

HACO



ANGLE NOTCHING MACHINES

The introduction of the hydraulic angle notching range is a logical result of HACO's goal to offer a complete range of high precision, reliable and affordable sheetmetal working machinery.

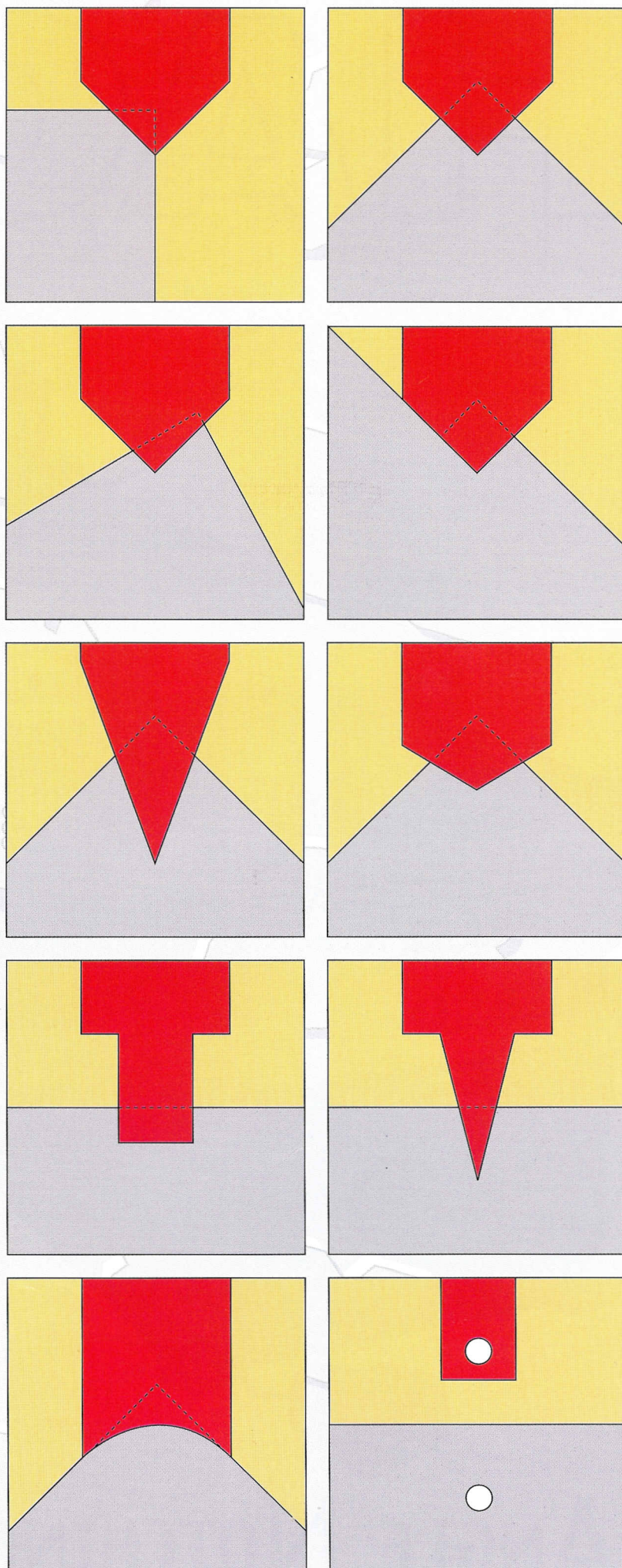
Our long experience as a manufacturer of hydraulic pressbrakes and shears has been applied in the development of these machines.

We offer a complete line of angle notching machines:

- fixed angle 90°
- variable angle 30° to 140° with single or double working station
- capacities from 4 to 6 mm mild steel

Main characteristics and advantages of our machines:

- modern design
- sturdy monoblock construction
- highest precision
- hydraulic system powered by 1 cylinder
- accurate and long guiding system
- automatic blade-gap adjustment as a function of sheet thickness
- flexibility by cutting different angles and materials
- blades for stainless steel cutting
- fast and precise cutting action

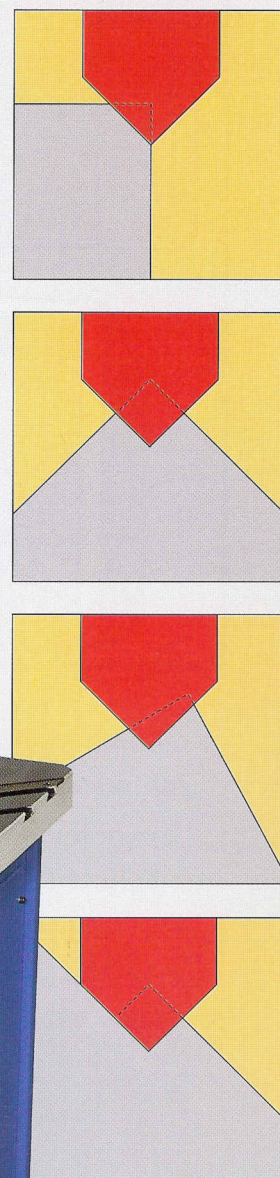


FIXED ANGLE 90°

MINI 220/4 - MAXI 250/6

Standard Execution:

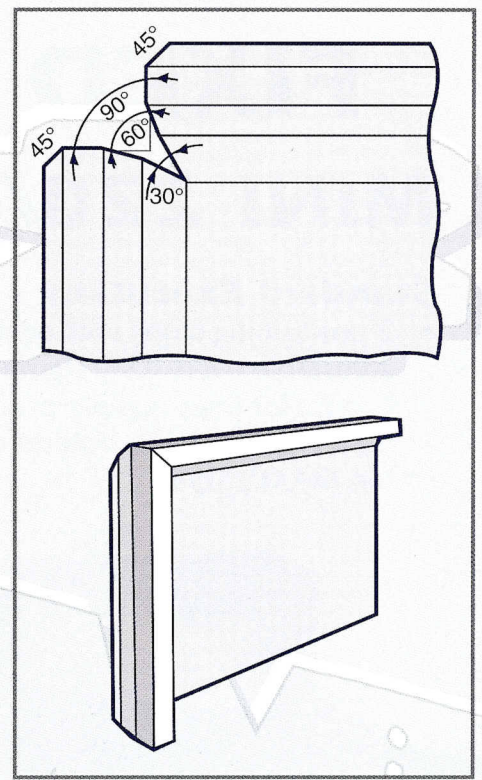
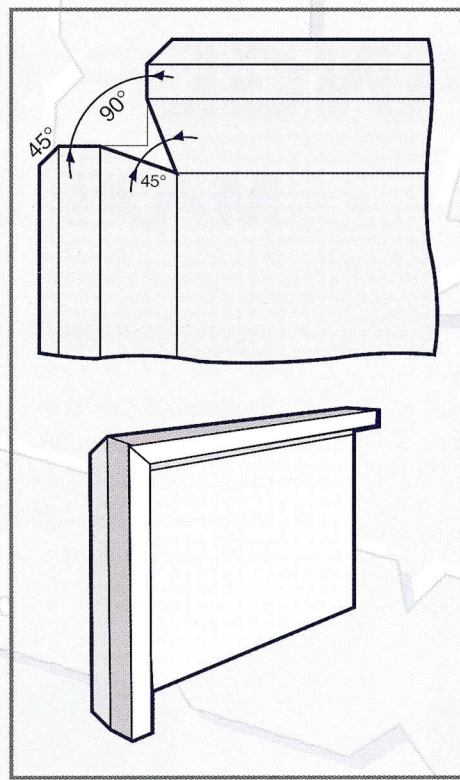
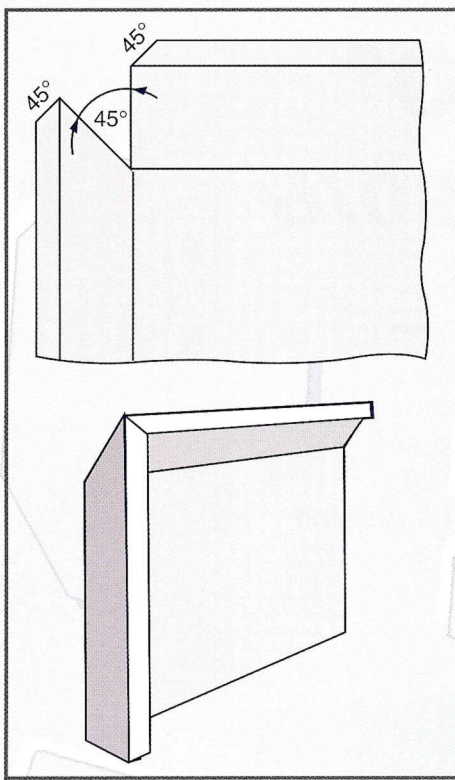
- 2 positioning stops with scale, adjustable every 15°, clamping handle for intermediate positions
- 2 mechanical plate holddowns (on MAXI 250/6)
- mechanical stroke adjuster (on MAXI 250/6)
- footpedal control
- transparent hand-safe guards
- backstops (on MAXI 250/6)
- large working table, with dovetail-slots and scales



Technical specifications

Full hydraulic operation
Automatic blade gap adjustment
Fixed angle cutting 90°

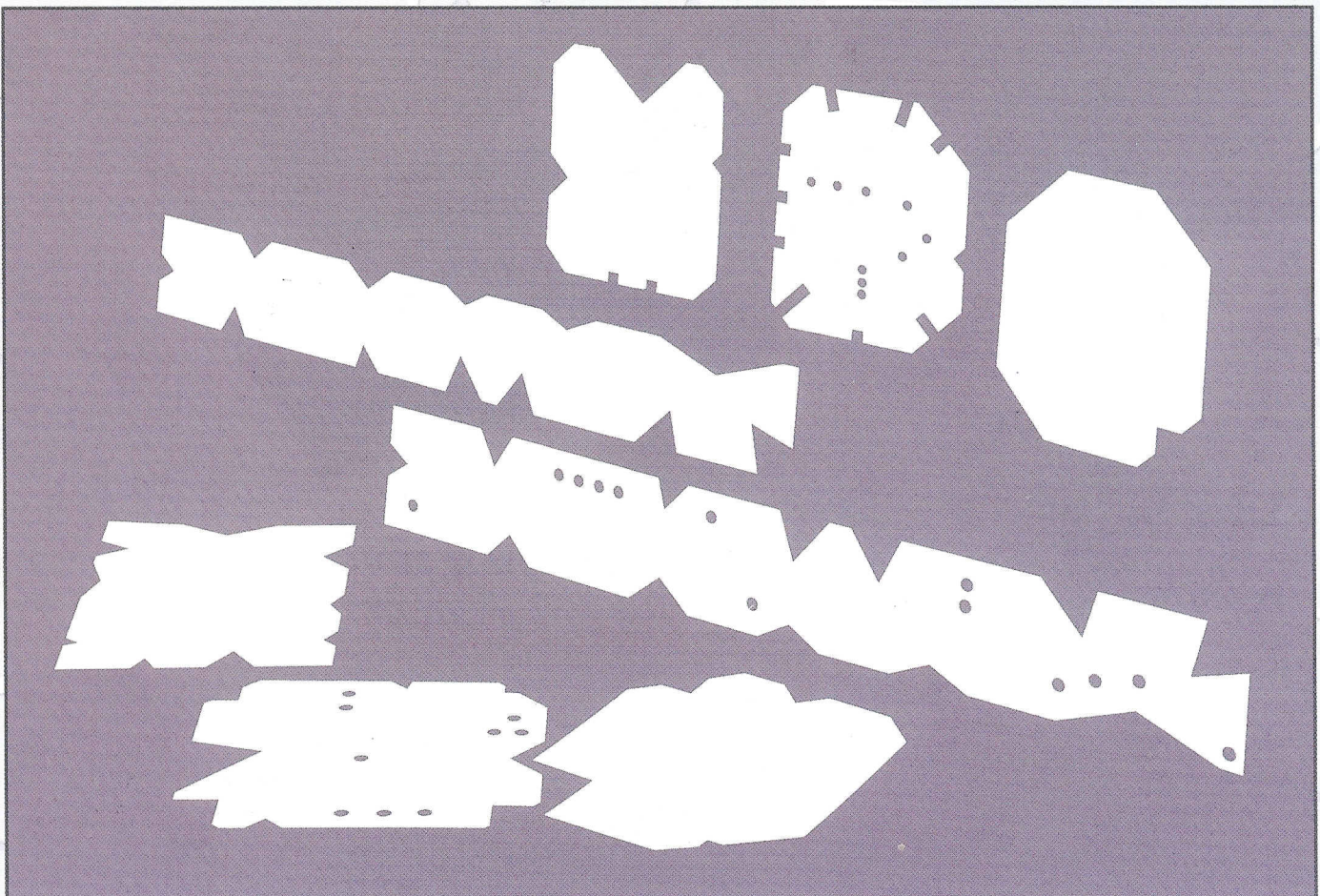
	MINI 220/4	MAXI 250/6
Max. sheet thickness (R=45 kg/mm ²)	4 mm	6 mm
Blade length	220 mm	250 mm
Cutting angle	90 degr.	90 degr.
Strokes / min.	35	35
Table dimensions	650 x 650 mm	900 x 700 mm
Working height	890 mm	890 mm
Motor Power	2.2 kW	4 kW
Overall dimensions	650 x 750 x 1050 mm	900 x 920 x 1110 mm
Nett weight	550 kg	800 kg



Combining the variable cutting angle with the flexible positioning squares results in an almost infinite range of different products which can be manufactured.

The quick angle setting is done by handwheels on each side with read-out on scales in the machine table.

The simple to activate knife blocking system secures the cutting angle, even when cutting heavy material.



VARIABLE ANGLE 30 - 140°

VARI 220/6

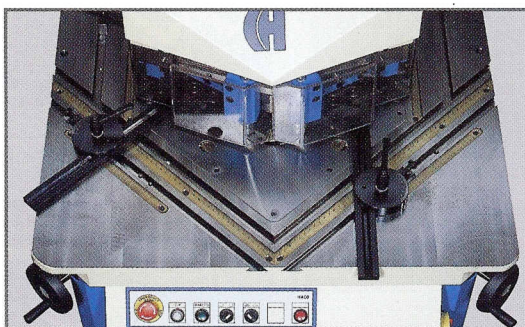
Standard equipment:

- hydraulic angle notcher with variable Angle
- 2 mechanical sheet holddowns
- Automatic blade gap adjustment
- 2 positioning squares with protractor, adjustable 0-90°, fixing holes every 15°
- millimetric scales
- 60° negative blades to cut stainless steel
- 1 extra set 30° positive blades to cut stainless steel
- large working table with double dovetail-slots
- mechanical vertical stroke adjuster with readout
- backstop
- transparent hand-safe guards
- remote footpedal command
- hydraulic oil

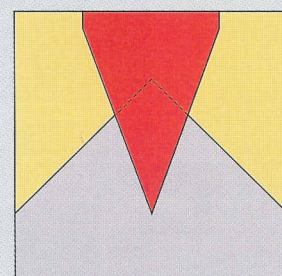
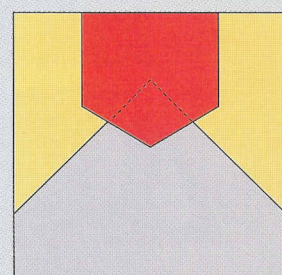
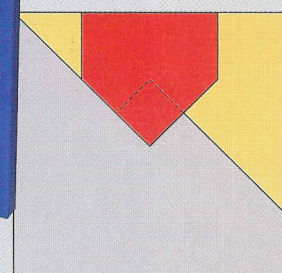
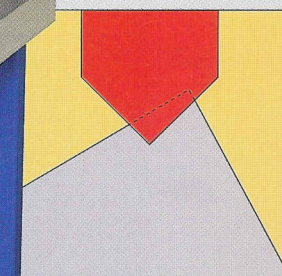
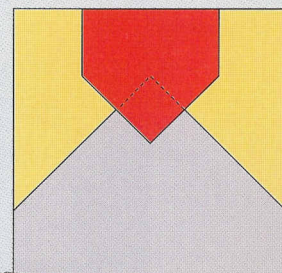
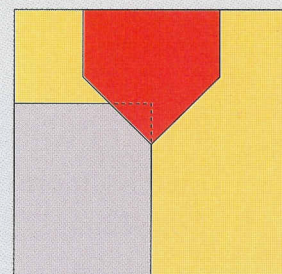


Technical specifications

Capacity (Mild steel 45 kg/mm ²)	at 60°	6 mm
	at 30°	4 mm
Blade length		220 mm
Angle		from 30 to 140°
Strokes per minute		40
Table size		940 x 1020 mm
Motor		4 kW
Height of working table		930 mm
Overall dimensions		1100 x 1200 x 1400 mm
Weight approx.		1000 kg

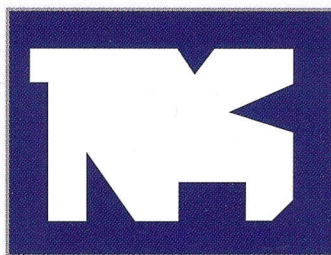
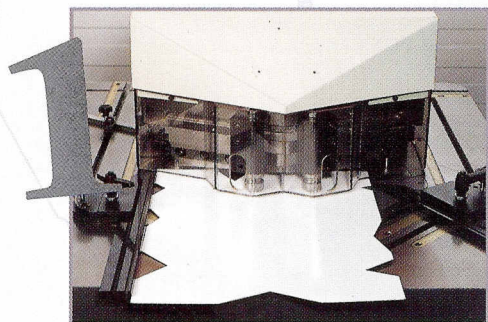


Machine table with engraved scales and positioning squares, lockable every 15°.

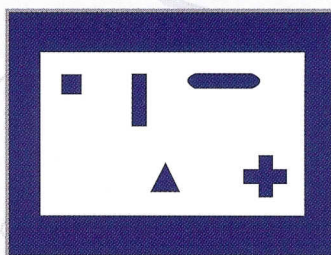
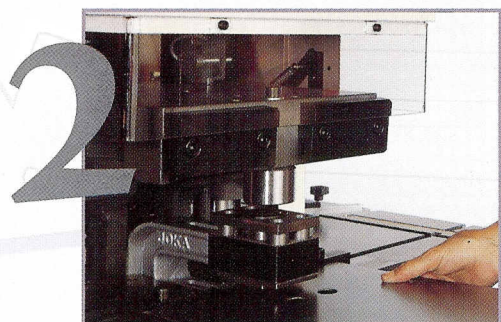


VARIABLE ANGLE NO + EXTRA WORKSTATION

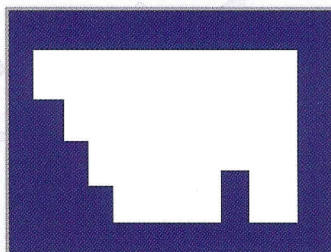
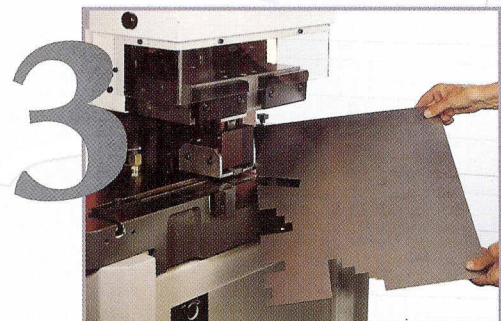
The COMBI 220/6 combines the advantages of a variable angle notcher with an additional workstation for punching, bending, rectangular notching and pressing resulting in not a one-job machine, but a multi-purpose flexible machine, indispensable in every workshop.



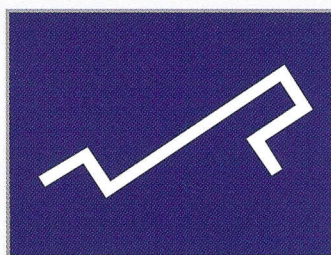
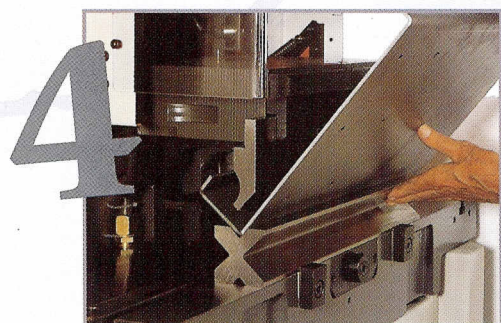
ANGLE NOTCHING
VARIABLE ANGLE



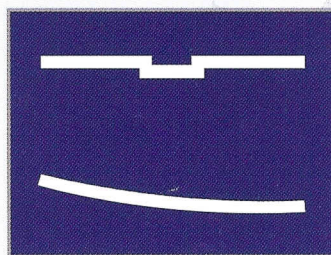
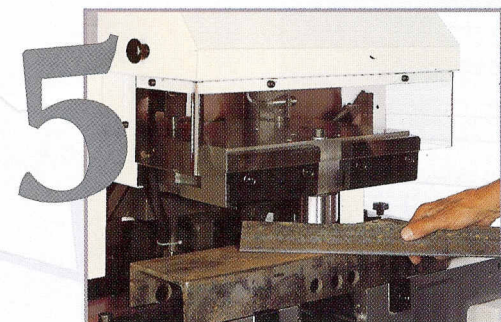
PUNCHING STATION
max Ø 50 mm (3 mm thickness) wide
range of tooling available (option)



PIERCING STATION
for rectangular slots (option)



PRESS-BRAKE
capacity 20 tons - wide range of
tooling available (option)



PRESS STATIONS 20 TONS
forming • straightening • mounting
various (tooling option)

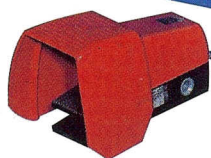
Standard execution:

- hydraulic angle notcher with variable angle
- 2 mechanical sheet holddowns
- automatic Blade Gap Adjustment
- 2 positioning squares with protractor, adjustable 0-90°, fixing holes every 15°
- millimetric scales in brass
- 60° negative blades to cut stainless steel
- 1 extra set 30° positive blades to cut stainless steel
- large double working table with double dovetail-slots
- internal depth stop
- mechanical vertical stroke adjuster with readout
- backstop
- transparent hand-safe guards
- remote footpedal command
- hydraulic oil

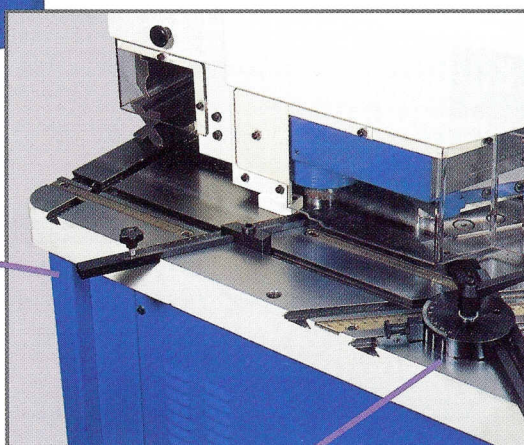
Rear workstation:

- Table with dovetail-slots
- plexi-glass safety protection device
- adjustable speed and pressure
- backstop for bending
- clamps for bending tools

CUTTING (30-140°) ON COMBI 220/6



backstop



Positioning square with protractor on dovetail-slots for precise repeated settings

Technical specifications

Capacity (Mild steel 45 kg/mm ²)	at 60°	6 mm
	at 30°	4 mm
Blade length		220 mm
Angle		from 30 to 140°
Strokes per minute		40
Table size		940 x 1020 mm
Motor		4 kW
Height of working table		930 mm
Overall dimensions		1100 x 1200 x 1400 mm
Weight approx.		1100 kg

