

Punching without pilot hole with



ALFRA PRESS

AP 500

Outreach 500 mm





ALFRA PRESS AP 500

Made in Germany by ALFRA



The stationary punching machine was developed for control cabinet and switchgear manufacturers, for the quick punching of round, square, rectangular or special shapes in metal sheets and control cabinet doors up to 2000 mm x 1000 mm and 30 mm folding height. Punching up to the edge is possible. Tool change is quick and easy and can be done in seconds. Control cabinets/housings from 300 mm depth onwards can also be machined.

Description:

- Stable pressing body with adjustable feet.
- Double-acting hydraulic cylinder, flanged on machine body using force and positive connection.
- Piston rod \varnothing 55 mm in a torsion-resistant position, made of hardened stainless steel with tool holder.
- Die seat, friction-locked to the pressing body.
- Quick tool change helps in case of problems with many through-hole variants.
- Blank holder with protective function, fixed with electric safety locking for accident prevention.
- Vertically adjustable length and depth stop – available in 2 versions.
- Measuring tape indication for length and depth stop.
- Dual-circuit hydraulic unit with electric pump, oil tank and solenoid valves (very quiet).
- Safety foot switch with double pedal for the infinitely variable operation of the punching and return stroke.
- Tip: Use the laser pointer as an option – no marking, no centre-punching, a simple cross-hair with a pen is enough.

Technical data:

Outreach with stop:	500 mm
Outreach without stop:	540 mm
Punching stroke:	66 mm
Punching force F:	48 kN at 130 bar
Motor output:	0.37 kW
Operating voltage:	220 V
Weight approx.	200 kg
Overall height:	1,500 mm
Working height:	1,000 mm
Width of the punching body:	130 mm
Depth of the punching body:	950 mm
Length of the stop rail:	1,500 mm
Approx. space requirements:	1,500 x 1,500 mm
Punching capacity:	
Round from	\varnothing 3.2 - 63.5 mm
Square up to	46.0 x 46.0 mm
Special shapes up to a max. diagonal of	60.0 mm

Material thicknesses (max.):

Steel sheets (S235)	3.0 mm
Stainless steel ($F = 600 \text{ N/mm}^2$)	2.0 mm
Aluminium ($F = 22 \text{ N/mm}^2$)	4.0 mm
Punchable plastics	4.0 mm

Prod.-No.

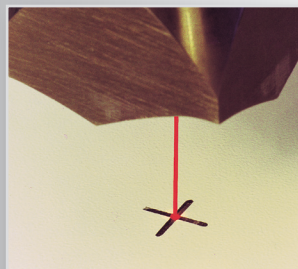
ALFRA PRESS AP 500 (without options)

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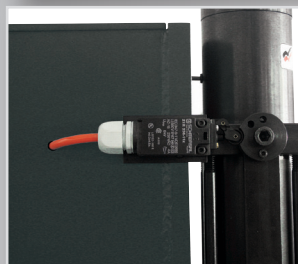
Please note:

- All the round tools for ALFRA PRESS punches AP 250 - AP 800 are made of special tool steel and have a special cutting geometry developed by ALFRA.

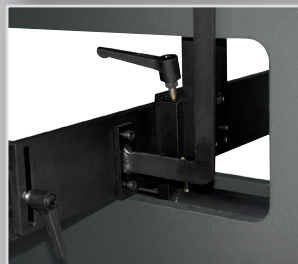
Special tools can be made at short notice in our own tool-making department!



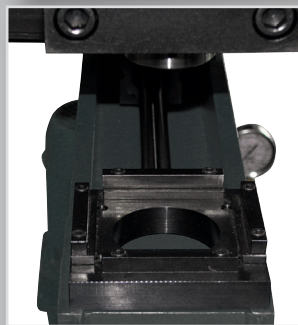
Laser pointer for the optical indication of the tool centre



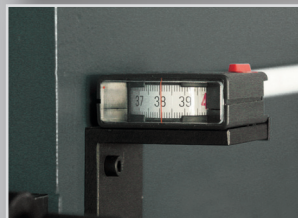
Electric safety locking for accident prevention



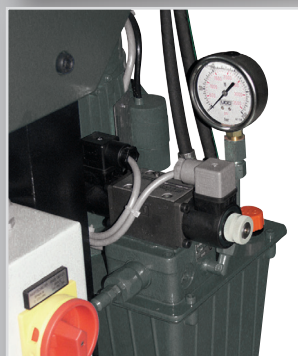
Stop system can be moved in Y-direction, 2 guide shafts in the pressing body.



Die seat holder



Measuring tape indication for Y-axis



Dual-circuit hydraulic unit

A



ALFRA PRESS – OVERVIEW



ALFRA PRESS AP 500



ALFRA PRESS AP 600-2



ALFRA PRESS AP 800

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Control cabinet doors,
mounting plates,
various control cabinet housings

Control cabinet doors,
mounting plates

Control cabinet doors,
mounting plates

03093

03090

03400

500

600

800

1,500

1,600

1,700

200

360

850

1,500 x 1,500 mm

2,000 x 3,000

2,360 x 4,440

3.2 – 63.5

3.2 – 70.0

3.2 – 120.0

46.0 x 46.0

68.0 x 68.0

110.0 x 110.0

36.0 x 52.0

36.0 x 65.0

46.0 x 92.0

64.0

90.0

140.0

3.0 / 2.0

3.0 / 2.0

3.0 / 2.0

4.0

4.0

4.0

double-acting

double-acting

double-acting

48 kN at 130 bar

60 kN at 165 bar

135 kN at 190 bar

66

66

72

220

400

400

30

30

40

A