

V blender is a high-efficiency asymmetric mixer, which is suitable for mixing powder or granular materials in chemical, food, medicine, feed, ceramics, metallurgy and other industries. The machine is simple in structure, airtight in operation, and convenient in feeding and discharging. Its cylinder is made of stainless steel, which is easy to clean. It is one of the basic equipment of many industrial enterprises.



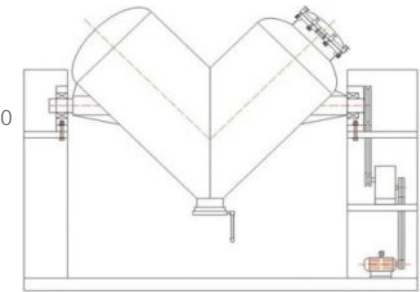
Application Fields of V Blender

Since the V-type mixing equipment is operated “gently” at a low speed of about 5-30r/min, it will not cause obvious crushing under normal circumstances. Moreover, the wall of the cylinder can be protected by a wear-resistant material coating, so V blender is suitable for easy Abrasion, crushing, mixing of granular materials with high requirements on product purity, good material fluidity and small physical property differences.

In addition, it is suitable for the mixing of powders and granules that are easy to agglomerate and the mixing of added liquids. The mixing equipment is also suitable for mixing materials with low mixing requirements and short mixing time. The rotation speed of V-type mixing equipment is generally 50% to 80% of the critical speed, and the optimal charging coefficient is 24% to 35%. On the other hand, the V-type mixing equipment is very convenient for charging, discharging, cleaning and changing varieties, so it is often used for the mixing of small batch, multi-variety, intermittent operation of fine chemical and pharmaceutical industry products.

Working Principle of Laboratory Basket Mill

The V blender consists of a container and a transmission part. The container part is made of two cylinders welded in a V shape, and the included angle α of the two cylinders is generally 80° . For powders with poor flow properties, this angle should be smaller. The feeding port is at both ends of the V-shaped, and the discharge port is at the bottom of the V-shaped, usually sealed with an O-ring.



The inner wall of the container needs to be polished to make the inner surface very smooth, so that the powder and granules can flow fully, and it is also conducive to discharging and cleaning. The lengths of the two barrels of the V blender are not equal, in order to more effectively disrupt the movement of the material in the mixing chamber, increase the degree of “turbulence”, and facilitate the full mixing of the material.

In addition, in order to increase the mixing effect, baffles, paddles or forced stirring paddles are sometimes installed inside the container to stir and deflect the materials. The rotation speed of the stirring paddle is generally 450-950r/min, and its rotation direction is opposite to the rotation direction of the cylinder to increase the mixing speed.

Technical Specifications

MODEL	VOLUME	CAPACITY	LENGTH	WIDTH	HEIGHT	OUTLET	ROTOR HEIGHT	ROTOR SPEED	POWER	WEIGHT
SEVB100	100L	24 KGS	1.65M	0.5M	1.55M	Ø100	1.6M	12 RPM	0.75 KW	180 KGS
SEVB300	300L	72 KGS	1.9M	0.6M	1.75M	Ø100	1.9M	12 RPM	1.1 KW	350 KGS
SEVB500	500L	120 KGS	2.3M	0.7M	2.1M	Ø150	2.25M	9 RPM	1.5 KW	550 KGS
SEVB1000	1000L	240 KGS	2.7M	1.0M	2.5M	Ø150	2.7M	9 RPM	2.2 KW	1000 KGS

MODEL	VOLUME	CAPACITY	LENGTH	WIDTH	HEIGHT	OUTLET	ROTOR HEIGHT	ROTOR SPEED	POWER	WEIGHT
SEVB1500	1500L	360 KGS	3M	1.0M	2.6M	Ø200	2.9M	8 RPM	3.0 KW	1100 KGS
SEVB2000	2000L	480 KGS	3.2M	1.2M	3.1M	Ø200	3.25M	8 RPM	4.0 KW	1500 KGS
SEVB2500	2500L	600 KGS	3.95M	1.5M	3.55M	Ø200	3.8M	7 RPM	5.5 KW	1700 KGS
SEVB3000	3000L	720 KGS	4.1M	1.5M	3.6M	Ø200	3.85M	6 RPM	7.5 KW	1800 KGS