

PVM - V Shaped Mixer

Introduction:



The PerMix PVM series V shaped Mixer (or V Cone Mixer), sometimes also called Y shaped Mixer, is one type of the well-known **Tumbler Mixers** (the other type is the PerMix PDC series Double Cone Mixer), which are very popular for the intimate blending of free flowing dry powders, granules, and crystals. It is featured by the very simple design and easy to clean construction.

PerMix PVM series V shaped Mixers are featured by a gentle high-flowing mixing process for solids/solids in a proportion of up to 1:100.000 with the possibility of using an intensifier bar to enhance the mixture, and solids/liquids in powder or granulate form with different specific weights.

Advantages:

PerMix V Cone Mixers are featured with the following advantages:

- Minimized distortion to the materials due to absence of any moving blades
- No contamination due to the closed area by only stainless steel walls

- Especially suitable to mix powders or granules which are temperature sensitive, easily oxidizable, crystallized, volatile, poisonous or with irritating smell
- Many options are available, such as variable speed, automatic stop in discharge position, air operated valve, touch screen operating panel, safety fence, side chopper, etc.

How It Works:

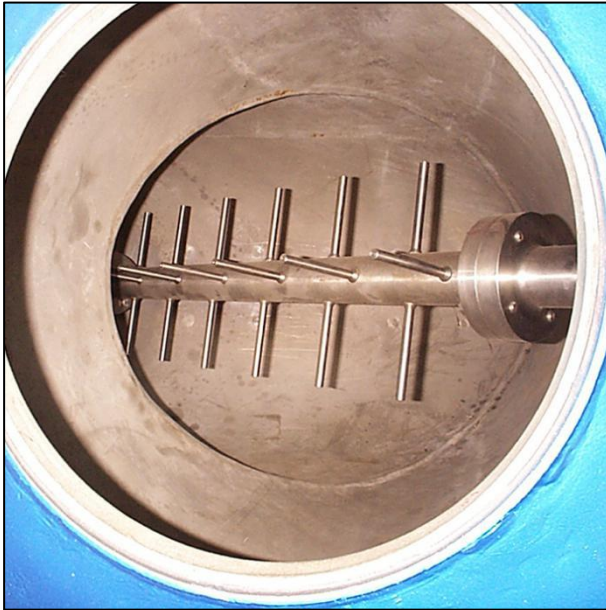


The PerMix PVM series V shaped Mixer has a "V" chamber made up by two cylinders. Powders and granules are fed into the V chamber either manually or by a vacuum conveyor.

A gear motor drives V chamber to roll in 360 degrees. This multi-dimensional motion makes the powders and granules inside tumbling up and down and colliding to each other all the time, and achieve uniform mixing in short time.

A safety barrier is often mounted in front of the mixer; sometimes a fully enclosed enclosure is requested to surround the mixer, supplying the safety function to stop the mixer immediately when the barrier or enclosure is open, and prevent the mixing vessel to run when the barrier or enclosure is not closed.

Features & Options:



The simplicity of design of the PerMix PVM series V shaped Mixer allows a low initial cost, easy maintenance and simple operation. It is available from the 2 liter laboratory to large industrial 6000 liter units. The PerMix PVM series V shaped Mixer can be supplied with a variety of accessories, including:

- Internal choppers
- Detachable vessels
- Vacuum/Drying execution with heating jacket, vacuum pump, dust filter, condenser, etc
- Special spray unit
- Special safety fence
- Mobile trolley
- PLC control & touch screen

Applications:

PerMix PVM series V shaped Mixers are widely used in pharmaceuticals, colors, plastics resins, food products, ceramic glazes, metal powders, cosmetics, detergents, insecticides, explosives materials, and a lot of others:

- Food

Breakfast Cereals, Enzymes, Flavours, Herbs, Minerals, Nutraceuticals, Seasonings, Spices, Tea Mixes, Tobacco, Vitamin Mixes

- Chemicals

Agrochemicals, Ceramic Powders, Detergents, Drugs, Dyestuffs, Leather Auxiliaries, Metal Powders, Pigments, Plastic Granules, Plastic Pellets, Plastic Powders, Textile Assistants

- Pharmaceuticals

Active Agents, Biological Solids, Carcinogenic Substances, Concentrated Active Ingredients, Generics,

Intermediate Products, Sterile Products, Toxic Substances

Specifications:

Model	Total Vol., Liter	Operation Vol., Liter	Power, kW	Length, mm	Width, mm	Height, mm	Operation Height, mm
PVM-5	5	3	0.25	810	500	660	770
PVM-15	15	7	0.37	700	525	1,100	1,150
PVM-45	45	20	0.55	1,000	760	1,300	1,400
PVM-100	100	50	0.75	1,200	990	1,500	1,630
PVM-200	200	100	1.1	1,560	1,240	1,715	1,890
PVM-300	300	150	1.5	1,750	1,400	1,900	2,000
PVM-500	500	250	2.2	2,200	1,600	2,550	2,825
PVM-700	700	350	3	2,400	1,900	2,720	2,970
PVM-1000	1,000	500	4	2,670	2,120	2,850	3,150
PVM-2000	2,000	1,000	5.5	3,550	2,680	2,280	2,660
PVM-3000	3,000	1,500	7.5	4,050	3,060	2,620	3,050
PVM-4000	4,000	2,000	11	4,450	3,350	2,880	3,300
PVM-5000	5,000	2,500	15	4,800	3,570	3,070	3,550

1. All specifications are as accurate as is reasonably possible, but they are not binding.
2. Customized sizes are available against request.
3. PerMix reserves the right to modify the design without notice.

Gallery:



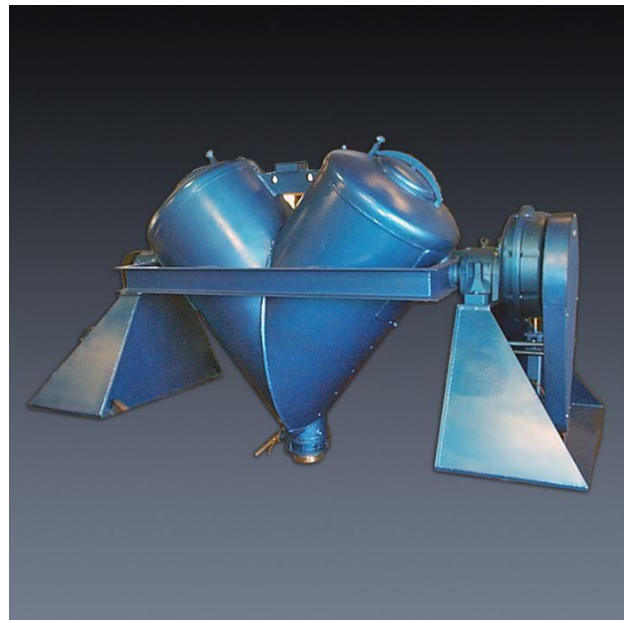
Special Design with Interchangeable Vessels



Lab-size PVM-5 Mixer



Standard PVM V-shaped Mixer



PVM Tumbler Mixer in All Carbon Steel



PVM-5 Mixer with Electric Control Panel



Vessel of PVM Mixer