

## PTU - 3D Mixer

### Introduction:



The PerMix PTU series 3D Mixer or Multi Direction Powder Mixer is used for homogeneous mixing of powdery substances with different specific weights and particle sizes. Producing dry-to-wet and wet-to-wet mixtures is also possible. The production process is hygienic and dust-free because the product is mixed in independent containers of variable sizes.

During the mixing process the powder moves on a random direction from center to the end of the trough and on the same time from top to the bottom. In such a multi-dimensional way, the PerMix PTU series 3D Mixer needs only short mixing time and relatively low power consumption.

The mixer's "Gentle" mixing action is good for final products that are sensitive to high shear of the mixer and tend to break or to reduce their particles size, or are highly abrasives.

### Construction Material & Finish:

We are able to offer our PTU Mixers with contact part to be built in SS304, SS316/316L, Titanium, Duplex stainless steel, Hastelloy, etc. Standard of internal and external finish can be adapted to the customer's needs.

## Advantages & Options:



- Excellent homogeneity of mixing with no dead points
- Sizes from 5 to 300 lit. total volume
- Interchangeable drums for small sizes less than PTU-50
- Mixing in independent containers (on small models as an Option) offers no contamination and emissions, no extra cleaning.
- Complete discharge and easy cleaning
- Safety cage to prevent human injury.
- Time-saving, fast exchange of the container, due to simple and fast mounting of the container.

## Specifications:

Model	Total Volume, Liter	Operation Volume, Liter	Power, kW	Speed of Mixing Can, rpm	Length, mm	Width, mm	Height, mm	Weight, kg
PTU-5	5	4	0.25	28	600	1000	900	150
PTU-15	15	12	0.37	20	700	1000	1000	200
PTU-50	50	40	1.5	15	1120	1330	1220	500
PTU-100	100	80	2.2	12	1370	1550	1430	700
PTU-300	300	240	4	8	2000	2400	2100	1600

1. All specifications are as accurate as is reasonably possible, but they are not binding.
2. Bigger sizes up to 1,000L are available against request.
3. PerMix reserves the right to modify the design without notice.

**Gallery:**



[www.permix-mixing.com](http://www.permix-mixing.com)

PTU-5 with 3 & 5L Interchangeable Drums



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PTU Mixers of Different Sizes