easily matched with various detection sensors (clamp head embedded, clamp head side mounted sensor, side cover sensor, touch rod sensor).

粉末冶金自动化

Automation of powder metallurgy

- ◆ **计量送料机**
 - ◆ 主要用于粉末在压制前的取量，可全自动并快速完成计量送入模腔内部，计量精度 $\leq 1\%$ （根据粉末流动性与粗细会有波动），可实现7次/min节拍。
 - ◆ 重量计量送料机采用称重原理，同样可实现全自动控制，计量精度 $\leq 0.1g$ 可实现5次/min节拍。
- ◆ **尺寸与重量检测台**
 - ◆ 通过智能电子秤测量重量与视觉测量尺寸，在生产线上起检测作用，能够快速检测出不合格产品并放入次品框中。
- ◆ **高精度模架**
 - ◆ 最高做到上三下三结构，精度可达 $\pm 0.005mm$ 。
- ◆ **Metering feeder**
 - ◆ It is mainly used for taking the powder before pressing. It can be automatically and quickly metered and fed into the mold cavity, with a measurement accuracy of $\leq 1\%$ (depending on the powder fluidity and thickness), and can achieve 7 beats/min.
 - ◆ The weight metering feeder adopts the weighing principle, which can also realize fully automatic control, and the metering accuracy of $\leq 0.1g$ can achieve 5 times/min beats.
- ◆ **Size and weight test bench**
 - ◆ Through the intelligent electronic scale to measure the weight and visually measure the size, it plays a detection role in the production line, and can quickly detect the unqualified products and put them into the defective box. High
- ◆ **precision mold base**
 - ◆ The highest structure can be up to three down, and the accuracy can reach $\pm 0.005mm$.



SIMULATION TECHNOLOGY

仿真技术

◆ 柔性制造MES系统：智能排产、自动调度、无人生产

◆ Flexible manufacturing MES system: intelligent scheduling, automatic scheduling, unmanned production



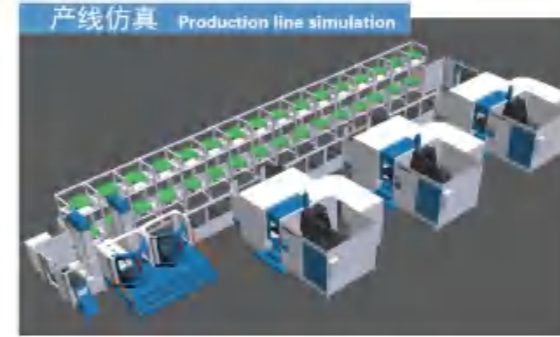
◆ 数字孪生仿真与产线集成控制

◆ Digital twin simulation and production line centralized control



◆ 实时数据驱动数字孪生仿真案例

◆ Real-time data-driven digital twin simulation case



产线仿真：伺服液压机x3，操作台x2，RGVx1，立体库x1

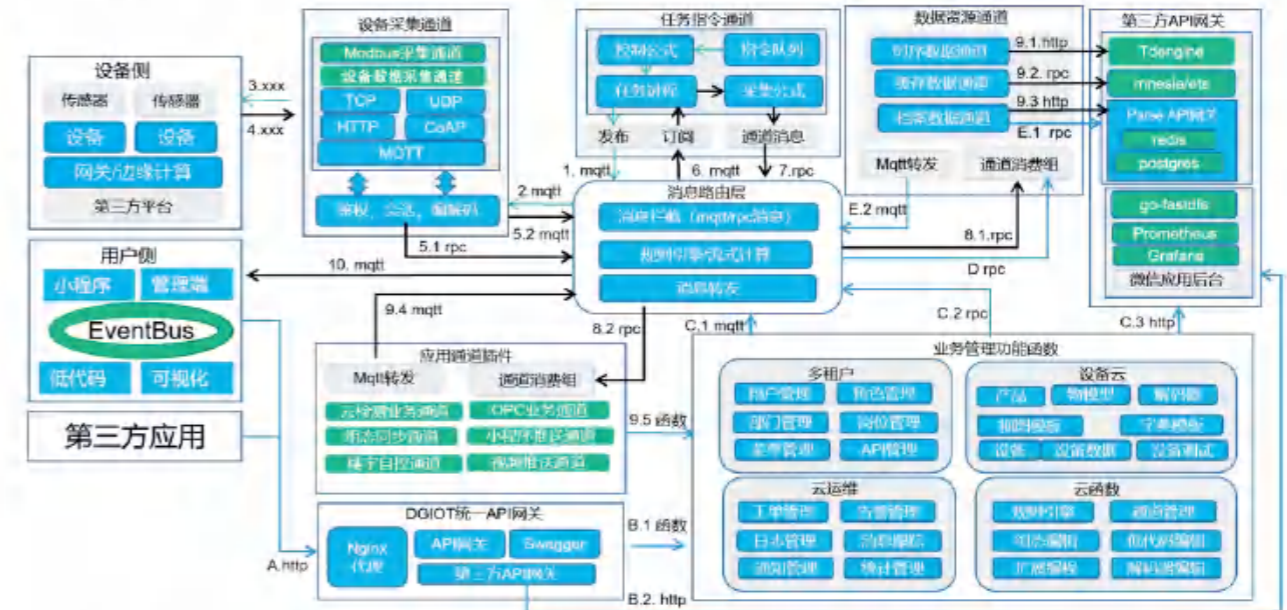
车间仿真：板材下料机x1，棒料下料x3，激光切割x4，上下料产线x2，折弯x4，液压x4，机器人x21，工作站x12，立体库x2，喷涂烘干线x1，装配线x1，AGVx13

Production line simulation: Servo hydraulic press x3, console x2, RGVx1, stereo library x1

Workshop simulation: plate blanking machine x1, bar blanking x3, laser cutting x4, loading and unloading production line x2, bending x4, hydraulic x4, robot x21, work station x12, stereo library x2, spray drying line x1, assembly line x1, AGVx13

◆ 数据采集与监视控制系统

◆ Data acquisition and monitoring control system



依托正西云在工业互联网领域的积累，使数据贯穿工业互联网的各个环节，为工业互联网落地提供基础支撑，帮助企业解决痛点问题。

- ◇ 解决终端数据采集问题
- ◇ 解决数据与数据间交互、数据分析应用问题
- ◇ 为工业互联网落地提供基础支撑
- ◇ 助力企业决策分析

Relying on the accumulation of Zhengxi Cloud in the field of industrial Internet, data runs through all aspects of the industrial Internet, providing basic support for the landing of the industrial Internet, and helping enterprises solve pain points.

- ◇ Solve the problem of terminal data collection
- ◇ Solve data and data interaction, data analysis application problems
- ◇ Provide basic support for the implementation of the Industrial Internet
- ◇ Helping enterprise decision-making analysis

REAL MACHINE DISPLAY

实机展示

折弯机系列 Bending machine series



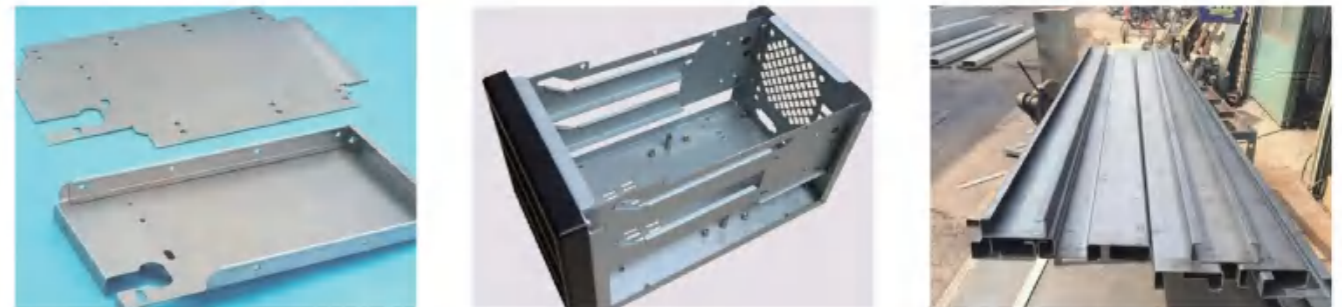
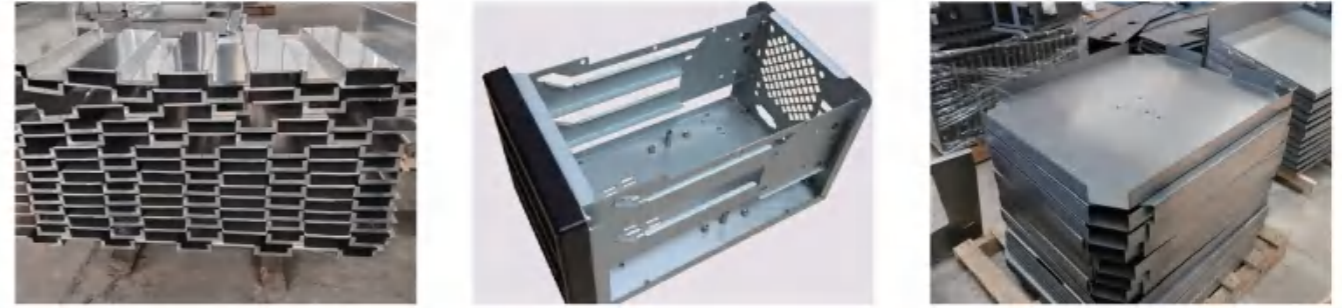
辅助设备 Auxiliary equipment



液压机系列 Hydraulic press series



折弯产品展示 Bending product display



COOPERATIVE PARTNER

合作伙伴

国内客户留影

Take pictures for domestic customers

与国内众多企业达成长期战略合作，为其提供优质的折弯产品，客户也对成都正西公司的产品赞不绝口

We have reached long-term strategic cooperation with many domestic enterprises to provide them with high-quality bending products. Customers are also full of praise for the products of Chengdu Zhengxi Company



国外客户留影

Foreign customers take pictures

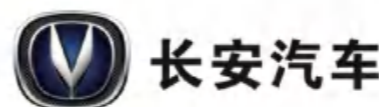
除了与国内企业合作密切，成都正西公司也与世界其他各国有着友好的合作，也使得本公司折弯产品畅销国内外，这是成都正西的实力展现，也是本公司服务好全世界各国客户决心的体现

In addition to close cooperation with domestic enterprises, Chengdu Zhengxi Company also has friendly cooperation with other countries in the world, which also makes the company's bending products sell well at home and abroad, which is the strength of Chengdu Zhengxi, but also the company's determination to serve customers all over the world Zhengxi Company



合作品牌

Cooperative brand



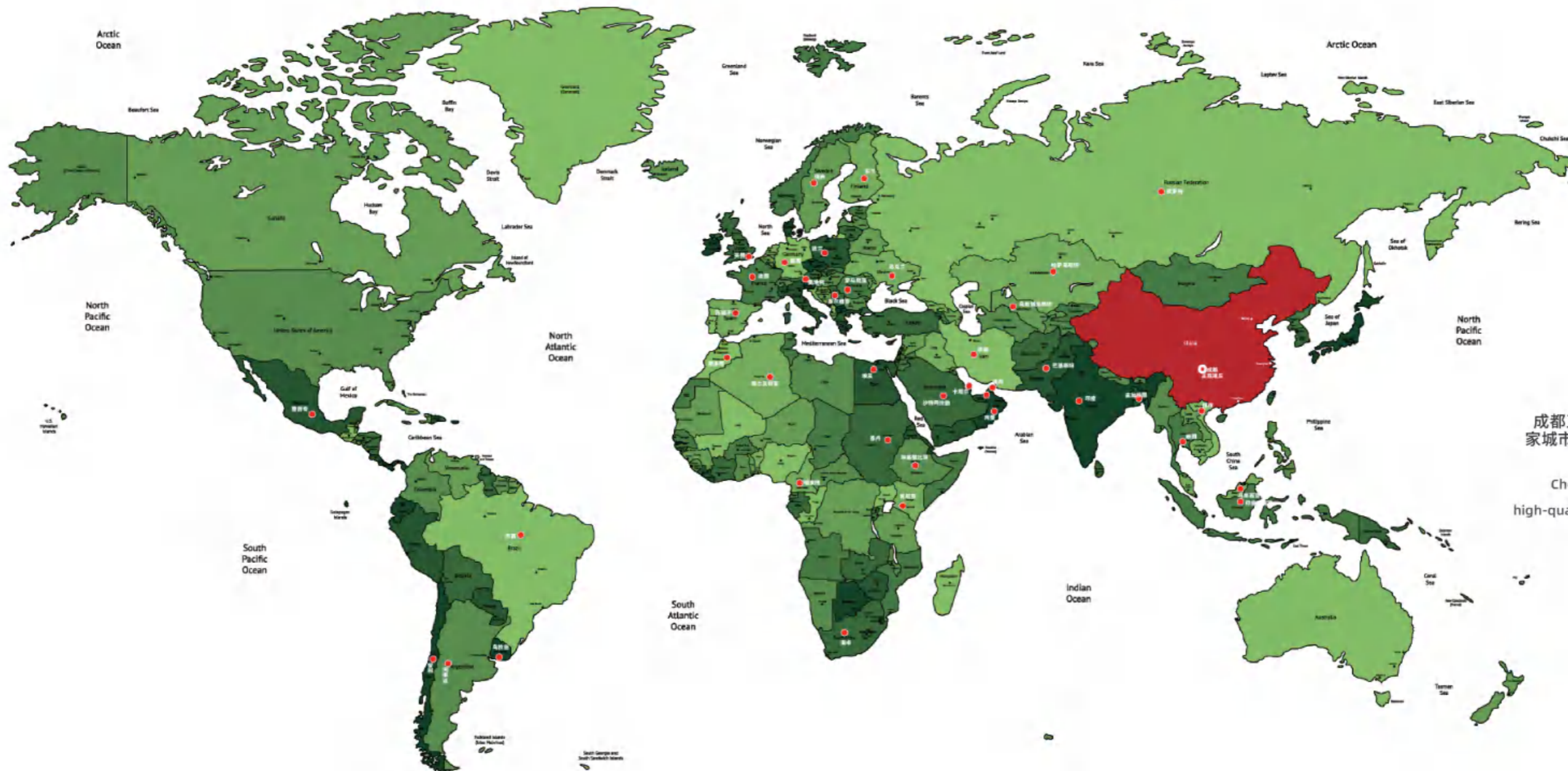
GLOBALIZATION STRATEGY

全球化战略

全球化战略 | Product characteristics

全球化战略又称全球战略，是指跨国企业从全球观点出发，利用区别国家和地区的区位优势，把价值链上的各个环节和职能加以分散和配置，使它们有机地结合起来，实行综合一体化经营，努力降低出产经营成本，以期获得长期、稳定的全球竞争优势，实现最大化的全球效率。

Globalization strategy, also known as global strategy, refers to multinational enterprises that, from a global perspective, utilize the comparative advantages of different countries and regions to disperse and allocate various links and functions in the value chain, organically combine them, implement comprehensive and integrated management, and strive to reduce production and operation costs, in order to obtain long-term and stable global competitive advantages and achieve



30+ 国家 |
30+ countries

成都正西公司以为全球三十多个不同的国家城市提供过优质的产品，立志打造全球知名的设备生产公司

Chengdu Zhengxi Company for more than 30 different countries in the world to provide high-quality products, determined to build a world famous equipment production company