

HYDRAULIC LAMINATING PRESS SERIES

Solid Wood Laminating Press

Windows · Panels · Glulam Beams

Hydraulic clamping frame for gluing solid wood lamellas into window scantlings, laminated panels and glued laminated beams — from 3200 mm to 6200 mm working length.

MODEL HE 3200 L – HE 6200 L



/ Application & Use

The HELEX hydraulic laminating press is designed as an economical, high-output clamping solution for the production of laminated solid wood components. Working length, number of pressing stations and clamping force are configured according to the customer's production programme.

The machine is built specifically for the manufacture of laminated window scantlings, laminated panels and glued laminated beams. Vertical push pistons apply the main clamping pressure across the glue lines, while the front pushers align the package longitudinally, so that the lamellas stay flush during the whole pressing cycle.

Pressing force is adjustable in stages, which allows the same frame to process both softwood and hardwood without over-compressing the glue joint. The lower carriers travel vertically, so packages of different height are loaded and unloaded at a convenient working level. As an option the frame can be divided into two independent sections, allowing short and long workpieces to be pressed in parallel.

/ Raw Materials & Products

RAW MATERIALS

- Solid wood lamellas, softwood and hardwood
- Finger-jointed and continuous lamellas
- Planed strips for edge and face gluing

FINISHED PRODUCTS

- Laminated window scantlings and door blanks
- Laminated solid wood panels
- Glued laminated beams and structural timber



Laminated solid wood packages clamped between the pressing stations.

/ Structure and Configuration

1 Welded steel main frame

Heavy box-section frame in anthracite finish, dimensioned for 3200 / 4200 / 5200 / 6200 mm working length, 150 mm working width and 1200 mm working height.

2 Vertical push pistons

6 to 12 hydraulic pistons depending on model, 750 – 5000 kg force each, generating a specific pressure of 5 – 15 kg/cm² on the glue line.

3 Front pushers

3 to 6 end pushers, 400 – 1500 kg force, for longitudinal alignment of the package and for fast loading and unloading.

4 Movable lower carriers

The bottom tables travel 500 mm upwards in 100 mm steps, so the package is always presented at the correct pressing and handling level.

5 Intermediate pressing sections

Grouped pressure settings allow the clamping force to be varied along the frame for hardwood and softwood packages.

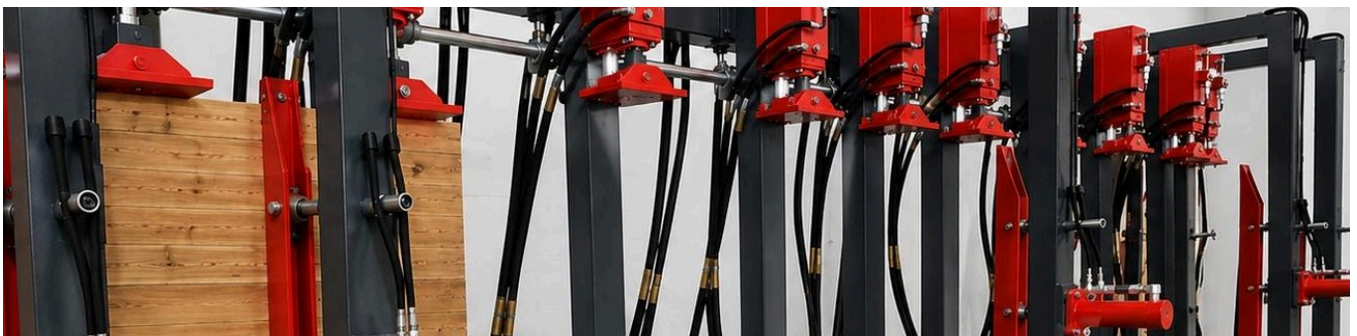
6 Hydraulic power unit and control panel

Pump unit with pressure gauges and a central push-button panel for pressing, releasing and pressure adjustment.

7 Two-section operation (optional)

The frame can be split into two independent working sections operated separately.

Stepless pressure regulation. Clamping force is set on the hydraulic unit and monitored on the pressure gauges, so the pressure applied to the glue joint is matched to the wood species, the adhesive and the cross-section being pressed.



Pressing stations: vertical push pistons, front pushers and lower carriers.

/ Technical Data

SPECIFICATION	SIZE 1	SIZE 2	SIZE 3	SIZE 4
Model	HE 3200 L	HE 4200 L	HE 5200 L	HE 6200 L
Type	Hydraulic laminating press for solid wood			
Working length	3200 mm	4200 mm	5200 mm	6200 mm
Working width	150 mm	150 mm	150 mm	150 mm
Working height	1200 mm	1200 mm	1200 mm	1200 mm
Push pistons force	750 – 5000 kg	750 – 5000 kg	750 – 5000 kg	750 – 5000 kg
Push pistons nr.	6	8	10	12
Front pushers nr.	3	4	5	6
Front pushers force	400 – 1500 kg	400 – 1500 kg	400 – 1500 kg	400 – 1500 kg
Specific pressure	5 – 15 kg/cm ²	5 – 15 kg/cm ²	5 – 15 kg/cm ²	5 – 15 kg/cm ²
Lower carrier travel	500 mm upwards, in 100 mm steps			
Sectioning	Optional two-section operation			

All dimensions in mm. Technical data may be adapted to the customer's production programme; specifications are subject to change without notice.

/ Configuration on Request

- **Working length** — frame built to the required length within the series range
- **Number of pressing stations** — push pistons and front pushers scaled to the frame
- **Two-section division** — independent operation of two working zones

SUPPLIER

PROMACH LTD

Bld Bogdan Voyvoda 1, 7002 Ruse, Bulgaria

VAT Nr. 208556296

CONTACT

www.promach-machinery.com

contact@promach-machinery.com

BG +359 87 6832151

RO +40 755 023 024