



Product Overview

The machine is a **vertical clamping, down-stroke hydraulic compression moulding press** designed for precision moulding applications. It is PLC and touch-screen controlled, offering accurate force, speed, temperature, and pressure regulation. The robust four-post frame construction ensures excellent platen parallelism and consistent moulding quality.

Clamping System – Technical Specifications

Parameter	Specification
Clamping Type	Vertical, direct hydraulic
Compression Force	50 tonnes
Maximum Clamp Stroke	350 mm
Maximum Opening Daylight	350 mm
Minimum Daylight	0 mm
Maximum Mould Size (L/R × F/B)	300 mm × 300 mm
Closing Speed	25 mm/sec
Pressing Speed	1–2 mm/sec
Return Speed	35 mm/sec

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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IT-2013, Ramchandrapura Industrial Area,
 Sitapura Extension, Jaipur-302022, India.



info@tesca.in
 www.tescaglobal.com

Frame & Mechanical Construction

- Four-post frame type clamping system
- High structural rigidity for heavy-duty operation
- Press platen parallelism maintained within **±0.1 mm**
- Designed for long service life and consistent performance

Drive & Power System

- Main Motor Power: 5 HP
- Motor Supply: 480 Volts, 60 Hz
- Heater Circuit Voltage: 220 Volts

Heating & Temperature Control System

- Two-zone temperature control for mould heating
 - Top zone
 - Bottom zone
- Maximum total mould heating capacity: **4 kW**
- Ensures uniform and controlled heat distribution across mould surfaces

Hydraulic System

- Variable speed, direction, and pressure control
- Precision hydraulic control valves for smooth operation
- High-quality hydraulic sealing system for leak-free performance
- Shell and tube type heat exchanger for effective oil cooling
- Return line filter with choke indicator for system protection

Control & Automation

- PLC-based machine control system
- Touch screen Human-Machine Interface (HMI)
- All machine functions monitored and controlled digitally
- Clamping pressure adjustable directly through HMI
- Pressure feedback via industrial-grade pressure transmitter

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Order Code : 25269334.2
Vertical Clamp, Down Stroke, Hydraulic,
PLC Controlled, 50 Tonne Compression
Moulding Machine

Salient Features

- Vertical down-stroke compression moulding design
- Accurate pressure and speed control for consistent moulding results
- User-friendly PLC and touch screen operation
- Robust mechanical structure with excellent platen parallelism
- Reliable hydraulic and temperature control systems

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