

Punching without pilot hole with



ALFRA PRESS

AP 400

Outreach 400 mm



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# ALFRA PRESS AP 400



Made in Germany by ALFRA

For the quick punching out of round, square, rectangular or special shapes without pre-drilling in control cabinet doors, terminal boxes, cable ducts, housings, cable guiding plates etc. up to the edge area. Tool change is easy and can be done in seconds.

### Description:

- For flexible use – on a mobile frame.
- Quick tool change helps in case of problems with many through-hole variants.
- Different die holders are available – also for punching right up to the edge.
- Punching in a row is no problem thanks to attachable fold-away stops.
- Tip: Use the laser pointer as an option – no marking, no centre-punching, a simple cross-hair with a pen is enough.
- As an "entry level solution", operation by means of a manual pump is even enough – for "punching without pilot drilling" at a favourable price.

### Technical data:

Outreach with stop:	400 mm
Outreach without stop:	430 mm
Punching stroke:	50 mm
Punching force F:	46 kN at 600 bar
Hydraulic connection:	R 1/4"
Weight:	220 kg
Space required with frame approx.:	1,200 x 800 mm

### Punching capacity:

Round from	Ø 3.2 - 40.5 mm
Square up to	28.0 x 28.0 mm
Rectangular up to	22.0 x 30.0 mm
Special shapes up to a max. diagonal of	40.0 mm

### Material thicknesses (max.):

Steel sheets (S235)	2.5 mm
Stainless steel (F = 600 N/mm <sup>2</sup> )	2.0 mm
Aluminium (F = 22 N/mm <sup>2</sup> )	4.0 mm
Punchable plastics	4.0 mm

Prod.-No.

ALFRA PRESS AP 400 (without options)

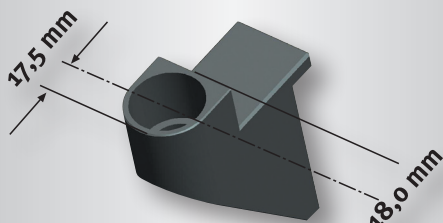
03175

### 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.

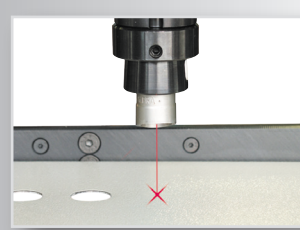
Special tools can be made in our own workshop at short notice!

Performance characteristics when punching in the edge area with die holder type I



Smallest possible axis dimension (edge distance) when using die holder type I

Prod.-No. 03174



Laser pointer for the optical indication of the tool centre



Cylinder prepared for the installation of a laser pointer



Die holder type II



Tool tray, can be swivelled



Length and depth stop with fold-away limit stops (option)



Swivelled support arms, adjustable height with 3 rubber supports each (option)



We recommend our electro-hydraulic pump ALH-600 Prod.-No. 03190 as a drive.

Prod.-No. 03190

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# ALFRA PRESS – OVERVIEW



**ALFRA PRESS AP 250**



**ALFRA PRESS AP 400**

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Control cabinet housing,  
control cabinet doors,  
mounting plates

Control cabinet housing,  
control cabinet doors,  
mounting plates

Prod.-No.

03170

03195

Outreach with stop in mm

250

400

Overall height in mm

820

1,700

Total weight approx.

50

220

Space required in mm

1,000 x 1,000

1,200 x 800

Tool dimensions in mm:

Round Ø

3.2 – 40.5

3.2 – 40.5

Square up to

28.0 x 28.0

28.0 x 28.0

Rectangular up to

22.0 x 30.0

22.0 x 30.0

Max. diagonals from

40.0

40.0

Max. material thickness in mm:

Steel S235 / stainless steel

2.5 / 2.0

2.5 / 2.0

Aluminium / plastic

4.0

4.0

Hydraulic system:

Mode of operation

single-acting

single-acting

Punching force F

46 kN at 600 bar

46 kN at 600 bar

Punching stroke in mm

50

50

Operating voltage

-

-

Workpiece chamfer in mm










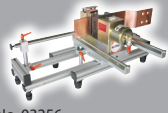






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# PUMP OVERVIEW



<p>Recommended combination ■ ■</p> <p>Possible combination ■</p>	 <b>FOOT PUMP</b>	 <b>AHP 03-01</b>	 <b>SC-05 III B</b>	 <b>DSP-120</b>	 <b>LHP 700</b>	 <b>ALH 600</b>
Prod.-No.	02121	03853	03852	02027	02140	03190
 Prod.-No. 02012 / 02013	■ ■	■ ■	■ *	■	■	■
 Prod.-No. 03200SET		■	■ ■			
 Prod.-No. 03250	■	■ ■	■ *	■	■	■
 Prod.-No. 03256	■	■ ■	■ *	■	■	■
 Prod.-No. 03258	■	■ ■	■ *	■	■	■
 Prod.-No. 03260	■	■ ■	■ *	■	■	■
 Prod.-No. 03300	■	■ ■	■ *	■	■	■
 Prod.-No. 03360/03380	■ ■	■ ■				■ ■
 AP 250		■			■	■ ■
 AP 400		■			■	■ ■

\* in combination with optional foot switch

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