

Pursuit of Excellence, Insistence to Innovation

CNC PRESS BRAKE MACHINE

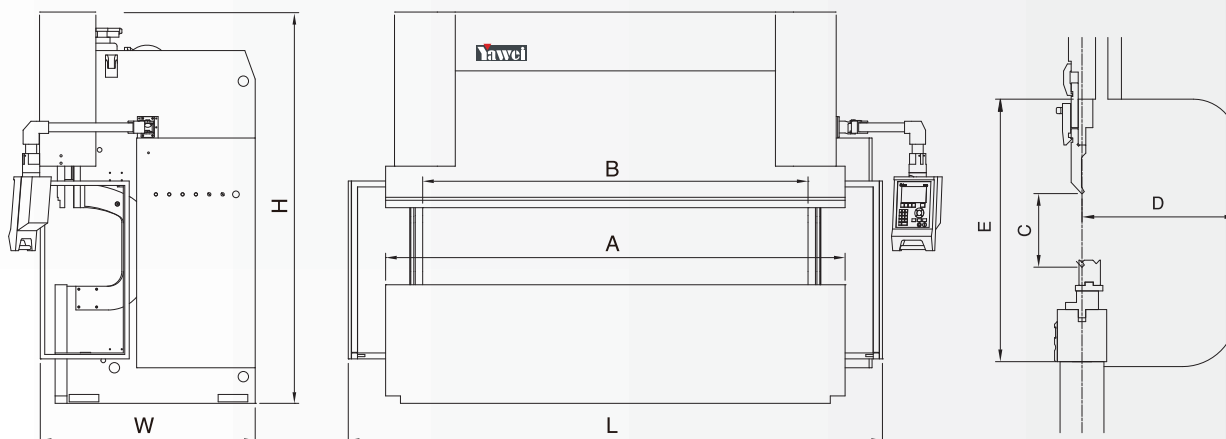
MODEL : PBA-160/3100



TECHNCIAL PARAMETERS

SPECIFICATION

Bending force	1600 kN
Bending length	3100 mm
Distance between uprights	2600 mm
Slider stroke	215 mm
Mould setting height	550 mm
Throat depth	410 mm
X-axis travel	500 mm
R-axis travel	200 mm
Maximum running speed of slider	200 mm/s
Maximum running speed of rear gauge X axis	400 mm/s
Slider repeat positioning accuracy	0.01 mm
Back gauge X- axis repeat positioning accuracy	0.02 mm
Power supply rated voltage	380 V
Number of phases	3 Mutually
frequency	50Hz
Main motor power (servo)	11.3 kw
Volume	300 L
Machine weight	8600 Kg
Machine tool dimensions (L × W × H)	3630×1525×2780 mm



PERFORMANCE CHARACTERISTICS

HIGH SPEED CNC PRESS BRAKE

- ▶ New craftsmanship design with simple style and beautiful appearance
- ▶ Excellent parameter ratio, excellent core configuration, stable performance, easy operation
- ▶ High rigidity frame and automatic control of mechanical compensation of worktable to achieve precision bending processing
- ▶ Main servo motor drives the oil pump, energy-saving and fast
- ▶ Trustworthy Yawei quality, stable and reliable
- ▶ High quality bending operations to all types of workpieces
- ▶ Automatic worktable mechanical crowning system, closed-loop control

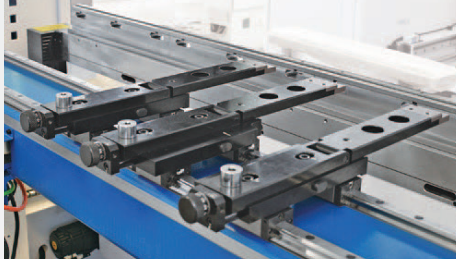
SUMMARY FEATURES

HIGH SPEED CNC PRESS BRAKE

- ▶ High rigidity machine frame, automatic worktable mechanical crowning control reaching high precision bending operations
- ▶ Main motor adopts servo motor to drive oil pump, save about 40% energy than normal electro-hydraulic press brakes
- ▶ Hydraulic system is from HAWE, Germany, a full loop electric-hydraulic proportional servo control (complete set means that pressure valves block, synchronizing valves block, prefill valves block are all imported); oil pump is HAWE, Germany, The main motor is domestic brand of servo motor.
- ▶ Equipping with domestic mechanical crowning system (CNC controlled)
- ▶ Adopt A-type of backgauge, equips with two axis (X-R), the backgauge beam can move integrally up and down, X-axis: stroke=500mm, speed=400mm/s; R-axis: stroke=200mm, speed=60mm/s; X-R axis are driven by AC servo motor, moved with ball screw-shaft, guided by linear guide. Equips with three finger-stops which can manually move leftward and rightward along the dual linear guides
- ▶ Equips with mechanical fast clamps (can take out the punch from the bottom side), die installation adopts 2V+T quick change type, includes one set of domestic standard tooling;
- ▶ DELEM DA53Tx Control system
- ▶ Upper tooling: one set of 10.105 515mm*5+515mm segment with ear horn
- ▶ Lower die: 20.259 515mm*6 ▶ Add one more finger stops totally 4 pcs ▶ 11.Throat: 410mm
- ▶ Die setting: 550mm ▶ Ram stroke: 215mm

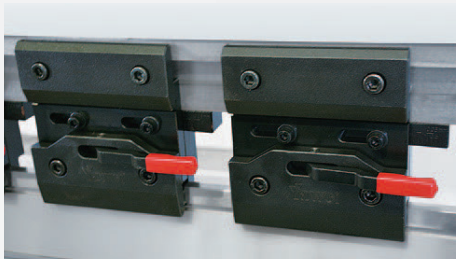
EXTENSIVE CONFIGURATIONS

FLEXIBLE COMBINATIONS



Backgauge Standard Backgauge (Standard)

- ✓ CNC axis is driven by AC servo motor, moved with precision ball screw and guided by linear guide rail



Upper Tool Clamping Mechanical Fast Clamping for Upper Tool (Standard)

- ✓ Mechanical fast clamping enables a fast change of upper tool
- ✓ It allows the upper tool to be installed from the front side



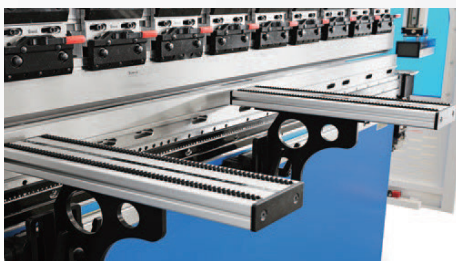
Lower Die Clamping 2-V Clamping for Lower Die (Standard)

- ✓ 2-V T-shaped fast clamping enables the fast change of lower die



Crowning Compensation Mechanical Crowning Device (Standard)

- ✓ Mechanical crowning device can be adjusted automatically according to the instruction of CNC programming



Front Sheet Support Moving Along Linear Guide (Option)

- ✓ Front sheet support moving leftward and rightward along linear guide, height can be manually adjusted up and down (machine model $\geq 2550\text{mm}$)
- ✓ Special models excepted



Laser Safety Guard Guarding Device (Option)

- ✓ CNC and safety controller can communicate and monitor the machine operations in real time to effectively protect the fingers and arms of the operator

MULTIPLE CONFIGURATIONS

FLEXIBLE COMBINATIONS

FUNCTION FEATURES

- ✓ Color LCD display, 15" widescreen TFT
- ✓ More than 2000 program and mold storage spaces
- ✓ Data storage via USB
- ✓ One-page parameter rapid programming
- ✓ Automatic calculation of worktable crowning compensation
- ✓ 2D programming, 3D/2D simulation
- ✓ Automatic calculation of bending force and tooling safety zone
- ✓ Online running analysis tool
- ✓ Angle correction database (option)
- ✓ System diagnosis function
- ✓ Up to six axis control (Y1, Y2, four auxiliary axis)



NCY840R CNC Controller (Standard)

FUNCTION FEATURES

- ✓ 15.6" full-color high-brightness TFT-LCD display.
- ✓ 1920*1080 high-resolution widescreen display
- ✓ Touch operation with gloves
- ✓ Tandem linkage communication interface is standard
- ✓ Quad-core processor at 1.8GHz.
- ✓ 4GB of running memory and 16GB of internal storage capacity
- ✓ Robot bending control signal is standard
- ✓ 2D graphics programming and display
- ✓ Support graphic or data-based large arc programming bending
- ✓ With diagnostic analysis function
- ✓ USB data backup/recovery



NCY840 CNC Controller (Option)

FUNCTION FEATURES

- ✓ 15.6" TFT color display wide touch screen
- ✓ 4-axis control is standard, which can be extended to 6 axis
- ✓ 2D graphics programming and display (option)
- ✓ Internal storage capacity is 1GB.
- ✓ Online running analysis tool
- ✓ Network tandem linkage
- ✓ Internally integrated valve amplifier
- ✓ Automatic calculation of worktable crowning compensation
- ✓ Automatic calculation of bending force and tooling safety zone
- ✓ Optional network interface, Mes data acquisition
- ✓ System diagnostic function
- ✓ Linux operating platform ensures the stability of system operation and supports instant shutdown



DA53TX CNC Controller (Option)



Website



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