



WM | HPB SERIES



WHALE MACHINERIES

A Unit of Whale Enterprise

A Versatile and extensive range

HYDRAULIC SERVO CNC PRESS BRAKE

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 buttom bending, open distance, and automatic withdrawal of rear stopper, etc.

*Shown images are for representation purpose only



Hydraulic Servo CNC Press Brake

TECHNICAL PARAMETER

WM - HPB Technical Parameter

Overall Dimensions LxWxH (mm)	2000*1500*2350	2300*1600*2500	3100*1600*2500	3100*1600*2600	3800*1800*2600	4600*1800*2600	3800*1800*2700	4600*1800*2700	3800*2000*3100	4600*2000*2800	3800*2200*2850	4600*2200*2850	3800*2000*2900	4600*2100*3100	5600*2150*3150	6600*2150*3150	3800*2250*3200	4600*2500*3400	5600*2500*3400	6600*2500*3400	3800*2700*3500	4600*2700*3500	5600*2700*3500	6600*2700*3500	4600*2700*3500	5600*2700*3500	6600*2700*3600	2600*3300*3900	0068*3300*3300	7600*3300*3900	6600*3500*4000	6600*3500*4000
Main Motor (kW)	5.5	5.5	5.5	7.5	11	11	11	11	15	15	18.5	18.5	22	22	22	22	22	22	22	22	30	30	30	30	37	37	37	45	45	45	55	30*2
Open Height (mm)	460	460	460	460	490	490	490	490	490	490	490	490	540	540	540	540	280	580	580	580	580	580	580	580	009	009	009	640	640	640	700	800
Stroke (mm)	150	150	150	150	200	200	200	200	200	200	200	200	250	250	250	250	250	250	250	250	250	250	250	250	300	300	300	320	320	320	320	320
Throat Depth (mm)	250	300	300	300	400	400	400	400	450	450	450	450	450	450	450	450	200	200	200	200	500	200	200	200	200	200	200	009	009	009	009	009
Distance between columns (mm)	1120	1300	2050	2050	2700	3100	2700	3100	2700	3100	2600	3100	2600	3100	0088	4600	2610	2820	3800	4600	2400	3200	3800	4600	3100	3800	2050	0088	0202	2300	4900	4600
Length of Table(mm)	1300	1600	2500	2500	3200	4000	3200	4000	3200	4000	3200	4000	3200	4000	2000	0009	3200	4000	2000	0009	3200	4000	5000	0009	4000	5000	0009	2000	0009	7000	0009	6000
Nominal Pressure (kN)	400	630	630	800	1000	1000	1250	1250	1600	1600	2200	2200	2500	2500	2500	2500	3000	3000	3000	3000	4000	4000	4000	4000	2000	2000	2000	0009	0009	0009	7000	8000
Model	40T/1300	63T/1600	63T/2500	80T/2500	100T/3200	100T/4000	125T/3200	125T/4000	160T/3200	160T/4000	220T/3200	220T/4000	250T/3200	250T/4000	250T/5000	250T/6000	3001/3200	300T/4000	300T/5000	300T/6000	400T/3200	400T/4000	400T/5000	400T/6000	500T/4000	500T/5000	500T/6000	600T/5000	0009/1009	000T/T009	700T/6000	800T/6000

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Delem	DA-53T	DA-58T	DA-66T	DA-69T			
Screen parameters	10.1" Multi-point Touch Screen	15" Multi-touch Screen	17 "Infrared Touch Screen	17 "Infrared Touch Screen			
Programming mode	Manual programming	Manual Programming and 2D Graphic Programming	2D Graphic Programming and 3D Graphic Display	3D Graphics Programming and 3D Graphics Display			
Fast clamping function of mould	Non support	Non support	Support	Support			
Networking settings	No	Optional	Complete Windows Application Package	Complete Windows Application Package			
Number of control axes	Up to 4+1 Axis Control	Up to 4+1 Axis Control	Controllable 8+1 axis and above	Controllable 8+1 axis and above			
Angle detection	No	No	Sensor interface with angle detection	Sensor interface with angle detection			
Compatibility	No	No	DELEM-compatible modular structure	DELEM-compatible modular structure			
Panel personalization	Panel cannot be personalized	Panel cannot be personalized	OEM panels can be personalized	OEM panels can be personalized			
Offline software	Support offline software, USB interface can use anyU disk and specified code	Support offline software, USB interface can use any U disk and specified code	Support offline software, USB interface needs to use randomly configured designated U disk	Support offline software, USB interface needs to use randomly configured designated U disk			



DELEM DA53T control system



DELEM DA 58T 2D CNC Control Unit



DELEM DA 66T 2D CNC Control Unit



DELEM DA 69T 3D CNC Control Unit



CYBELEC CybTouch8 PS CNC Control Unit



CYBELEC CybTouch12 PS 2D CNC Control Unit

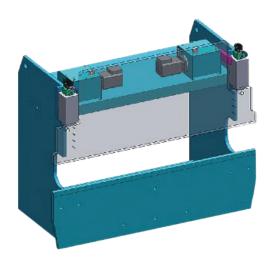


MF53S control system for CNC bending machine

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Pump Control Servo CNC Brake

- The system consumes less energy with the servo motor.
- Oil distribution according to needs has no restriction loss to achieve the energy-saving indeed.
- Low temperature-rise reduces the risk of oil leakage, which has better stability and can increase the working life of hydraulic press system and oil cylinder.
- Gear pump reduces working noise and sensitivity of oil cleanliness, low maintenance.
- Precision of ram position or manufacture isn't lower than proportional valve control system, even higher. The ram repositioning precision is +0.01mm, highest precision will be ±0.05mm.
- The consumption of hydraulic oil reduce 70%.
- The simpler installation method can improve efficiency.
- Flexible installation meets populous needs.
- Better economic and higher performance-to-price ratio.





D-SVP

province. Save 60% of electricity consumption compared with traditional transmissions high. Work efficiency can be increased by 30% (reduce cycle time) quasi. The positioning accuracy is more accurate, up to 5um Quiet. The noise is reduced and the machine tool works more quietly less. The amount of hydraulic oil used is very small, only 30% of the traditional easy. Machine tools are easier to manufacture, easier to maintain, and have a lower failure rate.

HOERBIGER ePrAX control

High efficiency and energy saving, oil tank capacity reduced by 70%.

Fast-performance and duty cycle reduction 10%.

Compared with the traditional system, energy efficiency 50% up.

The positioning accuracy of precision-up to 5m integrated servo pump.

Lower-noise at work integrated pressure filters ensures high stability and long service life.

CORE CONFIGURATION

Oil pump motor (Optional)

Uses three phase asynchronous motor and large flow pump as hydraulic active power source.



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.





Safety system (Optional)

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

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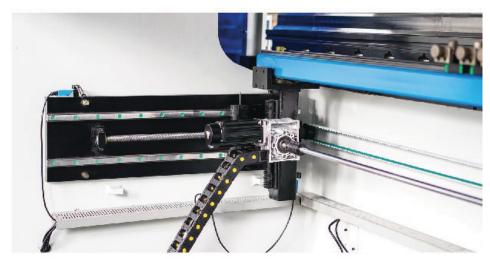
CORE CONFIGURATION

Mechanical compensation

By CNC control system, precise compensation is obtained to ensure high quality bending accuracy.







Grating ruler

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

Precise back gauge system for faster and more accurate positioning

Steel structure welding, high rigidity, servo motor, ball screw, linear guide drive, ensure the accurate positioning of the workpiece.



Under the visionary leadership of our Managing Director, Mr. Mark Warmington, Whale Tankers aims to establish the "WHALE" brand on a global scale. Harnessing innovative technology, dedicated research and expertise, our vision has evolved into a mission, embarked on a remarkable journey with the creation of a new division "WHALE MACHINERIES"-Commitment to Excellence, aimed at serving global markets.

OUR STORY

Our journey began with the vision of creating a comprehensive range of tankers that meet the specific requirements of Indian applications. With over five decades of experience in Europe, we brought our expertise and philosophy to India, focusing on delivering long-term value to our customers.

TRAINING

Central to Whale's success is not only the training of its staff but also the provision of structured training for its product. This meets the changing needs of today's laser solutions. The company is also respected for its onsite commissioning of all new products.

QUALITY

Whale Machineries cares about quality across all aspects of its business. Indeed it is a word that characterises the company. Whale complies to ISO 9001 : 2015 accredited by TUV, Europe and all Whale products fully comply with all relevant legislation and regulations. It also has the benefit from being supported by its UK parent company Whale Tankers the largest manufacturer of vacuum tankers and jetting equipment in Europe.

Reliability, Service, Value ... for Life

WHALE MACHINERIES A Unit of Whale Enterprise

