



瑞铁机床

EPP

Electric Servo CNC Press Brake

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PROFESSIONAL/CONSISTENT/DEDICATED/EXCELLENT



Deratech Machine Tool (Suzhou) Corp., Ltd, a giant in the field of sheet metal forming and processing in China. Located in Taicang, Jiangsu Province, adjacent to Shanghai, the company mainly produces CNC press brakes, bending centers, laser cutting machines, flexible production units and other sheet metal forming processing equipment and equipment sets, and its products are well sold in domestic and abroad. With the continuous development of the company's business, all aspects of the company's strength are stepping up to a new level.

The company has always taken it as its mission to develop more cost-effective, durable and better sheet metal forming and processing equipment, to drive product iteration with technological advancement and drive enterprise development. In recent years, the products of Deratech have become more and more recognized by the industry and favoured by customers. With the successive launch of electric servo CNC press brakes and bending centers, the company will always focus on the perfection of its products to create more value for customers.

To date, Deratech has been granted over 100 patents (including 8 invention patents). It has been awarded as "Jiangsu Province Specialized and Sophisticated SMEs", "Jiangsu Province High and New Technology Enterprise", "Jiangsu Province Provincial Enterprise Technology Centre", "Jiangsu Province High-end sheet metal CNC machine tools strategic emerging industry standardization pilot", "Jiangsu Province intelligent flexible sheet metal equipment engineering research centre" and other titles, and participated in the CNC press brake national standards, industry standards revision and other work.

Driven by the target of "Made in China 2025", Deratech will continue to move forward and work hard. Growing up with customers and staying with them for a long time is Deratech's faithful commitment to customers.



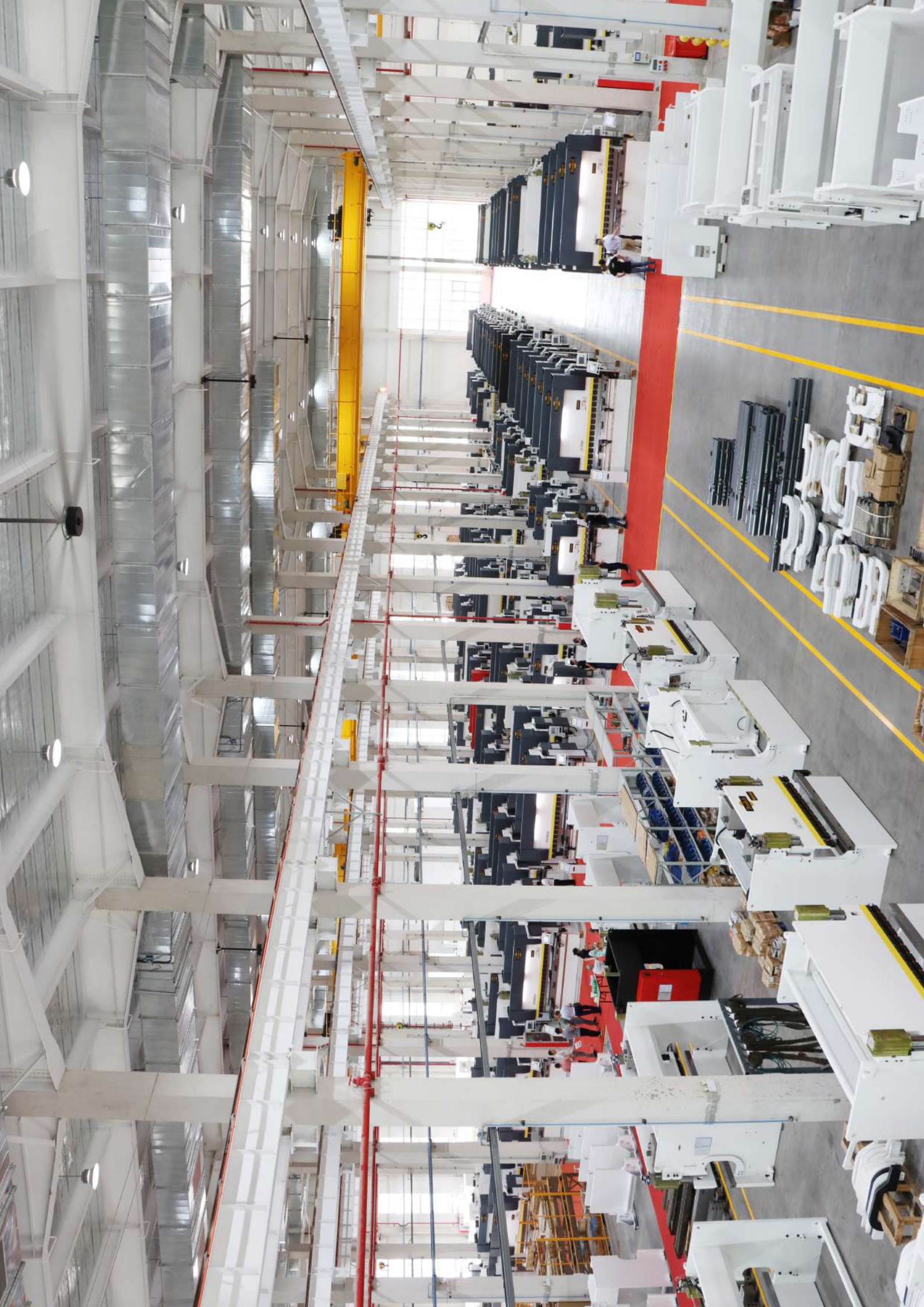
DeraTECH

瑞铁和序

苏州瑞铁激光科技有限公司  
DeraTech Laser Technology (Suzhou) Corp. Ltd.

DeraTech

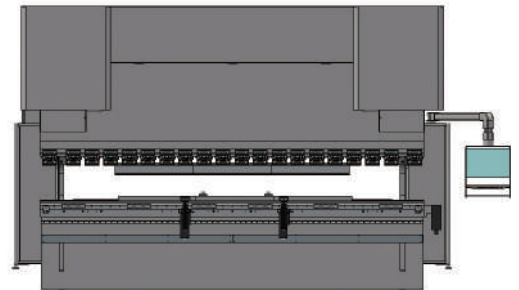




# EPP Electric Servo CNC Press Brake

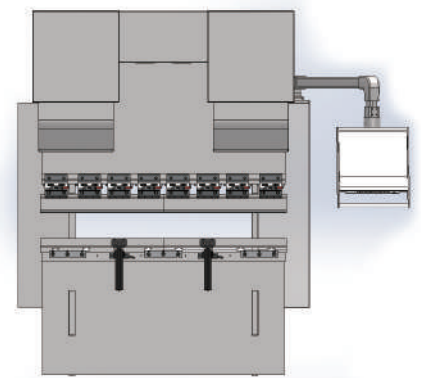


EPP-130/4100 model



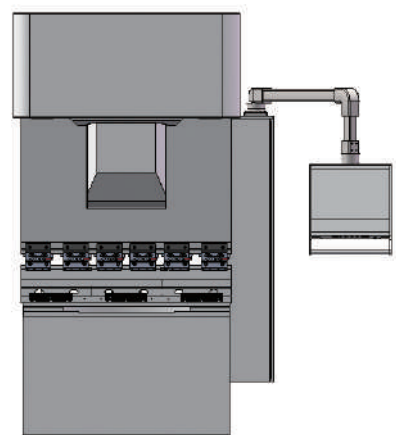


EPP-50/1650 model





EPP-30/1250 model



#### **Invention Patent No.: ZL202011465863.8**

With advanced design concept, equipped with its own invention patent multi-drive combination type transmission structure technology, energy-efficient, environmentally friendly, high-precision new generation of Electric Servo CNC Press Brake.

#### **Energy Efficiency**

Electric Servo CNC Press Brake main motor output power is almost equal to the load power, mechanical transmission efficiency of up to 95%, the slider no-load return power consumption is small, energy-saving significant. On the contrary, relying on hydraulic oil as the energy transfer medium of the hydraulic Press Brake, in addition to oil temperature rise high oil temperature will cause energy loss, while the main motor idle when the slider is not working also cause a certain amount of power loss, but also because of the hydraulic system parts for a long time wear loss of transmission efficiency caused by long time wear of hydraulic system parts.

#### **Environmental**

The electric technology does not need hydraulic oil, there is no pollution problem of waste oil and waste liquid at all.

#### **High Efficiency**

Electric Servo CNC Press Brake's fast and slow change over and lower dead point positioning are controlled by servo motor and screw, which makes the whole working process more responsive and doubles the efficiency.

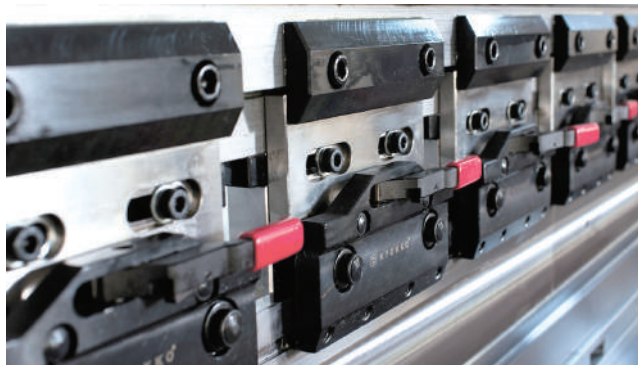
#### **High Precision**

Hydraulic press brakes will affect the operation of the hydraulic system as the oil temperature rises, which leads to a reduction in repeat positioning accuracy, while the electric servo CNC press brakes rely on servo motors and screw drive the slider up and down and positioning, the screw drive will not generate high heat, more ensure the accuracy of a long and stable.



### Quick-Clamping Device

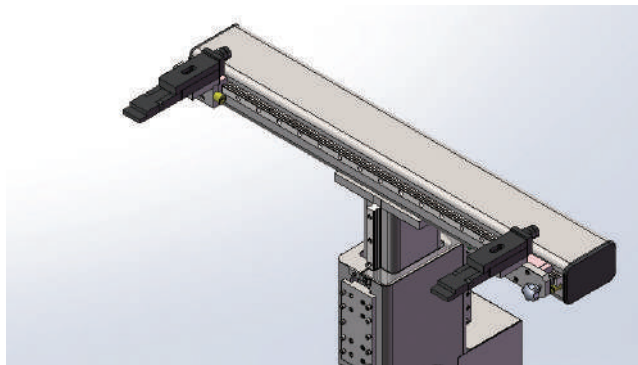
Equipped with precision quick clamps, it can realize the tooling from the bottom of the clamps and side to side installation and replacement, can effectively reduce the tooling replacement time, improve production efficiency and have a larger load capacity.



### Easy Backgauge Structure

Standard for 30-50 ton model

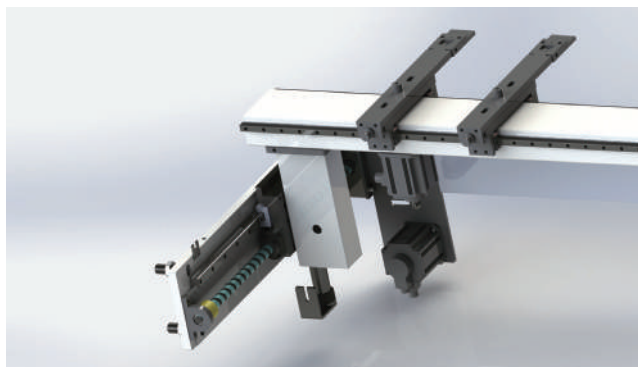
Novel and unique design structure, multi-stage stop design, extended positioning range.



### Stable Backgauge Structure

Standard for 60-160 ton model

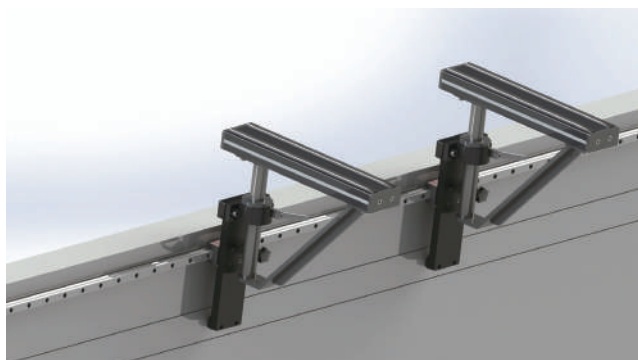
Double linear guide structure to ensure the best positioning accuracy. Multi-stage stop design to increase the positioning range.



### Removable Front Pallet

Standard for 100-130 ton model

The pallet can follow the linear guide to move and can be stopped at any position.



### Fixed Pallet

Standard for 50-70 ton modelmodel

Lightweight and streamlined, easy to move.



### Mechanical Compensation Device

Controlled by CNC system to ensure the bending accuracy is always stable.



### Detection Unit

With a resolution of up to 5um, extremely high simultaneous detection rates can be obtained.



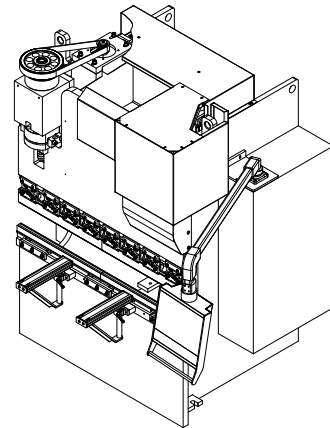
### Self-Lubricating System

The lubrication system composed of electric lubricating oil pump and quantitative dispenser can reduce the friction and prevent the wear of the screw by injecting the appropriate amount of lubricating oil into the lubrication point of the precision transmission parts of the ball screw at regular intervals and in proportion. At the same time, it can prevent the corrosion of the surface of the screw, and seal the dust, and prolong the service life of the screw.



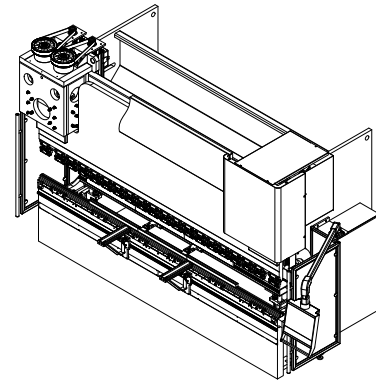
### Special Connection Mechanism Between Upper Slider And Screw

The left and right ball screw is closely connected with the frame through the bearing seat, and the slide plate is hinged with the screw nut through the nut seat and spherical pad, which can be adjusted with the self-lubricating function of the rectangular guide sub-link, and the upper slide plate can greatly avoid the damage or even breakage of the ball screw due to mechanical or electrical failure caused by the upper slide tilt or bias load, which protects the ball screw and ensures the smooth operation of the machine.



### Multi-Drive Combined Transmission Structure Technology

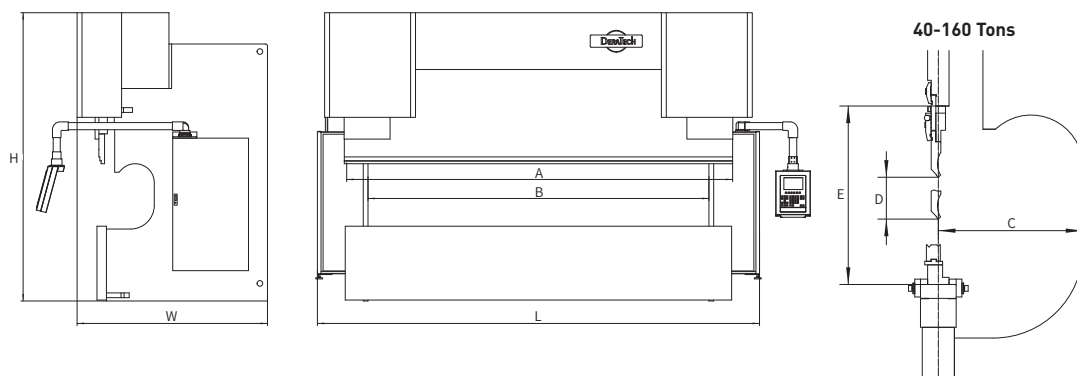
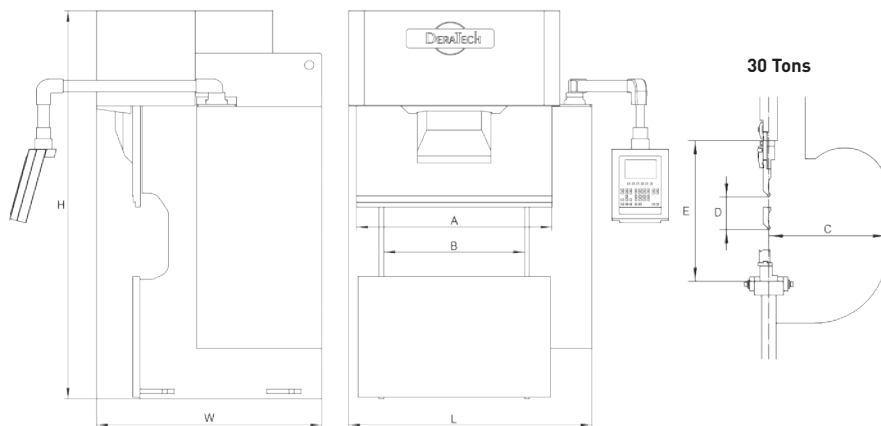
Due to the impact of load, deformation, bias load and other factors, electric servo press brakes are mostly small tonnage, to achieve larger tonnage across there are still certain technical bottlenecks, we will be the first multi-drive combined drive structure technology application, significantly improve the press brakes payload, further broadening the scope of application of electric servo technology in the sheet metal bending industry.



# CNC SYSTEM

## DH15P CNC Press Brake System

- 15" high performance touch screen controller
- 6+1 axes as standard
- High-speed real-time EtherCAT bus for easy expansion
- High bending accuracy
- Good energy efficiency
- High speed and efficiency
- Suitable for precision bending of small workpieces
- Automatic system lubrication setting
- Self-integrated handwheel
- 4 USB 2.0 ports
- One RS485 serial port
- Powerful axis expansion without hardware upgrade, up to Supports up to 10 axes
- System capacity 4GB DDR3L + 64GB SSD
- 24V DC power supply



## PARAMETERS - EPP

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Model	Force (kN)	A	B	C	D	E					Max Speed (mm/s)			Dimensions (mm)			Weight (kg)
											Max. bending length (mm)	Distance between uprights (mm)	Throat depth (mm)	Cylinder stroke (mm)	Opening height (mm)	Main power (kW)	
EPP-30/1250 ★	300	1250	900	200	180	430	19.3	1.1	450	100	200	0-30	200	1650	1450	2610	3500
EPP-40/1300 ★	400	1300	900	300	200	470	2×15.7	2.3	450	100	200	0-30	200	1880	1610	2490	4400
EPP-50/1650 ★	500	1650	1200	300	200	470	2×19.3	2.4	450	100	200	0-30	200	2180	1610	2490	4800
EPP-60/2050 ★	600	2050	1700	300	200	470	2×24.1	2.6	450	200	200	0-30	200	2680	1610	2560	5400
EPP-70/2500	700	2500	2000	300	200	470	2×24.1	2.7	450	200	200	0-30	200	2990	1610	2545	6800
EPP-110/2500	1100	2500	2000	400	250	525	4×19.3	3.9	600	200	200	0-30	200	3000	1860	3035	10200
EPP-110/3200	1100	3200	2700	400	250	525	4×19.3	3.9	600	200	200	0-30	200	3900	1860	3035	11600
EPP-110/4100	1100	4100	3600	550	250	540	4×19.3	3.9	600	200	200	0-30	200	4800	2010	3050	13500
EPP-130/2500	1300	2500	2000	400	250	525	4×24.1	4.8	600	200	200	0-30	200	3000	1860	3035	10300
EPP-130/3200	1300	3200	2700	400	250	525	4×24.1	4.8	600	200	200	0-30	200	3900	1860	3035	11700
EPP-130/4100	1300	4100	3600	550	250	540	4×24.1	4.8	600	200	200	0-30	200	4800	2010	3050	13900
EPP-130/5100	1300	5100	4600	550	250	540	4×24.1	4.8	600	200	200	0-30	200	5600	2010	3050	17000
EPP-130/6100	1300	6100	5600	550	250	540	4×24.1	4.8	600	200	200	0-30	200	6800	2010	3120	19200
EPP-160/2500	1600	2500	2000	400	250	525	4×24.1	4.8	600	200	150	0-30	150	3000	2000	3150	11800
EPP-160/3200	1600	3200	2700	400	250	525	4×24.1	4.8	600	200	150	0-30	150	3900	2000	3150	13200
EPP-160/4100	1600	4100	3600	400	250	525	4×24.1	4.8	600	200	150	0-30	150	4800	2000	3150	15500
EPP-160/5100	1600	5100	4600	400	250	525	4×24.1	4.8	600	200	150	0-30	150	5600	2010	3200	19000
EPP-160/6100	1600	6100	5600	400	250	525	4×24.1	4.8	600	200	150	0-30	150	6800	2010	3250	21000

No mechanical compensation device for the model table with ★

**DERATECH**

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