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# QOUTOTION SHEET

Golden quality accompanies you



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CNC HYDRAULIC PRESS BRAKE





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# HS Series

## CNC Electro-Hydraulic Press Brake

**The high advanced CNC solution.**

- Model: HS Series
- Control: DA53T
- Capabilities: 110T/3200 4+1axis



**Hydraulic CNC Press Brake with DA53T System**

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## General Features

- The whole frame of the press brake adopts integrated welding, and by tempering to eliminate the internal stress.
- The controller can control the Y1 and Y2 axes (Y1 controls the left cylinder and Y2 controls the right cylinder) to ensure the synchronous movement of the ram.
- Quiet during speed waiting and fast descent (about 25 decibels), with low noise during pressing and return (the pressure in the hydraulic system is under the closed - loop control of the servo main motor).
- The main oil pump does not apply work under the drive of the servo main motor, and the energy consumption is 60% lower than that of a general CNC press brake machine.
- The machine oil temperature is stable, which extends the service life of various components of the hydraulic system.
- The working pressure and flow rate of the hydraulic system are controlled by the servo motor in real time, and the power consumption is only 50 - 60% of the original proportional system.
- The hydraulic oil used is only 30 - 40% of that in the original system.
- Due to the increased speed of the servo motor, the oil pump outputs a larger flow rate, so that the speed of the cylinder can reach 180 - 200 mm/s, and the production efficiency is thus greatly improved.
- The number of bends is increased by at least 30% within the same period of time.



## Controlle

RELIABLE & EXPERIENCED CHOICE FOR PRESS BRAKE CONTROL

## Netherlands DELEM DA53T

Through the quick and convenient process from programming to production, the time for machine adjustment and test bending is minimized.

The new - generation DA 53T series, based on the existing Delem touch screen user interface, offers the most convenient CNC programming. With the new DA 53T featuring a large screen, it becomes a new member of the full - range solutions for electro - hydraulic bending machines.



### --DA53T System

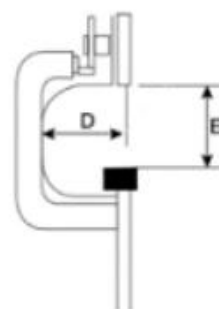
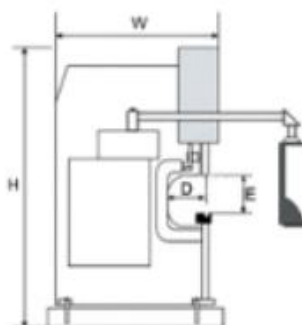
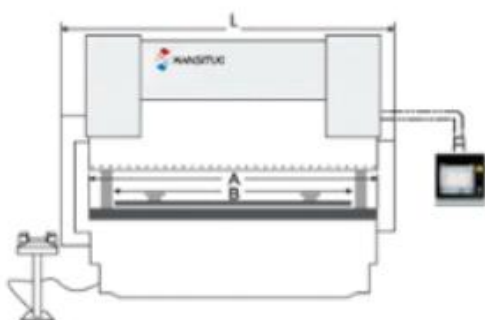
- "Hot-key" touch navigation
- 10.1" high resolution colour TFT
- Up to 4 axes (Y1,Y2 + 2 aux. axes)
- Crowning control
- Tool / material / product library
- Advanced Y-axis control algorithms for closed-loop as well as open-loop valves
- Servo and frequency inverter control
- TandemLink (option)
- USB memory stick interfacing
- Profile-T offline software

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## Basic Parameters

No.	Items	Unit	Parameters
	Model	HS-110TX3200 DA53T	
1	Pressure	KN	1100
2	Bending Length	mm	3200
3	Column Distance	mm	2700
4	Max Opening Height	mm	E=480
5	Throat Depth	mm	D=410
6	Y1, Y2 Stroke	mm	200
7	Y1, Y2	No loading	260
		Pressing	18
		Returning	220
8	X axis stroke	mm	600
9	X axis max moving speed	mm/s	200
10	R axis stroke	mm	160
11	R axis max moving speed	mm/s	75
12	Machine accuracy	Y1Y2 slider repeat accuracy	$\leq \pm 0.01$
		Y1Y2 slider positioning accuracy	$\leq \pm 0.01$
		X, R back gauge repeat positioning accuracy	$\leq \pm 0.05$
		Workpiece straightness	$\leq 0.3\text{mm}/1000\text{mm}$
		Bending angle error range	$\pm 0.25^\circ$
13	Main Motor Power	KW	11
14	Size	mm	L*W*H(mm) 3850x1850x2600
15	Weight	KG	8500



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## Standard Components

Part Name	Brand
System Program	DELEM DA53T
Hydraulic Valve	Germany Bosch-Rexroth / Germany HAWE (Hoerbiger)
Grating Ruler	Italy GIVI / Spanish Fagor
Oil Pump	United States FIRST
Oil Cylinder	China Heyan
Main Electrical Components	France Schneider
Ball Screw	Taiwan HIWIN
Oil Seal	Japan NOK
Bearing	Japan NSK
Servo Drive / Servo Motor	China Inovance
Crowning	WILA standard Motorized Crowning
Clamps	AMADA Standard Quick Clamp
Tubing Connector	Germany JS/EMB

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