

# Formech 508FS

## Floor Standing Vacuum Forming Machine

Formech's 508FS (Floor-Standing) machine offers significant advantages over the desktop series with pre-stretch, auto-level and a much more powerful flow rate for demanding applications. Pre-Stretch allows the user to blow a bubble of air into the heated material, which avoids thinning of material when forming deep shapes. Auto-Level pumps short bursts of air under the heated plastic to maintain an even distance between the heater and sheet, whilst providing

the user an audible indication that the material is ready to form. Intuitive, graphically driven touch-screen control with memory function makes the 508FS very easy to use, whilst powerful forming capabilities provide extensive project versatility. Higher Wattage Quartz heaters (vs. 508DT) further enhance the 508FS capability.



### Key Features

- PLC Control with 4" Mono Touch Screen
- 20 Programme Memory
- Pre-stretch
- Auto-level
- Quartz Heaters with Variable Standby
- 4 Independently Controllable Heating Zones
- Vacuum & Release
- Vacuum Gauge
- Dry Rotary Vane Pump 10m3/HR

### Options

- Reducing Windows
- Cooling Fan System
- Reel Feed
- Starter Pack of Plastic
- Mobility with Castors
- Vacuum Receiver Tank
- Spare Parts Kit

### Technical Specifications

Forming Area (mm / inches)	Sheet Size (mm / inches)	Max Depth of Draw	Max Material Thickness	Heating Zones	Heater Type
482 x 432mm / 19 x 17"	508 x 457mm / 20 x 18"	290mm / 11.5"	*6mm / 0.25"	4	Quartz

Width	Height	Depth	Weight	Single Phase Power Requirements	Europe – 3 Phase Power Requirements	USA – 3 Phase Power Requirements	Power Consumption	Air Requirements
757mm / 29.8"	1140mm / 44.9"	1474mm / 58"	125kg / 275lbs	208-240V / 20A	n/a	n/a	3.5kW	80 PSI / 5 bar

\*certain materials over 4mm thick may require turning the sheet mid-cycle

### Formech 508FS customers include:

- University of Rochester (Education – USA)
- ETH Zurich (Education – Switzerland)
- KTH (Education – Sweden)
- University of the Arts London (Education – UK)
- University of Teeside (Education – UK)
- Universzita Tomase Bati ve Zline (Education – Czech Republic)
- Universidade do Minho (Education – Portugal)
- Tourbillon Patisserie (Chocolatier – France)
- Sodebo (Chocolatier – France)
- Harmac Medical Products (Medical – USA)
- Serco (Defence R&D – UK)
- Apple Inc (Prototyping/R&D – USA)
- Cyberdroid (Prototyping / R&D / Robotics – France)
- University of Nottingham (Education – UK)
- PT Kawan Lama Sejahtera (Education – Indonesia)
- Blackhawk Industrial (R&D – USA)
- Airborn (Packaging – USA)
- Ligier Group (Automotive – France)

For more information and product videos [formech.com](http://formech.com)

# Formech 686

## Floor Standing Vacuum Forming Machine

Featuring a power table, Formech's 686 makes light work of the most demanding applications. Pre-stretch provides a more uniform material thickness for deep moulds whilst auto-level signals to the user the material is ready to form. Rapid response quartz heaters with 6 independently controllable

zones provides accurate heat control for consistent, high definition results. Intuitive colour touch screen interface and 20 nameable presets provide ultimate user convenience and ease of use.



### Key Features

- PLC Control with 5" Colour Touch Screen Control
- 20 Programme Memory
- Quartz Heaters with Variable Standby
- 6 Independently Controllable Heating Zones
- Power Table
- Pre-stretch
- Auto-level
- Vacuum Gauge
- Dry Rotary Vane Pump 16m3/HR

### Options

- Reducing Windows
- Cooling Fan System
- Reel Feed
- Heating Pyrometer
- Cooling Bolster
- Vacuum Flow Regulator
- Mobility with Castors
- Vacuum Receiver Tank
- Spare Parts Kit

### Technical Specifications

Forming Area (mm / inches)	Sheet Size (mm / inches)	Max Depth of Draw	Max Material Thickness	Heating Zones	Heater Type
646 x 620mm / 25.5 x 24.5"	686 x 660mm / 27 x 26"	325mm / 12.8"	*6mm / 0.25"	6	Quartz

Width	Height	Depth	Weight	Single Phase Power Requirements	Europe – 3 Phase Power Requirements	USA – 3 Phase Power Requirements	Power Consumption	Air Requirements
960mm / 37.8"	1165mm / 45.9"	1932mm / 76.1"	260kg / 573lbs	208-240V / 40A	380-415V / 32A	208-220V / 40A	8.0kW	80 PSI / 5 bar

\*certain materials over 4mm thick may require turning the sheet mid-cycle

### Formech 686 customers include:

- Brunel University (Education – UK)
- Domus Academy (Education/Design – Italy)
- Lockheed Martin (Aerospace – USA)
- RAF (Royal Air Force – UK)
- Skoda (Automotive – Czech Republic)
- Mechachrome (Automotive – France)
- Raytheon (Defence R&D – UK)
- Revision Military (Defence R&D – USA)
- Xerox (R&D – USA)
- Jim Marshall Speakers (Prototyping – USA)
- Neurospin (Neuroimaging research – France)
- Microsoft (Electronics – USA)
- Google (Electronics – USA)
- Milan Cerny - Sklotex Plasty (Trade Former – Czech Republic)
- Polyfoam Kautschuk GmbH (Trade former – Germany)
- Kaleidoscope (Prototype Packaging – USA)
- Biofire Defense (Hospital & Medical – USA)
- Chuck Steel Ltd (Film & Video – UK)

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# Formech FMDH660 Manual Twin Heater Vacuum Forming Machine

Occupying minimum floor space, Formech's FMDH provides a cost effective solution for extrusion manufacturers to test the stretching capabilities of materials up to 10mm thick. Twin multi-zone heaters provide powerful performance and consistent results with the most demanding materials.

With the forming capabilities of much larger industrial production machines, the FMDH is ideally suited to proofing design concepts, prototyping and pre-production runs across a wide range of materials and applications.



## Key Features

- PLC Control with 7" Colour Touch Screen Control
- FCV® (Formech Cycle View) with 40 Programme Memory
- Twin Heaters with Ceramic Elements
- 6 Top and 6 Bottom Independently Controllable Heating Zones
- Electric Heater Drive
- Pre-stretch
- Auto-level
- Vacuum Gauge
- Dry Rotary Vane Pump 16m<sup>3</sup>/HR

## Options

- Reducing Windows
- Reel Feed
- Cooling Fan System
- Heating Pyrometer
- Vacuum Flow Regulator
- Multi User Pin Access Control
- Quartz Heaters with Variable Standby
- Pneumatic Trigger Clamps
- Spare Parts Kit

## Technical Specifications

Forming Area (mm / inches)	Sheet Size (mm / inches)	Max Depth of Draw	Max Material Thickness	Heating Zones	Heater Type
620 x 620mm / 24.5 x 24.5"	660 x 660mm / 26 x 26"	250mm / 10.0"	10mm / 0.40"	6 + 6	Ceramic/Quartz

Width	Height	Depth	Weight	Single Phase Power Requirements	Europe – 3 Phase Power Requirements	USA – 3 Phase Power Requirements	Power Consumption	Air Requirements
1732mm / 68.2"	1500mm / 59.0"	2225mm / 87.6"	300kg / 662lbs	n/a	380-415V / 32A	208-220V / 40A	12.0kW	80 PSI / 5 bar

## Formech FMDH660 customers include:

- Ferrero Rocher (Chocolate & Confectionary – Italy)
- Universitat Des Saarlandes (Education – Germany)
- Senoplast – (Extruder – Austria)
- Rochling Formaterm (Extruder – Sweden)
- Rochling Formaterm (Extruder – Finland)
- Rochling Formaterm (Extruder – Czech Republic)
- Foamalite (Insulation Products – Ireland)

For more information [formech.com](http://formech.com)