

Professional
Powder Equipment
Manufacturer



Powder
Equipment



Milling
Technology



Powder
Materials

TENCAN

Product Brochure



MIXED SERIES

3D mixer

SH

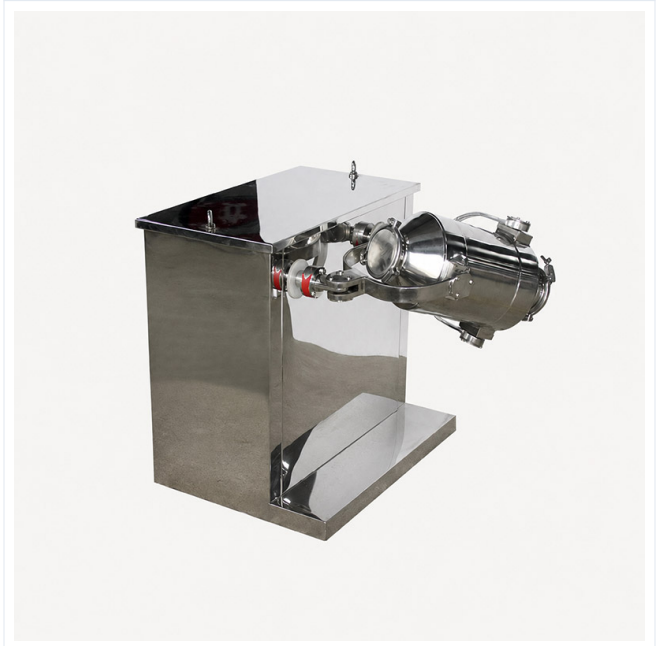
3D mixer efficiently blends free-flowing powders and granules for pharmaceutical, chemical, food, and metallurgy industries. Ideal for uniform mixing with minimal degradation.

<https://www.planetaryballmills.com/products/mixed-series/3d-mixer.html>



Product Overview

3D mixer efficiently blends free-flowing powders and granules for pharmaceutical, chemical, food, and metallurgy industries. Ideal for uniform mixing with minimal degradation.





Product Introduction

The three-dimensional motion mixer is a new material mixing equipment widely used in pharmaceutical, chemical, food, metallurgy, light industry and scientific research units and other industries. It is suitable for mixing powdery or granular materials with good fluidity. At the same time of mixing, you can add balls to grind, and the grinding and mixing effect will be better. This machine is suitable for mixing a variety of materials, and is widely used in the mixing of two or more materials in various fields such as electronics (lithium cobalt oxide), ceramics, chemicals, medicine, daily chemicals, organic and inorganic.

Mixing Series

3D Mixer / Details



Food-Grade Material



Uniform Mixing



Tumbling Motion



Easy Cleaning



Mixing Drum

The 3D mixer uses universal joints on the drive and driven shafts to support the mixing drum, enabling three-dimensional movement along the X, Y, and Z axes.

Suitable Materials

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Electronic Materials



Biopharmaceuticals



Research & Chemicals



Ceramics

Technical parameters

model	SH-50	SH-100	SH-200	SH-300	SH-400	SH-500	SH-600	SH-800	SH-1000
Mixing barrel volume (t)	50	100	200	300	400	500	600	800	1000
Maximum charging volume (t)	40	75	160	240	320	420	480	640	800
Maximum loading weight (kg)	40	75	160	240	320	420	480	640	800
Spindle speed (rpm)	0-15	0-15	0-15	0-15	0-15	0-15	0-15	0-15	0-15
Motor power (kw)	1.1	1.5	2.2	4	4	5.5	5.5	7.5	7.5
Dimensions (mm)	1000×1400×1200	1200×1700×1500	1400×1800×1600	1400×1800×1600	1800×2100×1950	1900×2100×2100	1900×2100×2250	2200×2400×2300	2250×2600×2600
Weight (kg)	300	500	800	1200	1200	1380	1500	2000	2500

Working Principle

The three-dimensional mixer uses the universal joints of the driving shaft and the passive shaft to support the mixing barrel to make three-dimensional movements in the X, Y, and Z axis directions, as well as to make revolution movements. The materials in the mixing barrel undergo diffusion, flow and shearing movements from time to time, which enhances the mixing effect of the materials. Due to the three-dimensional movement of the mixing barrel, it overcomes the influence of centrifugal force produced by other types of mixers during mixing, reduces the specific gravity segregation of the materials, and enhances the mixing efficiency of the materials.

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.