



GMT ENGINEERS

SPB SERIES SERVO CONTROLLED CNC PRESS BRAKE



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IN PROGRESS**

SPB SERIES SERVO CONTROLLED CNC PRESS BRAKE

Main functions and features

Overall welded and stress relieved structure.

High frequency valve control technology, high dynamic response and precision.

The servo motor controls the oil pump, and flexible motor speed adjustment greatly reduces hydraulic overflow and temperature. Ram movement is controlled by a proportional valve, powered by a servo-type main motor. The main servo operates only when the pedal is pressed, allowing for energy savings of up to 40% (with reduced noise).

Within one stroke, bending pressure can be controlled at random point, repeatability precision ± 0.01 , parallelism 0.02.

Lower worktable has motorised crowning device for anti deflection control through controller & upper tool has wedge compensation device

Ram Stroke (Y1, Y2), Backgauge (X, R) are controlled by CNC controller. Z1 & Z2 are Motorized adjustment through joystick.

Imported ball screw and linear guide are used for rear stopper, to ensure the positioning precision of rear stopper, for processing precision of machine to be higher.

CONTROLLER

2D part drawing programming can be done on the controller itself.

Support angle programming and depth programming switching.

Support punch & die library product library settings.

The opening height can be freely set for each step.

The position of the shifting point can be freely controlled.

Standard Y1, Y2, X, R and other multi-axis expansion

Support mechanical compensation table control

Support the automatic generation of large arcs.

Support top dead center, bottom dead center, loose foot, delay and other step change options, effectively improve processing efficiency

Support electromagnet simple bridge.

Support automatic pneumatic dragging bridge function

Support automatic bending, realize unmanned bending control, can support up to 25 steps of automatic bending

200 product library has 25 working steps, the name of each product library is customized in Chinese and English, and the large arc supports 99 working steps.

Technical Specifications:

			Parameter														
No	Item	Unit	50/1600	70/2500	110/3200	110/4000	135/3200	135/4000	170/3200	170/4000	220/3200	220/4000	250/3200	250/4000	300/3200	300/4000	
1	Capacity	kn	500	700	1100	1100	1350	1350	1700	1700	2200	2200	2500	2500	3000	3000	
2	Max. Bending Length	mm	1600	2500	3200	4000	3200	4000	3200	4000	3200	4000	3200	4000	3200	4000	
3	Between Columns	mm	1200	2100	2600	3100	2600	3100	2600	3100	2600	3100	2600	3100	2600	3100	
4	Max. Shut Height	mm	460	460	480	480	480	480	480	480	480	480	530	530	530	530	
5	Slide Stroke	mm	150	150	200	200	200	200	200	200	200	200	250	250	250	250	
6	Throat Depth	mm	300	300	410	410	410	410	410	410	410	410	410	410	410	410	
7	Down Speed	mm/min	220	200	180	180	180	180	160	160	160	160	130	130	120	120	
8	Pressing Speed	mm/min	15	15	15	15	15	15	12	12	12	12	10	10	9	9	
9	Return Speed	mm/min	200	180	160	160	160	160	130	130	130	130	120	120	110	110	
10	Main Motor Power	kW	5.5	5.5	8.7	8.7	10.8	10.8	13.2	13.2	16.7	16.7	21.4	21.4	26.9	26.9	
11	Oil Pump	cm³/rev	13	13	16	16	20	20	25	25	32	32	40	40	50	50	
12	X axis stroke	mm	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
13	X axis speed	mm / s	300	300	300	300	300	300	300	300	250	250	250	250	250	250	
14	R axis stroke	mm	200	200	200	200	200	200	200	200	200	200	200	200	200	200	
15	R axis speed	mm / s	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
16	Fingers	nos.	2(motorized)	2(motorized)	2(motorized) +2(manual)	2(motorized) +2(manual)	2(motorized) +2(manual)	2(motorized) +2(manual)	2(motorized) +2(manual)	2(motorized) +2(manual)	2(motorized) +2(manual)	2(motorized) +2(manual)	2(motorized) +2(manual)	2(motorized) +2(manual)	2(motorized) +2(manual)	2(motorized) +2(manual)	
17	Outline Size	L	mm	2100	3000	3700	4500	3700	4500	3700	4500	3700	4500	3700	4500	3700	4500
		W	mm	1500	1650	1750	1750	1800	1800	1870	1920	1920	1950	2150	2150	2180	2250
		H	mm	2300	2350	2450	2450	2450	2450	2700	2700	2700	2700	2950	3000	3100	3200
18	Weight	kg	3000	5000	7500	8500	8000	9000	9500	10800	11000	12500	14000	15800	16000	18500	

Note: From 50T to 200T, recommended to use double face 2V die(V8,V12,V16,V25). 250T-300T use 4V die(90mmX90mm)

Main configuration

Name	Producer	
CNC controller	LP54T	China Brand
Main Motor	Estun	China Brand
Electrical components	Schneider	France brand
Gear pump	First	USA brand
Seal ring	NOK	Japan brand
Hydraulic system	ReboTech	China brand
Ball screw ,Linear guide	Hawk King	Taiwan brand
Grating ruler	GIVI	Italy brand
Tubing connector	EMB	Germany Brand
Servo Motor and drive	Inovance	China Brand

Due to technological developments, the illustrations and specifications are not binding in details and are subject to modifications and improvement without prior notice. Please talk to us for your tooling requirements to suggest the best tooling for your machines



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