

# Blending PTS Batchmixer®



- High containment powder mixer
- Handles toxic and explosive powders
- Self-filling, full discharge
- High turn down ratio
- Minimal maintenance
- CIP, SIP
- No rotating or moving parts
- Highly efficient mixing < 0.1 %
- Mixes powders with various characteristics
- Powders are actively transferred to and from the PTS Batchmixer®



No Rotating Parts



Contamination Free



Easy Cleaning



Easy Sterilization



ATEX



cGMP

# Blending PTS Batchmixer®



PTS Batchmixer®\* provides the ultimate in speed and flexibility, reducing overall process time compared to traditional systems, enabling the operator to mix powders with different characteristics in a contained environment.

With applications from 2 litres to 6000 litres, the system also allows the operator to vary product volumes from 10-100%.

The system is particularly appropriate for pharmaceutical applications where active substances must be handled without contamination or changes to physical properties. This easily integrated system has a main container with an integrated central deflector and a PTS with two tangential inlets on top. The powders are automatically introduced by the PTS and circulated within the container for a predefined period of time. The deflector ensures a homogeneous distribution of the mixture. The mixing process is faster and more effective as a result of the two jets of powder meeting in

the PTS body. With limited circulation speed, particles, however, are not damaged. The system operates under inert conditions for hygroscopic, oxygen sensitive or explosive materials. Powders can be transferred automatically from drums, bags or directly from process equipment like a granulator. At the end of the mixing process the system can be completely emptied and the material can be conveyed to the next stage in production.

## Design

- AISI type 316L stainless steel, electro-polished
- Various materials (HC22, internal coating, plastics, etc.)

## Features

- Highly efficient mixing
- Mixes diverse powders with large differences in ratio (1/10'000)
- High level of containment
- Inert operation

- High turn down ratio < 10% - 100% product load
- Full discharge
- Introduction of additives without process interruption
- No modification of product characteristics
- Extracts from different containers (drums, big-bags, silos, etc.)
- Emptying by gravity or active transfer
- cGMP/ATEX compliant design
- No moving or rotating parts
- Minimal maintenance
- Cleans in place (CIP/SIP)

## Options

- Load cells
- Hygienic, sterile unit
- Mobile unit
- Integration of high shear tools
- Discharge device for non free-flowing powders
- Sampling

\*patented

## Indicative values

Batchmixer	65	80	100	150	200	300	400
Batch size / l	2-50	50-100	100-250	250-500	500-1000	1000-3000	3000-6000

