Yawei
NISSHINBO

PBB Series CNC Sheetmetal Pressbrake

La série de presses-plieuses synchronisées à CNC

Yawei

Streamlined, high speed, high precision CNC sheetmetal press brake
Electro-Hydraulic full loop servo system controls upper beam, ensuring
consistent parallelism.
Standard European style tooling with wide variety of options available for
North American tooling styles
Standard X-axis back gauge is positioned by servomotor-driven ball screws
and moves on precision linear guides.
Standard CNC-controlled automatic crowning works in the background
to prevent over-bending or under-bending of portions of long workpieces.

**Yawei**

Control Technology

PBB series press brakes utilize a full loop electro-hydraulic servo to synchronize the Y1 and Y2 axes for perfectly parallel movement of the upper beam relative to the lower tooling. The CNC controller continuously monitors the actual distance of each Y axis to the lower table to compensate for off-center loading or the use of blanks with assymetrical shapes or pre-punched openings.

The PBB CNC control also automatically provides the proper amount of lower table crowning, avoiding under-bending of the midsection of long workpieces and the over-bending often resulting from pre-crowned fixed-table machines and improperly adjusted mechanical devices.
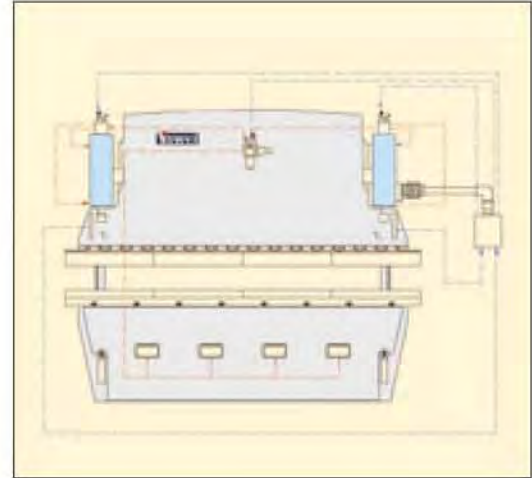
Crowning Compensation

The PBB and PBH series machines are constructed with a three-piece lower table; the outer sections are fixed and the middle section is moved upwards hydraulically by multiple cylinders controlled by the DELEM controller.
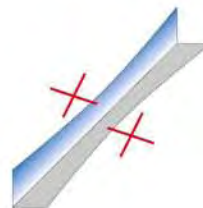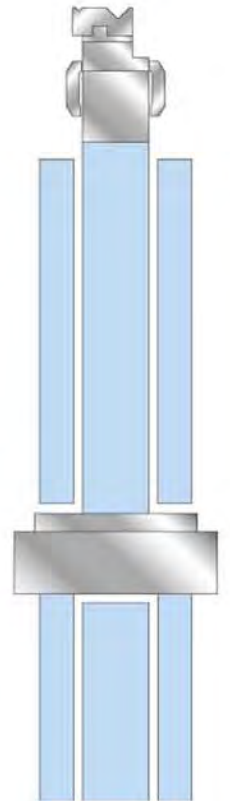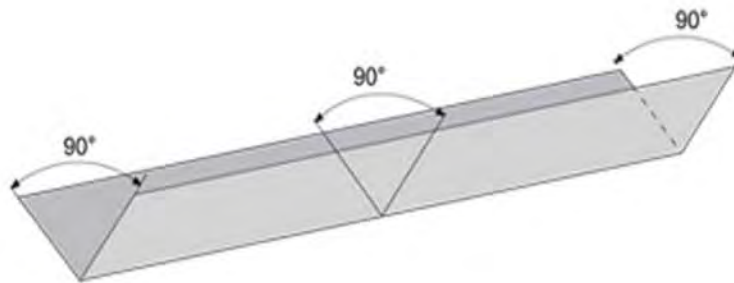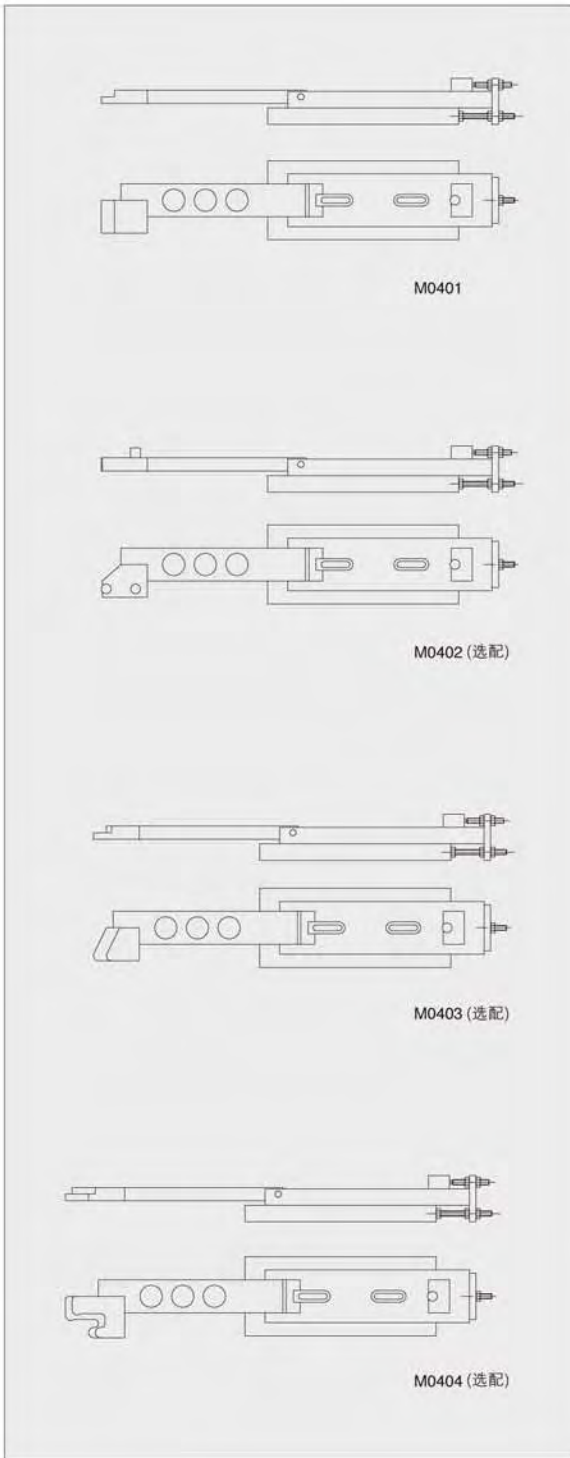
Hydraulic compensation system for worktable   Mechanical compensation system for worktable   No compensation system on worktable

M0401

M0402 (选配)

M0403 (选配)

M0404 (选配)

Stop-finger structure
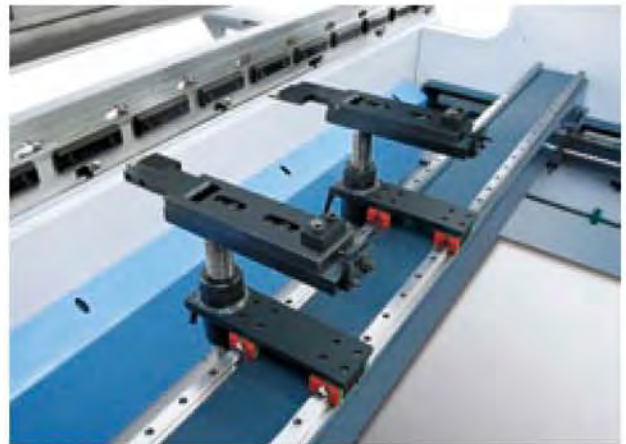
X Standard
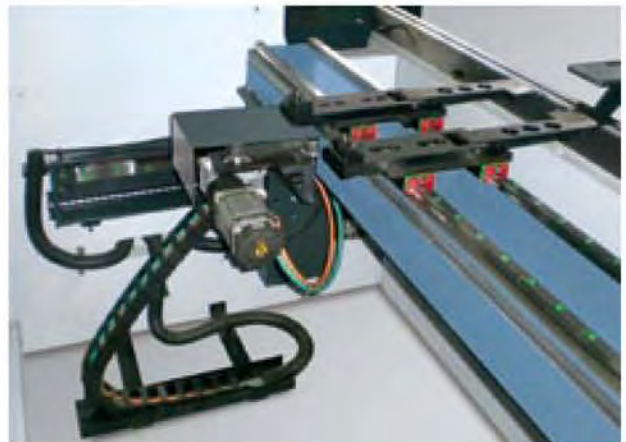
X-R   (option)

$X-R-Z_1-Z_2$ (option)

Yawei

$X–R–Z_1–Z_2–X_1$ (option)

$X_1–X_2–R_1–R_2–Z_1–Z_2$ (option)

Yawei

Upper Tool Clamping

Standard
Upper tool mechanical wedge clamping

Upper tool mechanical fast clamping(option)

Upper tool hyraulic clamping(option)

Yawei

Yawei

Standard
Lower tool 2–V clamping

Lower tool 1–V clamping(option)

Lower tool multi–V clamping(option)

Yawei

Step-adjust front sheet-support

Adjustable front sheet-support along the linear guide(option)

Hydraulic front bend help(option)

Yawei

light curtain safety device (option)

CE standard laser safety device (option)

CE标准光幕安全装置(选配)
CE standard light curtain safety device (option)

CNC system

Standard DELEM DA-56W

The graphical programming, bend sequence computation and 2D simulation provide a user-friendly and fast programmable CNC for press brakes .
Monitor is 10" Colour TFT.
Programming the Delem DA-56 is simply drawing the profile of your product on the screen.
Simulation of the bend sequence is done with the userfriendly bend determination tool.
With one simple keystroke, the CNC program is calculated and stored.
Many facilities are supported such as:

2D graphical programming.
Bend sequence determination
Crowning control
Servo, frequency invertor and AC control
USB interface for easy connection of external devices (keyboard, mouse, etc.)

Optional DELEM DA-65W

The graphical programming, bend sequence computation and 2D simulation provide a user-friendly and fast programmable CNC for press brakes.
Monitor is 12" Coulor TFT.
Programming the Delem DA-66W is simply drawing the profile of your product on the screen.
The bend expert program automatically calculates the optimum bending sequence whereafter you can watch a 2D simulation of your product showing you how to place it in the machine.
Many facilities are supported such as:

Error message system and help texts to warn you for faulty programming, operation errors and machine errors. This saves a lot of time finding out what is wrong.
Real-time Windows system for multitasking and file management.
Standard Ethernet interface for easy Windows Networking.
USB interface for easy connection of external devices (keyboard, mouse, etc.)
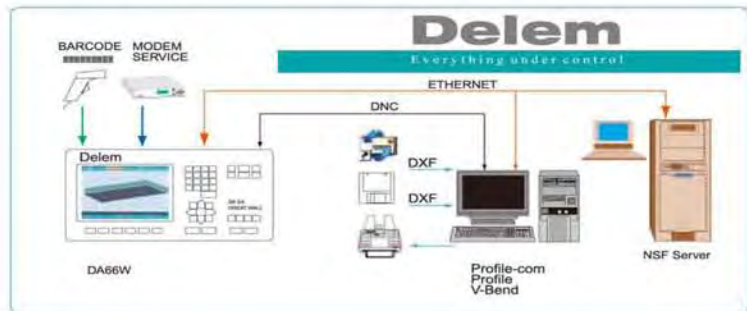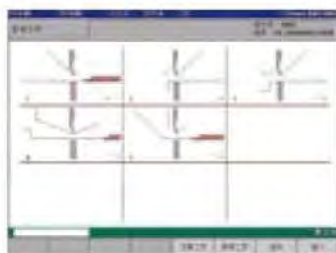
System Features

○ Patent WinCE platform for press brake application, instant shut-off keep system reliably running

○ 10.4" TFT color LCD, real scale display machine, tooling and products, easy to use

○ 2D programming, automatic bend sequence calculation, Automatic collision detection

○ Calculating of the crowning compensation to the worktable

○ Integrated A graphical analysis tool

○ Self-learning correction database

○ Network and Remote diagnostics

○ System diagnosis

System Configuration

○ Color LCD display

○ 10.4" TFT, high brightness, 800 x 600 pixels

○ 200MHz microprocessor

○ Memory capacity 32M

○ Standard Windows networking
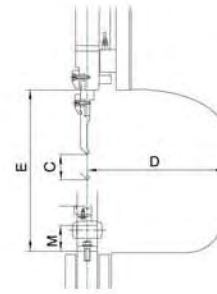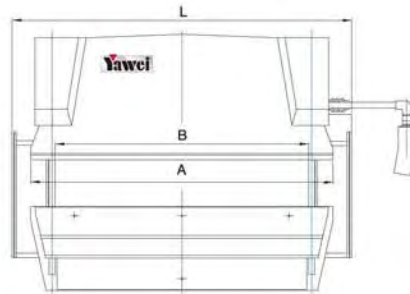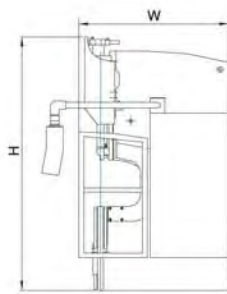
○ USB flash memory drive

(Options aravlable for other CNC controllers of Delem or Cybelec)

Standard Configuration

- CNC controller is Delem DA56 from the Netherlands
- Hydraulic system is a full-closed loop electro-hydraulic servo synchronous control system from germany
- Worktable is equipped with automatic CNC controlling hydrautic crowing system
- Backgauge has one CNC X axis, it is driven by AC servo motor, moved with ball screw and guided by linear guide, the stop-finger can move easily along the linear guide
- Supply   one set of European type upper tool and mechanical wedge clamping
- Supply   one set of 2-V fast change lower tool
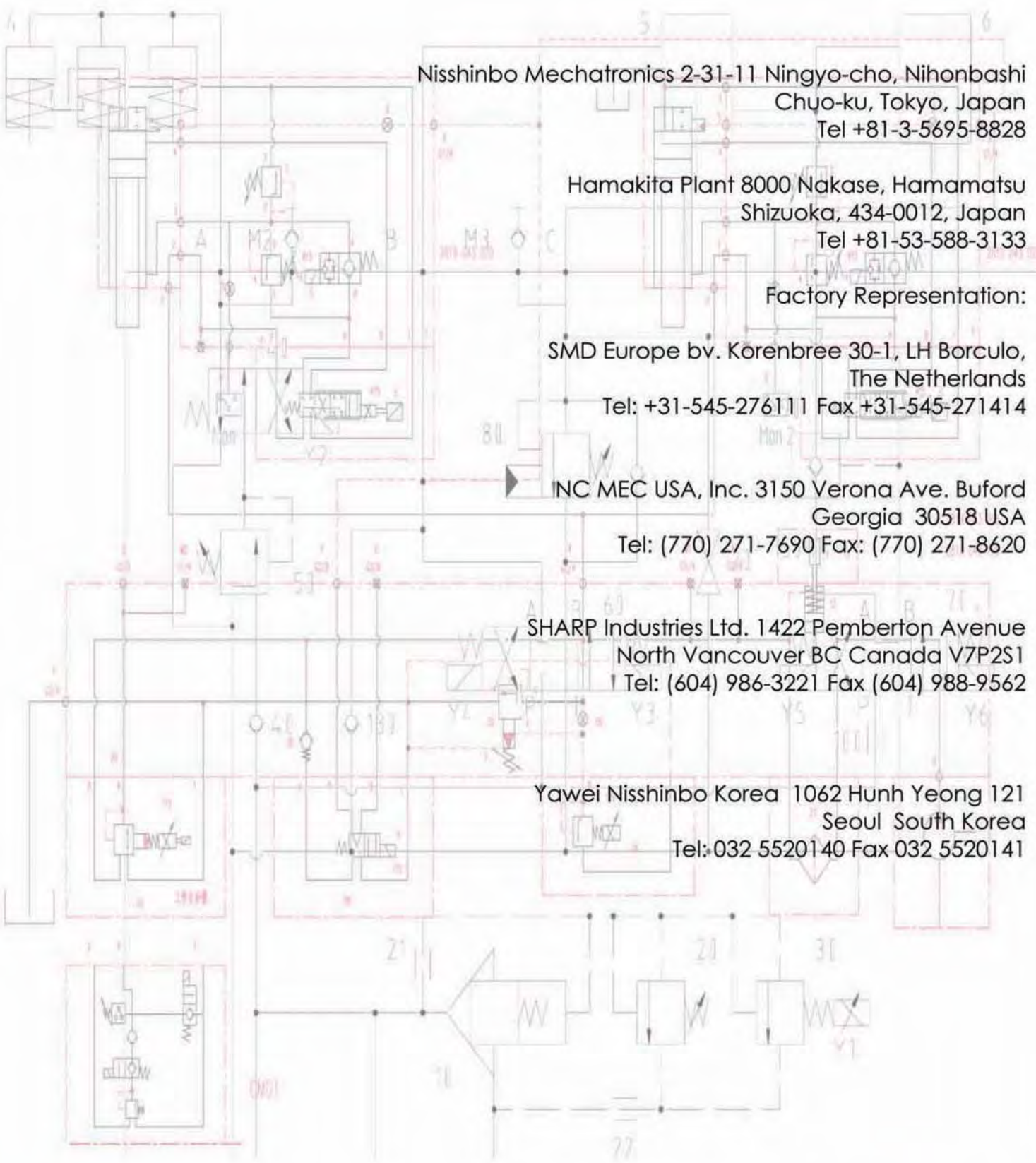- The front sheet-support postion can be adjusted step by step along the worktable

2-Vworktable

PBB series CNC sheetmetal pressbrake

Specification	Nominal pressure	A Length of work table	B Distance between uprights	D Throat depth	C Ram stroke	E Die setting height	M Thickness of worktable	Ram speed			Power of motor	Tank volume	L×W×H Overall dimension	Weight
	kN	mm	mm	mm	mm	mm	mm	mm/s			kW	L	mm	kg
PBB-80/2550	800	2550	2150	350	175	440	80	130	10	110	5.5	130	3100×1450×2290	6300
PBB-110/3100	1100	3100	2600	410	215	480	80	130	10	110	7.5	260	3560×1520×2480	8800
PBB-160/3100	1600	3100	2600	410	215	480	80	130	10	100	11	360	3580×1635×2480	10700
PBB-160/4100		4100	3600									500	4580×1635×2580	13000
PBB-220/3100	2200	3100	2600	410	215	480	80	130	10	100	15	450	3580×1860×2530	13300
PBB-220/4100		4100	3600									600	4580×1860×2630	15900
PBB-300/3100	3000	3100	2600	410	265	580	80	120	10	100	22	540	3600×2000×2780	18000
PBB-300/4100		4100	3600									700	4600×2000×2910	21500

We can design and manufacture production of special order

Yawei

Nisshinbo Mechatronics 2-31-11 Ningyo-cho, Nihonbashi
Chuo-ku, Tokyo, Japan
Tel +81-3-5695-8828

Hamakita Plant 8000 Nakase, Hamamatsu
Shizuoka, 434-0012, Japan
Tel +81-53-588-3133

Factory Representation:

SMD Europe bv. Korenbree 30-1, LH Borculo,
The Netherlands
Tel: +31-545-276111 Fax +31-545-271414

INC MEC USA, Inc. 3150 Verona Ave. Buford
Georgia 30518 USA
Tel: (770) 271-7690 Fax: (770) 271-8620

SHARP Industries Ltd. 1422 Pemberton Avenue
North Vancouver BC Canada V7P2S1
Tel: (604) 986-3221 Fax (604) 988-9562

Yawei Nisshinbo Korea 1062 Hunh Yeong 121
Seoul South Korea
Tel: 032 5520140 Fax 032 5520141