



## GENIUS HSC Ultra Series CNC Hydraulic Press Machine 9 Axes

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: genuo
- Minimum Order Quantity: 1
- Price: negotiable
- Packaging Details: carton box
- Payment Terms: L/C, T/T, D/P, D/A



### Product Specification

- Brand: GENUO
- Product Name: Genius Ultra
- Type: CNC Press Brake
- Axes: 9
- Control System: Powerful CNC Control
- Back Gauge System: 6-axis
- Programming Software: Innovative Software For Offline Programming
- Flexibility: All 6-axis Rear Gauges Can Independently Position Each Other
- Production Speed: Fastest Production Speed
- Finger Positioning: 3D (X, R, Z)
- Optimization: Stable Finger Position To Optimize Post Gauge Adjustment
- Safety Features: Laser Guards
- Overall Description: World-class CNC Press Brake With High Benchmark Performance

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# PRESS BRAKES

## GENIUS HSC-Ultra Series



Standard Equipment	Optional Equipment
◆ Delem DA-66T CNC Control	◇ Delem DA-69T, CYBELEC VT19 MX, ESA 875W
◆ High-yield steel mono-block frame	◇ Main servo motor SVP control(Energy conservation)
◆ Precision Y1, Y2 axis synchronous Ram positioning	◇ CNC sheet follower front support device
◆ Accurate X1,X2,R1,R2,Z1,Z2 axis back gauge	◇ Laser check angle detection feedback device
◆ Auto V axis motorized CNC crowning system	◇ WILA type top and bottom tool clamping system
◆ European-style punch and 4V/2V/1V Dies	◇ Fully automatic bending robotic cell
◆ Fast punch clamps and movable sliding front support	◇ Bending tools management cabinet or trolley
◆ BOSCH Rexroth hydraulic system,GIVI linear encoder	◇ Special heights, Daylight, Throat Depth are available
◆ SIEMENS main motor,Sunny pump,Schneider Electric	◇ 63~500 Tons and 8~20ft Bending Lengths options
◆ DSP or Keli Lasersafe protection guard	◇ Single/Tandem/Trio optional

### Machine Core Advantage

The new generation of DA-Touch controls offers a higher level of efficiency in terms of programming, operation and control, with ease of use combined with state-of-the-art technology for increased productivity.

- DA-69T offers 2D and 3D graphics touch screen programming, including automatic bend sequence calculation and collision detection;
- Complete Windows application suite and embedded operating system;
- Efficient control algorithm to minimize setup time;
- 3D visual simulation and production using press brakes is easier, more efficient and more versatile.



Top version controller

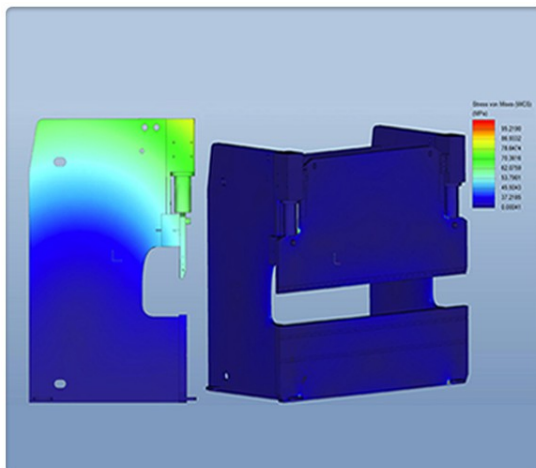
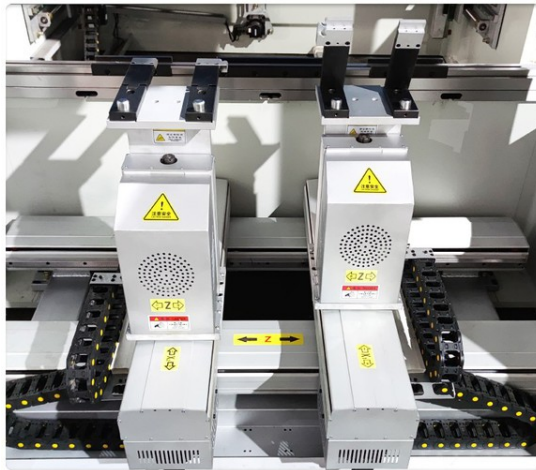


### LASER Safety Guards

DSP LASER protects the press brake operator from the danger of crushing that can take place accidentally between the moving part of the machine and the fixed one. It assures to carry out the machine working cycle penalizing its execution time in the least.



## Structure Details

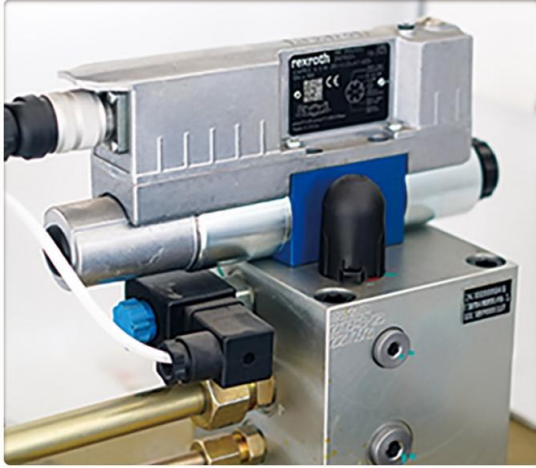


#### ▼ Master servo pump control technology

The hydraulic press drive ePrAX @modular adapted to the special requirements of drives for CNC press brakes. All required components can be assembled according to the modular principle. The exible arrangement allows an optimal use of the mounting space. For each actuator a servo motor takes over the control of power stroke and fast stroke as well as bending force. High dynamics with significant energy savings and shorter cycles, the operating noise of the press brake is drastically reduced by each adapted speed.

#### ▼ Rigid Frame Construction

GENUO have vast experience with R&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.



#### ▼ Proportional Control

The deformation is measured accurately and compensated by feedback method. The accuracy can be achieved  $\mu\text{m}$  level.

#### ▼ Linear Encoder Feedback

German Bosch Rexroth integrated "hydraulic system block", hydraulic transmission with high reliability , integrated hydraulic system can effectively alleviate the problem caused by leakage of hydraulic fluid.



Siemens Motors



Schneider Electrical



Bosch Rexroth Hydraulics



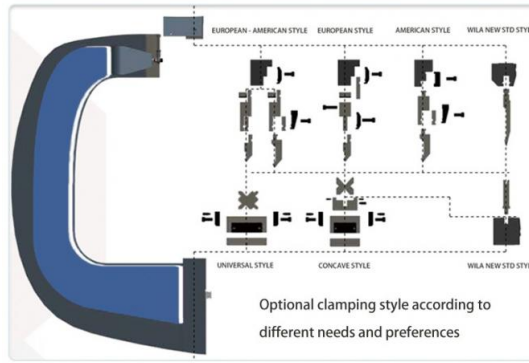
Sunny Gear Pump

### Tooling and Clamping

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.

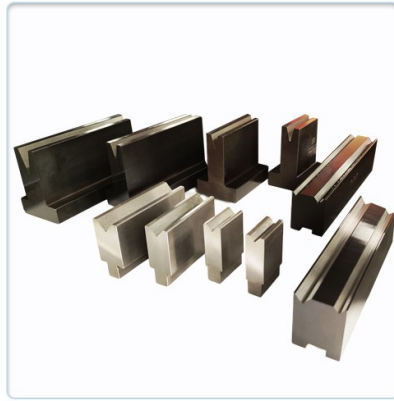
To help greatly improve your productivity and business benefits.



EURO Style Clamping System  
and Tools are optional



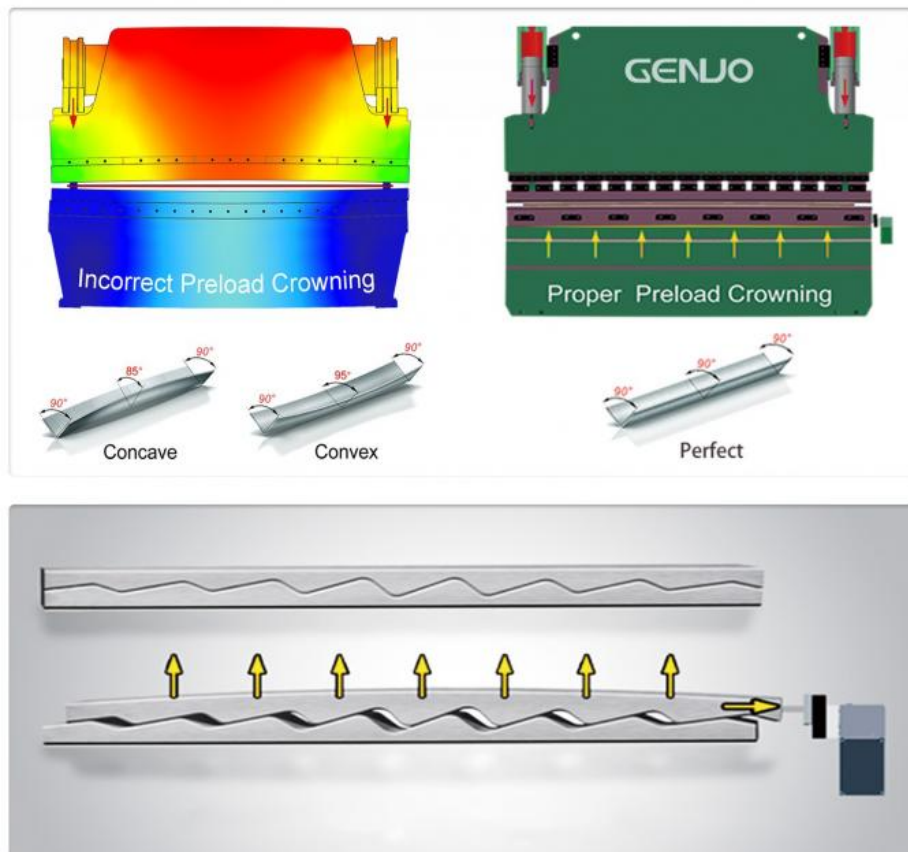
GRPH One-Key Quick Release  
Clamps are standard on.



1V Die Standard on Mutil-V,  
4V/2V Dies are optional.

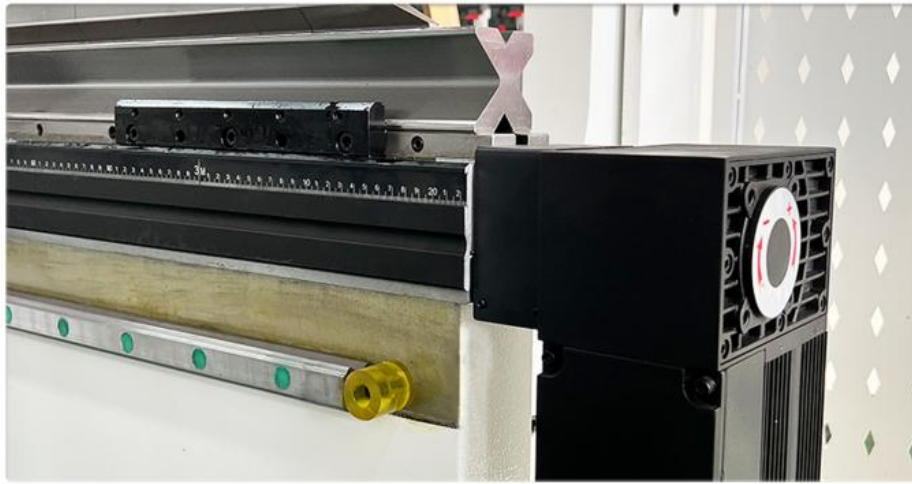
### Auto Crowning Systems

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 defection data. Adjust the calculate and setting accordingly for different characteristics of different materials.



All CNC Press Brake above 1600mm are equipped as standard.





CNC Motorized Crowning

## Optional Configuration



### Servo Pump Control Technology

The main servo motor SVP can controls the power stroke, fast stroke, and bending force. It can significantly reduce idle overflow and noise of actuator, suppress oil temperature rise, and ensure continuously stable operation. Modular structure makes installation more flexible and consumes less hydraulic oil (save 40% energy in comparison to standard press brakes)

### Auto Tool Clamping System

WILA'S state of the art Clamping systems can offer the ultimate solution when it comes to efficiently changing tools both hydraulical and Pneumatic. Accuracy and ergonomics have been coordinated to realize the highest level of productivity.





### CNC Sheet Follower

This CNC bending support suitable for all kinds of large sheet metal, especially thin metal sheet. Perfect to maintain synchronization with the sheet during the bending process, which lightens the operators work moving heavy pieces, improves bending efficiency and reduces operator risk.

### Angle Measuring System

Automatic angle measuring system can measures workpieces and regulates the angle, regardless of material variations.

Reduce your materials consumption.

Shorten your machining times to get work started more quickly.

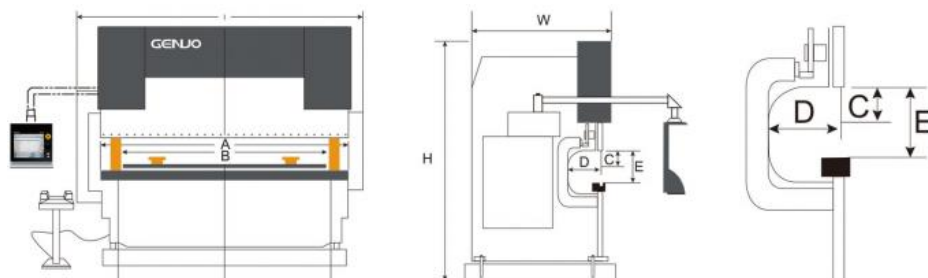


### Bending Robotic Cell

In industry 4.0. Thanks to Genuo's fully automated bending cell solution. Realize unmanned reliable bending production around the clock. All risks associated with part handling during bending are faced by the robot and not by the operator.

More safe and efficient

## HSC-Ultra Technical Specification



Mode I	Nominal Pressure	A Length of Table	B Distance Between Columns	D Throat Death	E Open Height	C Ram Strokes	Motor Power	Approx Weight	Overall Dimension (L x W x H) (mm)
HSC/E HC	(KN)	(mm)	(mm)	(mm)	(mm)	(mm)	(kw)	(kg)	
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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