

**多克 DWK**

# 电液数控折弯机

## CNC Electro-hydraulic Press Brake

以专业技术推动行业发展  
Develop With Know-How



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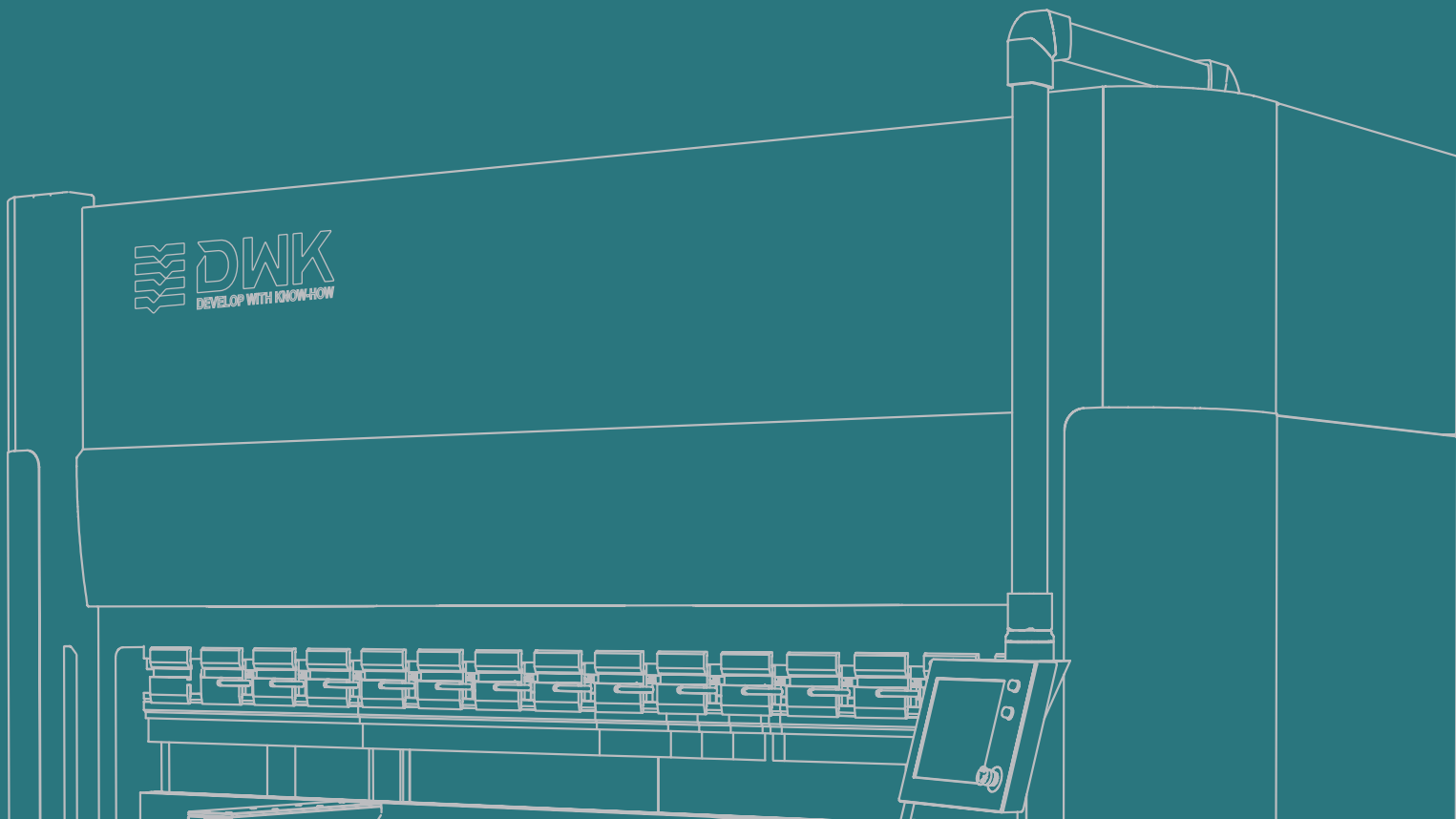
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# 多克品牌产品 DWK Products



## 系列闭式电液数控折弯机 S Serial CNC Electro-hydraulic Press Brake

- 闭式机架设计，整机刚性高  
O frame Design and Solid Structure
- 折弯速度更快  
Higher Bending Speed
- 适合薄板折弯  
Suitable for Sheetmetal Bending



## 系列C型电液数控折弯机 V Serial CNC Electro-hydraulic Press Brake

- C型机架设计，加工范围广  
Wide Processing Range Because of C Frame Design
- 偏向于厚板折弯  
Suitable for Thick Plate Bending
- 可实现双机联动  
Tandem Operation Available



## 系列高性价比数控折弯 T Serial High Performance CNC Press Brake

- 适应性极强  
providing exceptional adaptability
- 节能环保  
Energy Saving
- 速度快  
High Efficiency
- 设计紧凑，降低运输成本  
Compact design, simplifying logistics and

# 产品特点

## Product Features



### 系列电液数控折弯机

#### S Serial products' characteristics



- 创新设计,3D建模、辅以有限元分析。设计工具先进,机器结构合理,外形美观大方,使用安全可靠,操作界面友好
- 闭式机架,无喉口,立柱角变形极小,机器角刚度,保证制件具有超高的精度
- 优化性能参数,加工速度快
- 配有全包围式护罩,机器操作使用安全
- 可选配下模自动换位式折弯压扁机构(选配,已申请发明专利),实现高效率压死边工艺
- 最大可实现 160T\*4100mm 加工能力
- 标配模具库及一套标准模具,便于管理及日常加工
- Begins with innovative design, 3D modeling, and finite element analysis. Advanced design tools, reasonable machine structure, elegant appearance, safe and reliable use, friendly operation interface.
- 0 frame design without throat which cause frame deformation very tiny, due to the solidness of structure, the precision of bended products are fully guaranteed.
- Fast bending speed because of optimized performance parameter
- Equipped with fully enveloped guard to ensure the safety of the machine tool operation.
- Optional movable combo die system (complete both bending and hemming without changing die).
- The max. bending capability up to 160T \* 4100mm .
- One set of toolings available in our tool library, and very convenient for management and daily operations.



\* 选配多种安全装备,符合 CE 标准  
Optional safety devices available, comply with CE



## 机床正面 Front View



## 机床背面 Rear View



# 产品特点

## Product Features



### 系列电液数控折弯机

S Serial products'

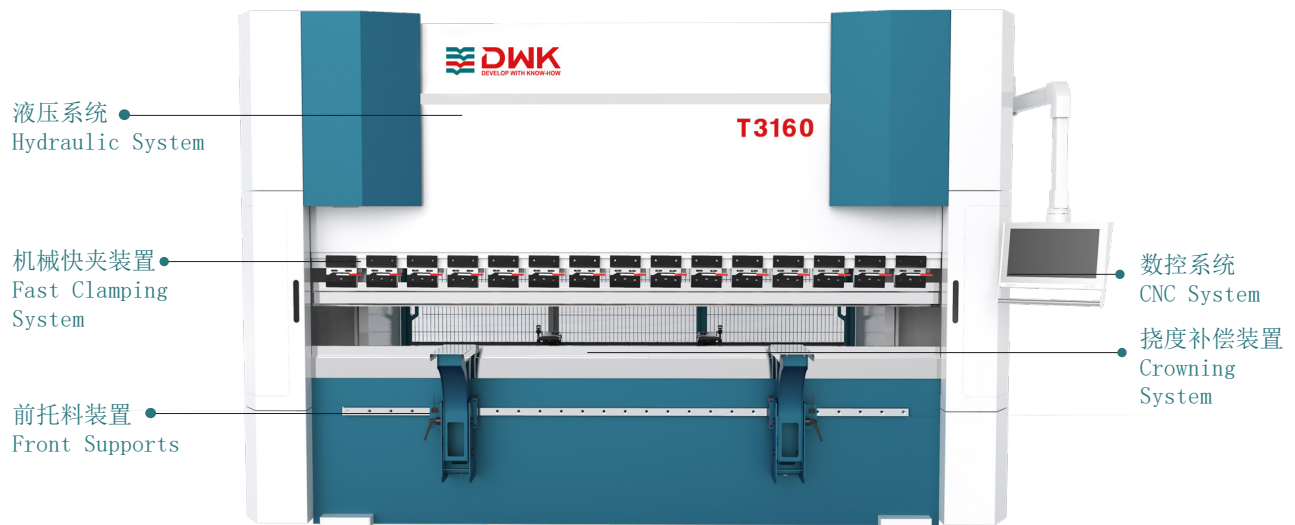


- 广泛的加工适用性和灵活配置，满足多种工艺需求，适应性极强。
- 设计紧凑，部分型号可直接装入标准集装箱发运，简化物流流程，降低运输成本。
- 优化性能参数，加工速度快
- 配有全包围式护罩，机器操作使用安全
- 配置灵活、操作便捷，轻松应对不同制造场景，实现高效生产。
- 最大可实现 160T\*4100mm 加工能力
- Extensive processing versatility and flexible configuration to meet a wide range of process needs, providing exceptional adaptability.
- Compact design, with some models fitting directly into standard containers for shipment, simplifying logistics and reducing transport costs.
- Fast bending speed because of optimized performance parameter
- Equipped with fully enveloped guard to ensure the safety of the machine tool operation.
- Flexible configuration and easy operation enable efficient production in different manufacturing scenarios.
- The max. bending capability up to 160T \* 4100mm .

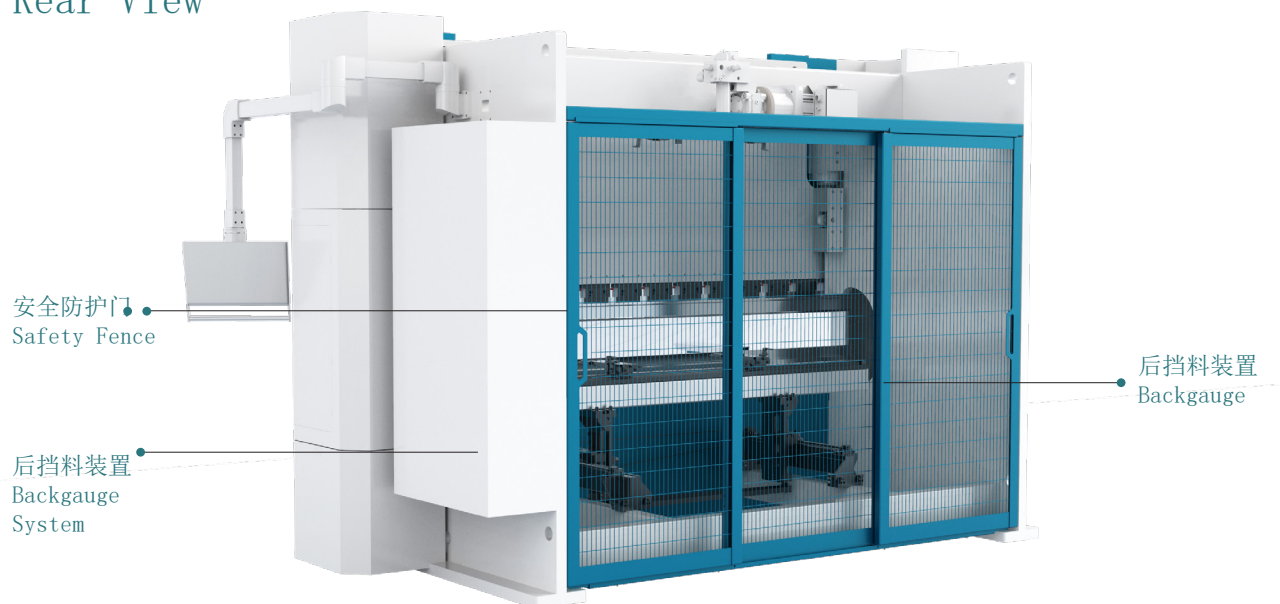


\* 选配多种安全装备，符合 CE 标准  
Optional safety devices available, comply with

## 机床正面 Front View



## 机床背面 Rear View





## 系列电液数控折弯机

### V Serial products' characteristics



- 创新设计，3D 建模、辅以有限元分析。设计工具先进，机器结构合理，外形美观大方，使用安全可靠，操作界面友好
- C 型开口式设计，加工工件多样化，并可实现双机联动
- 配有安全防护罩，机器操作使用安全
- 单机最大规格达 1000T\*12m，双机可达到 24m 加工长度
- 标配模具库及一套标准模具，便于管理及日常加工
- Begins with innovative design, 3D modeling, and finite element analysis. Advanced design tools, reasonable machine structure, elegant appearance, safe and reliable use, friendly operation interface.
- C frame design make bending capability available for versatile demand and tandem operation available as well.
- Equipped with fully enveloped guard to ensure the safety of the machine tool operation.
- Max. bending capability upto 1000T\*12m for one single press brake and also tandem operation available upto 24m.
- One set of toolings available in our tool library, and very convenient for management and daily operations.



\* 选配多种安全装备，符合 CE 标准  
Optional safety devices available, comply with

## 机床正面 Front View



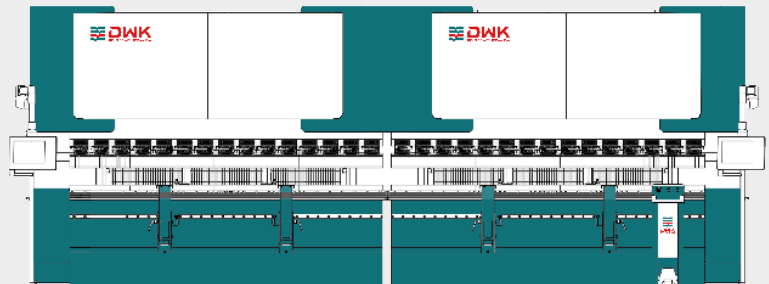
## 机床背面 Rear View



### DWK-V 型电液数控折弯机双机联动 DWK-V series Press Brake Tandem Operation

DWK-V 系列折弯机可双机联动加工，组合外观简洁、稳定可靠，可高精度完成超长尺寸加工，保质保量交付客户，可实现了  $1+1 > 2$  的效果。

DWK-V series Press brake could process workpieces much longer than their own workbench via tandem operation. The combination is simple and stable, workpieces with long size could deliver to customers in high precision, and





# 主要组件

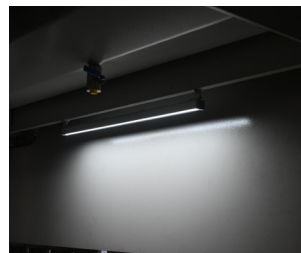
## Main Components

### 照明系统（标配）

#### Lighting System (Standard)

产品正面、背面均布置有照明灯，根据机型长度增加组数，方便日常操作及维护

Equipped with LED lights on both front and back. The lights quantity is based on the length of the machine to ease daily operation and maintenance.



### 机械快夹装置（标配）

#### Fast Clamps (Standard)

配置上模机械快速夹具，便于快速装夹上模

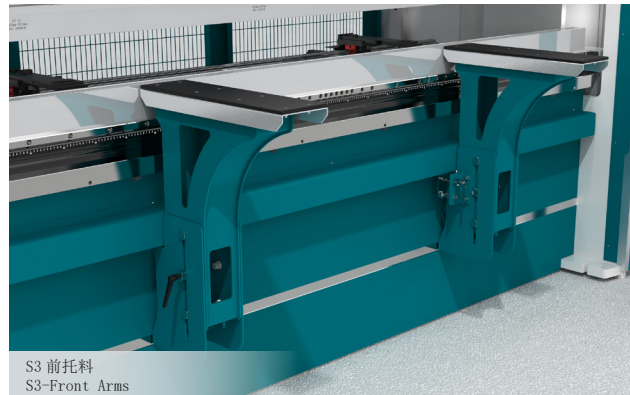
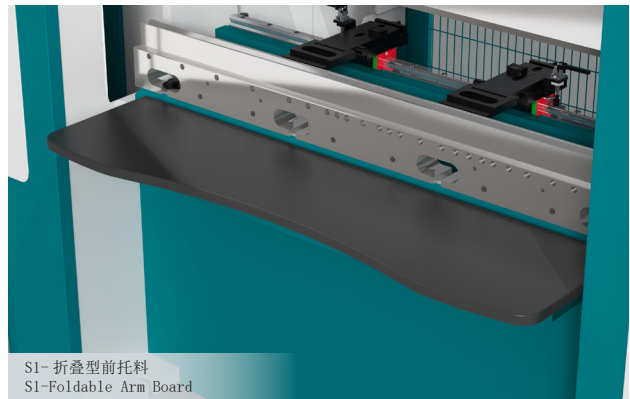
Equipped with upper tool fast clamps, which is convenient to fit up with the upper tool.





## 前托料装置（标配） Front Supports (Standard)

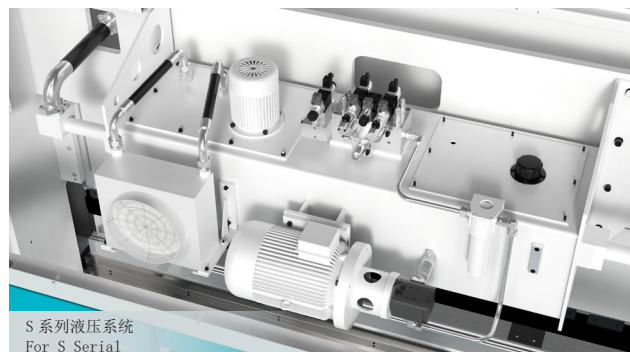
- 自主研发前托料装置，可上下左右调节，进料方便
- 结构稳固，台面加宽，大件加工时可提供着力支撑，小件加工时可放置零件，方便使用
- S1-50\*1250 特有折叠型前托料装置
- Our self-developed front supports can move left & right, up & down.
- Small workpieces can be put on the top of support, which is very convenient.
- S1-50x1250 press brake designed with foldable arm board.



## 液压系统（标配） Hydraulic System(Standard)

液压系统采用国际上通用的电液比例折弯机专用系统，该系统成熟、可靠、故障率低，使用安全稳定。

Equipped with exclusive hydraulic system for electro-hydraulic press brake, which is mature, reliable, low failure rate, safe and stable in performance.



## 下模自动换位式折弯压扁机构 (S 型专有，选配)

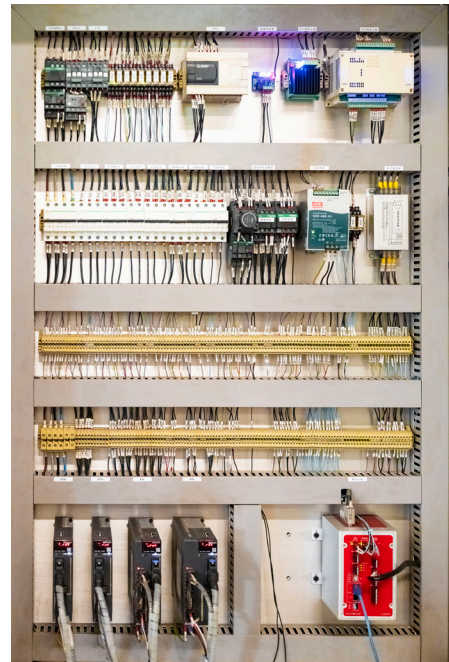
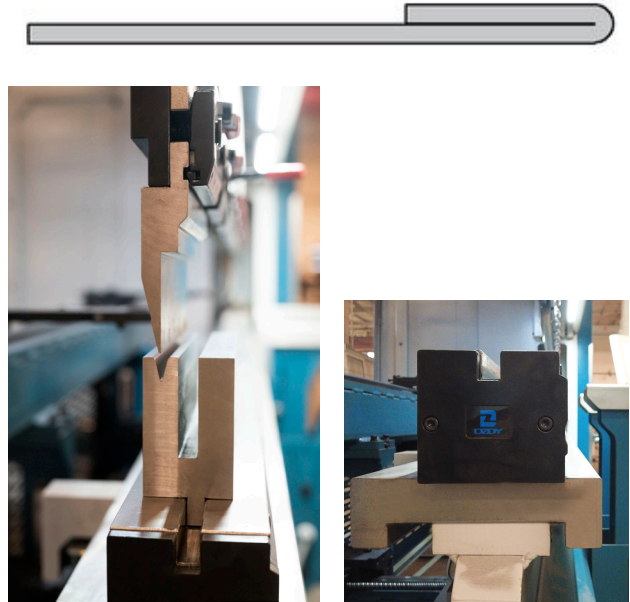
### Movable Comboie Mechanism for Bending & Hemming (Optional for S Series)

通过特制模具与下模换位机构组合，实现折弯、压扁工位自动切换，避免在两工位中，人工移动板料或者更换模具，有效降低了折弯操作人员的劳动强度。简化了板料折弯压扁工艺的实现过程，大大提高了制件的生产效率。其动作可根据数控系统的指令自动完成。

The bending and hemming lower die combo realizes the replacement automatically, which avoids the manual movement of material or the changing of lower die, and eventually alleviate the workload of operators. The handling process of sheet metal is simplified and the productivity is greatly improved. This action can be automatically completed according to the instructions from CNC system.

## 电气系统 PLC System

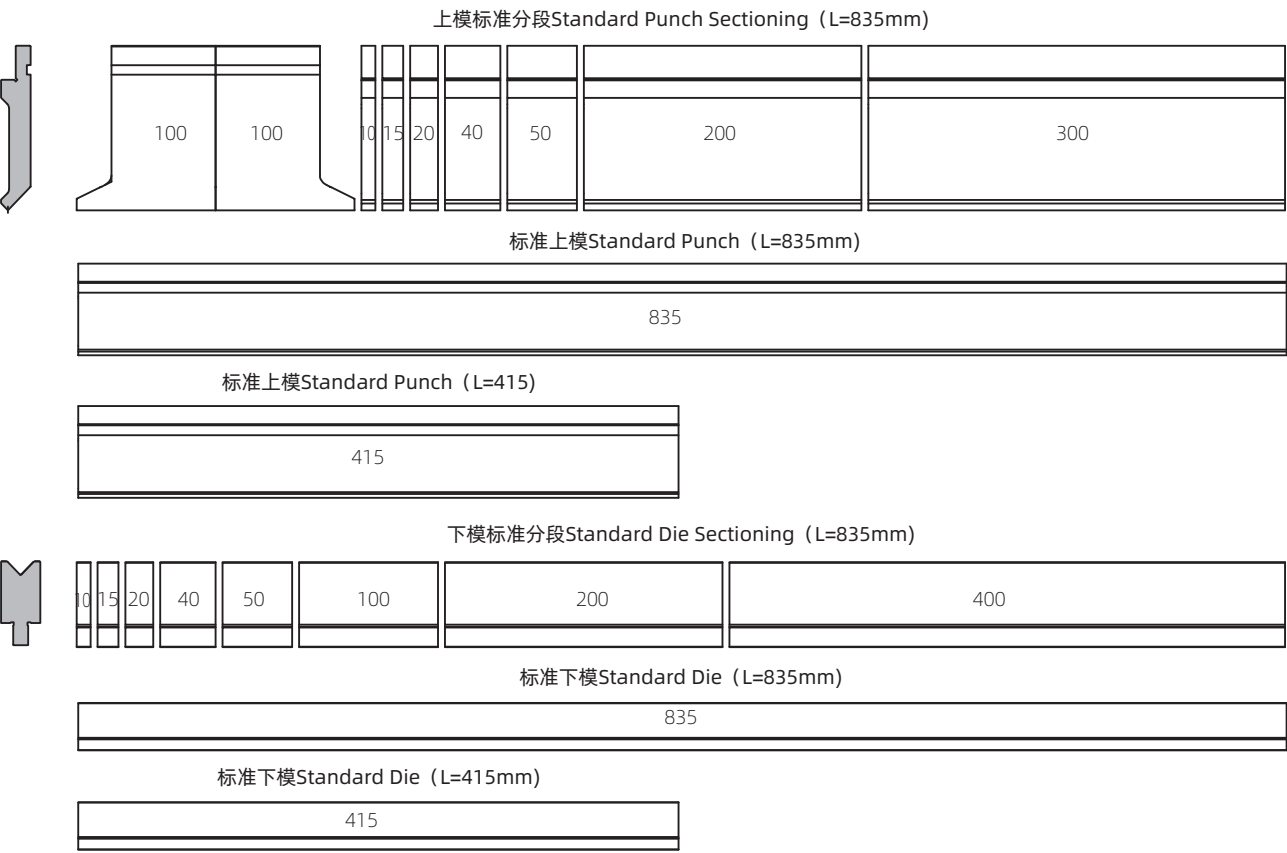
- 主要元件采用法国 SCHNEIDER 品牌，伺服电机采用 ESTUN 品牌，运行稳定，抗干扰能力强
- 电柜布线合理、清晰，便于维修或排除故障，散热效果好
- 配置脚踏开关控制站，具有紧急停止等功能，方便操作
- Equipped with French brand SCHNEIDER and ESTUN servo motors, which help provide stable operation and strong anti-interference performance.
- Equipped with Estun servo driver. PLC cabinet is clearly configured and it is convenient for maintenance, troubleshooting and ventilation.
- Equipped with movable foot switch which can turn on/off or emergency stop, is very convenient to operate.



模具库（标配）  
Tool Library (Standard)

机器配有箱式模具库便于存放模具，防止高精度模具因为表面污染或变形导致的精度下降

Press brake is equipped with a box-type tool library which can conveniently store tools and help avoid precision deviation caused by deformation or pollution of the tools.



模具组合说明：标配一副上模 + 一副下模 Standard tools set: 1 set of punches + 1 set of dies	
机型 Model	S1-50×1250
模具选择组合 Tools set	标准分段 (L=835)+ 标准上下模 (L=415) Standard Punch & Die Sectioning (L=835mm)+Standard Punch & Die (L=415mm)

## 后挡料装置（标配）

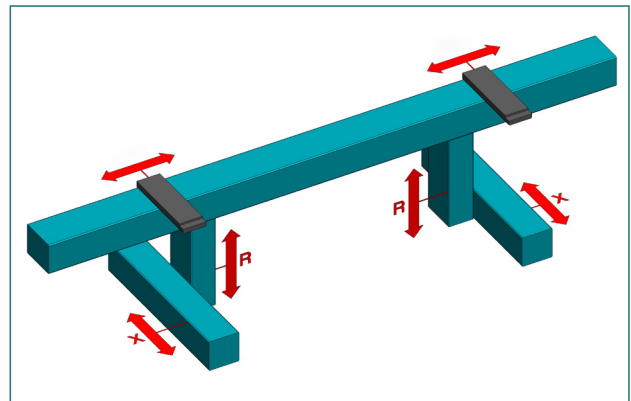
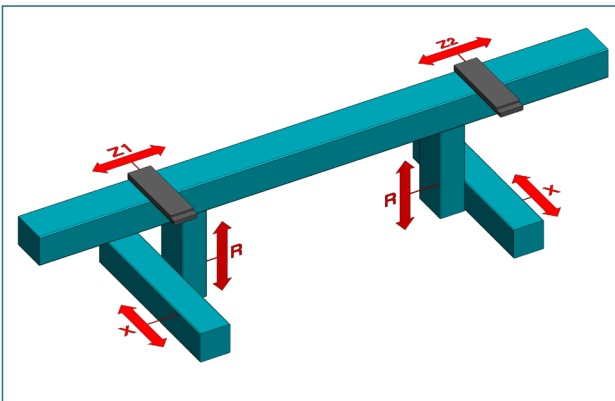
### Back Gauge System (Standard)

- 自主研发后挡料,速度快、精度高。多轴可选,定位范围大。
- 标配  
X+R 后挡料
- 可选配  
X+R+Z1+Z2 后挡料

Self-developed back gauge system which is fast and highly precise. Multi gauge position design help achieve wider positioning range.

Standard backgauge : X+ R

Optional backgauge: X+ R+ Z1+ Z2



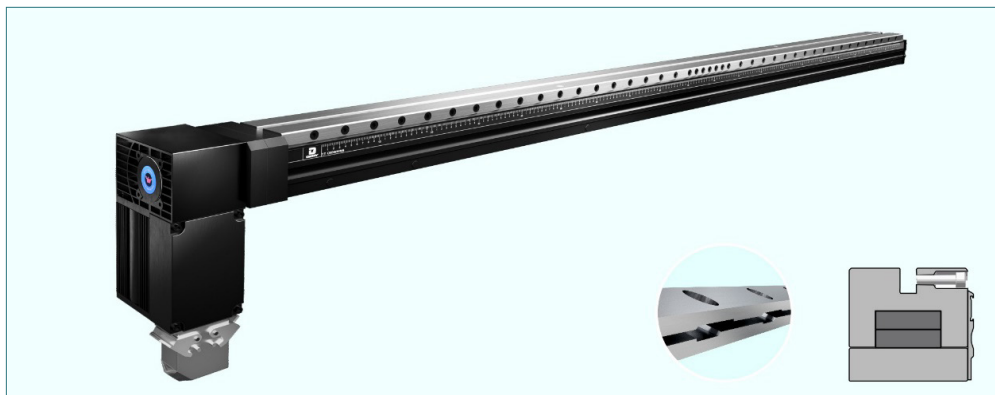
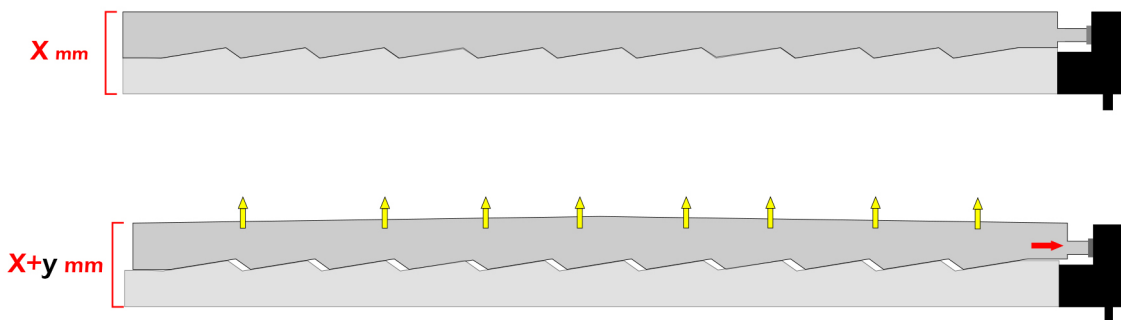
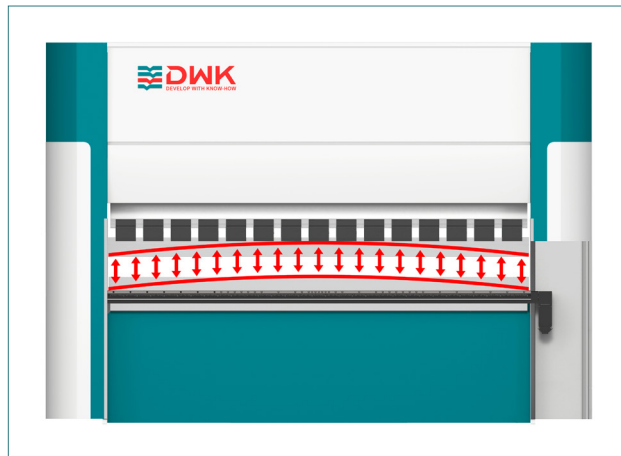
## 挠度补偿装置（标配） Crowning System (Standard)

机器配有机械挠度补偿装置，可按照数控系统编程的指令自动调整。

- 在整个加工长度内进行多点补偿，具有更高精度和稳定性
- 内置高精度整体加凸波浪面，双向补偿可实现横向精调功能
- 标配集成减速电机、铝合金挡板和刻度标尺

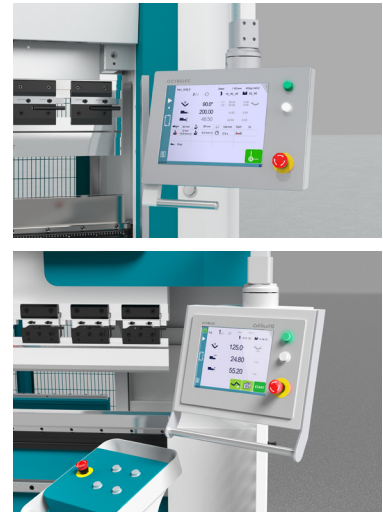
Our press brakes adopt motorized crowing system, which can adjust automatically according to machine's CNC Programming instruction.

- Multi points compensation accross the full length of the machine to reach higher precision and stability.
- Built-in high-precision wave bars with bi-directional deflection offset which help achieve precise horizontal compensation.
- Integrated with gear reducer, aluminium stopper and scale.





## 数控系统 CNC System



### CYBELEC CybTouch 12 PS (标配)

——专为 4 轴电液同步折弯机开发的数控系统。

#### 基本参数

12 寸彩色绘图 TFT 屏幕

800×600 像素

配 LED 背景灯控制

2GB 的 SD 内存卡和 RLink 固件升级工具

#### 功能强劲，拓展性强

- 自动生成折弯步序（可选）
- 折弯允许自动计算
- 压力 - 补偿自动计算
- 针对每一步或每道折弯的模块化设置。
- 角度和后挡料校正。
- 通过 PC 或笔记本无线远程连接系统。
- USB 端口用于数据传输或备份

#### 优化折弯

- 折弯步序的多种自动计算功能
- 可以储存多步折弯步序和产品
- 角度，压力和补偿控制
- 轻松手动控制
- 离线 2D 软件

#### 操作方便

- 大字体、大图标，色彩鲜明，良好的可读性
- 直观友好的人机界面
- 完善的编程可以使批量的多步折弯提高效率
- EasyBend 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
- 支持多种语言

### CYBELEC CybTouch 12 PS (Standard)

Designed to control synchronized press-brakes with 4 axes.

#### Technical Characteristics

12" color graphic TFT screen

800 x 600 pixels

LED backlight control.

2 GB Micro SD Card with firmware update via RLink.

#### Functional and expandable

- Bending sequence created automatically (optional)
- Bending allows automatic calculations
- Pressure compensation calculate automatically
- Modularized setting for each step of bending
- Angle and back gauge adjustment
- Remote interface with system via PC or laptop
- USB memory stick interfacing

#### Bending Optimizing

- Automatic calculation for bending sequence.
- Can store multi-step bending sequence and product.
- Angle, pressure and crowning management.
- Easy manual control Offline 2D software

#### Easy Operation

- Large screen, high definition and contrast touch screen
- User friendly HMI
- Perfect programming can improve efficiency for massive multi-step bending
- Easy single bending thanks to the EasyBend page Online aid and pop-up reminder make the interface very friendly.
- Software updates and data transfer via wireless communications with PC or laptop
- Support multi languages



## 其他数控系统 Optional CNC System

CYBELEC CT8 (Switzerland)		
	<ul style="list-style-type: none"> <li>• 8 英寸彩色液晶显示屏、触摸屏、图标识别功能</li> <li>• “简易折弯”页面采用简易单次折弯处理</li> <li>• 完全高效的弯曲编程可以满足大规模生产和加工的需要</li> <li>• 自动计算弯曲角度、主压力和挠度补偿角度，后挡料校正</li> </ul>	<ul style="list-style-type: none"> <li>• 8" color LCD display, touch screen, icon recognition function.</li> <li>• The “ Easy Bend” page is processed with easy single bending.</li> <li>• The fully efficient bending programming can meet the needs of mass production and processing.</li> <li>• Automatically calculate bending angle, main pressure and deflection compensation.</li> <li>• Automatic calculation of bending data</li> <li>• Angle, Back Gauge correction.</li> </ul>
CYBELEC CT15 (Switzerland)		
	<ul style="list-style-type: none"> <li>• 15 英寸现代流线型玻璃表面触摸屏</li> <li>• 用户友好的 HMI 得益于直观的编程和易于设置的专用向导（自动调谐）</li> <li>• 2D 图形配置文件绘制（触摸配置文件）和精确的 2D 程序创建</li> <li>• 折弯顺序自动计算</li> <li>• EasyBend 页面实现单次折弯</li> <li>• 存储容量大</li> <li>• 内部备份和恢复功能</li> <li>• 用于扩展诊断和更新的无线通信（使用笔记本电脑）</li> </ul>	<ul style="list-style-type: none"> <li>• 15" modern streamlined glass surface touch screen.</li> <li>• User friendly HMI thanks to intuitive programming and easy to setup with dedicated wizards (autotuning).</li> <li>• 2D graphical profile drawing (Touch Profile) and precise 2D program creation.</li> <li>• Automatic bending sequence calculation.</li> <li>• Easy single bends thanks to the EasyBend page.</li> <li>• Wide storage capacity.</li> <li>• Internal backup and restore functions.</li> <li>• Wireless communication for extended diagnostics and updates (with laptop).</li> </ul>
CYBELEC VT19 MAX (Switzerland)		
	<ul style="list-style-type: none"> <li>• 19 英寸现代流线型玻璃表面触摸屏</li> <li>• 用户友好的 HMI，类似于 CybTouch 的 HMI，这要归功于直观的编程和专用的设置向导（自动调整）</li> <li>• 全三维可视化和模拟</li> <li>• 使用 DXF 展开模式和三维格式文件导入的零件管理</li> <li>• 复杂零件的自动解决方案，自动弯曲排序、测量、加工和自动分割</li> <li>• 在 Windows 10 下运行以实现多任务和联网</li> <li>• 内部备份和恢复功能</li> <li>• 出色的诊断工具</li> </ul>	<ul style="list-style-type: none"> <li>• 19" modern streamlined glass surface touch screen.</li> <li>• User friendly HMI, similar to the CybTouch's one, thanks to an intuitive programming and dedicated set-up wizards (auto-tuning).</li> <li>• Full 3D visualization and simulation.</li> <li>• Parts management with DXF flat pattern and 3D format files import.</li> <li>• Automatic solutions of complex parts, automatic bend sequencing, gauging, tooling and auto segmentation.</li> <li>• Running under Windows 10 for multi-tasking and networking.</li> <li>• Internal backup and restore functions.</li> <li>• Outstanding diagnostic tools.</li> </ul>

DELEM DA-53T (Netherlands)		
	<ul style="list-style-type: none"> <li>• “快捷键” 触摸导航</li> <li>• 10.1 英寸高分辨率 TFT 真彩显示屏</li> <li>• 最多 4 个轴 (Y1、Y2+2 个辅助轴)</li> <li>• 挠度补偿控制</li> <li>• 具有模具 / 材料 / 立品库</li> <li>• 支持伺服或变频器控制</li> <li>• 先进 Y 轴控制算法，既可控制闭环阀，也可控制开环阀</li> <li>• 网络双机联动（选配）</li> <li>• USB 外设接口</li> <li>• Profile-T 离线软件</li> </ul>	<ul style="list-style-type: none"> <li>• “Hot-key” touch navigation.</li> <li>• 10.1" high resolution colour TFT.</li> <li>• Up to 4 axes (Y1, Y2 + 2 aux. axes).</li> <li>• Crowning control.</li> <li>• Tool / material / product library.</li> <li>• Servo and frequency inverter control.</li> <li>• Advanced Y-axis control algorithms for closed-loop as well as open-loop valves.</li> <li>• TandemLink (option).</li> <li>• USB memory stick interfacing.</li> <li>• Profile-T offline software.</li> </ul>
DELEM DA58T (Netherlands)		
	<ul style="list-style-type: none"> <li>• 2D 图形触摸屏编程</li> <li>• 15 “高分辨率 TFT 真彩显示屏</li> <li>• 折弯工序计算</li> <li>• 挠度补偿控制</li> <li>• 伺服和变频器控制模式</li> <li>• 先进的 Y 轴控制算法，既可控制闭环阀，也可控制开环阀</li> <li>• USB 接口</li> <li>• Profile-T 离线软件</li> </ul>	<ul style="list-style-type: none"> <li>• 2D graphical touch screen programming.</li> <li>• 15" high resolution colour TFT.</li> <li>• Bend sequence calculation.</li> <li>• Crowning control.</li> <li>• Servo and frequency inverter control.</li> <li>• Advanced Y-axis control algorithms for closed-loop as well as open-loop valves.</li> <li>• USB, peripheral interfacing.</li> <li>• Profile-T offline software.</li> </ul>
DELEM DA-66T (Netherlands)		
	<ul style="list-style-type: none"> <li>• 2D 触摸式图形编程</li> <li>• 3D 产品图形模拟显示</li> <li>• 17 “高分辨率 TFT 真彩显示屏</li> <li>• 内存容量 1GB</li> <li>• 完整的 windows 应用程序包</li> <li>• 多任务环境下用户程序应用</li> <li>• 角度检测传感器接口</li> </ul>	<ul style="list-style-type: none"> <li>• 2D pattern programming.</li> <li>• 3D product graphic simulation display.</li> <li>• 17" high resolution TFT true color display.</li> <li>• Memory capacity 1GB.</li> <li>• Complete windows application package.</li> <li>• Sensor bending &amp; correction interface.</li> </ul>
DELEM DA-69T (Netherlands)		
	<ul style="list-style-type: none"> <li>• 17 “高分辨率 TFT 真彩显示屏</li> <li>• 2D 和 3D 图形触摸屏编程模式</li> <li>• 模拟和生产中的三维可视化</li> <li>• 完整的 Windows 应用程序套件</li> <li>• Delem-Modusys 兼容性（模块可扩展性和自适应性）</li> <li>• USB 接口</li> <li>• Profile-T2D 离线软件</li> <li>• 角度检测传感器接口</li> </ul>	<ul style="list-style-type: none"> <li>• 17" high resolution color TFT.</li> <li>• 2D and 3D graphical touch screen programming mode.</li> <li>• 3D visualization in simulation and production.</li> <li>• Full Windows application suite.</li> <li>• Delem Modusys compatibility (module scalability and adaptivity).</li> <li>• USB, peripheral interfacing.</li> <li>• Profile-T2D offline software.</li> <li>• Sensor bending &amp; correction interface.</li> </ul>
ESA S630 (Italy)		
	<ul style="list-style-type: none"> <li>• 单色 5.7 英寸液晶显示屏 (320×240 像素)</li> <li>• 填写实时自动检测、弯曲和补偿力自动计算的表格编程模式</li> <li>• 二维图形编辑上模具和下模具图形预览工件</li> <li>• 所有程序、模具和参数都可以保存在本地存储器或 U 盘中</li> <li>• 控制 3-4 轴</li> </ul>	<ul style="list-style-type: none"> <li>• Monochrome 5.7" LCD display (320×240 pixels).</li> <li>• Fill in the form programming mode of real-time automatic inspection, automatic calculation of bending and compensation force.</li> <li>• 2D graphics editing of upper mold and lower mold graphics preview of workpiece.</li> <li>• All programs, molds and parameters can be saved in the local memory or USB flash disk.</li> <li>• Control 3-4 axes.</li> </ul>

## 其它选配 Other Options

### 角度监控校正系统（选配） Angle Detection System(Optional)

实时监控折弯角度，向数控系统提供即时反馈，并进行调整，保证每批工件折弯角度的一致性。

Online real-time detection of bending angle, to provide immediate feedback to CNC system, which ensure the consistency of bending angle of each batch.



### 激光保护光幕（选配） Laser Protection (Optional)

激光保护光幕可形成一面由激光形成的无形屏障，防止人手或其他物体误入操作区域。

An invisible screen is formed by laser, when the "detection area" is invaded by any opaque objects, this device will cut the power supply of the press brake or activate the function to fail the movement of relative fatal components.



### 数控随动前托料机构（选配） CNC Controlled Bending Aid Mechanism (Optional)

随动前托料特别适用于长板的折弯，可有效地提高效率和精度，降低操作者劳动强度。

The robotic front support is customized for bending the long and heavy sheet metal, which can effectively improve the efficiency and accuracy and alleviate the workload of operators.



### 冷却系统（选配） Cooling System(Optional)

可选配风冷、油冷等液压冷却系统

Air cooling or oil cooling system is optional for hydraulic system.



风冷 Air Cooler



油冷 Oil Cooler

# S 系列技术参数

## Technical Parameters of S SeriesSeries



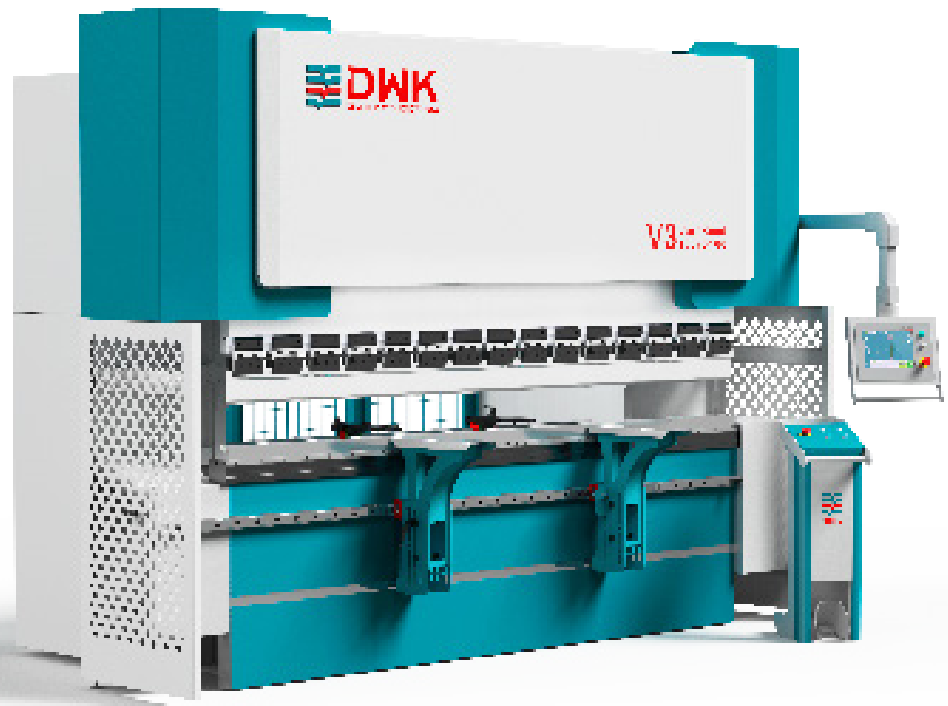
型号 Model		S1-50x1250	S3-100x3100	S4-160x4100
公称力 Nominal force (KN)		500	1000	1600
折弯长度 Bending length (mm)		1250	3100	4100
立柱内间距 Side frame distance (mm)		1300	3150	4150
滑块行程 Ram stroke (mm)		165/200	215/250	265/300
开启高度 Open height (mm)		415/450	465/500	515/550
滑块速度 Ram speed (mm/s)	快下 Down speed	150	150	150
	工进 Pressing	16	12	12
	返程 Return speed	183	160	124
主电机功率 Main motor power (KW)		5.5	7.5	11
外形尺寸 Dimensions (mm)	长 L	2030	4054	5070
	宽 W	1450	1545	1640
	高 H	2560	2840	3040

## 折弯机 Y 轴及后档料行程、定位速度及定位精度 Backgauge Data Sheet Reference

型号 Model	项目 Item	描述 Description	单位 Unit	参数 Parameters
S1-50X1250	X 轴行程	X 轴行程 X Axis travel	mm	300/500
	X 轴定位速度	X Axis working speed	mm/s	400
	X 定位精度	X Axis Accuracy	mm	$\pm 0.01$
	R 轴行程	R Axis travel	mm	120
	R 轴定位速度	R Axis working speed	mm/s	100
	R 定位精度	R Axis Accuracy	mm	$\pm 0.01$
	Y 轴定位精度	Y Axis Accuracy	mm	$\pm 0.01$
	Y 轴重复定位精度	Y Axis Repeat Accuracy	mm	$\pm 0.01$
	加工件直线度	Workpiece straightness	mm	$\leq \pm 0.3/1000$
S3-100X3100	折弯角度精度	Bending angle accuracy	°	$\leq \pm 1$
	X 轴行程	X Axis travel	mm	500/700
	X 轴定位速度	X Axis working speed	mm/s	400
	X 定位精度	X Axis Accuracy	mm	$\pm 0.01$
	R 轴行程	R Axis travel	mm	120
	R 轴定位速度	R Axis working speed	mm/s	100
	R 定位精度	R Axis Accuracy	mm	$\pm 0.01$
	Z 轴行程	Z Axis travel	mm	2500
	Z 轴定位速度	Z Axis working speed	mm/s	700
	Z 定位精度	Z Axis Accuracy	mm	$\pm 0.1$
	Y 轴定位精度	Y Axis Accuracy	mm	$\pm 0.01$
	Y 轴重复定位精度	Y Axis Repeat Accuracy	mm	$\pm 0.01$
	加工件直线度	Workpiece straightness	mm	$\leq \pm 0.3/1000$
S4-160X4100	折弯角度精度	Bending angle accuracy	°	$\leq \pm 1$
	X 轴行程	X Axis travel	mm	500/700
	X 轴定位速度	X Axis working speed	mm/s	400
	X 定位精度	X Axis Accuracy	mm	$\pm 0.01$
	R 轴行程	R Axis travel	mm	120
	R 轴定位速度	R Axis working speed	mm/s	100
	R 定位精度	R Axis Accuracy	mm	$\pm 0.01$
	Z 轴行程	Z Axis travel	mm	3500
	Z 轴定位速度	Z Axis working speed	mm/S	700
	Z 定位精度	Z Axis Accuracy	mm	$\pm 0.1$
	Y 轴定位精度	Y Axis Accuracy	mm	$\pm 0.01$
	Y 轴重复定位精度	Y Axis Repeat Accuracy	mm	$\pm 0.01$
	加工件直线度	Workpiece straightness	mm	$\leq \pm 0.3/1000$
	折弯角度精度	Bending angle accuracy	°	$\leq \pm 1$

# V 系列技术参数

## Technical Parameters of V SeriesSeries



型号 Model		V3-160x3100
公称力 Nominal force (KN)		1600
折弯长度 Bending length (mm)		3100
立柱内间距 Side frame distance (mm)		2450
滑块行程 Ram stroke (mm)		200
开启高度 Open height (mm)		440
滑块速度 Ram speed (mm/s)	快下 Down speed	150
	工进 Pressing	10
	返程 Return speed	130
主电机功率 Main motor power (KW)		11
外形尺寸 Dimensions (mm)	长 L	4000
	宽 W	1600
	高 H	2850



# T 系列技术参数

## Technical Parameters of T SeriesSeries



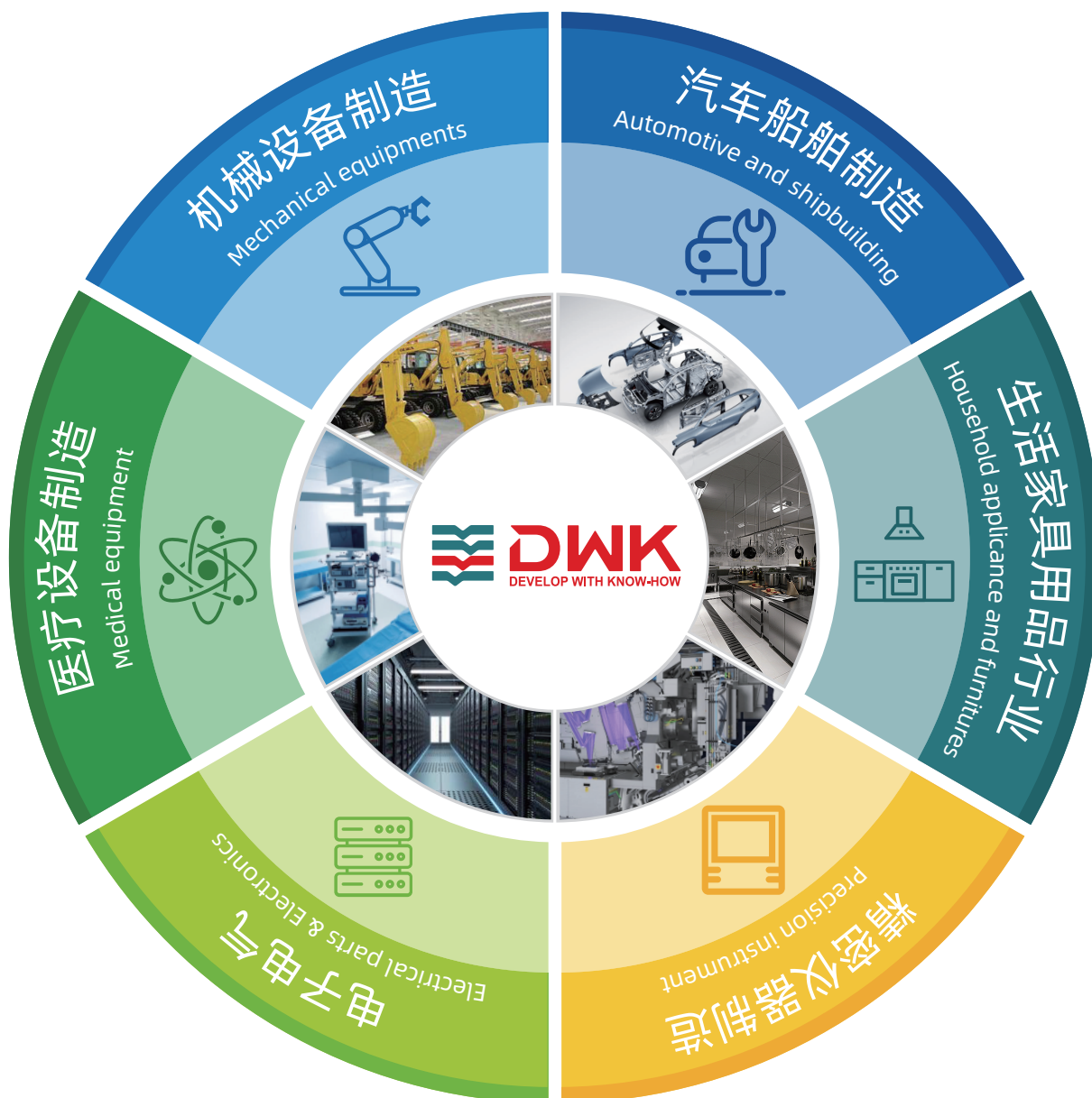
型号 Model		T-160x3100
公称力 Nominal force (KN)		1600
折弯长度 Bending length (mm)		3100
立柱内间距 Side frame distance (mm)		2700
滑块行程 Ram stroke (mm)		230
开启高度 Open height (mm)		535
滑块速度 Ram speed (mm/s)	快下 Down speed	180
	工进 Pressing	14
	返程 Return speed	180
主电机功率 Main motor power (KW)		13.2
外形尺寸 Dimensions (mm)	长 L	4000
	宽 W	1750
	高 H	2700

# 选型配置

## Configuration Selection

标配 Standard Model		S1-50X1250	S3-100X3100	S4-160X4100
机械结构 Mechanical structure		■	■	■
液压系统 Hydraulic system		■	■	■
电气系统 PLC system		■	■	■
前托料装置 Front supports		■	■	■
机械快夹装置 Fast clamps		■	■	■
挠度补偿装置 Motorized crowing system		■	■	■
安全防护门 Safety protection	后 Rear fence	■	■	■
	左 & 右 L&R doors	■	■	■
脚踏 Foot switch		■	■	■
模具库 Tool library		■	■	■
标准模具一套 Toolings (1 set)		■	■	■
LED 照明系统 LED lighting system		■	■	■
磁栅尺 Magnetic railing ruler		■	■	■
数控系统 CNC system	CT8	■	▲	▲
	CT12	▲	■	■
	CT15	▲	▲	▲
	VT19MAX	▲	▲	▲
	DA53T	▲	▲	▲
	DA58T	▲	▲	▲
	DA66T	▲	▲	▲
	DA69T	▲	▲	▲
	S630	▲	▲	▲
	S640	▲	▲	▲
	VIS800	▲	▲	▲
	4	■	---	---
轴数 Backgauge Axis	4+1	▲	■	■
	4+2	---	▲	▲
	6+1	---	▲	▲
	6+2	---	▲	▲
	其他附件 Accessories	■	■	■
风冷系统 Air cooling		▲	▲	▲
油冷系统 Oil cooling		▲	▲	▲
激光保护光幕 Laser protection		▲	▲	▲
数控随动前托料 Robotic bending aid		▲	▲	▲
角度监控校正系统 Bending angle laser check		▲	▲	▲
■ 标配 Standard				
▲ 选配 Optional				

# 应用领域 Product Applications



# 关于标致

## About Us



标致机床（天津）有限公司于 2021 年成立，位于天津滨海新区中新生态城，是一家专业致力于折弯机产品研发、生产、销售的科技型企业。公司组建现代化企业管理运营团队，吸引多位国内锻压机床领域的优秀技术专家，建立研发中心和制造中心，确保多克折弯机基于客户体验的创新研发与基于可靠质量的批量化生产。

多克品牌折弯机，是标致机床（天津）有限公司自主研发的创新产品。贴合客户使用场景，结构新颖、性能可靠。

Biaozhi Machine Tool (Tianjin) Co., Ltd. was established in 2021, located in Binhai New Area Eco-City Tianjin, specializing in R&D, production and sales of press brakes. Our technical experts help to ensure DWK's products can meet customer's demand and the quality of mass production are also reliable.

DWK as a Branded Press Brake, is an innovative product independently developed by Biaozhi Machine Tool (Tianjin) Co., Ltd. suitable for customer's applications by its novel structure and reliable performance.



自主创新研发  
Independent R&D



30 年工艺经验  
30 Years Hands-on Experience



现代化运营管理  
Modernized Management

## 研发中心 R&D Center

公司设有研发中心，团队成员 **15** 人

自有机床研发相关 **5** 大核心技术能力

围绕智能机床研发申请专利 **100** 余项

Our R&D center own **15** staff who have R&D capabilities in **5** core technologies. More than **100** patents related to machine tool are under application.



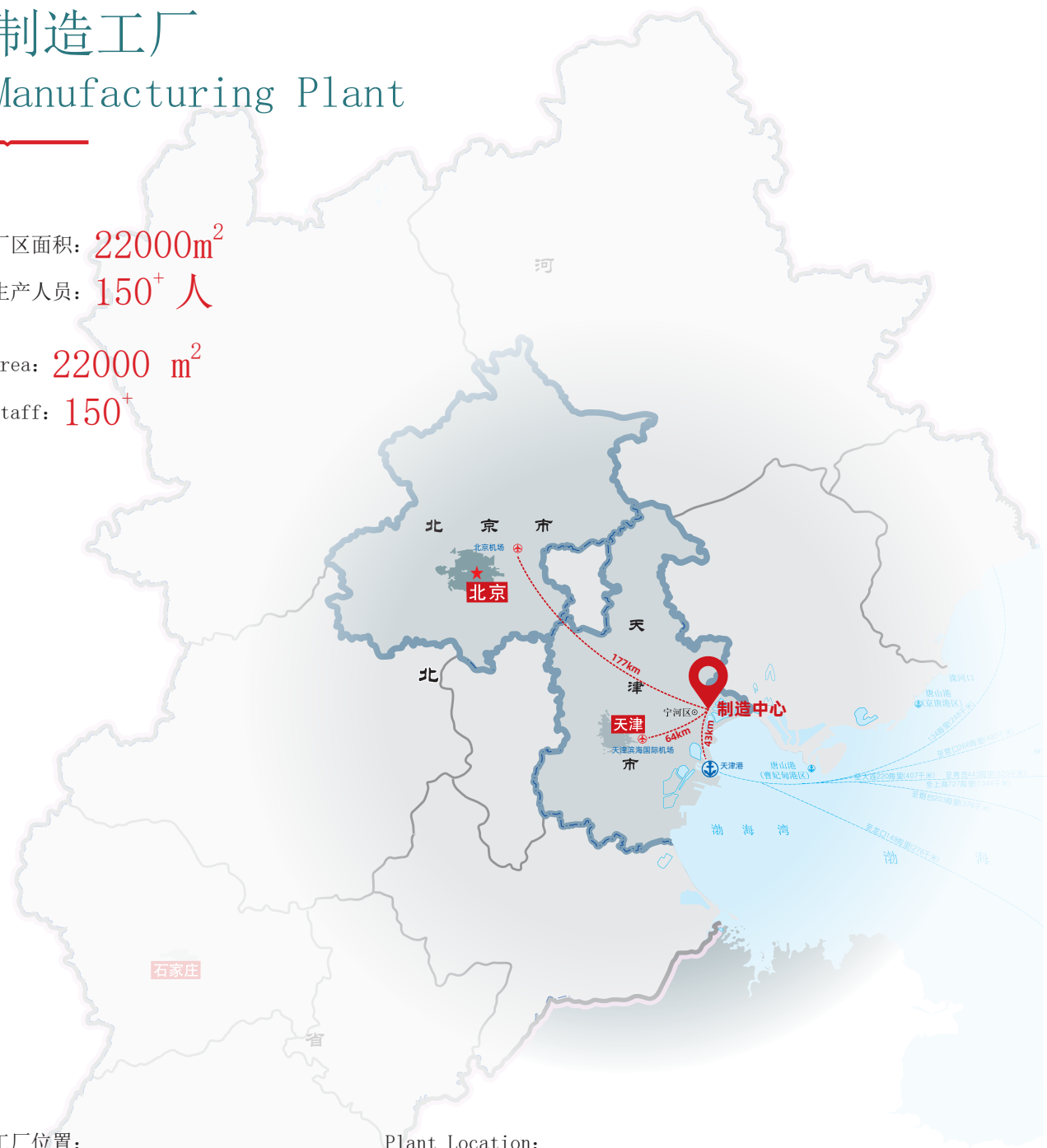
# 制造工厂 Manufacturing Plant

厂区面积: **22000m<sup>2</sup>**

生产人员: **150<sup>+</sup> 人**

Area: **22000 m<sup>2</sup>**

Staff: **150<sup>+</sup>**



工厂位置:

**天津宁河经济开发区**

距离天津滨海新区: **43km**

距离天津滨海国际机场: **64km**

距离北京机场: **154km**

Plant Location:

**Ninghe Economic Development Zone, Tianjin**

To BinHai, New Aera: **43km**

To Tianjin airport: **64km**

To Beijing airport: **154km**



## 重要加工设备 Manufacturing Center Facilities

- 1 西班牙 5 轴 12 米数控落地镗铣床  
Spanish 5Axis 12M Boring & Milling
- 2 沈阳机床产 3 轴 12 米龙门加工中心  
Shenyang 3 Axis 12M Gantry Boring & Milling
- 3 折弯机器人  
Robotic Arm for Bending

- 4 自动下料激光切割机  
Automatic Laser Blanking
- 5 焊接机器人  
Robotic Arm for Welding



# 从钢板到成品的全流程工艺

## From Plate to Press Brake





# 质量管理体系

## Quality Management System

多克制造工厂管理遵循 ISO9001 质量管理体系、ISO14001 质量管理体系、ISO45001 职业健康安全管理体系及 ISO3834 焊接体系，以保证每一台出厂产品均经过严格的质量检验。

As a certificates holder, the production and management of our plant strictly comply with ISO9001, ISO14001, ISO45001 and ISO3834, so to ensure that each of our products are both under strict quality inspection before delivery.



# 服务承诺

## Commitments to Our Customers

### 选型指导 Modeling guidance

需求调研 Demand investigation

技术分析 Technical analysis

产品方案 Product solution

### 安装培训 Installation training

培训 Training

考核 Check-up

调试 Debugging

复查 Double-check

使用 In operation

### 售后维护 After-sales service

产品档案 Product filing

电话回访 Follow-up call

视频指导 Online guidance

现场服务 On-site service

板料折弯压力表 | Bending Chart

V	4	5	6	7	8	10	12	14	16	18	20	24	28	32	36	40	45	48	50	55	60	65	70	80	90	100	120
B	2.8	3.5	4	5	5.5	7	8.5	10	11	12.5	14	17	20	22	25	28	31	32	35	38	42	46	49	56	63	70	85
R	0.7	0.8	1	1.1	1.3	1.6	2	2.3	2.6	3	3.3	3.8	4.5	5	6	6.5	7	7.5	8	9	10	1.5	11	13	14	16	19
S	0.5	40	30	30	20																						
	0.6	60	50	40	40	30																					
	0.8		80	70	60	50	40																				
	1.0			110	100	80	70	50	40																		
	1.2				130	120	100	80	70	60	50																
	1.4						160	130	110	90	80	70															
	1.6						170	140	120	100	90	80	70														
	2.0						220	190	170	140	130	110															
	2.2							230	250	180	160	130	110														
	2.5									230	200	170	150	130													
	3.0									330	290	240	210	180	160												
	3.5										400	330	280	250	220	200	180										
	4.0											430	370	330	290	260	230	210									
4.5													470	410	370	330	290	280	270	250							
5.0														510	450	410	360	350	330	300	270	250					
6.0															650	590	520	500	470	430	390	360	340	300			
8.0																			830	760	700	640	600	520	460	420	
10																					1080	1000	930	810	720	650	
12																										950	780
14																										1300	1100

标致机床（天津）有限公司  
BIAOZHI MACHINE TOOL (TIANJIN) CO., LTD.



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DWK Press Brake

