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ECO Press-In Devices in Portal Design

Hydraulic drive, max. press-in force 40 to 100 kN with rapid/creep speed control by travel time programming



Advantages

- High forces/rigid frames
- No cost and time-consuming project planning
- Easy retrofitting of functions or components
- Standardized drilling patterns for workpiece and tool holders provided by the customer
- Interchangeability of the individual elements by standardized drilling patterns
- Ergonomically designed operation
- Closed adhesion
- Reduction of assembly time
- Process safety
- Sales of individual components
- Plug & Play

Description

High degree of operator friendliness

The base frame is designed as a working

table. Below the table plate there is the electric

control and the power unit that control the

The steel base plate of the portal frame is installed

flush with the table plate in the working table, so

that the working surface is plane and edges are

On the base plate any workpiece carriers such

The piston rod of the press-in cylinder is

equipped with a quick-changing device, at

which the press-in tools can be mounted.

This can optionally be replaced by other tool

Thanks to the modular design, the functions of the control as well as mechanical components

can be easily exchanged or retrofitted.

hydraulic press-in cylinder at the portal.

as sliding tables can be mounted.

Application

These press-in devices are preferably used in assembly processes for the production of longitudinal pressed joints, riveted joints as well as for pressing out and testing of components.

Principal use

- · Drive technology, gears box assembly
- · Couplings, cardan shafts
- Compressors, pumps, hydraulic elements
- Industrial fittings
- Mechanical engineering
- · Components for construction and agricultural machinery
- Electronics

Operation

For safety reasons, the press-in device is equipped with a two-hand operation. This has a divided design (two separate push-buttons) to allow workpiece feeding from the front.

Alternatively, it is also possible to provide safety light grids or a protective covering. In such applications, function triggering is made by a push-button.

Available on request:

- Workplace lighting
- · Aluminium profile table frame
- Tool holders
- Joining tools

modupress

Press-in device



Issue 2-16 E

Part no. 6421-5XX-XXX

Technical data

Max. press-in force: 40, 63, 100 kN 100, 200, 300, 400 mm Stroke: Drive: hydraulic Frame type: portal

Control variant 1

Rapid/creep speed control by travel time programming

Operations

- Two-hand operation Start button
- (for version with safety light curtain)



modupress interfaces

- Base plate:
- 140x140 4xM10, 2xØ 18H7, 1xØ 50H7
- Tool holder:
- In the bolt circle Ø 84 mm 4 counterbores M6

Accessories

- Workpiece feeders as per data sheet P 9.100
- Protection cabins
- as per data sheet P 9.200 Change tools as per data sheet P 9.300

Control variants

The ECO press-in device in portal design is equipped with pressure switch-over and travel time programming to adjust the switching position "rapid/creep speed" and the "return stroke limitation".



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Functional description

Input and output functions

Time panel mounted at the frame, 4 inch (other sizes on request, functions adjustable via time)

- · Position return stroke limitation
- · Position switching rapid/creep speed
- Max. press-in force (via pressure reducing valve at the power unit)
- Hold time in lowest press-in position

Functional description

Normal operation (press-in operation)

By operating the two mushroom push-buttons at the two-hand operating panel at the same time, the press-in cylinder extends (starting from the off-position). As soon as the first adjusted time mark (s) is obtained, or the time (s) has passed, the press-in cylinder switches automatically from rapid speed to creep speed. After reaching the set maximum force, the

After reaching the set maximum force, the press-in cylinder retracts to the off-position that is adjustable by the time. The preset maximum force is maintained for 1s in the lowest joining position in order to safely terminate the joining process.

If the two-hand operation is released in an intermediate position, the press-in cylinder remains in this position.

When pressing the push-buttons again, the press-in cylinder moves at rapid speed to the off-position. Only after reaching the off-position, the press-in cylinder can be extended again.

Manual mode (setting mode)

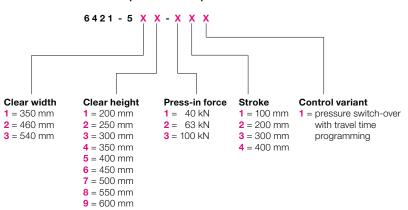
By means of a selector switch in the electric control, the press-in cylinder can be extended or retracted by manual control.

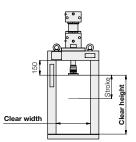
Thus, it is possible to move to the workpiece specific stroke points of the press-in cylinder in order to sense and adjust the time.

The press-in cylinder moves only at creep speed.

Function triggering is – in all operating conditions – only possible by operating simultaneously both mushroom push-buttons of the two-hand control.

Code for part numbers - portal ECO





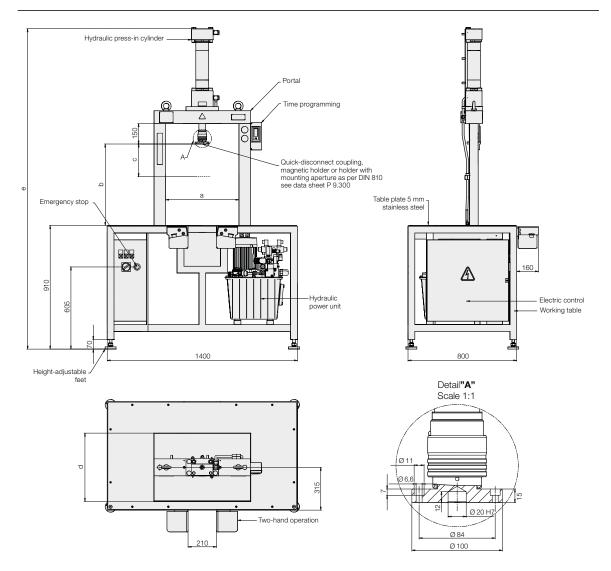
Example of ordering 6421-513-211 = Portal,

clear depth 350 mm, clear height 300 mm, 63 kN, stroke 100 mm, pressure switch-over



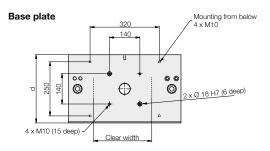
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Dimensions • Technical data



Technical data

Press-in force	[kN]	40 / 63 / 100
a = clear width	[mm]	350 / 460 / 540
b = clear height	[mm]	200 / 250 600
c = cylinder stroke	[mm]	100 / 200 / 300 / 400
d = depth base plate (results from "a")	[mm]	315 / 400 / 500
e = total height	[mm]	1355 + b +stroke
Speed - creep speed	[mm/s]	approx. 10-30
Speed - rapid speed	[mm/s]	approx. 75-100



Service note:

We also carry out maintenance work for you. For example, the semi-annual stop time measurement as per ZH1/45+6. Please contact us.