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TENCAN

Product Brochure



MIXED SERIES

V-type mixer

V5~500

V-type mixer for uniform blending of dry powders and granules. Ideal for pharmaceutical, food, chemical, metallurgy, and electronics industries.

<https://www.planetaryballmills.com/products/mixed-series/v-type-mixer.html>



Product Overview

V-type mixer for uniform blending of dry powders and granules. Ideal for pharmaceutical, food, chemical, metallurgy, and electronics industries.





Product Introduction

V-shaped mixer is used to mix powder evenly. It is suitable for mixing two or more dry powdery and granular materials in pharmaceutical, food, chemical, metallurgy, electronics and other industries. The mixing barrel of the V-shaped mixer has a unique structure. Through mechanical transmission, the materials in the V-shaped cylinder are turned back and forth to achieve uniform mixing. The mixing barrel of V-type mixer is generally made of stainless steel, with polished inner and outer walls. The structural design is not easy to accumulate materials, has the characteristics of high speed, short mixing time, and easy cleaning.



Mixing Drum

The inner and outer surfaces of the drum are polished and designed with smooth transitions to help avoid cross-contamination of materials.

Control Panel

A simple and convenient control panel for flexible operation.



Drum Body

The drum body can be made of carbon steel, stainless steel, nylon, and other materials.

Mixing Drum

The inner and outer walls are polished, preventing material buildup inside the drum, with fast speed and short mixing time.



Variable Frequency Controller

The ideal rotating speed can be selected according to the experiment.







It is suitable for mixing two or more dry powdery and granular materials in pharmaceutical, food, chemical, metallurgy, electronics and other industries.

Technical parameters

Specification	Working volume(L)	Total volume(L)	charging factor	Mixing power (KW)	Speed(r/min)
V-5	2	5	0.4	0.37	50
V-10	4	10	0.4	0.37	50
V-20	8	20	0.4	0.75	33
V-50	20	50	0.4	1.5	33
V-100	40	100	0.4	1.5	23
V-200	80	200	0.4	3	19
V-300	120	300	0.4	4	14
V-500	200	500	0.4	7.5	12

Working Principle

The V-type mixer is composed of two cylindrical shaped and welded containers. The shape of the container is asymmetrical with respect to the axis. Due to the rotational motion, the powder particles continuously and repeatedly alternate, divide and merge in the inclined cylinder. ; Materials are randomly transferred from one area to another. At the same time, slip occurs between powder and granule particles, and the space is superimposed multiple times. The particles are continuously distributed on the newly generated surface, and shearing, diffusion and mixing are repeated repeatedly.

Product Features

1. The mixing efficiency is higher for materials with similar particle size and density.
2. It is not easy to break when mixing particles.
3. There is no mechanical extrusion and strong wear, and the material particles can be kept intact.
4. The inside and outside of the barrel are polished and designed with a smooth transition to avoid cross-contamination of materials.
5. The cylinder material can be selected from carbon steel, stainless steel, nylon, etc.
6. Comes with timing function.

Accessories & Customization

Accessories

Grinding jars, heating elements, sample holders, control modules and other matching accessories can be selected according to the product configuration.

Customization

For voltage, capacity, chamber size, process temperature or application requirements, please contact TENCAN for a suitable configuration.