

WE OFFER
PERFECT
MIXING
TECHNOLOGIES



PHARMACEUTICAL



NUTRACEUTICAL



FOOD



CHEMICAL



BIO



HEALTH & BEAUTY

PVR VERTICAL RIBBON MIXER

PVR VERTICAL RIBBON MIXER



HOW IT WORKS

The construction of PerMix PVR series Vertical Ribbon Mixer is very compact: it consists of a cone vessel with the drive unit on the top and discharge valve at the bottom. In the cone vessel, there are a central tapered ribbon with very small clearance between its edge and the wall, and additionally a screw mounted on the central shaft.

The ribbon and the screw move the materials upward from the bottom to the top, where the materials then drop by gravity into the center. During this continuous operation, material particles and heat are exchanged quickly which leads to a homogeneous product.

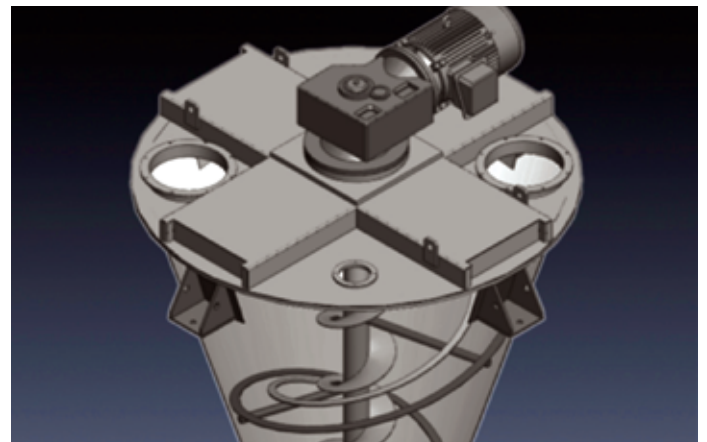
Besides, the material particles are mixed with minimal mechanical and thermal stress, which makes this type of mixer a good solution for fragile and heat sensitive product.

The PerMix PVR series Vertical Ribbon Mixer has a similar appearance with the PRB series Ribbon Blender, but stands vertically, same as our PNA series Conical Screw Mixer. PVR Vertical Ribbon Mixers are efficient and versatile blending machines for batch mixing of free-flowing powders, granules and pellets.

PerMix Vertical Ribbon Mixers are able to give perfect result of mixing due to the design of an outer spiral type mixing element with an inner screw, rotating together in a conical shape trough, which provides a multidimensional movement of the materials, and a complete discharge of all the mixed material without any residue. The Vertical Ribbon Mixers are also featured with no contamination to the product, due to the fact that the shaft sealing is above the working area, thus no contact with the product.

ADVANTAGES

- Medium level of accuracy with minor component ratio to be 1:100,000
- Gentle mixing for sensitive materials without generation of heat
- Low minimal quantity required
- Full discharge with minimal residue
- Easy to clean in either dry or wet way
- High heat transfer rate, ideal for heating or cooling process of the powders
- Chopper can be installed for intensive mixing and lump breaking



OPTIONS

- **Mixing Tool**

We offer several types of mixing tool for different sizes and applications.

- **Construction Material and Finish**

Our mixers can be built in Carbon steel, SS304, SS316L, Titanium, Hastelloy, etc. Finish of stainless steel can be mirror polished or bead blasted.

- **Feeding & Discharging**

A variety of feeding & discharging methods can be selected by the customers.

- **Heating/Cooling jacket**

Jacketed trough for heating/cooling operation

- **Vacuum drying & deaerating**

The PVR mixer can be designed for vacuum drying & deaerating or for inner pressure working for special applications.

- **Spray nozzle**

Liquid can be added into the powder by spray nozzles on the top.



SPECIFICATIONS

Model	Total capacity (liter)	Working capacity (liter)	Power (*) (kW)	Diameter (mm)	H, total height (**)(mm)	Inlet (***)(mm)	Outlet (****)(mm)	Weight (kg)
PVR-50	50	35	0.75	600	1200	90	150	120
PVR-100	100	70	1.5	708	1300	100	200	180
PVR-200	200	140	2.2	800	1350	140	230	350
PVR-300	300	210	3	990	1500	180	230	460
PVR-500	500	350	4	1156	1760	200	230	510
PVR-800	800	560	5.5	1400	2040	250	300	800
PVR-1000	1000	700	7.5	1600	2200	300	300	1020
PVR-1500	1500	1050	11	1780	2400	300	300	1100
PVR-2000	2000	1400	15	1948	2700	350	350	1270
PVR-2500	2500	1750	15	2062	2780	350	350	1530
PVR-3000	3000	2100	18.5	2175	3000	350	350	1780
PVR-4000	4000	2800	18.5	2435	3600	400	400	2100
PVR-5000	5000	3500	22	2550	3860	400	400	2600
PVR-6000	6000	4200	30	2715	4100	400	400	3000
PVR-8000	8000	5600	37	2798	4500	400	450	3300
PVR-10000	10000	7000	45	3000	4860	500	450	3800

- (*) (**) (***) (****): Changes are available according to the customer's request.
- Customized sizes available as per request
- All specifications and illustrations are as accurate as is reasonably possible, but they are not binding.
- PerMix reserves the right to modify the design without notice.

PerMix Tec Co., Ltd.

Room 1-1214, No.1888,
N. Shengxin Rd, Jiading,
Shanghai, 201807, China

Tel: +86-133-9116-8218

Fax: +86-21-3375-8218

www.permixtec.com

www.permix-mixing.com

PerMix in China

Shanghai, 201821, China

Contact: Mr. Aaron Huang

Tel: +86 133 911 68218

Email: aaron.h@permixtec.com

PerMix in Israel

Adi 17940, Israel

Contact: Mr. Arie Srugo

Tel: +972-54-908-0144

Email: srugo@permixtec.com

PerMix North America

Chicago, Illinois,

60601, USA

Contact: Mr. John Paul

Tel: +1 630-649-1357

Email: John.paul@permixtec.com

South America office

Buenos Aires, Argentina

Contact: Mr. Gonzalo Villagra

Tel: +54-9-11-35374801

Email: gonzalo.villagra@permixtec.com

UK office

Scotland, UK

Contact: Mr. James Ryder

Tel: +44 (0) 7554139667

Email: james.ryder@permixtec.com

South Africa office

South Africa

Contact: Mr. Martin Whelan

Email: saf@permixtec.com

Russia office

Contact: Mr. Vladislav Dyuzhev

Tel: + 7 910 443 9924

Email: ru@permixtec.com

Ukraine office

Contact: Mr. Viacheslav Pishyi

Tel: +38 067 45 44 694

Email: ua@permixtec.com

