

## CNC hydraulic press brakes

- Accurate positioning and repeatability performance of synchronized CNC brakes
- Calibration of cylinder axes and back gauge axes, maintained by automatic indexing at the start of machine
- Calculation and performing of below facilities:
  - determination of bending force necessary of bending stroke
  - Inspection on display, of potential interference between machine, tools and parts before and after each bend
  - automatic positioning of the backgauge for each step of the bending program
  - calculation of bottom and top dead centre for accurate bending angle
- storage and recalling of bending tools
- programming of bending speeds
- selection of manual, semi-automatic and automatic working modes
- Welded steel construction of monobloc frame
- Bend performing by down stroking beam
- Cylinders made from high quality forged steel
- Pistons hardened, chrome plated and ground precisely
- Hardened ram slideways working with low friction and wear resistant material and optimum lubrication grooves
- CNC controlled backgauge with ballscrews spindles, ball guides and AC or DC servomotors
- Compact Rexroth hydraulic blocks
- Full electronic synchronization with proportional valve technology.



		PP500/6000 CNC	PP500/4000 CNC	PP400/6000 CNC	PP400/4000 CNC	PP300/6000 CNC	PP300/5000 CNC	PP300/4000 CNC	PP250/6000 CNC
Capacity	kN	5000	5000	4000	4000	3000	3000	3000	2500
Bending lenght	mm	6000	4000	6000	4000	6000	5000	4000	6000
Between columns	mm	4760	3050	5000	3140	4900	3900	2900	5000
Throat depth	mm	400	400	400	400	400	400	400	400
Slide stroke	mm	320	320	320	320	250	250	250	250
Stroke adjustment	mm	220	220	220	220	180	180	180	180
Max. shut height	mm	630	630	600	600	535	535	535	500
SPM	min-1	≥2.5	≥2.5	≥2.5	≥2.5	≥3	≥3	≥3	≥3
Main motor power	kW	37	37	37	37	22	22	22	18,5
Electrical supply	V/Hz	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH
Overall dimensions	mm	6200×4115 ×4760	4200×4115 ×4760	6150×3250 ×3900	4120×2625 ×3700	6120×1950 ×3520	5120×1950 ×3115	4120×1950 ×3115	6120×2210 ×2980
Weight	kg	47500	42000	41000	30000	29200	27000	24300	18500

		PP250/5000 CNC	PP250/4200 CNC	PP250/3200 CNC	PP200/6000 CNC	PP200/4000 CNC	PP200/3200 CNC	PP160/6000 CNC	PP160/4000 CNC
Capacity	kN	2500	2500	2500	2000	2000	2000	1600	1600
Bending lenght	mm	5000	4200	3200	6000	4000	3200	6000	4000
Between columns	mm	4000	3140	2540	4800	3260	2550	4800	3140
Throat depth	mm	400	400	400	350	350	350	330	330
Slide stroke	mm	250	250	250	200	200	200	200	200
Stroke adjustment	mm	180	180	180	150	150	150	150	150
Max. shut height	mm	500	500	500	450	450	450	465	465
SPM	min-1	≥3	≥3	≥3	≥3	≥3	≥3	≥6	≥6
Main motor power	kW	18,5	18,5	18,5	15	15	15	11	11
Electrical supply	V/Hz	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH
Overall dimensions	mm	5120×2210 ×2980	4340×1950 ×2920	3750×1970 ×2920	6120×2315 ×2900	4440×1810 ×2825	3750×1855 ×2825	6140×1900 ×2960	4240×1830 ×2540
Weight	kg	17000	15220	13740	23000	13300	11340	18500	11060

		PP160/3200 CNC	PP160/2500 CNC	PP125/3200 CNC	PP125/2500 CNC	PP100/4000 CNC	PP100/3200 CNC	PP100/2500 CNC	PP80/4000 CNC
Capacity	kN	1600	1600	1250	1250	1000	1000	1000	800
Bending lenght	mm	3200	2500	3200	2500	4000	3200	2500	4000
Between columns	mm	2540	1950	2550	1850	3350	2550	1850	3350
Throat depth	mm	330	330	320	320	320	320	320	280
Slide stroke	mm	200	200	130	130	130	130	130	100
Stroke adjustment	mm	150	150	100	100	100	100	100	80
Max. shut height	mm	465	465	390	390	390	390	390	360
SPM	min-1	≥6	≥6	≥10	≥10	≥10	≥10	≥10	≥10
Main motor power	kW	11	11	7,5	7,5	7,5	7,5	7,5	7,5
Electrical supply	V/Hz	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH
Overall dimensions	mm	3400×1830 ×2540	2800×1830 ×2540	3390×1570 ×2450	2690×1570 ×2450	4190×1570 ×2450	3390×1570 ×2450	2690×1570 ×2450	4210×1550 ×2300
Weight	kg	9620	8800	7200	6000	8300	7300	5950	7620

		PP80/3200 CNC	PP80/2500 CNC	PP63/2500 CNC	PP40/2500 CNC	PP40/2000 CNC
Capacity	kN	800	800	630	400	400
Bending lenght	mm	3200	2500	2500	2500	2000
Between columns	mm	2600	1990	2000	2000	1650
Throat depth	mm	280	280	250	200	200
Slide stroke	mm	100	100	100	100	100
Stroke adjustment	mm	80	80	80	80	80
Max. shut height	mm	360	360	340	330	330
SPM	min-1	≥10	≥10	≥10	≥11	≥11
Main motor power	kW	7,5	7,5	5,5	4	4
Electrical supply	V/Hz	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH	400/50 3 PH
Overall dimensions	mm	3410×1550 ×2300	2690×1530 ×2300	2680×1540 ×2200	2670×1200 ×2240	2210×1100 ×2240
Weight	kg	6080	4700	4540	3500	2920

### CNC hydraulic press brakes - standard equipment

- Control of the following 4 axes: Y1, Y2, X, R
- Delem DA51, DA64, Delem DA65W or Cybelec DNC 80, DNC800 graphical control units
- Backgauge system with X and R axes driven by AC indramat drivers and servo motors or linear guides
- Original CE conformed Bosch-Rexroth or Hoerbiger servo hydraulic systems with different types for different pressing capacities
- Wila manual bottom table anti deflection system for optimum bend angle precision throughout the full bending length
- Amada Promecam type tool hoding system
- Standard table with T channels and standard bottom tool clamping
- Ergonomic swinging control panel
- Multi functional CE conformed foot pedal
- Two hand control system or front light barrier for the safety of the operators
- Side and rear safety guards and safety interlock switches according to CE safety regulations
- Backgauge positioning fingers move along linear bearings with  $\pm 0,01$  mm. positioning tolerance
- Two laterally adjustable front support arms with slot for height adjustment and slot front stop.

