

## *CH-series V Shape Mixer*



V shape blender is an asymmetric machine of high efficiency. It is generally applicable in chemical, food, pharmaceutical, fodder, ceramic or metallurgical industries to mix powdery or granular materials. It features reasonable and simple structure, operation in closed environment, convenient feeding and discharging, manual or vacuum material feeding. Its container is made of stainless steel and can be cleaned easily. Many enterprises adopt it as the basic equipment for granulation.

### **1. Structure introduction**

This machine can mix dry powder or granules. Its special structure allows uniform mixing, high efficiency and no material residue. Its structure is simple and operation is easy. Machine surface and parts contacting material are made of high-quality stainless steel for beautiful appearance, convenient maintenance and cleaning.

### **2. Working principle**

At one side of the machine, there is a motor and a reducer. The power of motor transmits to the reducer through belt and then to the V-barrel through coupling. The power drives continuous rotation of V-barrel so that material in the barrel moves upwards and downwards, to the left and to the right and is well mixed.

### **3. Application**

It can mix powder or granules of good fluidity but little physical difference. Besides, the mixing requirements should not be high and mixing time is always short. V-blender can mix materials smoothly without damaging them. Therefore, it can also be used to mix fragile or wearable granular materials, fine powder, lumps or materials containing certain moisture. It is widely applied in pharmaceutical, chemical and food industries...

#### 4. Precautions

1) Before production, operators should test it without processing materials. In addition, before test, operators should also check connecting parts, lubricating oil in reducer and completeness of electrical parts. Next, operators can turn on the power supply and test the machine;

2) Installation: level the machine and install machine seat to make the machine work smoothly;

3) Before production, operators can test the machine, during which they can check fasteners, electrical parts and machine working. For any abnormality, they can maintain, test and debug correspondingly;

4) Turn the feeding port to the top and feed materials. The volume of material cannot be heavier than regulated volume. Then close the port and turn on the machine. Stop the machine and have a check for any abnormality;

5) Medicine of different batches to be granulated mustn't be mixed in the same line continuously in accordance with GMP requirements;

6) If material is changed, the hopper should be cleaned and disinfected.

#### Technical Parameters

model	CH-300V	CH-6000V	CH-4000V
production capacity (kg/time)	100	2500	1800
model of vacuum pump	W2	W4	W4
material feeding time (min)	4-6	10-15	10-15
mixing time (min)	8-15	8-15	8-15
volume(m <sup>3</sup> )	0.3	6.0	4.0
rotation speed of mixing barrel(rpm)	10-12	10-12	10-12
motor power(kw)	1.1	15	11
height of mixing barrel	1850	4380	4200
overall dimensions (L*W*H)	1880×650×1850	4500×2200×4380	4300×2080×4200
weight (KG)	320	3200	2800

model	CH-2500V	CH-1500V	CH-1000V
production capacity (kg/time)	1200	680	400
model of vacuum pump	W3	W3	W3
material feeding time (min)	8-12	6-10	6-9
mixing time (min)	8-15	8-15	8-15
volume(m <sup>3</sup> )	2.5	1.5	1.0
rotation speed of mixing barrel(rpm)	10-12	10-12	10-12
motor power(kw)	7.5	4	4
height of mixing barrel	3790	3100	3000
overall dimensions (L*W*H)	3990×1990×3790	3190×1600×3100	2975×1600×3000
weight (KG)	2040	1020	950