MADE IN
CHINA
SINCE 2003.

NANJING ACL MECHANICAL TECHNOLOGY CO., LTD

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ACLPRESS

CQC ISO9001:2008 CE

ACLPRESS

HIGH RELIABILITY AND MAXIMUM PRODUCTIVITY

www.aclpress.com

PRESS BRAKES

BENDING TECHNOLOGY

About ACLPRESS

In the vast landscape of the metal processing industry, ACLPRESS shines like a rising star. Since its establishment, the company has been steadily forging a remarkable path in the production of bending machines.

I. The Spirit of Craftsmanship in Bending Machine Manufacturing

ACLPRESS is deeply committed to the production of bending machines. With a profound understanding and continuous exploration of metal processing techniques, the company integrates the spirit of craftsmanship into the manufacturing process of every bending machine. ACLPRESS recognizes that bending machines are crucial equipment for forming metal sheets, and their performance directly impacts the quality and production efficiency of downstream products. Therefore, from its inception, ACLPRESS has made it its core mission to create high-quality, high-performance bending machines.

II. Outstanding R&D and Innovation Capabilities

Professional R&D Team: The company has assembled a team of experienced mechanical engineers, electrical engineers, and process experts. These professionals, each with years of industry experience, have an in-depth understanding of various bending processes. They closely monitor the latest international technological trends, constantly introducing new technologies and concepts into the R&D of bending machines. Through continuous technological innovation, ACLPRESS has achieved significant breakthroughs in aspects such as precision control, ease of operation, and intelligence of its bending machines.

Sustained Investment in Innovation: To maintain its technological leadership in the bending machine field, ACLPRESS invests a substantial amount of capital in R&D every year. The company actively engages in industry-university-research cooperation with renowned domestic and international research institutions and universities, leveraging external research forces to accelerate the pace of technological innovation. Meanwhile, an effective R&D incentive mechanism has been established within the company, encouraging employees to actively participate in innovation activities and injecting continuous impetus into the company's sustainable development.

III. Advanced Production and Manufacturing System

Modern Production Base: ACLPRESS owns a modern production base with a spacious area, providing ample space for large-scale production of high-quality bending machines. The production workshops are rationally laid out, and an advanced lean production management model is adopted to ensure efficient and smooth production processes. From raw material procurement to product assembly and debugging, every step strictly adheres to standardized operation procedures, achieving refined control throughout the entire process.

Sophisticated Processing Equipment: The company is equipped with a series of state-of-the-art processing equipment, including high-precision CNC machining centers, large-scale CNC boring and milling machines, laser cutting machines, etc. These highly accurate and stable devices can meet the strict requirements for component processing precision in bending machine production. Additionally, advanced automated production lines have been introduced, significantly enhancing production efficiency and the consistency of product quality.

› Made in China since 2003

1 High technology, modern production lines

2 Top quality components

3 High quality machines designed in R&D Centre

Bending processes: 35 % Shorter

More excellent bend results

Lower maintenance and production costs

Less Noise

Less Oil

Less energy consumption up to 60 %

PRESS BRAKES

ACLPRESS MACHINE PRESS BRAKE
RANGE OFFERS HIGH-QUALITY SOLUTIONS

– Made in China – able to meet the manufacturing demands of many sectors. ACLPRESS Machine assures extremely precise bending angles, which do not require further corrections by the operator, for making all types of shapes.

ACLPRESS's press brake series are the result of a decades long tradition in designing and manufacturing affordable state-of-the art bending machines for a wide variety of customers and applications.

ACLPRESS's attention for design and manufacturing quality has resulted in a worldwide reputation of long lasting production machines offering excellent reliability and precision.

ENERGY SAVING

up to

50%

FASTER

up to

35%

DRASTIC REDUCTION OF

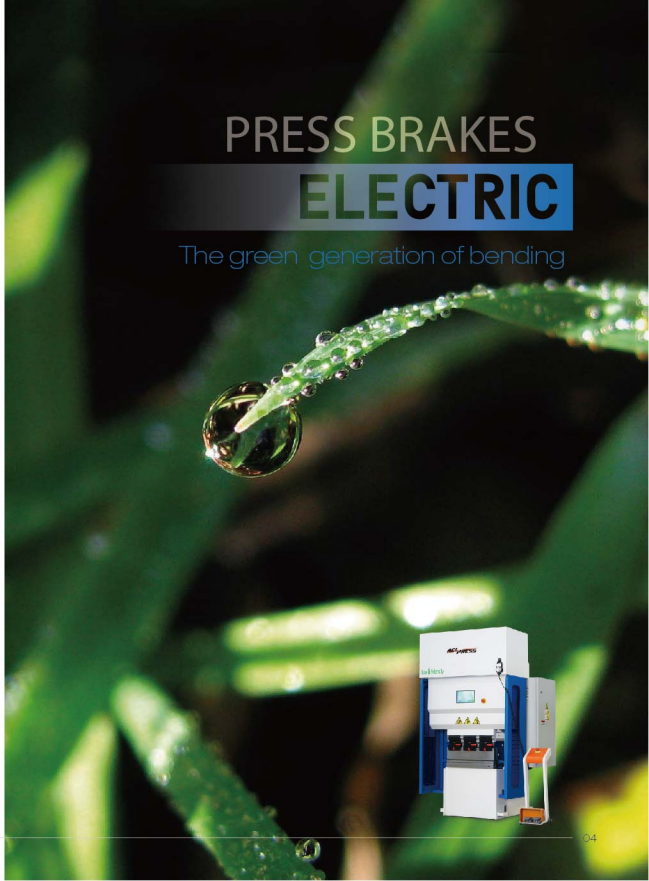
NOISE

POLLUTION

SERVO ELECTRIC PRESS BRAKE: EXCEED YOUR EXPECTATIONS

ACLPRESS Servo Electric Press Brakes are no-hydraulic, flexible, reliable and advance bending machines. This next generation machine idea combines green-eco firendly machines with productivity, accuracy, flexibility and reliability. The new concept offers low power consuption, less maintenance, no hydraulic oil for operation.

ACLPRESS Electric Press Brakes come with an advance CNC controller, fast and accurate punch and die clamping, and a multi axis back gauge system. Operators easily make perfect sheet metal parts with very low cost.



EP Series

Servo Electric CNC Press Brake

. FEATURE

Servo press brake is flexible, reliable, and advanced. Servo Electric Press Brake combines **high accuracy, flexibility, and reliability.** This concept offers low power consumption, less maintenance and no hydraulic oil and components for operation.

Using servo
50%
Provides Energy

Using servo
30%
Faster

- Fast bending
- High Precision
- Low Power Consumption
- Ultra Quiet

. SERVO MOTOR

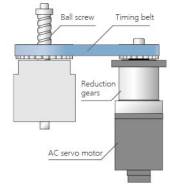
- Using servo motor as the main power source of hydraulic pump can save about 40% energy
- The overall efficiency of the slider increases by about 7-20%
- Oil temperature can be reduced by about 10-20 ℃

ACLPRESS

HIGH RELIABILITY AND MAXIMUM PRODUCTIVITY

. SERVO-ELECTRICIC DRIVE SYSTEMS

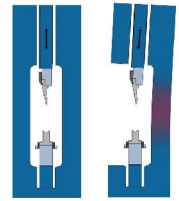
- High acceleration and deceleration
- Fast response times
- Considerable increase of the productivity compared to conventional press brakes.



Programmable working speed to ensure the bending is made respecting the product quality and the operator safety.

+30% Cycle time reduction by servo-electric technology

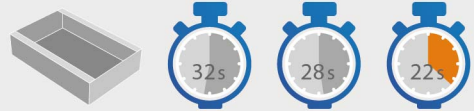
The stable O-frame ensures the correct alignment of upper and lower tools even under stress deformation since there is no horizontal displacement. This design isolates ram positioning accuracy from any deflection in the side frames under load, and maintains accurate positioning even during off centre bending operations, guaranting a ram repeatability of ± 0.005 mm.



Stable O-frame vs traditional C-frame

. TIME CYCLE COMPARISON

Bending time necessary to realize this 6 bend box (only machine time).



100t Hydraulic
200 mm/s

100t Electric
75 mm/s

eP-1030
110 mm/s

STANDARD CONFIGURATION


Servo Motor


European Type V Die Holder


Fast Clamping


Mechanical Crowning


Move Front Support


4 Axis Back Gauge


Laser safety protection


Grating Ruler

OPTIONAL CONFIGURATION


Delem DA 66T-69T Controllers

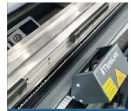

Wila Type Punch Clamping System


Wila Type V Die Clamping System


Laser safety protection


6 Axis Back Gauge


8 Axis Back Gauge


Laser Check Angle Measurement


CNC Servo Supporting Trolley

SERVO ELECTRIC PRESS BRAKE

ACLPRESS

Servo electric press brake provides enegry saving up to 50%

Servo Electric press brake has 50% energy saving compared with hydraulic press brakes.

Servo Electric press brake is faster up to 30%

Servo Electirc press brake is shown to be up to 30% faster than hydraulic press brake. Shorter response time one of the biggest advantages of servo electric press brake.

eco friend

Servo electric press brake is eco-friendly machine

Servo uses 100% electrical power omstead of hydraulic oil and hydraulic components. Less pollution - best solution.

Servo electric press brake provides high productivity

Servo has high acceleration, high decleration. The quick change of the movig direction is a advantage for high productivity and efficiency.Servo has less maintenance cost.

servo

Servo electric press brake provides advanced bending

Servo is flexiable,reliable and advance benging machine.Servo electric press brake combines high accuracy,flexibility and reliability. This concept offers low power consumption, less maintenance and no hydraulic oil or components for operation.

Servo electric press brake works quietly

Servo working system has no noise and provides silent working conditions.

SERVO BRAKE NO

- Noise
- Hydraulic Oil
- Hydraulic Filter
- Hydraulic Seals
- Valves
- Cylinders
- Dwell Times

READY FOR INDUSTRY 4.0

ACLPRESS puts industry 4.0 within the reach of companies™

The future of manufacturing is undoubtedly digital. With the fourth industrial revolution taking over (a.k.a Industry 4.0),the Industrial production must adapt and cannot escape to the new reality of Industry 4.0, a production model in which all elements of the chain must be interconnected and communicate with one another.

• Digitally connected manufacturing is key to increasing the levels of productivity and efficiency, also achieving a completely transparent process since these digital solutions and automation provide production information in real time.

Designed in a responsive web nvironment,possibility to use Delem Profile T3D softwares to simulate,it is accessible from smartphones and tablets also.the bending process and program the press brake with files transmission via USB port, LAN or Wi-Fi.

Make correctionis to the bending process easily on the tablet PC control!

. CONTROL SYSTEM

	DA-53T	DA-58T	DA-66T ●	DA-69T
Axes	4	4	6	12	12	12	12	12
Screen	10"	10"	15"	15"	17"	15"	17"	19"
2D graphic view	–	●	●	●	●	●	●	●
3D graphic view	–	–	–	●	●	●	●	●
3D programming	–	–	–	–	–	○	●	○
Auto tooling selection	–	–	–	–	●	○	●	○
Touch screen	●	●	●	●	●	●	●	●
USB ports	1	2	1	2	2	4	2	4
2D DXF import	–	–	–	–	–	●	●	●
3D IGES/STEP import	–	–	–	–	–	–	●	○
3D Offline import	–	–	–	–	○	○	●	○
Export DXF 2D FP	–	–	–	–	–	○	●	○
Offline software	Profile TL	Kvara PC	Profile TL	Kvara PC	Profile TL	Kvara PC	PC Profile T3D	EsaBend 3D – M

esa AUTOMOTION The Powerful CNC Intelligence


ESA VIS-630


ESA VIS-840

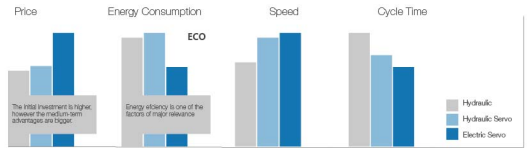

ESA VIS-860


ESA VIS-875

● Standard ○ Optional

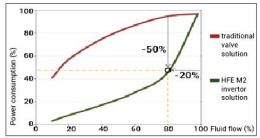
ACLPRESS

. COMPARATIVE



. ENVIROMENTAL CONSIDERATIONS

The Eco Drive System



- The Eco drive system continually monitors and self-adjusts the bending requirements - providing benefits such as 20% less energy usage, reduced maintenance, less oil consumption, lower noise levels and increased reliability.

Optional on 4 Axis Models

eco PRIMAPRESS

. TECHNICAL PARAMETERS

Model	A Bending Pressure	B Bending Length	C Column Distance	D Throat Depth	E Slider Stroke	Max. Opening Height	Main Motor Power	Average Power	X-axis Max. Distance (mm)	R-axis Max. Distance (mm)	Maximum Speed (mm/s) Dive in	Bending	Return	L Dimensions (mm) Length	W Width	H Height	Weight
	(kn)	(mm)	(mm)	(mm)	(mm)	(mm)	(kw)	(kw)	(mm)	(mm)	(mm/s)	(mm/s)	(mm/s)	(mm)	(mm)	(mm)	(kg)
EP-30/1250●	300	1250	900	200	180	430	19.3	1.1	450	140	200	0-30	200	1850	1450	2610	3500
EP-40/1500●	400	1500	900	300	200	470	2x15.7	2.3	450	140	200	0-30	200	1880	1610	2490	4400
EP-50/1650●	500	1650	1200	300	200	470	2x19.3	2.4	450	140	200	0-30	200	2180	1610	2490	4800
EP-60/2050●	600	2050	1700	300	200	470	2x24.1	2.6	450	200	200	0-30	200	2680	1610	2560	5400
EP-70/2500	700	2500	2000	300	200	470	2x24.1	2.7	450	200	200	0-30	200	2980	1610	2545	6800
EP-110/2500	1100	2500	2000	400	250	525	4x19.3	2.7	600	200	200	0-30	200	3000	1860	3035	10200
EP-110/3200	1100	3200	2700	400	250	525	4x19.3	2.7	600	200	200	0-30	200	3900	1860	3035	11600
EP-110/4100	1100	4100	3500	550	250	540	4x19.3	2.7	600	200	200	0-30	200	4800	2010	3050	13500
EP-130/2500	1300	2500	2000	400	250	525	4x24.1	2.8	600	200	200	0-30	200	3000	1860	3035	10500
EP-130/3200	1300	3200	2700	400	250	525	4x24.1	2.8	600	200	200	0-30	200	3900	1860	3035	11700
EP-130/4100	1300	4100	3500	550	250	540	4x24.1	2.8	600	200	200	0-30	200	4800	2010	3050	13900
EP-130/5500	1300	5100	4500	550	250	540	4x24.1	2.8	600	200	200	0-30	200	5800	2010	3050	17000
EP-130/6000	1300	6100	5500	550	250	540	4x24.1	2.8	600	200	200	0-30	200	6800	2010	3120	19200
EP-160/2500	1600	2500	2000	400	250	525	4x24.1	2.8	600	200	150	0-30	150	3000	2000	3150	11800
EP-160/3200	1600	3200	2700	400	250	525	4x24.1	2.8	600	200	150	0-30	150	3900	2000	3150	13200
EP-160/4000	1600	4100	3500	400	250	525	4x24.1	2.8	600	200	150	0-30	150	4800	2000	3150	15500
EP-160/5500	1600	5100	4500	400	250	525	4x24.1	2.8	600	200	150	0-30	150	5800	2010	3200	18000
EP-160/6000	1600	6100	5500	400	250	525	4x24.1	2.8	600	200	150	0-30	150	6800	2010	3250	21000

*The displayed parameters are for reference only, the actual parameter information is subject to the actual product

ENERGY SAVING

up to

40%

SPEED INCREASE

up to

30%

DRASTIC REDUCTION OF

NOISE

POLLUTION

HYBRID PRESS BRAKES: MEASURABLE ADVANTAGES

With the introduction of the HYBRID version of its bending machines, ACLPRESS Machine has significantly reduced energy consumption while simultaneously increasing work speeds and minimizing the noise produced by its machines.

Thanks to HYBRID technology, ACLPRESS Machine provides bending machines that improve the operator's work quality while also increasing productivity.

PRESS BRAKES

HYBRID

The green generation of bending

HPS Series

Hybrid Pump CNC Press Brake

- Fast bending
- High Precision
- Low Power Consumption
- Ultra Quiet

. FEATURE

- More accurate pressure, position and synchronous control, and the repetition accuracy of the system is up to 5 μ m
- Closed hydraulic system, tank volume reduced by 75%
- Hydraulic system with high stability and long service life
- High efficiency and energy saving, realize energy supply on demand, and significantly reduce electricity expenditure
- Effectively reduce the noise at work. The motor does not rotate during standby ,almost reaching zero noise.

HAWE EPRAX® HYBRID PUNP CONTROL SYSTEM

Fast increased performance up to 30% by reducing thecycle time(shorter ramptimes)

PreLise up to 5 um positioning accuracy

Less maintenance Up to 7,000 operating hours and after this significantly longer maintenance cycles as standard systems

Energy saving and environmental protection Up to 70% energy saving and 80% around hydraulic oil saving, about 15% noise lower

Less Hudraulit problem No piping connection, no leaking,reducing most hydraulic problems

HAWE HYDRAULIK

ACLPRESS

. HYBRID SERVO PUMPS

CONTROL HYDRAULIC SYSTEM

■ Output according to actual tonnage, start when the motor is running, saving energy and electricitybills.
■ The oil volume is small and there is no need to change the oil later. It is environmentally friendly,saves costs and has low noise.
■ Increase efficiency by 30% and increase output.
■ High precision.
■ The actual tonnage output makes the machine body more durable and does not damage the toolmold.
■ The servo pump control motor has good software and hardware compatibility, the system isstable, and the machine does not stop all day long.

Maximum stamina!
↗ Ultra-long service life

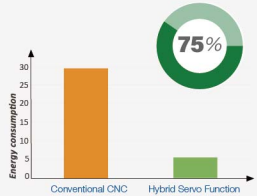
Reduced cooling time!
Quality ↗ Higher Operation Speed ↗

Faster & more efficient!
Speed ↗ more than 40% Oil Saving ↗

More faster!
Save time and costs ... ↗

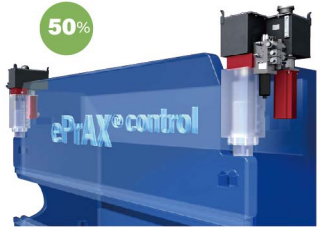
. HYDRAULIC SYSTEM

■ Germany's new electric servo drive system is an intelligent, pipeless, fully enclosed electric servodrive system that is highly efficient and energysaving;
■ The fuel tank capacity is reduced by 70%, the performance is improved quickly, the working cyclis reduced by 10%, and the efficiency is increased by 50% compared with the traditional system3 The positioning accuracy of up to 5MM is integrated with the servo pump system, which reduce.noise during operation.The intearated pressure filter ensures hiah stability and service life of theequipment



. ESVP (HYDRAULIC SYSTEM V3.0)

The highly flexible all-round CNC press brake HPS-Hydrid Servo is the latestdevelopment of the company. Includes new technical innovations in combinationwith the already well proven technology and know-how from many years ofexperience and passion coming from ACLPRESS. A highly dynamic hybrid-servodrive system and the user-friendly control are only two of the outstanding propertiesof our new HPS-Hydrid Servo.



. STANDARD CONFIGURATION

Quickly Clamping

It is convenient to quickly clamp the upper die, reduce labor intensity and improve production efficiency. The utility model has the advantages of high precision, easy clamping, no loosening, no tool dropping, etc.

Quickly Clamping

It is convenient to quickly clamp the upper die, reduce labor intensity and improve production efficiency. The utility model has the advantages of high precision, easy clamping, no loosening, no tool dropping, etc.

Laser Safety Protection

Provide comprehensive protection for the operator in the place close to the workpiece.

High Quality Press Brake Tooling

Exact measured distortion and feedback compensation,to ensure the precision of the bending,effitively prevent non-standard workpiece collision linear scales.

High Quality Press Brake Tooling

After forging and quenching, it is durable. High precision, high straightness and high repeatability, and finally obtain the ideal bending effect.

Stable And Reliable Back Gauge

Imported grinding ball screw drive, linear guide rail guide,double linear guide construction,to ensure the positioning accuracy.Multistage stops to increase the positioning range,make the bending more convenient.

. OPTIONAL CONFIGURATION

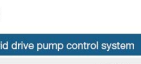
WILA Hydraulic Clamping

Laser Check Angle Measurement

CNC Servo Supporting Trolley

. Energy Saving Comparison Of Hps Series

Svp One-way Servo Pump Control CNC Press Brake

Electro-hydraulic servo system	Electro-hydraulic servo hybrid drive pump control system		
Press Brake:160T Working Hours:8h	 2xSynchronization 1xPower Unit Three Phase Motor Oil Supply		 2xSynchronization 1xPwer Unit Servo Motor Oil Supply On Demand
Power Dissipation	41.7kw.h	-47%	19.8kw.h
Hydraulic Tank Capacity	280L	-42%	2X60L
Noise Level Peak/Average/Free	87.6/74.6/67.0dB(A)	-11 dB(A)	76.3/67.6/- dB(A)

. TECHNICAL PARAMETERS

Name	Bending Pressure	Bending Length (A)	Column Distance (B)	Throat Depth(C)	Slider Stroke	Min. Opening Height(D)	Y1,Y2-axis Down Speed	Y1,Y2-axis Back Stroke Speed	Y1,Y2-axis	X-axis Max.Distance	Reference Linear Degree	Back Gauge Positioning Accuracy	Back Gauge Repeat Positioning Accuracy	Main Motor	Length* Width* Height	Weight
TYPE	(kn)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm / sec)	(mm / sec)	(Mm/m)	(mm)	(Mm/m)	(Mm/m)	(Mm/m)	(kw)	(mm)	(T)
60T/1600	600	1600	1350	305	160	540	250	140	0.01	600	≥ 0.15	±0.02	±0.01	5	2297*1627*2155	5.9
80T/2500	800	2500	2000	350	170	570	250	140	0.01	600	≥ 0.15	±0.05	±0.01	8.7	3237*1787*2550	5.8
110T/2500	110	2500	2000	410	200	570	220	140	0.01	600	≥ 0.15	±0.05	±0.01	8.7	3247*1787*2550	7.8
110T/3200	1100	3200	2700	410	200	570	220	140	0.01	600	≥ 0.15	±0.05	±0.01	8.7	4097*1787*2550	8.2
110T/4000	1100	4000	3500	410	200	570	220	140	0.01	600	≥ 0.15	±0.05	±0.01	8.7	4837*1787*2700	10
135T/3200	1350	3200	2700	410	200	570	200	140	0.01	600	≥ 0.15	±0.05	±0.01	10.8	4097*1787*2700	9
135T/4000	1350	4000	3500	410	200	570	200	140	0.01	600	≥ 0.15	±0.05	±0.01	10.8	4837*1787*2850	11.2
175T/3200	1750	3200	2700	410	200	570	160	140	0.01	600	≥ 0.15	±0.05	±0.01	13.2	4097*1837*2700	10.2
175T/4000	1750	4000	3500	410	200	570	160	140	0.01	600	≥ 0.15	±0.05	±0.01	13.2	4797*1837*2850	12.1
175T/6000	1600	6000	4100	410	200	570	160	90	0.01	600	≥ 0.15	±0.05	±0.01	13.2	5737*1837*3350	15.8
175T/6000	1600	6000	5100	410	200	570	160	90	0.01	600	≥ 0.15	±0.05	±0.01	13.2	6737*1837*3350	18.8
210T/3200	2100	3200	2700	410	200	570	160	140	0.01	600	≥ 0.15	±0.05	±0.01	16.7	4037*1837*2850	12.3
210T/4000	2100	4000	3500	410	200	570	160	140	0.01	600	≥ 0.15	±0.05	±0.01	16.7	4837*1837*3100	14.3
210T/5000	2100	5000	4100	410	200	570	130	90	0.01	600	≥ 0.15	±0.05	±0.01	16.7	5837*1837*3250	18.8
210T/6000	2100	6000	5100	410	200	570	130	90	0.01	600	≥ 0.15	±0.05	±0.01	16.7	6837*1837*3350	23.5
250T/3200	2500	3200	2700	410	250	620	160	140	0.01	600	≥ 0.15	±0.05	±0.01	21.4	3937*1937*3350	15.5
250T/4000	2500	4000	3500	410	250	620	160	140	0.01	600	≥ 0.15	±0.05	±0.01	21.4	4937*1937*3350	18
250T/5000	2500	5000	4100	410	250	620	130	90	0.01	600	≥ 0.15	±0.05	±0.01	21.4	5937*1937*3350	19
250T/6000	2500	6000	5100	410	250	620	130	90	0.01	600	≥ 0.15	±0.05	±0.01	21.4	6937*1937*3350	22
320T/3200	3200	3200	2700	450	300	670	150	130	0.01	600	≥ 0.2	±0.05	±0.01	21.4	3937*1937*3350	19
320T/4000	3200	4000	3500	450	300	670	150	130	0.01	600	≥ 0.2	±0.05	±0.01	21.4	4937*1937*3350	21
320T/5000	3200	5000	4100	450	300	670	130	90	0.01	600	≥ 0.2	±0.05	±0.01	21.4	5937*1937*3350	23
320T/6000	3200	6000	5100	450	300	670	130	90	0.01	600	≥ 0.2	±0.05	±0.01	21.4	6937*1937*3350	25
400T/3200	4000	3200	2700	450	300	670	150	130	0.01	600	≥ 0.2	±0.05	±0.01	26.9	3937*1937*3350	21
400T/4000	4000	4000	3500	450	300	670	150	130	0.01	600	≥ 0.2	±0.05	±0.01	26.9	4937*1937*3350	23
400T/5000	4000	5000	4100	450	300	670	130	90	0.01	600	≥ 0.2	±0.05	±0.01	26.9	5937*1937*3350	25
400T/6000	4000	6000	5100	450	300	670	130	90	0.01	600	≥ 0.2	±0.05	±0.01	26.9	6937*1937*3350	27
500T/4000	5000	4000	3500	450	300	670	150	130	0.01	600	≥ 0.2	±0.05	±0.01	33	4937*1937*3350	42
500T/5000	5000	5000	4100	450	300	670	130	90	0.01	600	≥ 0.2	±0.05	±0.01	33	5937*1937*3350	47
500T/6000	5000	6000	5100	450	300	670	130	90	0.01	600	≥ 0.2	±0.05	±0.01	33	6937*1937*3350	55

*The displayed parameters are for reference only, the actual parameter information is subject to the actual product

ENERGY SAVING

up to

40%

SPEED INCREASE

up to

30%

DRASTIC REDUCTION OF

NOISE

POLLUTION

ELECTRO-HYDRAULIC PRESS BRAKES:
PRECISION AND ACCURACY REQUIREMENTS

With ACLPRESS's HP Series CNC press brake machine, you can expect **superior performance, exceptional precision, and efficient production.** This flagship machine embodies our commitment to engineering innovation and quality craftsmanship. Experience the advantages of our state-of-the-art technology and elevate your sheet metal bending capabilities to new heights.

HPC Series

Single Servo Electric Hydraulic CNC Press Brake

- Energy Saving
- Environment Protection
- Efficient
- Low Noise

. FEATURE

- The machine is in an overall welding and overall processing structure, and the main parts of machine are all analyzed by ANSYS finite element analysis software, which has ensured the reliability of machine and the precision of entire machine.
- The CNC control system adopts Netherland DELEM, Italian ESA, or Swiss CYBELEC products, which can achieve the functions of graphic programming for bending angle, compensation for angle amendment, automatic calculation also adjustment of bending pressure, automatic calculation of compensation for workbench distortion, extending length of workpieces, bending pressure for bottom bending, open distance, and automatic withdrawal of rear stopper, etc.

. SVP-(-HYDRAULIC-SYSTEM-V2.1-)

- Using servo motor as the main power source of hydraulic pump can save about 40% energy
- The overall efficiency of the slider increases by about 7-20%
- Oil temperature can be reduced by about 10-20 °C

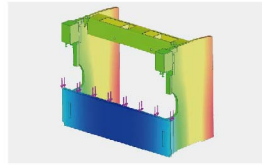
HAWE HYDRAULIK

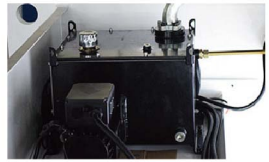
ACLPRESS

. STANDARD CONFIGURATION

. STRESS ANALYSIS & FINITE ELEMENT ANALYSIS

The CAE software SOLIDWORKS used as the method to analyze the linear static construction, stress and deformation for press break and laser cutting machine frames. So for complicated structures, highly complex loading's, transient modelling and combination of the above, FEA makes sense.





. SERVO PUMP CONTROL

Through the pump control technology to achieve fuel saving, power saving and high-speed bending production, it is the optimal solution of environmental protection and energy saving in the future industry.

. BRANDS HUDRAULIC VALVES

Ensure stable pressure control,synchronize the left & right cylinders, long working life.

. 6-AXIS CNC BACKGAUGE WITH X1, X2, R1, R2, Z1, Z2-AXIS

Ball screws and linear guide on X, R-axis.
Mechanical accuracy ± 0.03 mm.
Mechanical accuracy ± 0.03 mm.
Axes Z1 - Z2 speed 1000 mm/s.
Axis X1-X2 speed 500 mm/s.
Axis R1-R2 speed 500 mm/s.
Load capacity – 300 kg per support.

HPA Series

Electric Hydraulic CNC Press Brake

- Energy Saving
- Environment Protection
- Efficient
- Low Noise

. FEATURE

- Imported configuration, stable and reliable
- High strength frame with thick plate and sufficient material
- High precision rear retaining system
- Standard 4+1Axis (X,Y1,Y2,R+W)
- Closed loop control and worktable auto mechanical deflection compensation

. SIEMENS MOTOR

■ As a well-known brand in Germany, Siemens motor has the advantages of high efficiency, energy saving, large starting torque, good performance, low noise, low vibration, high reliability, power level and installation size in line with IEC standards and convenient use and maintenance.We can customize the power and voltage according to the customer's local voltage.

. STANDARD CONFIGURATION

. STABLE AND RELIABLE BACK GAUGE

Imported ball screw drive, linear guide rail guide, Double linear guide construction,to ensure the positioning accuracy.- Multistage stops to increase the positioning range,make the bending more convenient.

. CROWNING SYSTEM

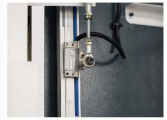
The compensation amount is automatically calculated and set by the CNC system to ensure the consistency of the full-length bending angle.

. QUICK CLAMPING

It is convenient to quickly clamp the upper die, reduce labor intensity and improve production efficiency. The utility model has the advantages of high precision, easy clamping, no loosening, no tool dropping, etc.

. BRAND HYDRAULIC SYSTEM

Hydraulic drive,smooth,reliable,effectively reducing the problems caused by hydraulic oil leakage.



GRATING RULER

Exact measured distortion and feedback compensation,to ensure the precision of the bending,effectively prevent non-standard workpiece collision linear scales.

GRAPHITE SELF-LUBRICATING COPPER PLATE

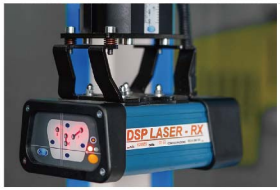
Good wear resistance and low friction coefficient. No oil lubrication or less oil lubrication, reduce maintenance times or avoid maintenance.

HIGHER QUALITY PRESS BRAKE TOOLING

After forging and quenching, it is durable. High precision, high straightness and high repeatability, and finally obtain the ideal bending effect.

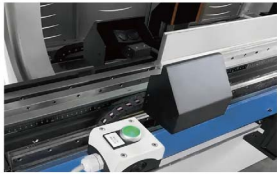
STANDARD

. STANDARD CONFIGURATION



. SAFETY GUARDS

The DSP laser laser protection device imported from Italy can comprehensively and effectively provide the safety protection of the bending machine and protect the personal safety of the operator.



. LASER CHECK ANGLE MEASUREMENT

The use of laser angle measurement system can ensure a stable workpiece bending angle and improve the efficiency and stability of automatic machining.

. CNC FOLLOWER SUPPORTS

When the workpiece is bent, the support plate can realize the turning following function. The following angle and speed are automatically calculated and controlled by the NC system, and can move left and right along the linear guide rail.

ACLPRESS

WILA

. HOLLAND WILA UPPER TOOL CLAMPING SYSTEMS

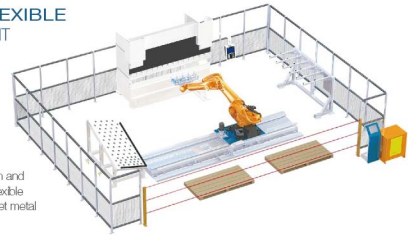
The upper die is hydraulically clamped, and the clamping and loosening action is automatically controlled by electricity. The clamping force is large and reliable, and the die change is easy and efficient.

. HOLLAND WILA LOWER TOOL HOLDERS

Lower die hydraulic clamping device, clamping and loosening action is automatically controlled by electricity, and die change is easier and more efficient.

. BENDING FLEXIBLE PROCESSING UNIT

According to your production and processing needs,provide flexible automation solutions for sheet metal



ACLPRESS

. CNC CONTROLS

Delem

	DA-53TX	DA-58TX	DA-66T	DA-69T	DA-66S	DA-69S
Axes	4	4	> 8	> 8	> 8	> 8
Screen	15"	18.5"	17"	17"	24"	24"
2D graphic/programming	●	●	●	●	●	●
3D graphic view	-	-	○	●	○	●
3D programming	-	-	-	●	-	●
Auto tooling selection	-	-	●	●	●	●
2D DXF import	-	-	○	●	○	●
3D IGES/STEP import	-	-	-	● (profile-T3D)	-	● (profile-S3D)
Export DXF 2D FP	-	- ○	(profile-T2D) ●	(profile-T3D)	○ (profile-S2D)	● (profile-T3D)
2D Aut. bend. sequence	●	●	●	●	●	●
3D Aut. bend. sequence	-	-	-	●	-	●
Angle control (eyeV)	-	-	●	●	●	●
Barcode reading	-	-	○	○	○	○
Production monitor 4.0	-	-	○	○	○	○
Remote assist. (network)	○	○	●	●	●	●
LedBar	-	-	○	○	○	○
Offline software	Profile-TL	Profile-TL	Profile-TL	Profile-T3D	Profile-SL	Profile-S3D

esa AUTOMOTION The Powerful CNC Intelligence

CYBELEC

	VIS 650	VIS 860 W	VIS 875 W	CYBTOUCH 15PS	VISITOUCH PAC MX
	8	> 8	> 8	6	> 8
	15"	18"	21"	15"	19"
	●	●	●	●	●
	-	○	●	-	●
	-	○	○	-	●
	-	-	●	-	●
	-	○	●	-	●
	-	○	●	-	○
	-	○	○	-	○
	●	●	●	●	●
	-	○	●	-	○
	-	●	●	-	●
	-	●	●	-	○
	○	○	○	○	○
	●	●	●	○	●
	○	○	○	-	○
	ESA 2D	ESA 2D	ESABEND 3D	○	○

● Standard ○ Optional

. TECHNICAL PARAMETERS

Name	Bending Pressure	Bending Length (A)	Column Distance (B)	Throat Depth (C)	Slider Stroke	Max. Opening Height(*)	Y1,Y2 --axis Down Speed	Y1,Y2--axis Back Stroke Speed	Y1,Y2--axis	X--axis Max. Distance	Workpiece Linear Degree	Back Gauge Positioning Accuracy	Back Gauge Repeat Positioning Accuracy	Main Motor	Length* Width* Height*	Weight
TYPE	(kn)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm / sec)	(mm / sec)	(Mm/m)	(mm)	(Mm/m)	(Mm/m)	(Mm/m)	(kw)	(mm)	(T)
50T/1600	500	1600	1250	205	160	540	230	140	0.01	600	≥ 0.15	±0.02	±0.01	4	2200*1450*2155	3.9
80T/1600	800	1600	1250	350	170	570	230	140	0.01	600	≥ 0.15	±0.05	±0.01	7.5	2220*1450*2350	4.5
80T/2500	800	2500	2000	350	170	570	230	140	0.01	600	≥ 0.15	±0.05	±0.01	7.5	3220*1780*2350	5.8
110T/2500	1100	2500	2000	410	200	570	220	140	0.01	600	≥ 0.15	±0.05	±0.01	7.5	3220*1780*2350	7.2
110T/3200	1100	3200	2700	410	200	570	220	140	0.01	600	≥ 0.15	±0.05	±0.01	7.5	4020*1780*2350	8.2
110T/4000	1100	4000	3500	410	200	570	220	140	0.01	600	≥ 0.15	±0.05	±0.01	7.5	4820*1780*2350	10
135T/3200	1350	3200	2700	410	200	570	200	140	0.01	600	≥ 0.15	±0.05	±0.01	11	4020*1790*2350	9
135T/4000	1350	4000	3500	410	200	570	200	140	0.01	600	≥ 0.15	±0.05	±0.01	11	4820*1790*2350	11.2
175T/3200	1750	3200	2700	410	200	570	160	140	0.01	600	≥ 0.15	±0.05	±0.01	11	4850*1800*2730	10.2
175T/4000	1750	4000	3500	410	200	570	160	140	0.01	600	≥ 0.15	±0.05	±0.01	11	4700*1800*2930	12.1
175T/5000	1600	5000	4100	410	200	570	160	90	0.01	600	≥ 0.15	±0.05	±0.01	11	5700*1800*2980	15.8
175T/6000	1600	6000	5100	410	200	570	160	90	0.01	600	≥ 0.15	±0.05	±0.01	15	6700*1800*2180	18.8
210T/3200	2100	3200	2700	410	200	570	160	140	0.01	600	≥ 0.15	±0.05	±0.01	15	4020*1850*2350	12.3
210T/4000	2100	4000	3500	410	200	570	160	140	0.01	600	≥ 0.15	±0.05	±0.01	15	4820*1850*2100	14.3
210T/5000	2100	5000	4100	410	200	570	130	90	0.01	600	≥ 0.15	±0.05	±0.01	15	5820*1850*2350	18.8
210T/6000	2100	6000	5100	410	200	570	130	90	0.01	600	≥ 0.15	±0.05	±0.01	15	6820*1850*2350	23.5
250T/3200	2500	3200	2700	410	250	620	160	140	0.01	600	≥ 0.15	±0.05	±0.01	18.5	3920*1700*2350	15.5
250T/4000	2500	4000	3500	410	250	620	160	140	0.01	600	≥ 0.15	±0.05	±0.01	18.5	4920*1700*2350	18
250T/5000	2500	5000	4100	410	250	620	130	90	0.01	600	≥ 0.15	±0.05	±0.01	18.5	5920*1700*2350	19
250T/6000	2500	6000	5100	410	250	620	130	90	0.01	600	≥ 0.15	±0.05	±0.01	18.5	6920*1700*2350	22
320T/3200	3200	3200	2700	450	300	670	150	130	0.01	600	≥ 0.2	±0.05	±0.01	22	3920*1700*2350	19
320T/4000	3200	4000	3500	450	300	670	150	130	0.01	600	≥ 0.2	±0.05	±0.01	22	4920*1700*2350	21
320T/5000	3200	5000	4100	450	300	670	130	90	0.01	600	≥ 0.2	±0.05	±0.01	22	5920*1700*2350	23
320T/6000	3200	6000	5100	450	300	670	130	90	0.01	600	≥ 0.2	±0.05	±0.01	22	6920*1700*2350	25
400T/3200	4000	3200	2700	500	300	670	150	130	0.01	600	≥ 0.2	±0.05	±0.01	30	3920*1700*2350	21
400T/4000	4000	4000	3500	500	300	670	150	130	0.01	600	≥ 0.2	±0.05	±0.01	30	4920*1700*2350	23
400T/5000	4000	5000	4100	500	300	670	130	90	0.01	600	≥ 0.2	±0.05	±0.01	30	5920*1700*2350	25
400T/6000	5000	6000	5100	500	300	670	130	90	0.01	600	≥ 0.2	±0.05	±0.01	30	6920*1700*2350	27
500T/6000	5000	5000	5100	500	320	600	150	150	0.01	800	≥ 0.3	±0.05	±0.01	37	6920*2810*4500	55
600T/6000	6000	6000	5100	500	320	600	150	150	0.01	800	≥ 0.3	±0.05	±0.01	45	6920*2910*5100	62
800T/6000	8000	6000	5100	600	400	600	150	150	0.01	800	≥ 0.3	±0.05	±0.01	55	6920*2950*5300	90
800T/8000	8000	8000	5500	600	400	600	150	150	0.01	800	≥ 0.3	±0.05	±0.01	55	8920*2950*5600	120
1000T/8000	10000	8000	5100	600	400	600	150	150	0.01	800	≥ 0.3	±0.05	±0.01	2*37	8920*3000*5600	100
1000T/8000	10000	8000	6000	600	400	600	150	150	0.01	800	≥ 0.3	±0.05	±0.01	2*37	8920*3000*6100	130
1000T/10000	10000	10000	6000	600	400	600	150	150	0.01	800	≥ 0.3	±0.05	±0.01	2*37	10320*3000*5850	150

*The displayed parameters are for reference only, the actual parameter information is subject to the actual product

. SHEET BENDING FORCE TABLE

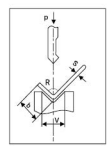
The chart allows you to read off the required bending force for a 1m length part, given
1. sheet thickness (t) and 2. the selected width of the die opening (V).
The table also show the minimum leg length (D) and the inside radius (R) associated with the selected die size (V, width of die opening).

R	D	V t	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.3	2.6	3.0	3.2	3.5	4.0	4.5	5.0	6.0	7.0	9.0	10	12	16	19
0.7	3	4	4	6	11																			
1.0	4	6	3	4	7	11																		
1.3	6.5	8		3	5	8	12																	
1.6	7	10			4	7	10	17																
2.0	8.5	12				6	8	15	22															
2.3	10	14					7	13	19	25														
2.6	11	16						11	17	23	28													
3.0	13	18						10	15	19	25	34												
3.3	14	20							13	17	22	30	34											
4.0	17.5	25								15	18	24	27	33	43									
5.0	22	32									14	19	22	26	34	44								
6.0	25	36										17	19	23	30	39	47							
6.5	35	50											17	20	27	34	42	60						
8.0	35	50												16	21	27	33	48	66					
10	45	63														21	26	38	52	84				
13	55	80															21	30	41	67	85			
16	70	100																24	33	54	67	96		
20	85	120																	27	45	55	80	142	
26	113	160																			42	60	107	150
33	140	200																				48	86	120

FORCE CALCULATION FORMULA FOR PRESS BRAKE:

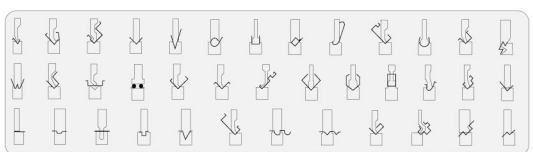
- Calculation method of sheet bending force:
- P-bending force (KN)
- S-plate thickness (mm)
- L-plate width (m)
- V-lower die notch width (mm)

Calculation formula: $P = \frac{650S^2L}{V}$ (δ b=450N/mm²)



Press Brake Sketch Map

. PROCESSING WORKPIECE DRAWING



TP Series

Torsion Bar Servo NC Press Brake

. FEATURE

- The TP Series has been re-designed according to the current needs of our users and has reached to a unique structure with its electronic and mechanical equipment which gives excellent results in normal, stainless, thin and thick sheet metals.
- The TP Series Press Brakes are among the most preferred models with the user-friendly CNC control panel and low maintenance requiring hydraulic systems which keep the production costs in your facility at minimum level and reach to high production speeds.

TORSION SHAFT SYNCHRONIZATION STRUCTURE

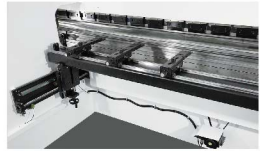
High quality torsion shaft synchronization structure, shaft body adopts the traditional forging and tempering process, which has high strength, good elasticity and adjustable design.

OPTICAL SAFETY GUARDS

■ The DSP laser laser protection device imported from Italy can comprehensively and effectively provide the safety protection of the bending machine and protect the personal safety of the operator.

MECHANICAL COMPENSATION

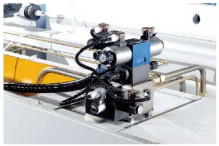
■ Mechanical compensation, there will be no state such as oil leakage, low fault rate and environmental protection.



PREMIUM BACKGAUGE

■ Equipped with ball screw, linear guide rail, high running precision, fast speed.

. STANDARD CONFIGURATION

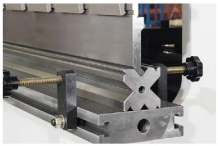


HYDRAULIC SYSTEM

■ Our press brake machine uses BOSCH-REXROTH integrated hydraulic control system that limits the number of pipe connections, making it more reliable and easy for maintenance.

TORQUE SYNCHRONOUS CONTROL SYSTEM

■ Adopt steel torsion bar synchronization system, the structure is very simple, but the accuracy is very high. At the two ends of the ram, there are two synchronizing devices so that the ram movement is always parallel to the worktable. This structure highlights the effect of balancing motion during operation.



PUNCH & DIE

■ The standard top punch and multi-V bottom die can be used for bending sheet metal in various thickness. More press brake toolings can be selected as per your practical use.

FAST CLAMP

■ The standard equipped fast clamp will help you replace the top punch in very short time. Convenient and time-saving.

. CNC SYSTEM OPTIONAL

E21(ESTUN) E200P(ESTUN) E300P(ESTUN) DA-41T (Delem) CybTouch 8(Cybelec) TP10S

. TECHNICAL PARAMETERS

Model	Nominal Pressure (kN)	Worktable Length (mm)	Distance Between Housings (mm)	Throat Depth (mm)	Ram Stroke (mm)	Strokes Number (min-1)	Max. Opening Height (mm)	Main Motor Power (kw)	Overall Dimensions LxWxH(mm)
WC67Y/K-40/2500	400	2500	1900	280	100	≥20	330	5.5	2800x1100x1900
WC67Y/K-63/2500	630	2500	2050	300	100	≥12	380	5.5	2805x1725x2355
WC67Y/K-63/3200	630	3200	2670	350	100	≥10	380	5.5	3300x1725x2355
WC67Y/K-80/2500	800	2500	2050	350	140	≥10	395	7.5	2805x1725x2365
WC67Y/K-80/3200	800	3200	2660	350	140	≥10	395	7.5	3300x1725x2405
WC67Y/K-100/2500	1000	2500	2050	320	140	≥8	395	7.5	2800x1800x2540
WC67Y/K-100/3200	1000	3200	2660	320	140	≥8	395	7.5	3290x1740x2400
WC67Y/K-100/4000	1000	4000	3060	320	140	≥8	395	7.5	4090x1740x2500
WC67Y/K-100/5000	1000	5000	3960	320	140	≥8	395	7.5	5100x1740x2800
WC67Y/K-125/3200	1250	3200	2510	320	140	≥8	395	7.5	3460x1740x3450
WC67Y/K-125/4000	1250	4000	3160	320	140	≥8	395	7.5	4090x1740x3450
WC67Y/K-160/3200	1600	3200	2540	330	200	≥6	457	11	3280x1930x2800
WC67Y/K-160/4000	1600	4000	3140	330	200	≥6	457	11	4080x1930x2800
WC67Y/K-160/4500	1600	4500	3300	330	200	≥6	457	11	4580x1930x2800
WC67Y/K-200/4000	2000	4000	3140	330	200	≥3	457	11	4080x1930x2800
WC67Y/K-250/5000	2500	5000	3900	400	200	≥5	560	20	5550x1900x3100
WC67Y/K-300/3200	3000	3200	2500	400	250	≥3	630	19	3750x2200x3100
WC67Y/K-300/4000	3000	4000	3070	400	250	≥3	630	23	4550x2200x3300
WC67Y/K-300/5000	3000	5000	3900	400	250	≥3	630	26	5550x2200x3400
WC67Y/K-300/6000	3000	6000	4900	400	250	≥3	630	30	6550x2200x3500
WC67Y/K-400/4000	4000	4000	3000	400	300	≥2.5	770	26	4550x2600x3500
WC67Y/K-400/5000	4000	5000	3900	400	300	≥2.5	770	30	5550x2600x3700
WC67Y/K-400/6000	4000	6000	4900	400	300	≥2.5	770	36	6550x2600x3800
WC67Y/K-500/4000	5000	4000	3000	450	350	≥2.5	860	37	4650x2800x3700
WC67Y/K-500/5000	5000	5000	3900	450	350	≥2.5	860	46	5550x2800x3800
WC67Y/K-500/6000	5000	6000	4900	450	350	≥2.5	860	55	6500x2800x3800
WC67Y/K-600/6000	6000	6000	4900	450	350	≥2.5	860	60	6550x3000x4000

*The displayed parameters are for reference only, the actual parameter information is subject to the actual product