

Hydraulic Frame Press – CASOLIN EURO

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Description

Heavy-duty hydraulic press for assembly of window and door frames, designed for both manual and CNC-controlled operation. The machine combines high pressing force, precision positioning and flexible production capabilities.

- Hydraulic press for windows and doors
- CNC positioning (2-axis) with touchscreen control
- Suitable for pre-machined frames
- High precision encoder positioning
- Automatic and manual operation modes
- Robust oversized steel construction
- Integrated nailing system (optional/PLC controlled)

Details

1. Machine frame

- Heavy-duty oversized steel structure ensuring stability and consistent pressing quality.
- Reinforced steel construction
- High rigidity frame
- Designed for large window and door elements
- Industrial heavy-duty build



2. Positioning system

- CNC-controlled positioning system with high accuracy.
 - 2-axis CNC positioning
 - Encoder-based precision (± 0.1 mm)
 - Programmable positioning
 - Automatic dimension input via control system



3. Pressing system

- Hydraulic pressing system with independent horizontal and vertical cylinders.
 - Horizontal and vertical pressing cylinders
 - 4 spindle-guided cylinder positioning
 - End-stop pressing to prevent deformation
 - Adjustable pressing dimensions
 - Suitable for non-homogeneous wood



4. Clamping & support system

- Stable support and alignment system for accurate frame assembly.
 - Multi-point pressing support
 - End-stop positioning system
 - Optional Teflon support surfaces
 - Suitable for assembled or pre-machined frames

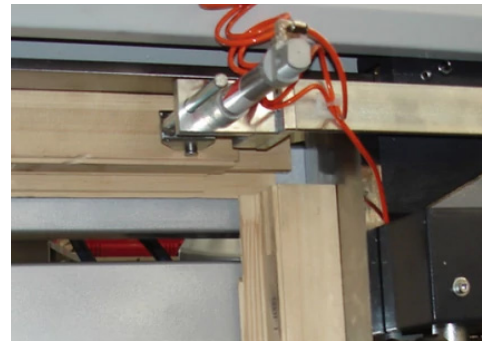
5. Working capacity

- Working size
 - Max: 3000 × 1800 mm
[2000 mm without vertical stroke]
 - Min: 350 × 640 mm
- Working thickness
 - Vertical stroke: 220 mm
 - Horizontal stroke: 100 mm

6. Pressing capability

➤ Flexible pressing for different window and door constructions.

- Tenon joints
- Dowel joints
- 45° corner joints
- Pressing of pre-profiled elements
- Multi-cycle pressing operation



7. Drive system

➤ Hydraulic system providing high and consistent pressing force.

- Hydraulic unit: 4 kW
- Dual pressure regulation (horizontal & vertical)
- Controlled pressing cycles
- Stable force distribution

8. Control system

➤ User-friendly control system with CNC and PLC integration.

- Touchscreen HMI
- Windows-based control system
- Manual and automatic operation
- Electronic stroke adjustment
- Press cycle timer



9. Software & connectivity

- Program input via touchscreen or PC
- Network connectivity (built-in)
- Remote control from office
- Automatic program transfer
- Dimension-based programming

10. Safety system

- Designed according to industrial safety standards.
 - Controlled pressing cycles
 - Operator control panel
 - CE compliant system
 - Safe and stable operation
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11. Standard equipment

- Hydraulic pressing system
 - CNC positioning (2-axis)
 - Touchscreen control panel
 - Encoder positioning system
 - Adjustable upper cross beam
 - Automatic lower beam positioning (2 positions)
 - PLC controlled operation
 - Documentation package
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12. Optional equipment (selection)

- Automation
 - Automatic corner nailing system (4 units)
 - PLC-controlled nailing cycle
 - Machine options
 - Teflon-coated support surfaces
 - Extended automation features
 - Production
 - Advanced cycle programming
 - Multi-step pressing cycles
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Technical Data

Max working size:	3000 × 1800 mm
Min working size:	350 × 640 mm
Vertical stroke:	220 mm
Horizontal stroke:	100 mm
Hydraulic power:	4 kW
Vertical thrust	Up to approx. 8000 per cylinder
Horizontal thrust	1200 – 2500 per cylinder
Machine weight	3500 kg
Machine dimensions	4000 × 1400 × 2930 mm

*Thanks for the attention!

The company continuous to improve the product specifications and design details, the specifications are subject to change without notice.