

Vertical Vacuum Mixer VMV

The **Vertical Vacuum Mixer VMV** is used for the manufacturing of low to high viscous products such as **sealants and adhesives**, caoutchouc, polyurethanes, plastisols, coatings, silicones, paints and resins. Due to the possibility to operate under vacuum, it is **specifically suited for the production of reactive and moisture sensitive products**.



Characteristics

- **Batch-in-batch** or **changing pot system**
- Mixing tools are designed to match the specific product for an **optimal short batch time**
- Mixing tool can be extracted from the product under vacuum
- Oscillation stroke is adjustable to the filling level of the vessel
- Gentle mixing with low energy consumption
- Precise temperature control during the mixing process
- **Minimal residual amount** after discharging
- Catalysing can be done directly during the mixing process
- Discharging under vacuum allows a finished product to be filled free of bubbles and cavities
- Minimized loss of vacuum if the pump is switched off
- Discharging within batch-in-batch system by an integrated discharge pump
- Discharging within a pot changing system is done by a separate extruder station
- Catalysing may be done directly during the mixing-process

Design

- Compact water cooled high-efficiency gear motor as main drive
- Large useful surface area for the customized positioning of the connecting ports and flanges
- Rotation and stroke speed of the mixing tool are continuously adjustable
- Thanks to an integrated position measuring system, the stroke of the mixing tool is also continuously adjustable for an optimal mixing efficiency and batch size
- Vessel cover and mixing tool may be lifted to a service position for ease of cleaning and maintenance

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Technical data

Type	Nominal volume [l]	Operational volume* [l]	Working stroke [mm]	Power* [kW]
VMV-0.8	790	500	620	90
VMV-1.5	1'530	1'000	980	153
VMV-2.1	2'140	1'500	1130	153
VMV-2.9	2'900	2'000	1210	240

* depends on the product

Options

- Mixer on weighing cells
- Vacuum system with dry filter
- Re-circulation system with sample port
- PLC control with graphic panel
- Hydraulic drive
- Operation and maintenance platform
- Planning and installation of piping systems
- Integration in an existing control system with data trend registration and recipe management

System solution

The **Vertical Vacuum Mixer VMV** may be extended with additional components for a further automation of the mixing process and to ensure an efficient production up to the filling.

- Prepolymer Production Plant
- Vacuum Mixing Dryer VT and Cooler VK
- Large Capacity Vacuum Mixer VGM
- Buffer Press HPP / VPP
- Drum and Pail Filling Unit FHA

Furthermore **fitech ag** provides engineering, planning and manufacturing of complete production plants.

Material

- Stainless steel, mild steel

Vessel

- Operating pressure -1.0 to +0.5 bar



Hydraulic power source (top) or electric motor (bottom)



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