

Modern MMT-50 Moulding Machine – User Manual

1. Machine Overview

The Modern MMT-50 is a compact hydraulic molding machine designed for small to medium-scale molding operations. It provides reliable performance and precision at a cost-effective price (~4 lakh INR).

Key Features: - Hydraulic operation with 50 T capacity - Compact and durable industrial-grade frame - Efficient for small to medium batch production - Simple controls and maintenance

2. Safety Guidelines

- Always wear safety gloves and protective eyewear.
- Ensure proper ventilation in the working area.
- Keep hands and clothing away from moving parts.
- Ensure emergency stop is accessible during operation.
- Disconnect power before maintenance.

3. Installation & Setup

1. Place the machine on a flat, stable surface.
2. Connect to the appropriate power supply (as per manual).
3. Check for proper grounding.
4. Load molds securely and set materials correctly.
5. Test the hydraulic system before full operation.

4. Basic Operation

1. Power on the machine.
2. Load the molding material and install the mold.
3. Set process parameters such as temperature, pressure, and cycle time.
4. Start the molding operation and monitor closely.
5. Remove molded parts carefully after completion.

5. Maintenance

- Clean the machine regularly to remove debris.
- Inspect hydraulic system for leaks or wear.
- Lubricate moving parts periodically.
- Check electrical and control systems for proper function.
- Replace worn-out components as needed.

6. Troubleshooting

Issue	Possible Cause	Solution
Poor mold finish	Incorrect pressure/temperature	Adjust process parameters
Material not filling mold	Improper mold setup	Reposition mold or material
Machine not starting	Power or control failure	Check supply and controls
Hydraulic pressure drop	Leakage or pump issue	Inspect and repair system

7. Operational Area

- Small to medium-scale molding production
- Suitable for thermoplastics, resins, or other moldable materials
- Educational workshops and prototyping
- General industrial molding applications