

Formech IMD508

High Performance Vacuum Forming Machine

Film Insert Moulding (FIM) is a versatile and cost effective method of decoration and manufacturing durable plastic parts. (It is also referred to as 'In Mould Decoration (IMD)' or 'In Mould Labelling (IML)'. The flat film is firstly reverse decorated (normally screen printed or digitally printed), then vacuum formed, cut and finally back injection moulded. It is used for cost effective manufacture of fascias, panels and casings for the automotive, telecommunication, advanced sign making, material testing and electronic sectors. The Formech FIM/IMD range combine extremely accurate repeat sheet registration with incredibly precise and advanced heat control during the forming process of the pre-printed material. Full temperature feedback with every element provides complete control during the heating of the sheet, minimizing

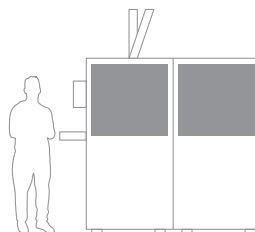
the distortion of the printed sheets during the critical heating stage. The machine also features a heating pyrometer to achieve consistent heating cycles. Formech produces IMD machines for both test and production using either ceramics or quartz, single or twin heaters and servo electric table for precise movements and registration. Ideal for forming the latest technically demanding materials that require precise control over every aspect.

Key Features

- PLC Control with 10" Hi-res Touch Screen
- FCV® (Formech Cycle View) with 40 Programme Memory
- Ceramic Heaters with Full Temperature Feedback
- 49 Independently Controllable Heating Zones
- Pneumatic Heater Drive
- Pneumatically Powered Clamping Frame
- Servo Powered Table with Height Adjust
- Plug Assist with Speed Regulator
- Pre-stretch
- Auto-level
- Vacuum Receiver Tank
- Vacuum Flow Regulator
- Vacuum and Pressure Gauges
- Safety Light Curtain
- Heating Pyrometer
- Oil Filled Rotary Vane Pump 21m3/HR

Options

- Servo Electric Plug Assist
- Servo Electric Table
- Cooling Fan System
- Cooling Pyrometer
- Cooling Bolster
- Twin Heater Upgrade
- Reducing Windows
- Spare Parts Kit



> See reverse for Technical Specifications and IMD customers.

For more information and product videos formech.com



Technical Specifications IMD508 (Single Heater Version)

| Forming Area (mm / inches) | Sheet Size (mm / inches) | Max Depth of Draw | Max Material Thickness | Heating Zones | Heater Type |
|----------------------------|----------------------------|-------------------|------------------------|---------------|-------------|
| 470 x 470mm / 18.5 x 18.5" | 508 x 508mm / 20.0 x 20.0" | 300mm / 11.8" | *6mm / 0.25" | 49 | Ceramic |

| Width | Height | Depth | Weight | Single Phase Power Requirements | Europe – 3 Phase Power Requirements | USA – 3 Phase Power Requirements | Power Consumption | Air Requirements |
|----------------|-----------------|----------------|-----------------|---------------------------------|-------------------------------------|----------------------------------|-------------------|------------------|
| 1200mm / 47.3" | 3080mm / 121.3" | 2050mm / 80.7" | 900kg / 1983lbs | n/a | 380-415V / 32A | 208-220V /40A | 11.3kW | 80 PSI / 5 bar |

*certain materials over 4mm thick may require turning the sheet mid-cycle unless twin heaters are specified

Formech IMD508 customers include:

- Dupont (Innovation & Science – UK)
- MacDermid (Chemicals – UK)