

## High Precision 4+1 Axis Hydraulic Synchronize Servo Bending Machine 3200mm

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: genuo
- Certification: M.2019.206.C3862
- Model Number: HSC PRO - 63T/80T/100T/125T/160T/200T/250T/400T
- Minimum Order Quantity: 1
- Price: negotiable
- Packaging Details: carton box
- Delivery Time: 90 days
- Payment Terms: L/C, T/T, D/P, D/A
- Supply Ability: 1 Set/Sets Every 15~35 days



### Product Specification

- Machine Name: Hydraulic Synchronize Servo CNC Bending Machine
- Bending Material: Metal .Stainless Steel .Aluminum. And So On
- Controller: ESA/DELEM/CYBELEC
- CNC Control System: CYBELEC CybTouch 15, ESA 875W, Delem DA-69T
- Voltage: 220V/380V/415V/440V/customized
- Color: Customer Choose
- Main Motor: SIEMENS Main Motor
- Machine Hydraulic System: Bosch Rexroth Germany System
- Machine Parts: GENUO Fast Punch Clamps
- After-sales Service Provided: Online Support Video Technical Support
- Value-added Services: Presented Two Years Warranty
- Length Specification: 1250/1600/2500/3200/4000/5000/6000
- Highlight: High Precision hydraulic bending brake,



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## Product Description

### High Precision 4+1Axis Hydraulic Synchronize Bending Machine 3200mm CNC Press Brake

#### → Product Introduction:

The Genius Pro HSC series CNC press brake is based on the validated design of the Genius series. The Y1 and Y2 axis are feedback in real-time through advanced servo proportional valves and Linear encoders, ensuring high bending accuracy and stability. The high-precision back gauge system with large stroke and 4-axis can achieve flexible bending dimensions and angles. The machine automatically calculates pressure, protrusion, and unfolding dimensions based on the length and thickness of the workpiece. While continuing the excellent performance of the former, it is equipped with a more powerful CNC controller. The advanced 2D graphics programming function, automatic calculation, and step demonstration combined with the upgraded multi axis back gauge can handle more complex and irregular workpiece bending. Higher configuration machines make machine operation simpler and more efficient. This is a CNC bending machine that integrates precision and high intelligence. 40T~500T and 4~20ft optional.

#### → Product Feature:

1. Innovative and integrated servo pump control technology;
2. Integrated hydraulic system and stainless steel tank;
3. Significantly reduce excess overflow and improve operating speed;
4. Minimal oil and energy, precise slider control and operation;
5. Advanced motion technology and quiet operation;
6. Flexible features and options;
7. Can save more than 50% energy.

#### → Machine Application:

Hydraulic CNC Press Brake - It is a sheet metal forming machine designed for cold rolling sheet metal processing, widely used in automobile, aircraft manufacturing, light industry, shipbuilding, container, elevator, railway vehicles and other industries of sheet metal bending processing. With advanced motion technologies and impressively quiet with the most flexible features and options, the Genius pro is one of the choices in creating complex parts.. 40T~800T optional.

#### → Product Configuration:

Standard Equipment:	Feature:
◆ Delem DA-66T 7-Axis CNC Control	◇ CYBELEC CybTouch 15, ESA 875W, Delem DA-69T
◆ High-yield steel mono-block frame	◇ Main servo motor SVP control(Energy conservation)
◆ Precision Y1, Y2 axis synchronous Ram positioning	◇ DSP or Keli Lasersafe protection guard
◆ Accurate heavy-duty X,R,Z1,Z2 axis back gauge	◇ CNC sheet follower front support device.
◆ Auto V axis motorized CNC crowning system	◇ Lasercheck angle detection feedback device
◆ European-style punch and 4V/2V/1V Dies	◇ WILA type top and bottom tool clamping system
◆ Fast punch clamps and movable sliding front support	◇ Fully automatic bending robotic cell
◆ SIEMENS main motor, Sunny pump, Schneider Electric	◇ Automatic rail and screw lubrication system
◆ BOSCH Rexroth hydraulic system, GIVI linear encoder	◇ Bending tools management cabinet or trolley
◆ EMB ferrule type pipe connector, NO,K sealing rings	◇ Single/Tandem/Trio optional

#### → Machine :

# CNC PRESS BRAKES

Closed-loop Proportional Control



BOSCH Rexroth hydraulic system

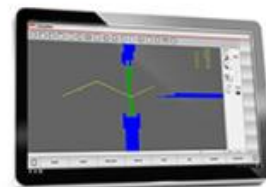


Genuo Press Brake Tools  
And Fast Clamps

4 Axis Back Gauge (X,R,Z1,Z2)

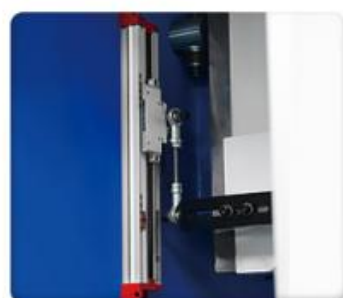
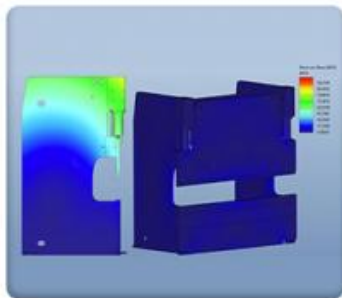
Delem DA-66T  
7-Axis CNC Control

## CNC Controller



<p>◎ <b>Delem DA-66T</b></p> <p>3D and 2D graphical touch screen programming with 17" high resolution color TFT. Full Windows application suite.</p> <p>DA-66T is applicable to all synchronized series bending machines of GENIUS, ECO-GREEN and GAINTE.</p> <p>Up to 8+1 axes control (Y1-Y2, X1, X2, R1, R2, Z1, Z2 and Crowning)</p>	<p>◎ <b>CYBELEC CybTouch 15</b></p> <p>CybTouch 15 PS is a 2D numerical control specifically dedicated for entry to mid-range CNC press brakes up to 6 axes.</p> <p>The CybTouch 15 PS features an intuitive touch screen user interface, offering a high integration of functionalities, User-friendly, easy to operate, simply powerful and userfriendly.</p>	<p>◎ <b>ESA VIS-875W</b></p> <p>Ultra-large 21" TFT LCD Full HD Multitouch screen both of all 3D Cad-Cams and of any type of machine up to the incredible limit of 128 axes. industrial integrated PC with Windows 10 operating system, high-power Intel i5 3.2 Ghz CPU with 8 Gb of RAM. own Virtually unlimited bi-board connectivity and expandability</p>
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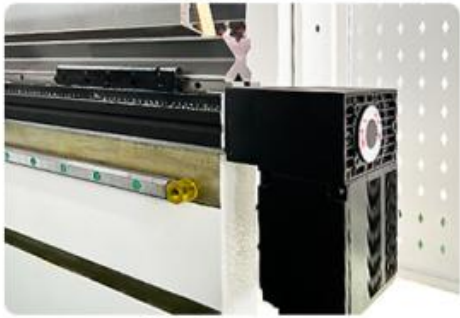
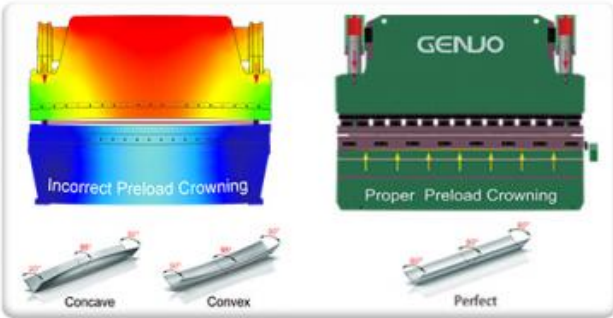
## Structure Details



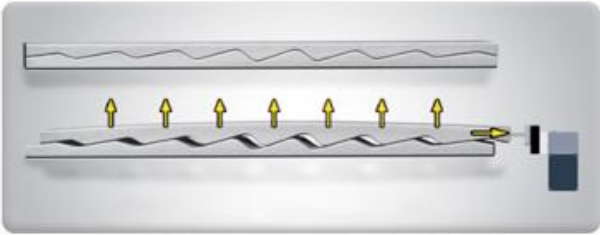
<p>▼ <b>Rigid Frame Construction</b></p> <p>GENUO have vast experience with R&amp;D and designing components to very tight tolerances with SOLIDWORKS, CAD modelling techniques, and that CAE, ANSYS, SOLIDWORKS used as the method to analyze the linear static construction, stress and deformation for machine frames. So for complicated structures, highly complex loadings and transient modelling. The foundation of all GENUO press brakes is a solid, monoblock frame made from high-yield steel.</p>	<p>▼ <b>Tooling And Clamping</b></p> <p>GENUO provides a variety of tooling solutions to meet your different production needs. Not only that, we are also experts in the field of bending tools. If you have any special bend, our engineers will customize special tools for each workpiece, which greatly expands your press brake function and revenue. To help greatly improve your productivity and business benefits.</p>	<p>▼ <b>Linear Encoder Feedback</b></p> <p>The deformation is measured accurately and compensated by feedback method. The accuracy can be achieved uM level.</p>
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## Auto Crowning Systems



## CNC Motorized Crowning



Standard on GENIUS, ECO-GREEN, GAINT,  
Optional SMART, ESAY



### CNC Hydraulic Crowning

To confirm a constant bend angle, manual or CNC crowning is essential which will offset potential deviations and allow for possible tooling wear to maintain parallel contacting surfaces. CNC crowning systems allow the press brake control to be pre-programmed with machine characteristics and deflection data. Adjust the calculate and setting accordingly for different characteristics of different materials.

## Optional Configuration



**Servo Pump Control Technology**  
Main servo motor SVP can controls the power stroke and bending force.



**LASER Safety Guards**  
Protect press brake operator from  
accidental danger



### Auto Tool Clamping System

WLA clamping system efficiently changes hydraulic and pneumatic tools



**CNC Sheet Follower**  
Suitable for all kinds of large metal sheet,  
reduce the workload of heavy lifting



### Angle Measuring System

Measures workpieces and regulates the angle, reduce your materials consumption



### Bending Robotic Cell

Realize unmanned reliable bending production around the clock. More safe and efficient.

— HSC PRO Technical Specification —

		A	B	D	E	C			

Model	Nominal Pressure	Length of Table	Distance Between Columns	Throat Death	Open Height	Ram Strokes	Motor Power	Approx Weight	Overall Dimension
	(KN)	(mm)	(mm)	(mm)	(mm)	(mm)	(kw)	(kg)	(L x W x H) (mm)
40T/1600	400	1600	1300	300	420	150	4	3000	1950*1750*2350
63T/2500	630	2500	2000	320	420	150	5.5	4800	2850*1750*2350
80T/2500	800	2500	2000	350	480	200	7.5	5800	2850*1850*2450
100T/2500	1000	2500	2000	400	480	200	7.5	6500	2850*1850*2500
100T/3200	1000	3200	2700	400	480	200	7.5	8500	3850*1850*2600
125T/2500	1250	2500	2000	400	480	200	7.5	7600	3000*1850*2500
125T/3200	1250	3200	2700	400	480	200	11	9000	3850*1850*2600
125T/4000	1250	4000	3200	400	480	200	11	10000	4610*1850*2600
160T/3200	1600	3200	2700	400	480	200	11	10500	3900*1900*2600
160T/4000	1600	4000	3200	400	480	200	11	12000	4650*1900*2700
200T/3200	2000	3200	2700	400	480	200	15	12000	3900*1900*2700
200T/4000	2000	4000	3200	400	480	200	15	14000	4700*1900*2800
200T/5000	2000	5000	4000	400	480	200	15	18000	5800*1900*2900
200T/6000	2000	6000	4900	400	480	200	15	22000	6800*1900*3000
250T/3200	2500	3200	2700	400	520	250	18.5	14500	3900*2100*2800
250T/4000	2500	4000	3200	400	520	250	18.5	16500	4700*2100*2900
250T/5000	2500	5000	4000	400	520	250	18.5	20000	5800*2100*3000
250T/6000	2500	6000	4900	500	520	250	18.5	24000	6500*2100*3100
320T/3200	3200	3200	2700	400	520	250	22	17000	4000*2100*3000
320T/4000	3200	4000	3200	400	520	250	22	20000	4800*2200*3200
320T/5000	3200	5000	4000	500	520	250	22	25000	5800*2200*3400
320T/6000	3200	6000	4900	500	520	250	22	30000	6500*2200*3600
400T/4000	4000	4000	3200	500	600	320	30	26000	4800*2400*3500
400T/5000	4000	5000	4000	500	600	320	30	32000	5500*2400*3600
400T/6000	4000	6000	4900	500	600	320	30	38000	6500*2400*3800
500T/4000	5000	4000	3200	500	600	320	37	30000	4800*2600*3600
500T/5000	5000	5000	4000	500	600	320	37	39000	5500*2600*3800
500T/6000	5000	6000	4900	500	600	320	37	50000	6500*2600*4000



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