

A large industrial V-cone mixing machine is shown from a low angle, looking up. The machine has a large, transparent, bell-shaped mixing vessel with a central agitator. It is surrounded by various pipes, valves, and a control panel with a digital display and several buttons. The machine is set against a white wall with a blue stripe near the top. The text 'V CONE MIXING MACHINE' is overlaid in large, white, sans-serif letters across the center of the machine.

# 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

Class Safety Door



Control Panel



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



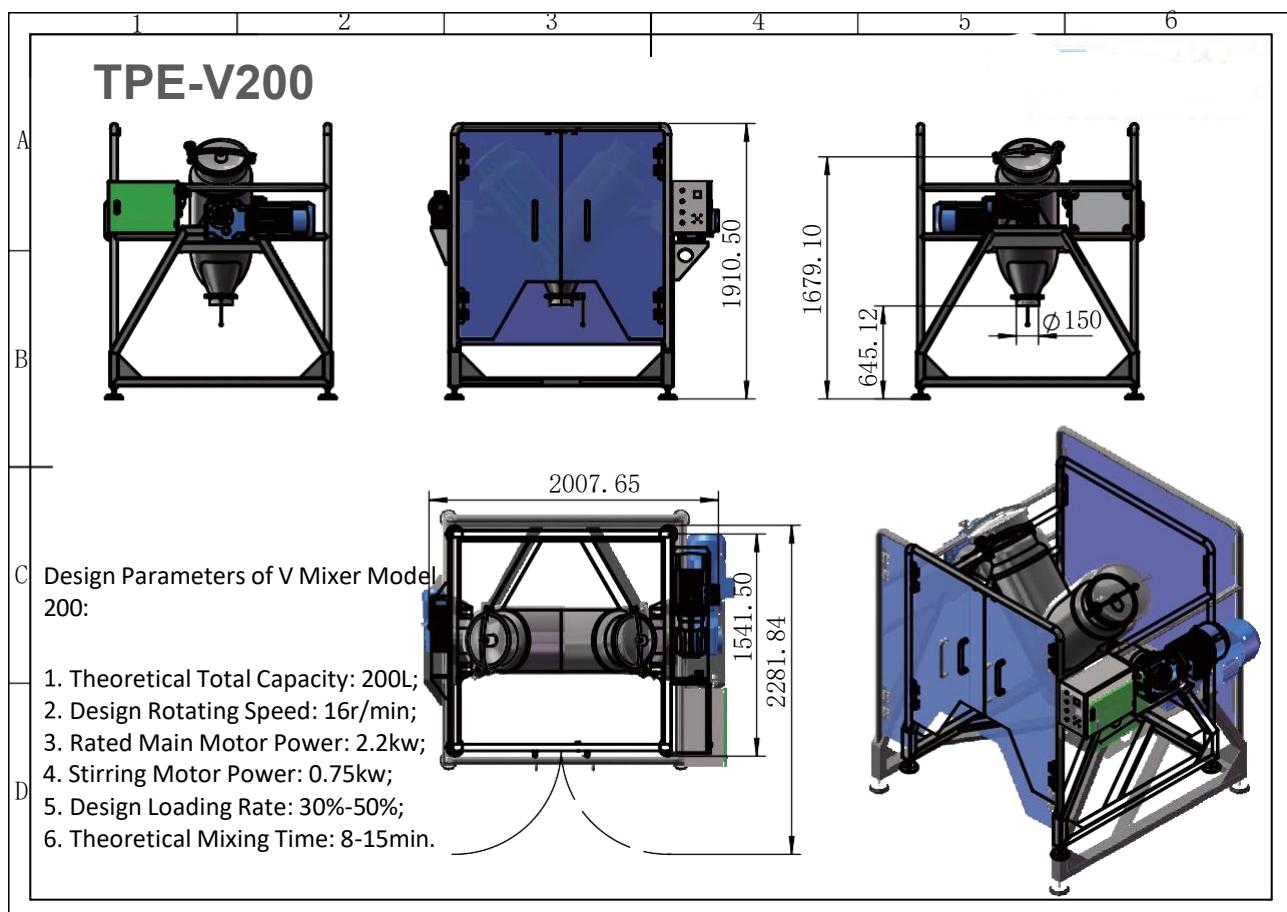
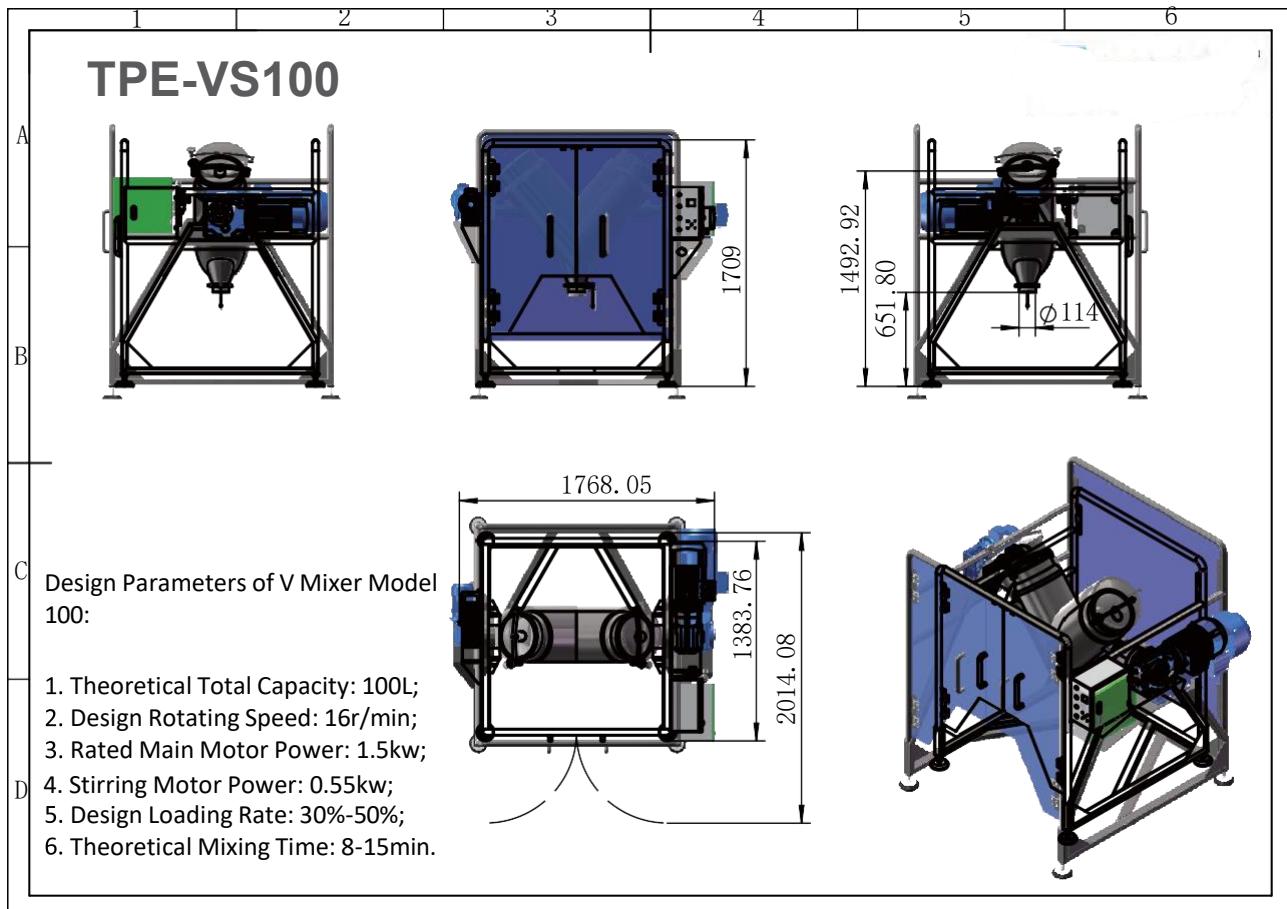
## Inside of the tank

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

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



# STRUCTURE & DRAWING



## TPE-VS2000 Mixer

