

## PTU - Turbula Mixer

### Introduction:



The PerMix PTU series Turbula Mixer (or 3D Mixer, 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 Turbula 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) 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