



PBH Series

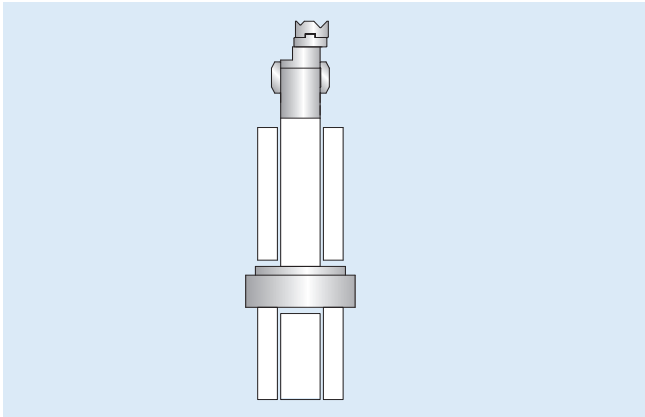
High Speed CNC Press Brake

- High frequency response valve control technology, high speed, high efficiency, and high precision
- Balancing valve control technology, less overflow and lower oil temperature, more stable and reliable performance
- Optimized parameters and configurations, more functions while easier to operate

PBH Series Hydraulic Control Technology

Multiple Configurations Flexible Combinations

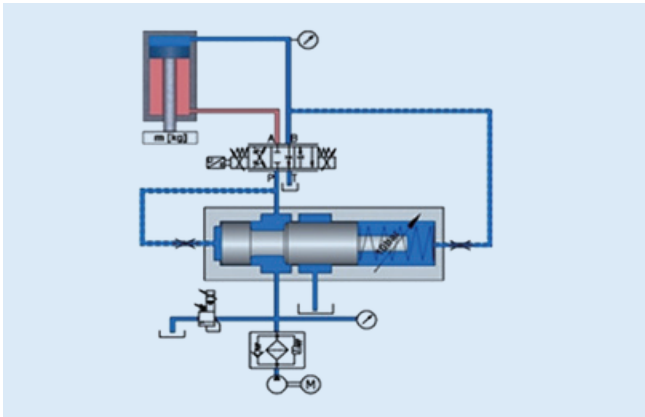
Crowning Compensation



Hydraulic Crowning Technology (Standard)

- Hydraulic crowning system is composed of a group of hydraulic cylinders under the worktable, which enables a relative movement of the worktable to form a convex curve to make sure the relative position between the ram and the worktable remains unchanged after the worktable is under pressure. The crowning compensation value is calculated automatically by CNC according to the thickness of the sheet, the opening of the lower die, and other material properties

Balancing Control



Pressure Differential Balancing Control Technology (Standard)

- Pressure differential balancing system can control the overflow of the hydraulic system in advance to effectively control the temperature of the hydraulic system, which helps for a long-term stabilized operation of the machine

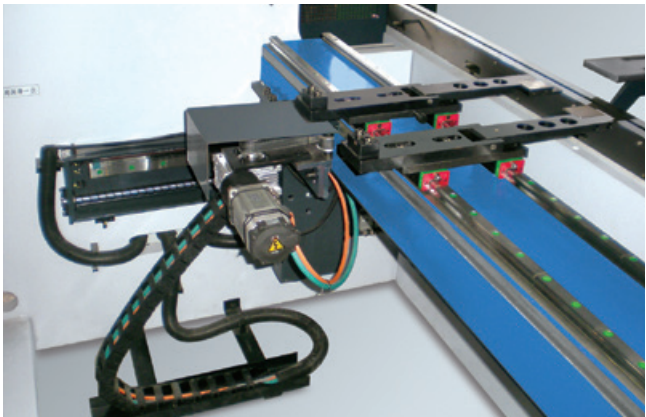
Control Technology



High Frequency Response Control Valve Technology (Standard)

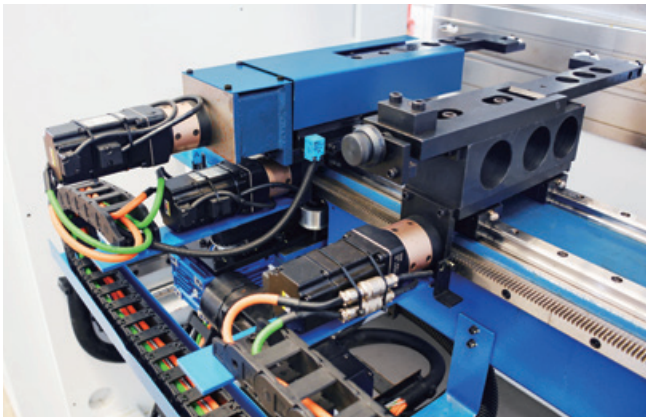
- Thanks to the high frequency response proportional valve, the synchronization precision of Y1 and Y2 in high speed operation is largely improved for higher bending efficiency

Backgauge



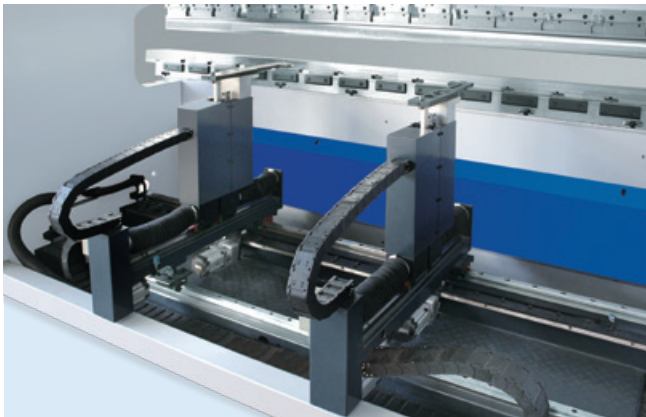
Dual-linear Guide Backgauge (Standard)

- Axis: X, R
- CNC axis is driven by AC servo motor, moved with precise ball screw, guided by linear guide



5-axis Backgauge (Option)

- Axis: X, R, Z1, Z2, X1
- Suitable for positioning of complicated workpiece, as well as workpiece with inclined plane



6-axis Backgauge (Option)

- Axis: X1, X2, R1, R2, Z1, Z2
- Suitable for positioning of complicated workpiece, as well as workpiece with inclined plane

Multiple Configurations
Flexible Combinations

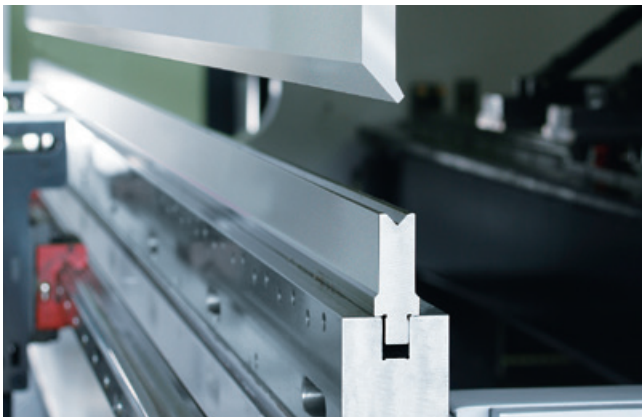
Outstanding Parameters
Extraordinary Performance

Lower Die Clamping



2-V Structure Die (Standard)

- 2V-T type fast clamping enables a fast change of lower die



1-V Clamping (Option)

- 1-V clamping is used for high precision 1-V lower die. Fast change of lower die. 1-V lower die is narrow in width, very suitable for complicated flanging bending

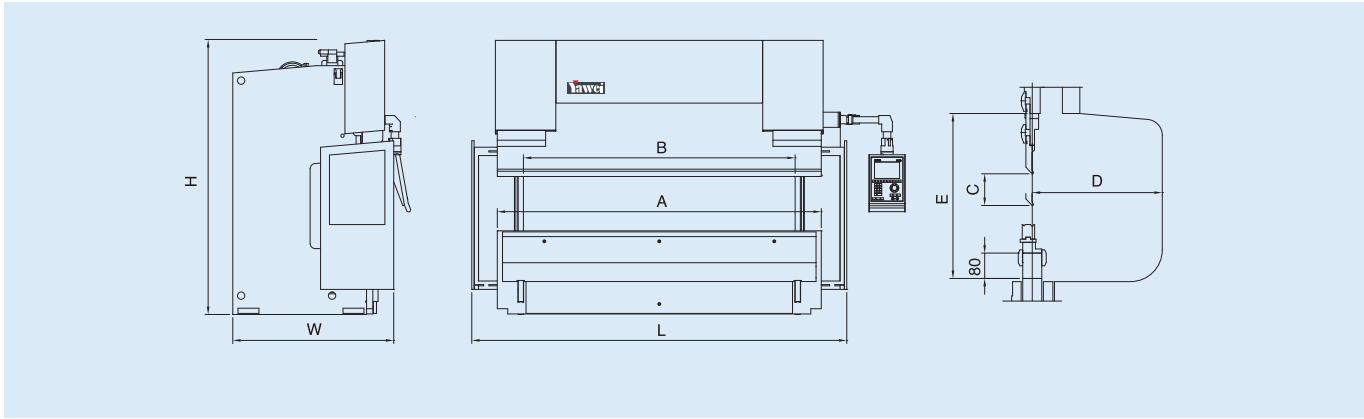
Bending Help



Mechanical Servo Bending Help (Option)

- The sheet support of the bending help can follow up the sheet when it is in the bending process. The follow-up angle and speed are automatically calculated and controlled by CNC. Bending help can be moved along the linear guide

Technical Parameters



Model	Bending force	Bending length A	Distance between uprights B	Throat depth D	Ram stroke C	Die setting height E	Ram speed			Main motor power	Oil tank volume	Overall dimension LxWxH				Weight
	kN	mm	mm	mm	mm	mm	mm/s			kW	L	mm				kg
PBH-80/2550	800	2550	2150	350	175	480	200	14	170	7.5	230	3140	1540	2450	6500	
PBH-110/3100	1100	3100	2600	410	215	520	200	14	160	11	300	3610	1550	2620	8800	
PBH-110/4100		4100	3600								360	4610		2670	11000	
PBH-160/3100	1600	3100	2600	410	215	520	160	11	140	15	380	3630	1600	2670	10300	
PBH-160/4100		4100	3600								430	4630		2720	12500	
PBH-220/3100	2200	3100	2600	410	215	530	130	10	120	18.5	400	3650	1850	2735	12800	
PBH-220/4100		4100	3600								500	4650		2935	16000	
PBH-250/3100	2500	3100	2600	410	215	530	120	9	105	18.5	400	3650	1850	2735	13000	
PBH-250/4100		4100	3600								500	4650		2935	16200	
PBH-300/3100	3000	3100	2600	410	265	580	120	9	100	22	450	3310	1890	2980	16000	
PBH-300/4100		4100	3600								600	4310		3080	19000	