



# V CONE MIXING MACHINE

High Efficiency • Zero Leakage • High Uniformity

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**PROCESS, PACKAGING & PUMPING EQUIPMENT**

# V CONE MIXING MACHINE

## TPE-V CONE Series

This v-shaped mixer machine is suitable to mix more than two kinds of dry powder and granular materials in pharmaceutical, chemical and food industries. It can be equipped with forced agitator according to user's requirements, so as to be suitable for mixing fine powder, cake and materials containing certain moisture. It consists of a work-chamber connected by two cylinders forming a "V" shape. It has two opening on top of the "V" shape tank that conveniently discharged the materials at the end of the mixing process. It can produce a solid-solid mixture.



V-Shape Tank



Control Panel



Class Safety Door



Frame



# APPLICATION



The v-shaped mixer is commonly used in dry solid blending materials and used in the following application:

- Pharmaceuticals: mixing prior to powders and granules.
- Chemicals: metallic powder mixtures, pesticides and herbicides and many more.
- Food processing: cereals, coffee mixes, dairy powders, milk powder and many more.
- Construction: steel pre-blends and etc.
- Plastics: mixing of master batches, mixing of pellets, plastic powders and many more.

## Working Principle

This v-shaped mixer machine is composed of mixing tank, frame, transmission system, electrical system etc. It relies on two symmetric cylinders to gravitative mix, which makes materials constantly gather and scattered. It takes 5 ~ 15 minutes to mix two or more powder and granular materials evenly. The recommended blender's fill-up volume is 40 to 60% of the overall mixing volume. The mixing uniformity is more than 99% which means that the product in the two cylinders move into the central common area with each turn of the v mixer, and this process, is done continually. The inner and outer surface of the mixing tank is fully welded and polished with precision processing, which is smooth, flat, no dead angle and easy to clean.

# DETAILS

Units can be supplied up to 2,000 liters

Item	TPE-VS100	TPE-VS200	TPE-VS300
Total Volume	100L	200L	300L
Effective Loading Rate	40%-60%	40%-60%	40%-60%
Power	1.5kw	2.2kw	3kw
Tank Rotate Speed	0-16 r/min	0-16 r/min	0-16 r/min
Stirrer Rotate Speed	50r/min	50r/min	50r/min
Mixing Time	8-15mins	8-15mins	8-15mins
Charging Height	1492mm	1679mm	1860mm
Discharging Height	651mm	645mm	645mm
Cylinder Diameter	350mm	426mm	500mm
Inlet Diameter	300mm	350mm	400mm
Outlet Diameter	114mm	150mm	180mm
Dimension	1768x1383x1709mm	2007x1541x1910mm	2250*1700*2200mm
Weight	150kg	200kg	250kg

## STANDARD CONFIGURATION

No.	Item	Brand
1	Motor	Zik
2	Stirrer Motor	Zik
3	Inverter	QMA
4	Bearing	NSK
5	Discharge Valve	Butterfly Valve



# DETAILS

## New design

Base: Stainless steel square tube.

Frame: Stainless steel round tube.

safe and easy to clean.



## Plexiglass safe door and safety button.

The machine has safety plexiglass door equipped with safety switch



## Outside of the tank

The outer surface is fully welded and polished, no material storage, easy and safe to clean.

Optional 304 or 316 stainless steel contact parts  
All materials outside the tank are stainless 304.



## Inside of the tank

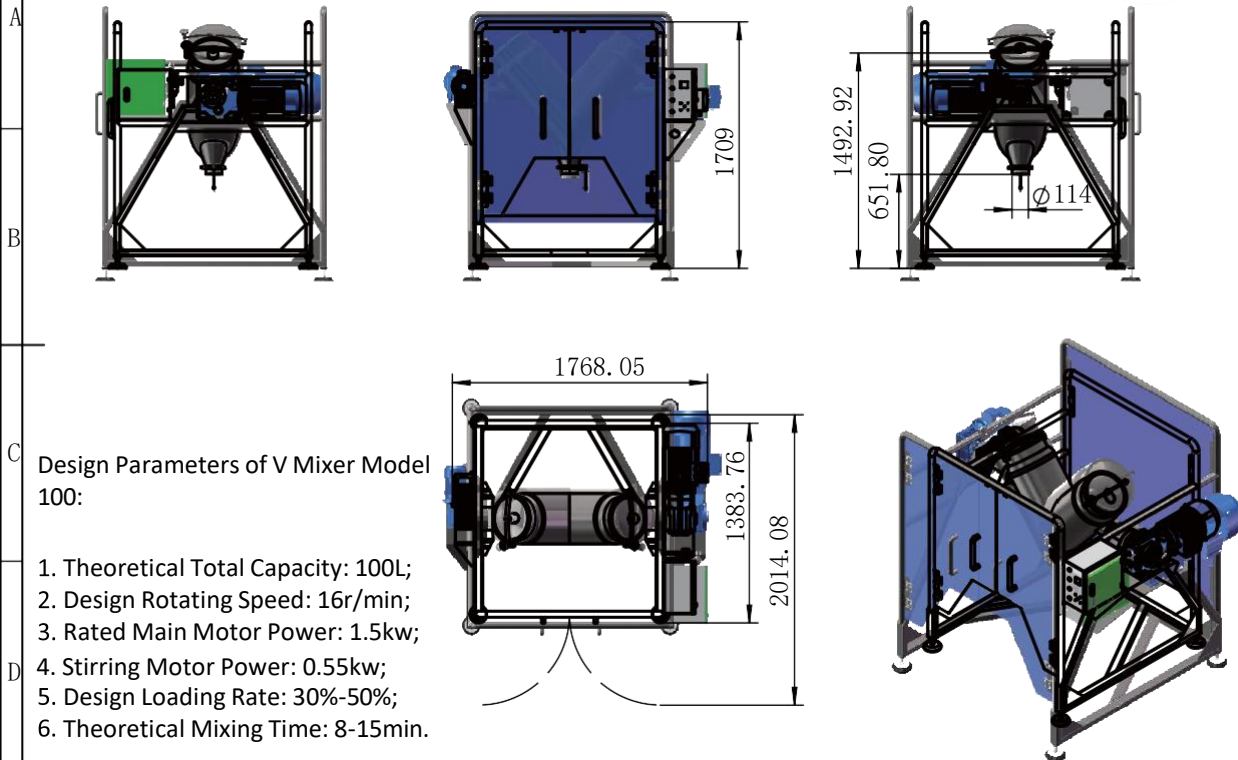
The inner surface is fully-welded and polished.  
Easy to clean and hygienic,

It has removable (optional) intensifier bar and it helps to increase the mixing efficiency.

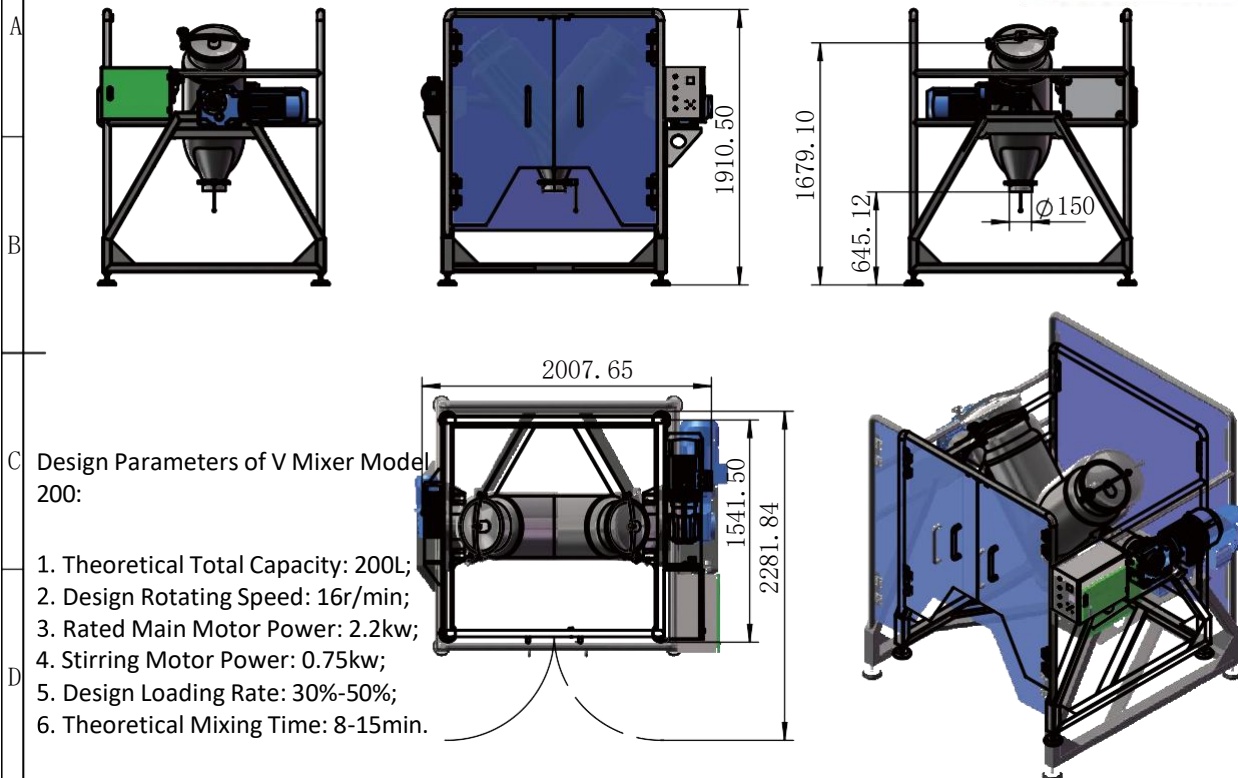


# STRUCTURE & DRAWING

## TPE-VS100



## TPE-V200



TPE-VS2000 Mixer

