



NC Hydraulic Press Brake Machine



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1. Main Features

1. Totally EU streamlined design, Monoblock by welding robots & apparatus and stress relief process by Annealing treatment.
2. Adopt integrated hydraulic system, more reliable and easy for maintenance. and the hydraulic system from Bosch-Rexroth, Germany,
3. Mechanical synchronous mechanism and the complex compensation are designed so as to raise the workpieces precision.
4. The stroke and distance of the backgauge is adjusted by the motor and is well adjusted by hand, the adjustment is displayed by E21.
5. Inch, single mode being designed for the machine and reversing and maintain time can be controlled by the time relays.
6. Safe fence and the electric interlocker have been designed for the machine to ensure the operation safety.

2. Standard Equipment:

Estun E21 NC control System
Powered Depth Y-axis & Back gauge X-axis
HIWIN Ball screws & Polished rod with 0,05 mm accuracy.
Plate Support Arms
Germany Bosch-Rexroth Hydraulic
Germany EMB Tubing connector
Germany Siemens Main Motor
Telemecanique/Schneider Electrics
Hydraulic & Electrical overload protection
Top and Bottom Tooling(86°, R0.6mm)

3. Safety Equipment:

- Safety Standards(2006/42/EC):
 1. EN 12622:2009 + A1:2013
 2. EN ISO 12100:2010
 3. EN 60204-1:2006+A1:2009
- Front finger Protection(Safety light curtain)
- South Korea Kacon Foot Switch(Level 4 of safety)
- Back metal safe fence with CE standards
- Safety relay with Monitor the pedal switch and safety protection

4-Estun E21 NC Control system:

Monochrome LCD Box Panel.
 Integral factor programmable freely
 Automatic positioning control
 Spindle allowance offset
 Internal time relay
 Stock counter
 Back gauge position display, resolution in 0.05mm



Specifications:

serial no	name	unit	model smart-ak NC3200*125
1	Bending force	Ton	125
2	Bending length	mm	3200
3	Distance between columns	mm	2550
4	Stroke (y-axis)	mm	130
5	Daylight	mm	380
6	Throat Depth	mm	320
7	Bed Height	mm	820
8	Y-axis advance speed	mm/sec	110
9	Y-axis working speed	mm/sec	5-12(adjustable)
10	Y-axis return speed	mm/sec	100
11	back gauge accuracy	mm	0.05
12	X-axis back gauge travel	mm	600
13	Work piece straightness	mm	0.5/m
14	Bending angle accuracy	(°)	< 40
15	Sliding front arms	pcs	2
16	Back gauge finger block	pcs	4
17	motor power	kw	7.5
18	Crowning system	-	-
19	Length * width * height	mm	3650*1650*7350
20	Weight	kg	7350



Main Configuration :

MAIN CONFIGURATION LIST		
Esturn NC system	<input checked="" type="radio"/> estun E21	<input type="radio"/> estun E10d
Electrical components	Schneider electrical from french	
Main motor	siemens from germany	
Back gauge & ram driver	invert from taiwan delta	Accurate positioning control
Ball screw / liner Guide	HIWIN from Taiwan brand	
Foot switch	Kacon from south korea	
Travel switch	Schneider electrical from french	
Hydraulic system	Bosch-rexroth from germany	
Hydraulic Pump	Bosch-rexroth from germany	Optional
Tubing connector	EMB from Germany brand	
Manual Crowning system	From k machinery 2015 design	Optional
Three color alarm lamp	<input checked="" type="radio"/> yes	<input type="radio"/> no

SAFETY CONFIGURATION			
Warning of high oil temperature	<input checked="" type="radio"/> yes	<input type="radio"/> no	
High oil pressure protection	<input checked="" type="radio"/> yes	<input type="radio"/> no	
motor overload protection	<input checked="" type="radio"/> yes	<input type="radio"/> no	
Laser safety protection	<input type="radio"/> yes	<input checked="" type="radio"/> no	
Left & Right side protection	<input checked="" type="radio"/> yes	<input type="radio"/> no	Fixed type (metal)
Electricity leaking protection	<input checked="" type="radio"/> yes	<input type="radio"/> no	
Safety relay	<input checked="" type="radio"/> yes	<input type="radio"/> no	
Monitoring and redundant valves	<input checked="" type="radio"/> yes	<input type="radio"/> no	
safety standards	<input checked="" type="radio"/> Ce	<input checked="" type="radio"/> NR-12	<input type="radio"/> OSHA <input type="radio"/> CSA