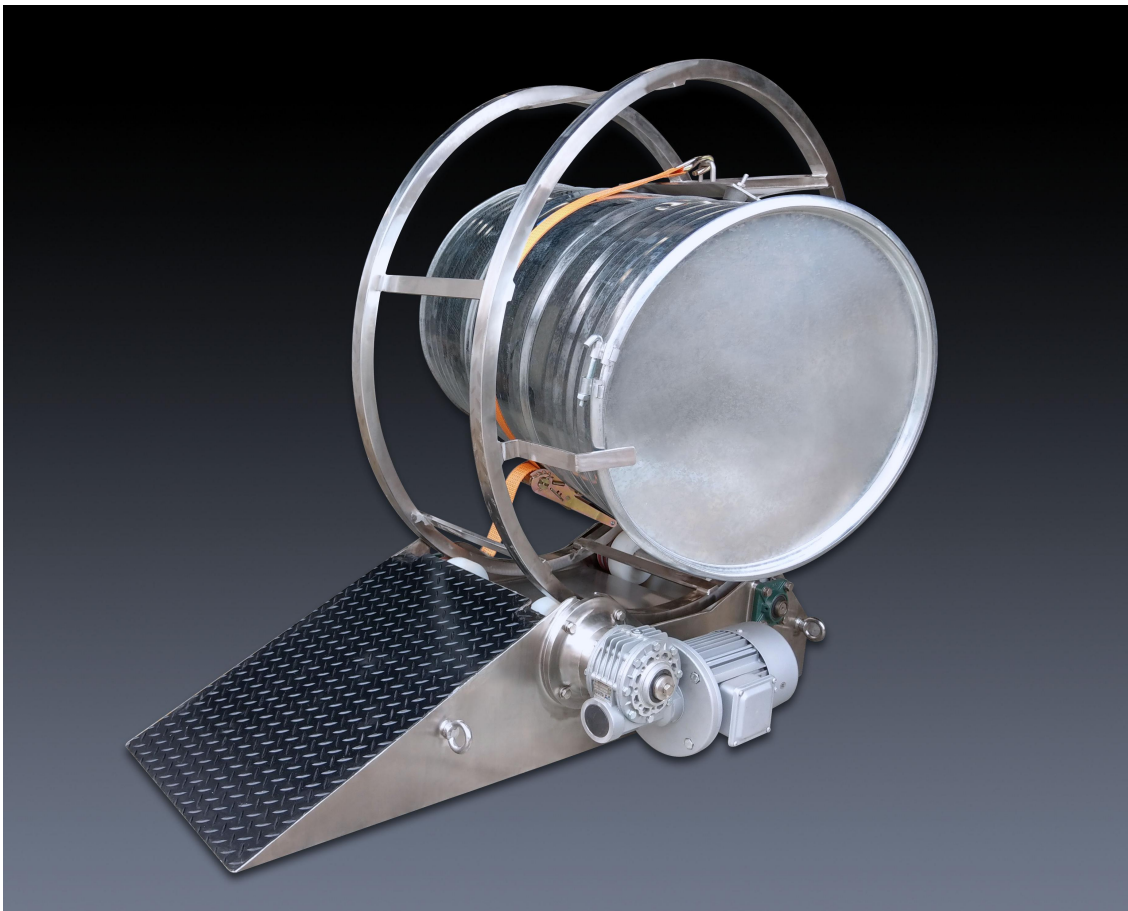


PDR - Drum Hoop Mixer

Introduction:



The PerMix PDR series Drum Hoop Mixer has been developed to meet increasing demands for a low batch mixer for mixing, blending, homogenizing, dyeing of dry powders and granules particularly in smaller industries or when frequent product changes as required.

PerMix PDR series Drum Hoop Mixer comprises a drive unit with roll-on / roll-off ramp, and it is used in mixing, homogenizing and dyeing of powdery or granulated components in the plastics industry, chemical industry, drug and dye works, food industry as well as textile and leather industry.

Drum capacity of PDR Mixer is usually 200L, but also available with 50 and 100 liters. Usually the drum is available as standard product in the market; however customized drums are also accepted, and the hoop then needs to be adapted to the drum size.

How It Works:



PerMix PDR series Drum Hoop Mixer comprises a drive unit (a motor / worm gearbox) and two shafts with 4 rollers located on the machine base with a ramp. A hoop is designed to hold the mixing drum which is fed with powdery or granulated materials. The mixing drum can be a standard drum with full volume varying from 50L to 200L, or a drum in customized shape/volume. The hoop will be adapted to hold the drum tightly by a belt with two hooks.

To perform the mixing duty, the hoop and drum assembly is rolled manually up along the ramp until finally located on the four rollers. The drive unit moves the shaft that is connected to it, and the two rollers on the shaft move the hoop / drum, and then the other shaft / 2 rollers will rotate.

The mixing drum is lying inside the hoop with an angle, thus the material inside will move not simply up and down but also left and right, which leads to a homogeneous mixing after several minutes.

Features & Options:

Features of a PerMix PDR series Drum Mixer compared to a conventional mixer are:

- Intensive mixing with optional internal paddle baffles mounted in the drum
- Well suitable for frequent product changes, as the storage container at the same time serves as a mixing container
- Avoids inappropriate handling of dusty or tonic products
- Hoop can be used for transporting drum
- Easy exchanging of the mixing container
- No need for drum hoists, cradles, etc.

- Easy cleaning of the mixing container
- Optional GMP execution

Applications:

PerMix PerMix PDR series Drum Hoop Mixers are used widely in many applications, including but not only:

- Food & Drinks

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

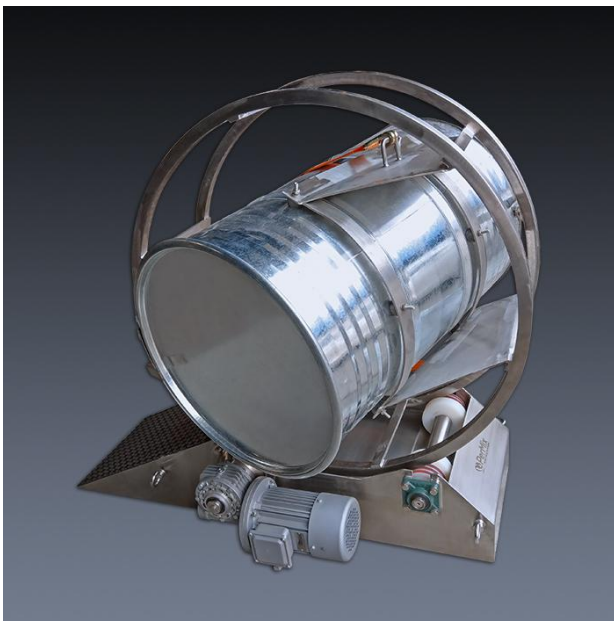
Active Agents, Biological Solids, Carcinogenic Substances, Concentrated Active Ingredients, Generics, Intermediate Products, Sterile Products, Toxic Substances

Specifications:

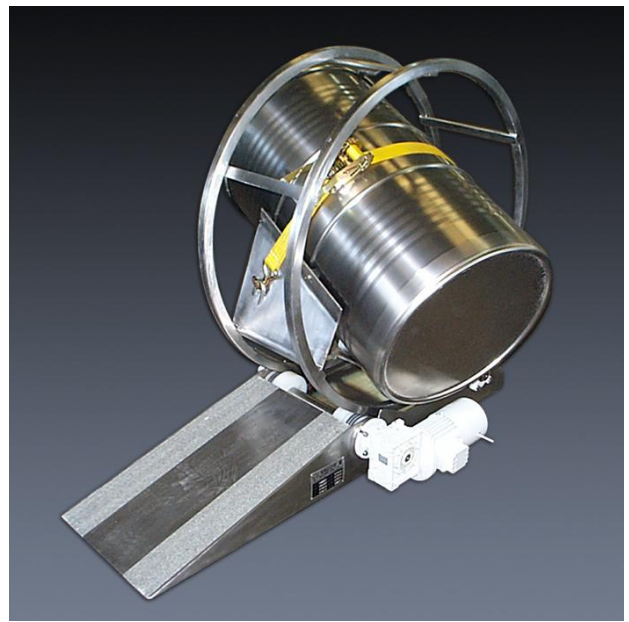
Model	Total Volume, Liter	Operation Volume, Liter	Max. Loading Weight, kg	Power, kW	Speed of Drum Hoop, rpm	L, mm	W, mm	H, mm	Weight, kg
PDR-50	50	35	30	0.55	30	1350	670	1185	130
PDR-100	100	70	60	0.55	25	1350	670	1185	130
PDR-200	200	140	120	0.55	20	1350	670	1185	130

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

Gallery:



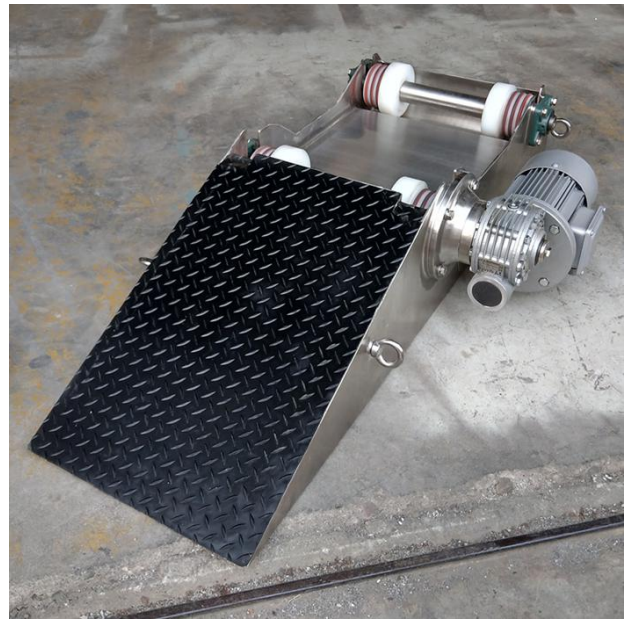
PDR-200 Mixer in All Stainless Steel



PDR Drum Mixer for Pharmaceuticals



PDR Drum Mixers in All Stainless Steel



Loading Slope of the Drum Mixer