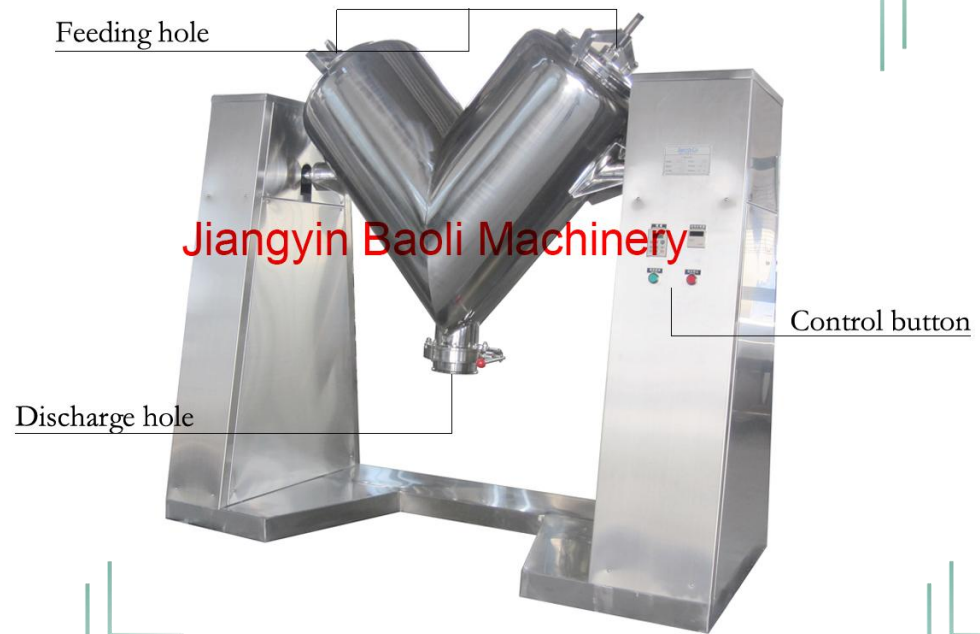


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JB Series V Type Mixer Machine



The V-type mixer is an efficient equipment used for mixing dry powder and granular materials. It is named after its V-shaped mixing container and is widely used in various industries such as pharmaceuticals, chemicals, food, metallurgy, etc.



Working Principle

The core principle of the V-type mixer is to use the rotation of the container to generate complex movements of the material in the cylinder, such as separation and up and down, in order to achieve uniform mixing.

Specifically, when the mixing drum rotates around the horizontal axis, due to the asymmetric design on both sides of the V-shaped container, the material will undergo the following motion states during the rotation process:

Circular motion: The material moves upward with the cylinder wall under the action of centrifugal force and frictional force on the cylinder wall.

Separation and scattering: When the material reaches a certain height, it will detach from the cylinder wall under the action of gravity and be scattered downwards.

Convergence and impact: The materials on both sides of the cylinder intersect at the bottom of the V-shape, producing intense impact and diffusion.

These processes cycle back and forth with the rotation of the cylinder, allowing materials of different components to achieve sufficient shear and diffusion in a short period of time, achieving a uniform mixing effect. Some models are also equipped with forced mixing blades, which can break down clumped materials and further accelerate mixing speed, especially suitable for fine powder or slightly damp materials.



Equipment structure and core characteristics

● Partial composition:

V-shaped mixing cylinder: The main container is usually made of stainless steel, with polished inner and outer walls that are smooth without dead corners and easy to clean.

Rack and bearings: support the entire mixing drum to ensure smooth rotation.

Transmission system: usually includes motors, reducers, etc., which drive the mixing drum to rotate. Many models use variable frequency speed regulation, which can continuously adjust the speed within a large range (such as 2-15 revolutions per minute).

Control system: Often equipped with time relays for setting and automatically stopping the mixing time.

(Optional) Forced mixer: mixing blades added for special materials.

● Core characteristics :

High mixing uniformity: The material moves fully inside the cylinder, and the mixing uniformity can usually reach over 98%.

Mild mixing without breakage: mainly relying on gravity diffusion, with minimal wear and breakage of material particles, it can effectively maintain the original physical state of the material.

Easy to clean without dead corners: The inner wall of the cylinder is smooth, with a smooth transition structure and no dead corners due to material accumulation, meeting strict hygiene standards in industries such as pharmaceuticals and food (such as GMP requirements).

Good sealing: It can achieve vacuum feeding and closed discharge, effectively preventing dust leakage, improving the working environment, and protecting the health of operators.

Easy to operate: compact structure, small footprint, high degree of automation, usually set the time for automatic operation.



Application Fields



The V-type mixer is particularly suitable for mixing dry powder or granular materials with good fluidity, and is widely used in the following industries:

Pharmaceutical industry:

mixing multiple drug raw materials or excipients.

Food industry:

used for mixing milk powder, seasonings, food additives, etc.

Chemical industry:

mixing of pigments, dyes, and plastic pellets.

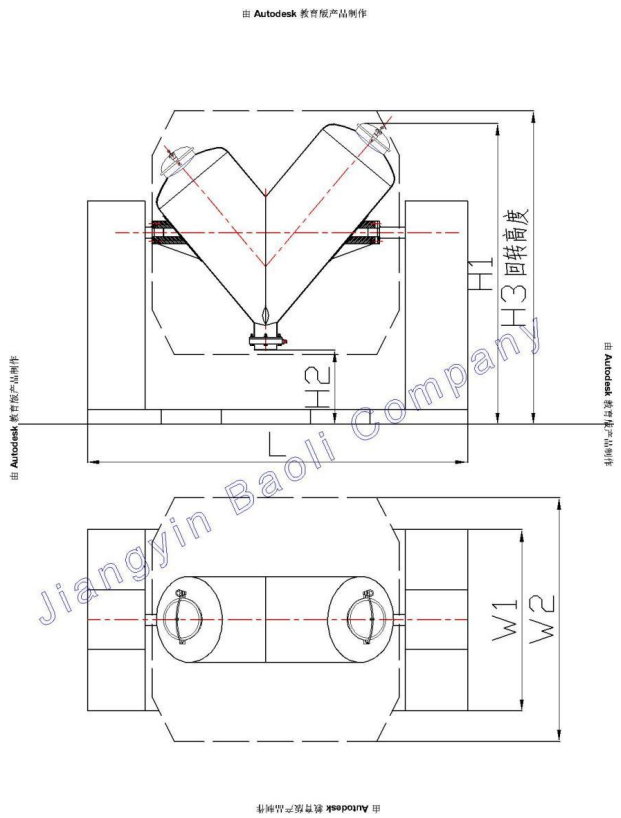
Other fields:

in industries such as ceramics, metallurgy, and feed.

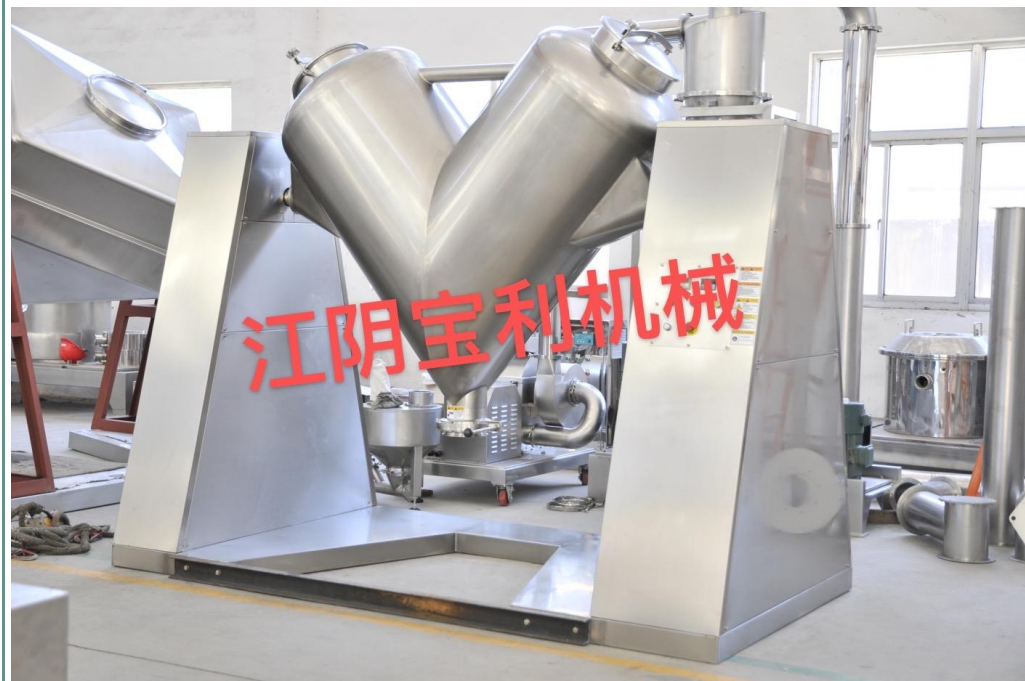


Technical Parameters

Model	Main Structural Dimensions(mm)							Capacity	Maximum mixing amount	speed	Machine weight	Total power
	L	W1	W2	H1	H2	H3	DN	L	KG	Rpm/min	KG	KW
JB-180	1780	800	1220	1700	650	1870	150	180	90	3-12	300	1.5
JB-300	1900	900	1450	1850	650	2100	150	300	150	3-12	500	2.2
JB-500	2500	1220	1600	2250	650	2250	200	500	250	3-12	800	3
JB-1000	3050	1650	2190	2500	650	2840	200	1000	500	3-12	1200	4
JB-1500	3350	1650	2350	2980	650	3000	200	1500	750	3-12	1500	5.5
JB-2000	3800	1900	2600	3050	650	3250	200	2000	1000	3-12	1900	7.5
JB-2500	3990	1900	2850	3200	650	3500	250	2500	1250	3-12	2400	11
JB-3000	4650	2200	3050	3400	650	3700	250	3000	1500	3-12	3100	15
JB-4000	4950	2200	3250	3600	650	3900	250	4000	2000	2-8	4200	18.5



More Photos



FAQ

1. Are you a factory or a trading company?

Jiangyin Baoli Machinery Manufacturing Co., Ltd. is a manufacturing-oriented enterprise. Mainly application in a full range of powder field, from the unit to the system, from the crushing, conveying, mixing, sieving to granulation.

2. Can the V Type Mixer mix both granules and powder at the same time?

As long as the density difference is not too significant, it can be mixed simultaneously.

3. What are the application fields of your V Type Mixers?

Used in food additives, baking ingredients, pharmaceutical intermediates, health food, chemical raw materials, and other industries.

4. What information do I need to get a quote for a powder mixing machine?

- ① What is the material of the machine?
- ② What capacity do you expect from a mixer machine? (kg/h)
- ③ What is the density of your raw material?
- ④ Do you need to add liquid?

Usually, we use stainless steel 304; if you want stainless steel 316, it's OK, and please tell us.

5. Can the machine be customized?

Yes, we provide flexible and customized solutions to precisely meet the special scenarios and high-performance requirements of your business.



About Baoli Machinery

Our company locates at Wuxi city, very near Shanghai City and it takes 35-50 minutes to get to our city by train from Shanghai.

1, We have CE certificate, ISO, BV...etc.

2, Each year, We takes part in a lot of Expos ,for example: FIC, CPHI, API...etc

3, Our team possesses profound experience in the powder industry sector. We can provide relevant production lines for loading, crushing, mixing, sieving, conveying and so on.

