

# 1200 TON HYDRAULIC HOT PRESS – CE CERTIFIED

**Heavy Duty – High Precision – Above-Floor Installation**

## **Main Features**

- **Nominal pressing force:** 1200 tons
- **Moving plate return force:** 39 tons
- **Two-plate configuration** (1 fixed + 1 moving)
- **Single daylight press**

## **Heated Plates**

- Plate size: **3000 × 2000 mm**
- Max temperature: **130 °C**
- Heating power: **15 kW**
- Temperature control via **PT100 sensors**
- **4 independent temperature controllers**
- Temperature set-point and timer management

## **Precision & Mechanics**

- Steel plate machining tolerance: **max 0.05 mm/m**
- Plate deflection at full load (1200 tons): **max 0.1 mm/m**
- Designed for **long pressing cycles up to 10 hours**

## **Hydraulic System**

- Variable pump **PVPC-4046-LQZ – 67 l/min**
- Max hydraulic pressure: **25 MPa**
- Working pressure: **100 kg/cm<sup>2</sup>**
- Oil tank: **700 liters**
- Main hydraulic motor power: **15 kW**

## **Pressing Logic**

- Closing speed: **≤ 30 mm/s**
- Pressing speed: **≤ 1 mm/s**
- Automatic pressure maintenance
- Automatic pressure recovery if pressure drops more than **2%**
- During constant-pressure cycle, **hydraulic pump motor stops** (energy saving & stability)
- “White cycle”: pressing by plate weight only (**15 tons**), without hydraulic power

## **Control & Automation**

- **PLC controlled system**
- Analog wiring with relays, solenoid valves, probes and coils
- Pressure setting and real-time pressure control

## **Cooling System**

- **Air / water cooling**

## **Safety & Ergonomics**

- Manual push-buttons for press open/close
- Upper moving plate only (no lower moving plate)
- Safety protection with **photocells**
- Full electrical grounding

## **Electrical Data**

- Power supply: **400 V – 3 phase – 50 Hz**
- Protection class: **IP55**

## **Installation Advantages**

- **No foundation required**
- Entire press installed **above floor level**
- Ideal for relocation or retrofit in existing plants

## **Dimensions & Weight**

- Overall dimensions (L × W × H): **3100 × 2400 × 4000 mm**
- Weight: **approx. 60,000 kg (without oil)**