

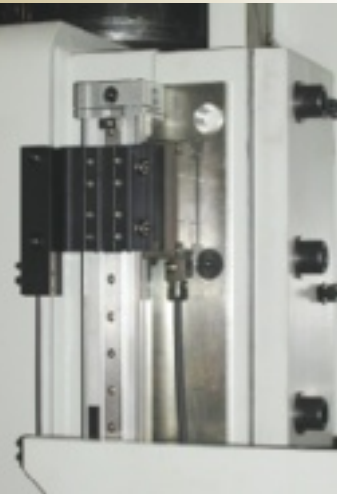


P R E S S   B R A K E S

# PPEC



# Precision Hydraulic Press Brakes



**M**eeting the demands of a constantly changing marketplace requires flexibility, reliability and the use of advanced production techniques that ensure end-product quality.

Flexible automation has become a key element in the success of any manufacturer. LVD press brakes represent the latest technology in press brake automation, providing industry with the means to respond to an ever-evolving marketplace.

The latest addition to our comprehensive range of press brakes is the PPEC.

This simple to use machine is available in sizes from 80 to 220 tons and bend lengths from 2000 to 4270 mm and is offered in two models. The PPEC-4 provides a four-axis configuration. The PPEC-5 is a five-axis design equipped with a CNC controlled crowning table.

## *Rigid Frame Design*

- Press brakes up to 220 tons are designed and built utilizing a welded one-piece frame, machined without repositioning and stress relieved by vibration, guaranteeing machine precision.
- Hydraulic cylinders are machined from a solid steel billet.
- Pistons are steel forgings, precision ground and micropolished for years of trouble-free service.

## *Microprocessor Technology for Optimum Precision*

- Servo-controlled using state-of-the-art hydraulics and electronics to ensure perfect control of the bending process.
- Double bed referenced encoders are connected to the bed in such a way that deformation of the side frames during bending does not influence the positioning accuracy of 0,01 mm of the upper beam (Y1-Y2).

With LVD press brakes, you obtain an optimal bending process and excellent bending results — from the first piece.



# TOUCH SCREEN CONTROL

- Linux Unix based system
- Easy-to-use for fast programming of simple parts

## Control Features

- Synchronization of hydraulic axes
- Alphanumerical characters
- Mm or inch unit
- Supports several languages (English, German, French, Italian, Dutch, etc.)
- Creation, modification and deletion of punches and dies
- Automatic calculation of lower dead point (Y-stroke)
- Improved bend allowance algorithm based on extensive experience
- Automatic calculation of correct bend allowance for standard materials and every combination of standard tools
- Automatic selection of tools based on material thickness
- Program overview in editor mode and in production mode
- Easy method for adjusting correction angle and correction of bend allowance
- Part counter

## Hardware Specifications

- 667 MHz processor
- 256 MB RAM
- USB port with 128 MB Memory Stick for storage of programs and tools
- TFT touch screen 10" - 800x600 pixels



Manual mode (go to position)



Tooling database



Program data production mode



Program editing



Lazer safe mode

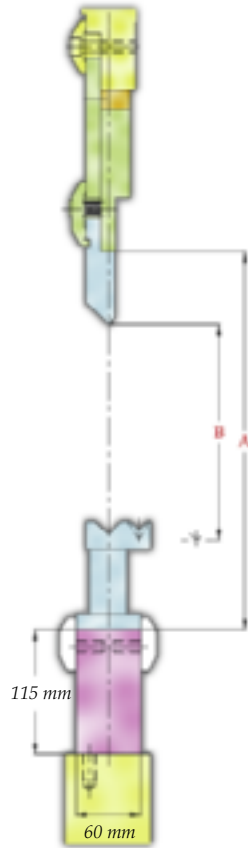


File menu

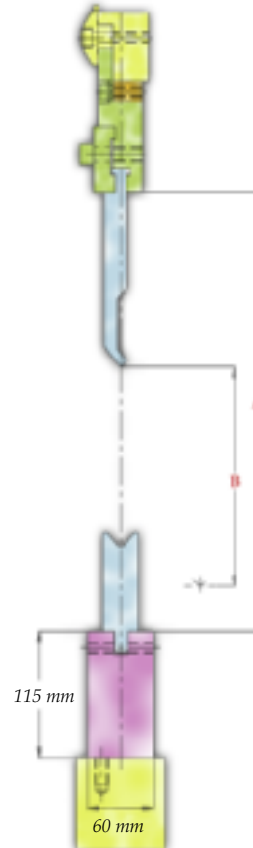


Service menu

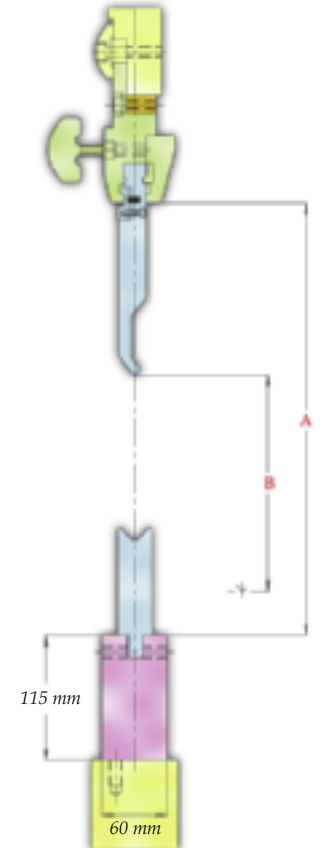
*Universal-style Tooling*



*LVD-style Tooling*



*Vertical-style Tooling*



| Capacity | A<br>Distance table/ram | B<br>Stroke |
|----------|-------------------------|-------------|
| 80-170 T | 350 mm                  | 200 mm      |
| 220 T    | 435 mm                  | 250 mm      |

| Capacity | A<br>Distance table/ram | B<br>Stroke |
|----------|-------------------------|-------------|
| 80-170 T | 400 mm                  | 200 mm      |
| 220 T    | 485 mm                  | 250 mm      |

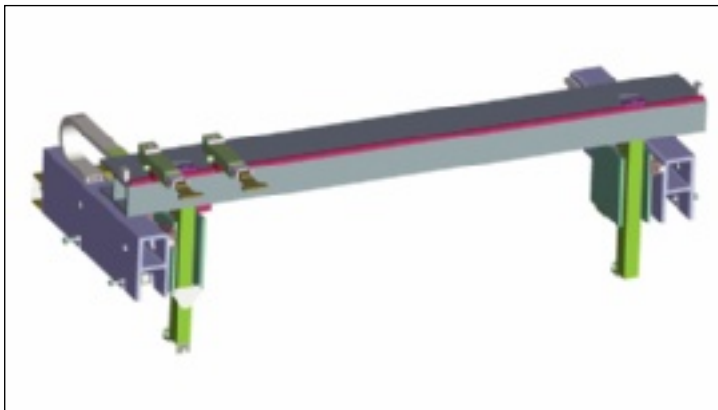
S P E C I F I C A T I O N S

| Type                      |      | 80/20 | 80/25 | 135/30 | 135/42 | 170/30 | 170/42 | 220/30 | 220/42 |
|---------------------------|------|-------|-------|--------|--------|--------|--------|--------|--------|
| Pressing force            | kN   | 800   | 800   | 1350   | 1350   | 1700   | 1700   | 2200   | 2200   |
| Working length            | mm   | 2000  | 2500  | 3050   | 4270   | 3050   | 4270   | 3050   | 4270   |
| Distance between uprights | mm   | 1550  | 2050  | 2600   | 3820   | 2600   | 3820   | 2600   | 3820   |
| Stroke                    | mm   | 200   | 200   | 200    | 200    | 200    | 200    | 250    | 250    |
| Distance table/ram*       | mm   | 400   | 400   | 400    | 400    | 400    | 400    | 485    | 485    |
| Gap                       | mm   | 400   | 400   | 400    | 400    | 400    | 400    | 400    | 400    |
| Approach speed            | mm/s | 130   | 130   | 130    | 130    | 100    | 100    | 100    | 100    |
| Working speed**           | mm/s | 10,0  | 10,0  | 12,0   | 12,0   | 12,0   | 12,0   | 9,5    | 9,5    |
| Return speed              | mm/s | 113   | 113   | 115    | 115    | 130    | 130    | 110    | 110    |
| Motor                     | kW   | 7,5   | 7,5   | 15     | 15     | 22     | 22     | 22     | 22     |
| Oil                       | l    | 125   | 125   | 250    | 250    | 350    | 350    | 350    | 350    |

\* For European-style tooling, the distance table/ram is 350 mm for machines up to 170 T and 435 mm for 220 T machines.

\*\* For CE-countries working speed is limited according to safety norm.

# Two-Axis Backgauge

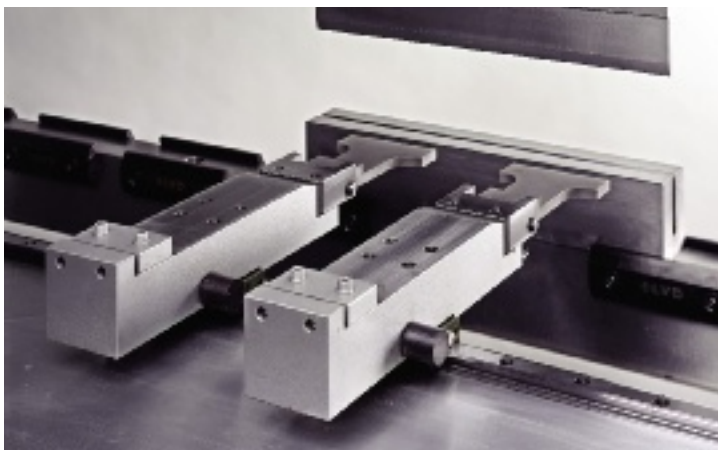
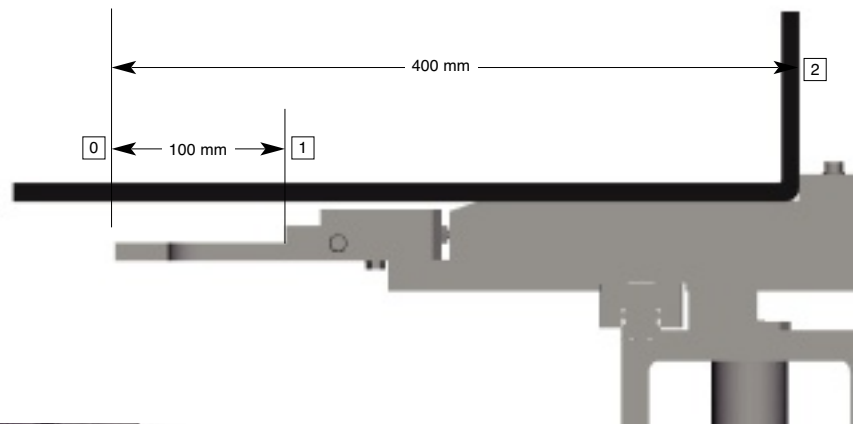


*X duo-R*

The solid two-axis backgauge allows depth (X-axis) and height (R-axis) positioning of the two standard backgauge fingers. Additional backgauge fingers can be supplied if required.

Lateral adjustment of the gauging fingers is done manually from the front of the machine: X-axis positioning brings the fingers 40 mm beyond the bending axis. Prestressing on their guiding keeps them in position.

*Standard PPEC backgauge fingers with three gauge positions allow gauging to 1000 mm with material support.*





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