



COMPANY PROFILE  
**CNC PRESS BRAKE**  
产品介绍 + 企业简介

AHXISIM • HIGHER-END CNC PRESS BRAKE BRAND

安徽希斯曼智能装备制造有限公司  
*Anhui Hisman Intelligent Equipment Manufacture Co., Ltd.*



# CNC PRESS BRAKE

电液伺服数控折弯机



**AHXISIM**

Anhui Hisman Intelligent Equipment Manufacture Co., Ltd. is located in A-8#, Dahe Industrial Park, Bowang Town, Bowang District, Maanshan City, Anhui Province, China. It mainly produces sheet metal mechanical equipment. The products are widely used in sheet metal processing, decoration, metallurgy, shipbuilding, automobile, machinery, aviation and other professional production fields. With stable product quality and continuous growth, it is committed to becoming an advanced enterprise in the domestic medium and high-end sheet metal processing and forming machine tool industry.



# ENERGY SAVING AND EFFICIENT SERVO PUMP CONTROLLED CNC PRESS

- ▶ Servo pump controlled drive, significant energy-saving effect, optional mechanical deflection compensation, higher precision in sheet metal processing
- ▶ High speed rear blocking matched with high-speed hydraulic system, with higher overall efficiency, precise blocking finger, and expandable blocking range, suitable for processing ultra wide sheet metal
- ▶ Friendly human-machine operation interface, 2D programming

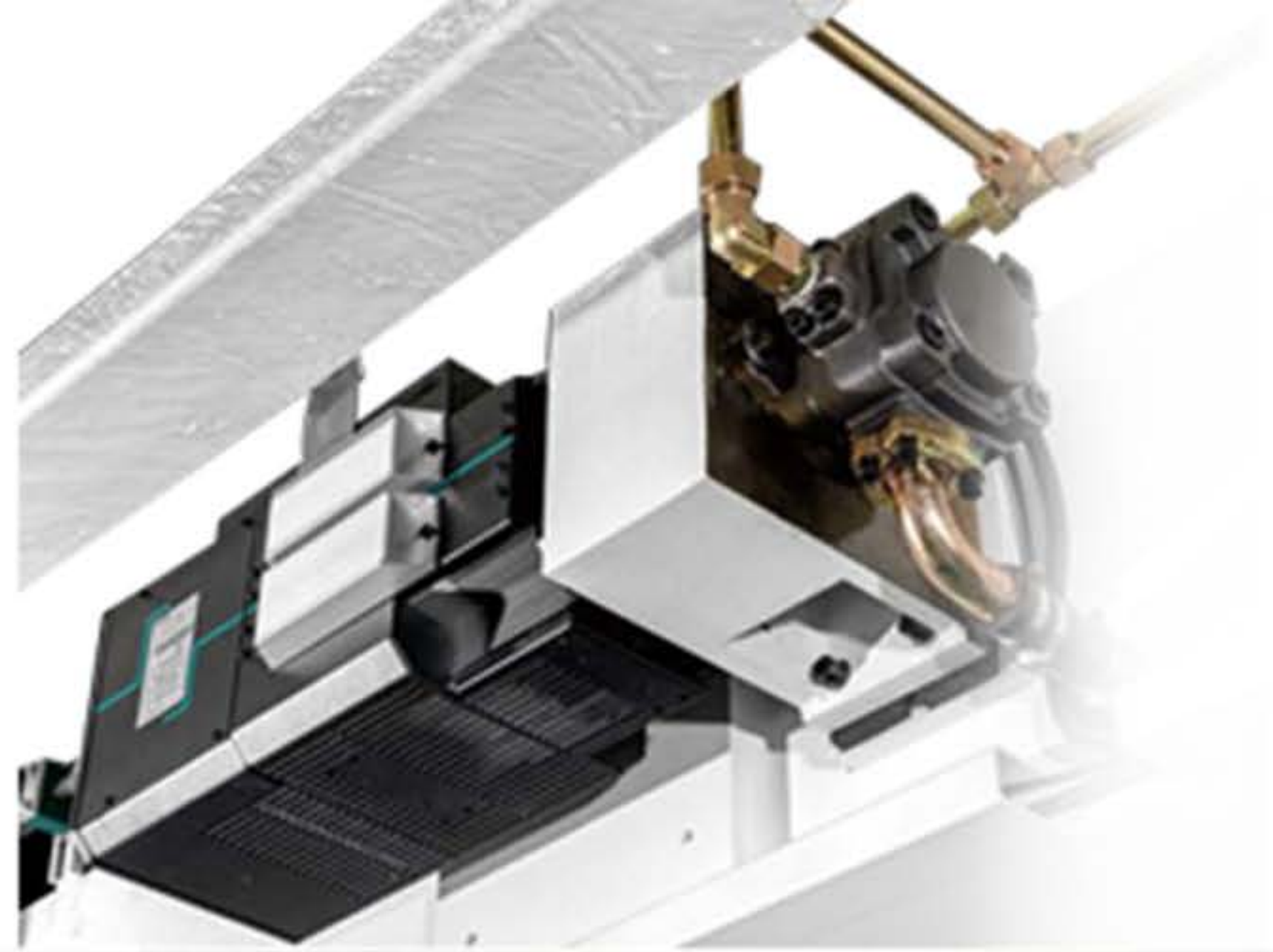




# CONTROL TECHNOLOGY OF UNIDIRECTIONAL SERVO PUMP

The oil pump motor uses the servo motor as the main motor to realize the real-time control of motor speed, reduce the idle work of the oil pump, and realize the energy-saving, efficient and stable characteristics of the Press brake

The most cost-effective energy-saving hydraulic bending control technology



## HYDRAULIC SERVO PUMP IMPORTED FROM GERMANY

- ✓ Efficient and energy-saving, reducing fuel tank capacity by 70%
- ✓ Fast - performance improvement, reduced work cycle by 10%
- ✓ Compared to traditional systems, energy efficiency increases by 50%
- ✓ Precision - up to 5um positioning accuracy
- ✓ Integrated servo pump system, lower noise during operation
- ✓ Integrated pressure filter ensures high stability and long service life



# BIDIRECTIONAL SERVO PUMP CONTROLLED CNC PRESS BRAKE



The oil electric hybrid drive bending machine is currently the latest top-level technology in domestic bending machines. Compared to the electric hydraulic synchronous bending machine, its hydraulic synchronization work relies on high-power dual servo pumps to complete, without relying on throttle valves to control the oil cylinder. The hydraulic oil temperature does not rise during operation, achieving the goal of extending the working life of the hydraulic system. So this model has all the advantages of electro-hydraulic synchronization, as well as the characteristics of efficiency, energy conservation, silence, and durability.



# CNC PRESS BRAKE +BENDING MANIPULATOR







### ITALIAN GV GRATING

Adopting Italian GV grating ruler to ensure higher bending accuracy

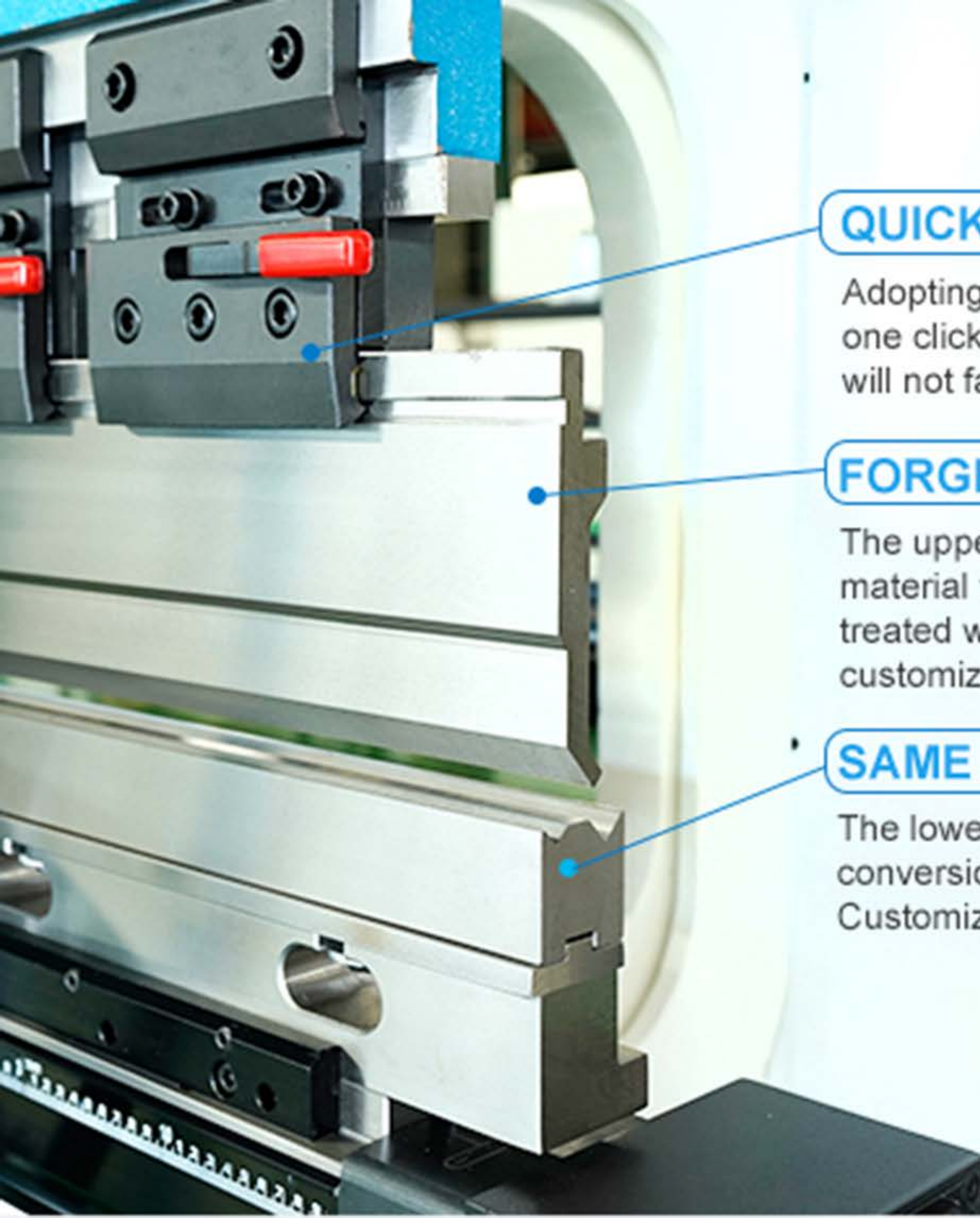
### CNC BENDING MOLD

The upper mold is processed using forged alloy steel as raw material, with a blackened surface that is rust resistant and segmented  
The lower mold mouth adopts the same core design, with high conversion efficiency between mold mouths

### THROAT DEFORMATION COMPENSATION MECHANISM

The grating ruler is installed on the C-shaped plate at the throat position, which allows for slight compensation for throat deformation under high pressure to ensure higher bending accuracy





### **QUICK CLAMPING DEVICE FOR MOLDS**

Adopting high-precision mold quick clamping device, with one click release design and anti drop structure, the mold will not fall off after release, making mold replacement safe

### **FORGED ALLOY STEEL UPPER DIE**

The upper mold is made of forged alloy steel as raw material through CNC machining, and the surface can be treated with blackening and rust prevention, and can be customized in sections

### **SAME CORE CNC LOWER MOLD**

The lower mold adopts the same core design, with high conversion efficiency between mold ports  
Customizable dual core 4-port design

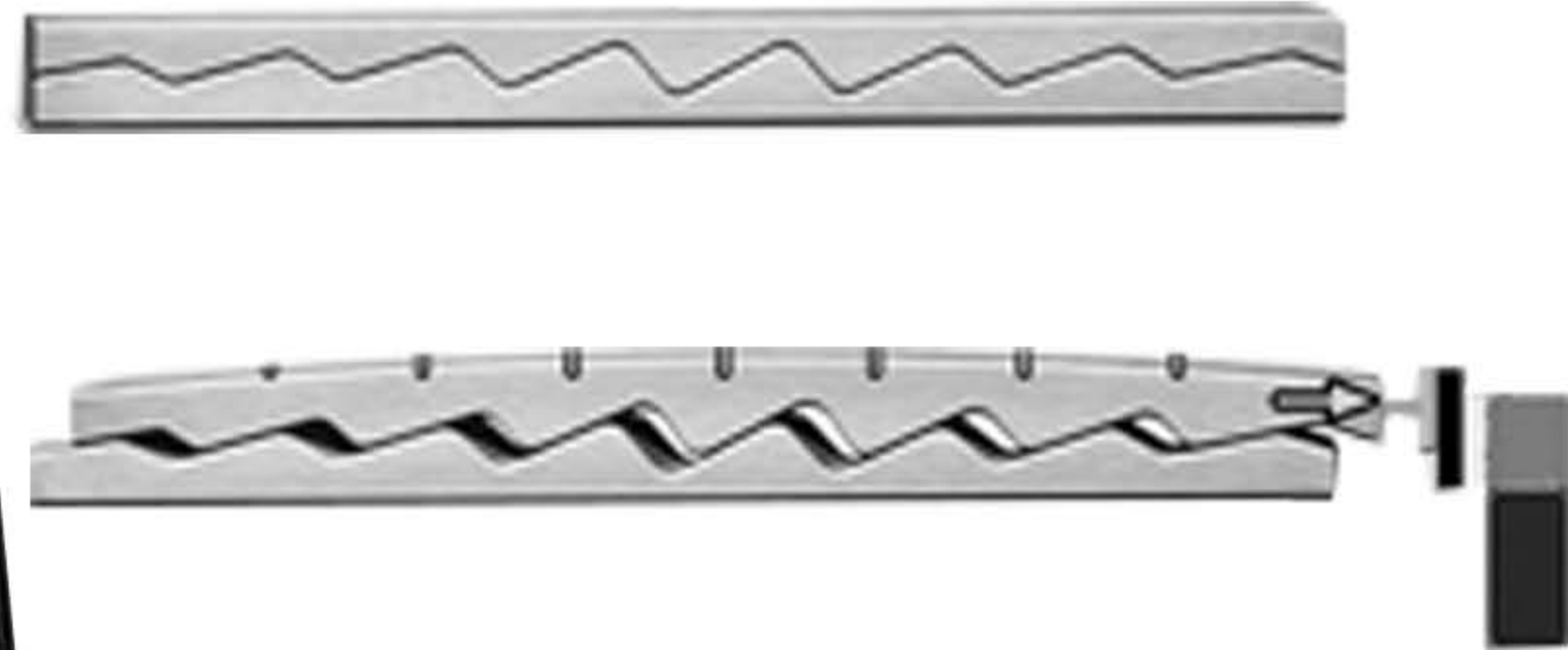




## CNC DEFLECTION COMPENSATION STRUCTURE

With deflection compensation structure, the Press brake has higher working accuracy and more accurate angle

There are two types of deflection compensation: mechanical and hydraulic, each with its own characteristics. Our company's mechanical deflection compensation



## MECHANICAL DEFLECTION COMPENSATION

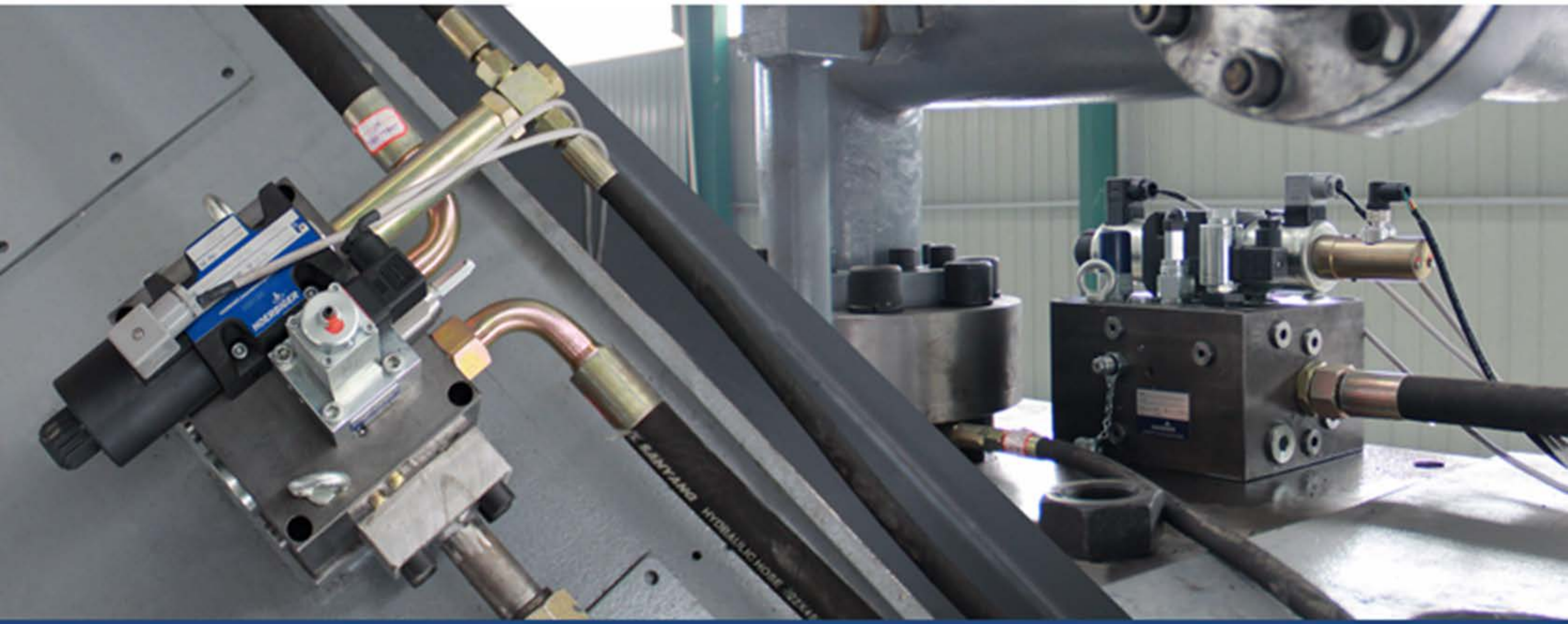
Made of high-strength steel with inclined blocks or nonlinear wave structures inside



# CNC PRESS BRAKE HYDRAULIC SYSTEM

## (ARGO IMPORTED FROM GERMANY)

Hisman adopts the Accord hydraulic proportional valve group, which has the characteristics of high temperature and high pressure resistance, high precision, dynamic high-speed response, sensitive control, wear resistance, and good compatibility.





# NUMERICAL CONTROL SYSTEM OF PRESS BRAKE (OPTIONAL)



**CYBELEC TOUCH 8**



**CYBELEC TOUCH 12**



**DELEM DA58T**

Integrated touch screen  
2D touch graphics programming  
15 "high-resolution TFT direct color display  
Bending process calculation  
Disturbance compensation control  
Servo and frequency converter control mode  
The Y-axis control method mentioned earlier can be used to control Closed loop valve, can also control open loop valve  
USB interface



**CYBELEC TOUCH 15**



**CYBELEC TOUCH VT19**



**DELEM DA53T**

Integrated touch screen electrohydraulic  
Shortcut Key Touch Navigation  
10.1 "High resolution true color TFT display screen  
Up to 4 axis control (Y1.Y2+2 auxiliary axes)  
Deflection compensation control  
With mold/material/stand up library  
Support servo or variable frequency control  
Advanced Y-axis control algorithm, which can control both Closed loop valve, can also control open loop valve  
Network dual machine linkage (optional)  
USB peripheral interface  
Profile-53TL offline programming software

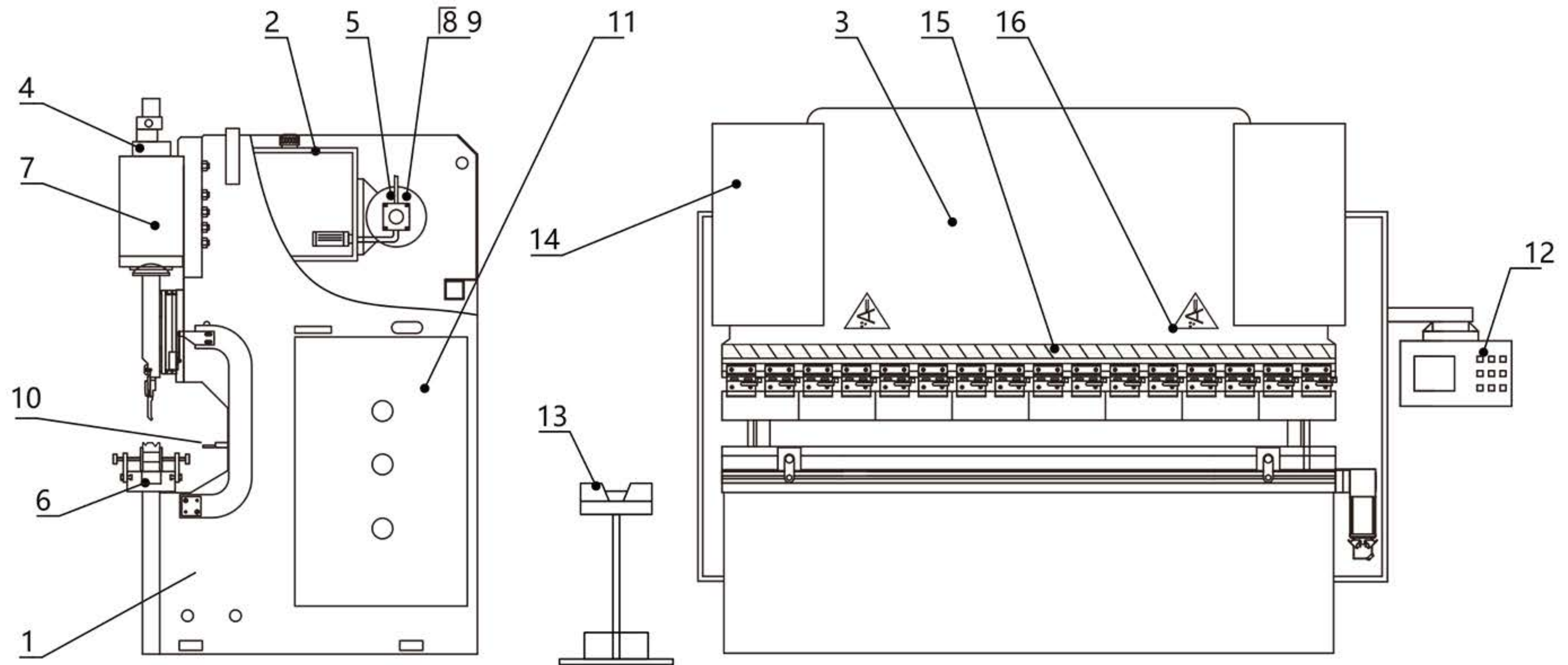


**DELEM DA66T**

Integrated touch screen electrohydraulic  
Shortcut Key Touch Navigation  
10.1 "High resolution true color TFT display screen  
Up to 4 axis control (Y1.Y2+2 auxiliary axes)  
Deflection compensation control  
With mold/material/stand up library  
Support servo or variable frequency control  
Advanced Y-axis control algorithm, which can control both Closed loop valve, can also control open loop valve  
Network dual machine linkage (optional)  
USB peripheral interface  
Profile-53TL offline programming software



# NAME OF MAIN COMPONENTS OF THE MACHINE



1. Wall panels

2. Fuel tanks

3. Slider

4. Synchronization blocks

5. Pressure block

6. Deflection compensation workbench

7. Main oil cylinder

8. Main motor

9. Oil pump

10. rear stopper

11. Electric control box

12. CNC system

13. Control station

14. cylinder cover

15. Safety signs



# Mechanical Compensation Of Electro-hydraulic Press Brake (Parameters)

Specification parameters (T/MM)	XSM 50/1500	XSM 80/2500	XSM 110/3200	XSM 130/3200	XSM 170/3200	XSM 220/3200
Nominal pressure	500KN	800KN	1100KN	1300KN	1700KN	2200KN
Workbench length	1500mm	2500mm	3200mm	3200mm	3200mm	3200mm
Column spacing	1200mm	2100mm	2700mm	2700mm	2700mm	2700mm
Slide stroke	165mm	165mm	205mm	205mm	205mm	205mm
Maximum opening height	420mm	420mm	460mm	460mm	460mm	460mm
Throat depth	250mm	250mm	400mm	400mm	400mm	400mm
Workbench height	850mm	930mm	930mm	930mm	930mm	930mm
Quick down speed	250mm/s	230mm/s	220mm/s	200mm/s	180mm/s	180mm/s
Slow down speed	10mm/s	10mm/s	10mm/s	10mm/s	10mm/s	10mm/s
Return speed	200mm/s	180mm/s	160mm/s	160mm/s	130mm/s	130mm/s
Main motor power	5.5kw	7.5kw	7.5kw	11kw	11kw	18.5kw
Fuel tank volume (liters)	180L	280L	300L	300L	400L	400L
Rear stopper X-axis travel	600mm	600mm	600mm	600mm	600mm	600mm
Overall dimensions (length * width * height)	1750*1350*2200mm	2800*1400*2500mm	3550*1650*2600mm	3550*1700*2600mm	3560*1700*2800mm	3600*1700*2800mm
Machine weight	3.7T	5.8T	7.8T	8.6T	10.8T	11.5T



# Mechanical Compensation Of Electro-hydraulic Press Brake (Parameters)

Specification parameters (T/MM)	XSM 250/3200	XSM 320/3200	XSM 400/3200	XSM 110/4000	XSM 130/4000	XSM 170/4000
Nominal pressure	2500KN	3200KN	4000KN	1100KN	1300KN	1700KN
Workbench length	3200mm	3200mm	3200mm	4000mm	4000mm	4000mm
Column spacing	2700mm	2600mm	2600mm	3300mm	3300mm	3300mm
Slide stroke	250mm	250mm	300mm	205mm	205mm	205mm
Maximum opening height	520mm	520mm	540mm	460mm	460mm	460mm
Throat depth	405mm	405mm	405mm	400mm	400mm	400mm
Workbench height	900mm	900mm	900mm	930mm	930mm	930mm
Quick down speed	140mm/s	130mm/s	120mm/s	220mm/s	200mm/s	180mm/s
Slow down speed	8mm/s	8mm/s	7mm/s	10mm/s	10mm/s	10mm/s
Return speed	100mm/s	100mm/s	90mm/s	160mm/s	160mm/s	130mm/s
Main motor power	18.5kw	22kw	30kw	7.5kw	11kw	11kw
Fuel tank volume (liters)	450L	500L	650L	350L	350L	450L
Rear stopper X-axis travel	600mm	600mm	600mm	600mm	600mm	600mm
Overall dimensions (length * width * height)	3560*1850*2900mm	3560*1850*2950mm	3560*2100*3200mm	4300*1650*2600mm	4300*1700*2600mm	4300*1700*2800mm
Machine weight	16.5T	17.6T	20.5T	8.8T	9.5T	11.5T



# Mechanical Compensation Of Electro-hydraulic Press Brake (Parameters)

Specification parameters (T/MM)	XSM 220/4000	XSM 250/4000	XSM 320/4000	XSM 400/4000
Nominal pressure	2200KN	2500KN	3200KN	4000KN
Workbench length	4000mm	4000mm	4000mm	4000mm
Column spacing	3300mm	3300mm	3200mm	3200mm
Slide stroke	205mm	250mm	250mm	300mm
Maximum opening height	460mm	520mm	520mm	540mm
Throat depth	400mm	405mm	405mm	405mm
Workbench height	930mm	900mm	900mm	900mm
Quick down speed	180mm/s	140mm/s	130mm/s	120mm/s
Slow down speed	10mm/s	8mm/s	8mm/s	7mm/s
Return speed	130mm/s	100mm/s	100mm/s	90mm/s
Main motor power	18.5kw	18.5kw	22kw	30kw
Fuel tank volume (liters)	450L	450L	500L	650L
Rear stopper X-axis travel	600mm	600mm	600mm	600mm
Overall dimensions (length * width * height)	4300*1700*2800mm	4360*1850*2900mm	4360*1850*2950mm	4360*2100*3200mm
Machine weight	12.8T	18T	19.6T	22T



# Mechanical Compensation Of Electro-hydraulic Press Brake (Parameters)

Specification parameters (T/MM)	XSM 170/6000	XSM 250/6000	XSM 320/6000	XSM 400/6000
Nominal pressure	1700KN	2500KN	3200KN	4000KN
Workbench length	6000mm	6000mm	6000mm	6000mm
Column spacing	5000mm	5000mm	5000mm	5000mm
Slide stroke	205mm	250mm	250mm	300mm
Maximum opening height	460mm	520mm	520mm	560mm
Throat depth	405mm	405mm	405mm	405mm
Workbench height	1250mm	1250mm	1250mm	1250mm
Quick down speed	180mm/s	180mm/s	130mm/s	120mm/s
Slow down speed	10mm/s	8mm/s	8mm/s	7mm/s
Return speed	110mm/s	100mm/s	90mm/s	80mm/s
Main motor power	15kw	22kw	26kw	30kw
Fuel tank volume (liters)	500L	580L	650L	750L
Rear stopper X-axis travel	600mm	600mm	600mm	600mm
Machine weight	18.8T	22T	28T	36T