

ELECTRIC HYDRAULIC CNC PRESS BRAKE



Electric Hydraulic CNC Press Brake is a modern sheet metal bending machine designed to deliver high-precision results by combining hydraulic power, electrical systems, and CNC (Computer Numerical Control) technology. It is capable of forming various materials such as steel, stainless steel, and aluminum with consistent angle accuracy, even in large-scale production.

 **STABLE & POWERFUL**

 **ENERGY EFFICIENT**

 **HIGH PERFORMANCE**

ELECTRIC HYDRAULIC CNC PRESS BRAKE

PB-CNC100T2500



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Overall Structural Features

- European-inspired design with a sleek, streamlined appearance.
- Monoblock welded steel frame constructed from high-tensile ST44 A1 material, ensuring exceptional rigidity and resistance to deflection.
- Features the DELEM DA53TX user-friendly control interface, delivering comprehensive press brake functionality with intuitive operation.
- Automatic tonnage and stroke adjustment for precise bending angles, enabling perfect results through simple angle input and machine operation.

Hydraulic System (Y1, Y2 Axis)

- Fully electric servo-synchronized CNC control with a closed-loop electro-hydraulic servo system for superior performance.
- Hydraulic components supplied by Bosch Rexroth (Germany), ensuring reliability and precision through full electric-hydraulic proportional servo control.
- Cylinder seals from NOK (Japan), guaranteeing continuous rated load operation with high stability and accuracy.
- Complies with Directive 98/37 EC and current international hydraulic standards.

Electrical System

- Electrical cabinet rated IP55 for full dust and water protection; all components meet CE safety standards.
- Enhanced operational safety through protective fencing, safety interlocks, and a movable single-hand foot pedal.

Synchronization Control System

- High-precision bending achieved via GIVI optical linear encoders, maintaining Y1/Y2 axis synchronization within ± 0.01 mm.
- Full electronic synchronization using proportional valve technology, continuously monitored and corrected by the DELEM DA53TX CNC system for unmatched accuracy and repeatability.
- Supports separate programming of Y1 and Y2 axes for ram tilting, enabling cone-shaped workpiece bending.

Back Gauge (X, R, Z1, Z2 Axes)

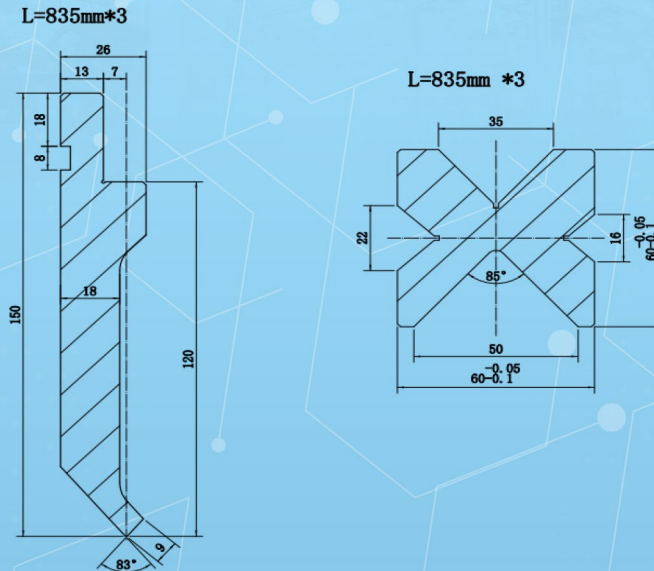
- Multi-axis precision back gauge driven by ESTUN servo motors and drives.
- X-axis offers rapid positioning up to 800 mm/sec with ± 0.05 mm accuracy.
- HIWIN linear guides ensure smooth, high-speed movement.
- Manual Z1 and Z2 axes allow flexible and automated adjustments.

CNC Crowning System (V-Axis)

- Integrated active crowning system compensates for beam deformation during bending, ensuring consistent angles across the entire sheet.
- Symmetrical tool adaption enables easy reversibility and quick die clamping.

Punch and Dies

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DA53TX CNC Controller

- The compact DA-53TX offers a complete CNC solution for press brakes, featuring a user-friendly touch screen interface. Its self-learning database and free material programming simplify setup and operation, enabling efficient machine configuration.
- Housed in a robust cabinet, the DA-53TX retains Delem's intuitive interface, displayed on a color LCD TFT screen. Programs can be stored in subdirectories for quick and organized access.
- Standard control functions include Y1-Y2 and X axes, with an optional second back gauge axis configurable as R or X2. Crowning functionality is built-in. Leveraging the latest technology, the CNC system ensures high reliability and includes a USB interface for easy data backup and transfer via external storage devices.
- The modern user interface supports clear and fast programming, with offline capabilities through DA Offline solutions such as Profile-on Windows.

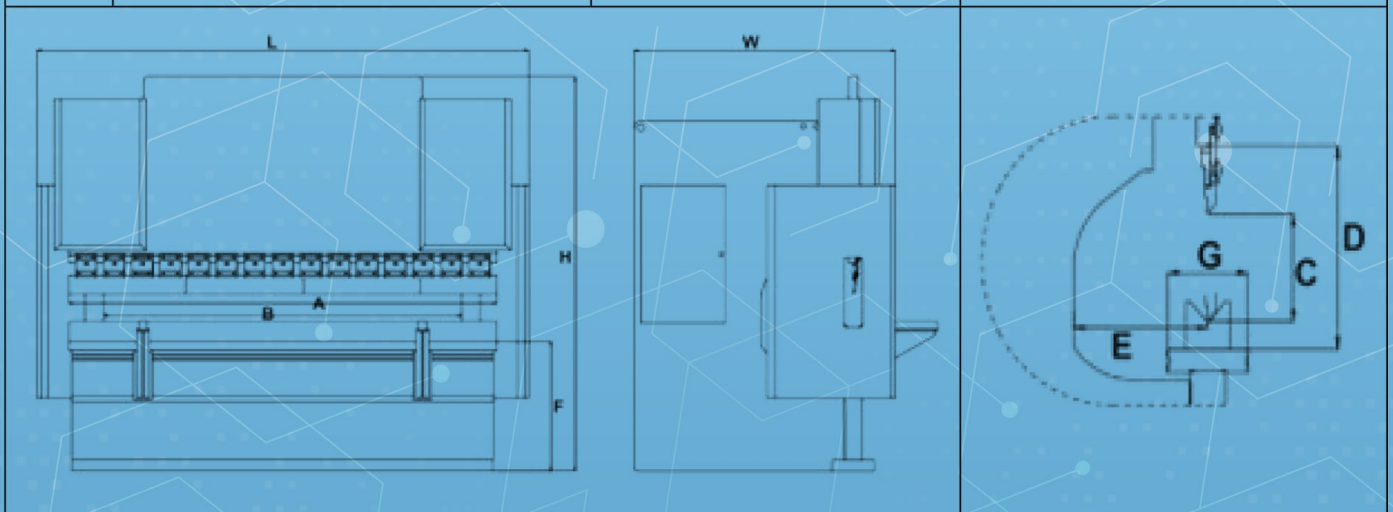
Key Features:

- Numerical programming
- 15.6" LCD TFT color display
- Integrated crowning control
- USB connectivity
- Supports servo, frequency inverter, and AC control
- Advanced Y-axis algorithms for both closed-loop and open-loop valves
- Tool library: 30 punches, 60 dies
- Data backup and restore via USB
- Power-down memory retention







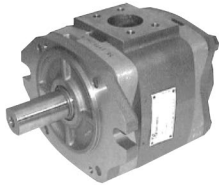



Technical parameter

No.	Item	Value	Unit
1	Model	PB-CNC100T2500	
2	Nominal pressure	1000	KN
3	Length of working table (A)	2500	mm
4	Distance between upright (B)	2150	mm
5	Throat depth (E)	350	mm
6	Stroke (C)	200	mm
7	Open height (D)	450	mm
8	Working table height (F)	850	mm
9	Travel for X-axis	600	mm
10	Motor power	75	KW
11	Gear pump	16	L
12	Work speed	Fast down	130
		Work	12
		Return	110
13	N.w/G.w	5500/5700	Kg
14	Dimension	2850x1550x2450	mm
15	Packing size	2900x1650x2500	mm



Standard accessories

No.	Name	Quantity	Brand	Picture
1	DA53Tx CNC controller	1Set	Delem (Netherlands)	
2	Hydraulic system	1Set	Rexroth (Germany)	
3	Main Motor	1Set	SIEMENS INNOMOTICS	
4	Servo motor	2Sets	Estun (Domestic)	
5	Main electric parts	1Set	Schneider	
6	rating ruler	2Sets	GIVI MISURE (Italy)	
7	Gear pump	1Set	Domestic	
8	Hydro-cylinder (Y1, Y2 axis)	2pieces	Domestic	

9	Sealing rings	1Set	NOK CO.	
10	Ball screw	1Set	Domestic	
11	Fast wedge clamping tool	12Pcs	Domestic	
12	Punch and dies	1Set	Domestic	
13	CNC Crowning System (V axis)	1Set	Domestic	
14	Removable front support arms	2 Sets	WMT	
15	Manual Back-gauge finger stopper	2 Sets	WMT	
16	CE Light curtain	1Set	WANNER	

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HIGH PERFORMANCE

The Whole Structure of Press Brake

- Totally European design, streamlined looking, Monoblock, Welded steel frame rigid to deflection moment and high tensile with ST44 A1 material.
- WMT PRESS BRAKE is Equipped with the Estun user-friendly interface, the E21 provides all main press brake functionality.
- Automatic tonnage and stroke adjustment for bending angles. Perfect bending results with easy angle input and operation of machine.

Hydraulic System

- Adopt integrated hydraulic control system, more reliable and easy for maintenance. Hydraulic system is from Rexroth, Germany.
- All pipes, flange and joint with vibrations proof and leakage proof design and setting .
- All seals in cylinder is DZ from Taiwan, the most famous brand, good quality and high performance.
- Overload overflow protection is outfitted to hydraulic system, which can assure no leakage, and the oil level can be read or seen directly.
- The hydraulic system is made in compliance with current regulations.

Electrical System

- Electrical Cabinet under the standard of IP55, Electrical under international CE Standard, safe and reliable, strong anti interference capability.
- Protective fence and the safety interlock to ensure the operation safety. Have a movable single-hand pedal switch, easy to operate.
- Front Side Covers, Back light safety guards, Foot pedal conforming to CE regulation.

Synchro Control System

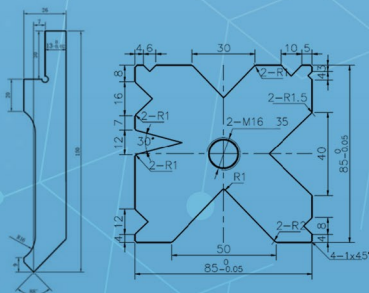
- Patented hydro-mechanical system for exact parallelism and a high repeat accuracy.
- The worktable adopts the particular design, reducing the crowning distortion amount of lower tool effectively.
- Adopt steel torsion bar synchro system, simple in structure and high in accuracy, ensures the parallelism between beams is used for the synchronism.

Back Gauge

- Back gauge fingers with two gauging steps used one for short and the other for long bending depths.
- Back Gauge positioning fingers move along linear bearings with ± 0.10 mm. positioning tolerance.

Punch and Dies

- The equipped standard Dies, special non-standard mold is available under client's requirement according to real workpiece situation.
- Upper and bottom die can be sectioned according to customer's requirement.



E21 NC Controller

- Back gauge and block control
- Control for AC motors, frequency inverter
- Intelligent positioning
- Stock counter
- Holding/decompression time setting
- Program memory of up to 40 programs, up to 25 steps per program
- One side positioning
- Retract function
- One key backup/restore of parameters
- mm/inch
- Chinese/English

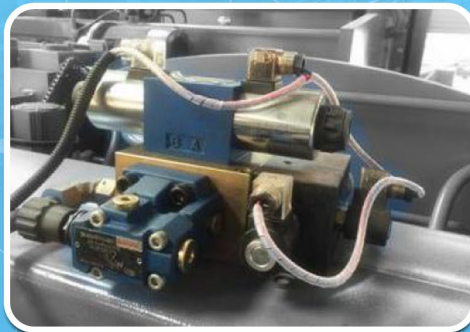


Technical parameter

No.	Item	Value	Unit
1	Model	PB-NC100T2500	
2	Nominal pressure	1000	KN
3	Length of working table	2500	mm
4	Working table height	800	mm
5	Distance between upright	2100	mm
6	Thickness of uprights	50	mm
7	Throat depth	320	mm
8	Stroke	120	mm
9	Open height	380	mm
10	Motor power	7.5	KW
11	Gear pump	16	L
12	N.w/G.w	5200/5500	KG
13	Dimension	2650x1450x2250	mm
14	Packing Size	2700x1600x2300	mm



Main Motor



Hydraulic valves



Gear pump



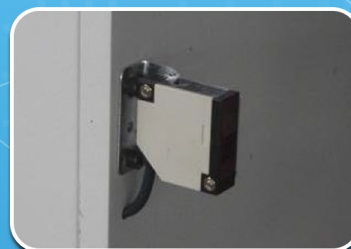
Dies and mould



Quick release tool (optional)



Safety light curtain (optional)



Safety guard

Technical parameter

No.	Name	Quantity	Brand
1	E21 NC controller	1Set	Domestic
2	Hydraulic system	1Set	Rexroth (Germany)
3	Main Motor	1Set	INNOMOTICS
4	Main electric parts	1Set	Schneider
5	Gear pump	1Set	Domestic
6	Hydro-cylinder	2 pieces	Domestic
7	Ball screw	1Set	Domestic
8	Punch and dies	1Set	Domestic
9	Variable frequency drives	1Set	Domestic

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