



# FORTI PHI

Advanced Process Equipment

**FORTIUS MARKETING LLP**

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Since 2009, Fortius Marketing LLP has supplied high performance materials to the moulding and casting industry.

Our constant endeavor to learn and improve has helped us develop knowledge about the materials in this field that only our suppliers can match. We are happy to represent such technologically advanced and dynamic suppliers, by bringing not only an excellent range of products, but also strong technical expertise backed by complete customer service.

We aim to exceed customer expectations in quality through industry feedback, R&D, competitor review, workflow setup and innovation. The ability to work together with the customer helps us grow stronger together and build a professional relationship for years to come. After all, our own success depends on that of our customers.

We have helped change manufacturing processes by **scaling up production, improving precision, reducing turnaround times and streamlining supply.**

Our deep domain product expertise enables us to respond rapidly to the needs of users and customers, to identify the best possible solutions and to select the most suitable products, whatever the application.



## OSV Mini Spray

Compact Metering And Mixing Machine  
For Processing Polyurethane, Silicone And Epoxy Resins

**OSV Mini Spray** is a compact metering and mixing machine for spraying and casting of two component cold curing polymers (RTV-2) such as silicones, polyurethanes, epoxies. One of the most popular application is infusion technology.



## Technical Specification

### Tanks for components

- Made of PVC
- Plastic caps
- Transparent surface
- Volume of each tank – 10 litres

### Metering unit

- Gear pumps
- Frequency inverter control
- Driven by electric motor

### Mixing head

- Static mixing gun
- Removable static mixer
- Aluminum housing

### Control unit

- Output control
- Emergency stop button
- Air pressure control for spraying

## Frame and accessories

- **Frame made of aluminium profile**
- **Doors to access the mechanical and electrical parts of the machine**
- **PTFE hoses for components 3.0 m long**
- **Pipes for compressed air**
- **Pneumatic parts made by Camozzi (Italy)**
- **Special spraying nozzle**



## Modelling And Tooling Boards

Dosing type	Continuous metering, low pressure
Number of metered components	2
Output	From 60 ml/min to 300 ml/min
Components ratio A:B, by volume	1:1
Metering tolerance	± 2%
Viscosity of components	Up to 30.000 mPa*s
Tanks' capacity	A — 10 litres / B — 10 litres
Working pressure in dosing system	Up to 10 bar
Pressure in pneumatic system	From 6 bar to 8 bar
Dimensions	500 x 500 x 950 mm
Weight	Up to 50 kg
Electric consumption	0.5 kW, 220 V

## Vacuum Pump

Direct Drive Rotary Vane Vacuum Pumps are the basic equipment to pump gas out of a sealed vessel. They can operate individually, or act as a fore pump and maintain booster pumps, diffusion pumps and molecular pumps.

The main assembly consists of a stator with a rotor mounted eccentrically on it. The rotor is provided with two vanes with copper, when the rotor revolves eccentrically these vanes sweep the air space two times in a single revolution creating the vacuum.



### Features

- **High temperature performance, good consistency**
- **Oil resistance and easy installation**
- **Heavy duty work for upto 12 hours of continuous operation**
- **Long life span, low heat**

### ME 2 Double - Double Stage Rotary Vane Vacuum Pump

Size(mm)	395*145*257
Voltage	220v 50Hz
Thermal protector	155°C
Free Flow(L/M)	12 CFM
Motor	1 Hp
Vacuum	760 mmhg
Weight	24 kg
Motor RPM	1440

## Vacuum Chamber

Vacuum degassing is the process of using vacuum to remove gasses from compounds which become entrapped in the mixture when mixing the components. To assure a bubble-free mold when mixing resin and silicone rubbers and slower-setting harder resins, a vacuum chamber is required for de-airing (eliminating air bubbles) prior to their setting.

Fortiphi Vacuum Chamber is designed for Vacuum degassing viscous liquids - mainly casting resins and silicone RTV2 polymers.

### Features

- **Compact and Lightweight - Perfect for laboratory or small workshops**
- **Includes Vacuum Gauge - To measure level of vacuum**
- **Supplied with 2 meter vacuum pipe**
- **Reliable Build Quality - Using the best quality of components**
- **Clear Acrylic Lid - For easy visibility during operation**



### Model 1

Diameter	280 mm
Inside Height	150 mm
Chamber Volume	9 l (approx)
Weight	5.2 kg
Chamber Material	Stainless Steel
Lid Material	Clear Acrylic - 19mm thickness
No of Ports	2 - 1x Inlet, 1 x Outlet
Valves on ports	2 x High quality pneumatic grade
Sealing	High Quality Silicone Rubber Gasket



**Model 2**

Diameter	315mm
Inside Height	395mm
Chamber Volume	48 l (approx)
Weight	19.6 kg
Chamber Material	Stainless Steel
Lid Material	Clear Acrylic - 20mm thickness
No of Ports	2 - 1x Inlet, 1 x Outlet
Valves on ports	2 x High quality pneumatic grade
Sealing	High Quality Silicone Rubber Gasket

**Dispenser for use with 1:1 silicone RTV2 Cartridge**





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High-Performance Casting Resins



**FORTISIL**®  
Specialty Silicone Rubbers



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