

SBH-200

Three-Dimensional Mixer



**EQUIPMENT
TECHNICAL PARAMETER**

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SBH-200 Three-Dimensional Mixer



MACHINE APPLICATION

The 3D mixer, formerly known as the 3D swing mixer, also known as the oscillating mixer, is an advanced powder mixing equipment in China. It is used for the high uniformity mixing of powder and granular materials in pharmaceutical, chemical, light industry, electrical, mechanical, mining, national defense industry, and various scientific research units.

MACHINE FEATURES

This machine is composed of a touch Tai Chi exercise cylinder, frame, rotating wall, motor, deceleration device, etc. The power of this machine is 2.2kw, and the cylinder body is made of SUS-304 high-quality stainless steel plate. Made of 4mm, the rotating wall is made of high-quality stainless steel SUS-304. The inner barrel body is finely polished with a mirror surface, while the outer barrel body is polished with a mirror surface. When mixing materials, the flow effect is good without dead corners and does not pollute the materials. The inlet is connected with a stainless steel manhole, and the outlet is sealed with a stainless steel butterfly valve. The sealing effect is good and easy to operate, and the cleaning is simple. The frame is made of 10 # channel steel. The outer wall is made of brushed and polished SUS-304 plate, The appearance is smooth and elegant, and the wooden machine is equipped with a time control system with variable frequency speed regulation, which meets GMP verification requirements.

WORKING PRINCIPLE

The mixing cylinder of this machine operates in multiple ways, with no centrifugal force on the materials, no specific gravity segregation, layering, or accumulation phenomenon. Each component can have a significant weight ratio, and the mixing rate can reach over 99.9%. The maximum loading coefficient can reach 0.8 (0.4-0.6 for ordinary mixers), and the mixing time can be reached. The machine occupies a small area and is designed for energy-saving and efficient mixing. Due to multi-directional mixing during movement, it accelerates flow and diffusion, solving the problem of material density segregation and compaction caused by centrifugal force in general mixers. The mixing has no dead corners and can effectively ensure the best quality of mixed materials.

TECHNICAL PARAMETER

MODEL	SBH-200
Barrel Volume (L)	200
Max. Loading Volume (L)	160
Max. Loading Weight (kg)	100
Spindle Rotation Speed (r/min)	0-10 rpm; frequency control
Motor Power (kw)	2.2kw (220V)
Overall Size (L*W*H) (mm)	1400×1800×1600
Weight(kg)	800

ELECTRONIC PART LIST

NO.	NAME	MODEL	ORIGIN
1	Barrel body	Δ4mm	SUS-304
2	Outsourcing materials	Δ1.5mm	SUS-304
3	Rotating wall	Δ10mm	SUS-304
4	Framework	10#Channel steel	Q235
5	Motor	2.2k w	
6	Circular arc plate	Δ10mm	SUS-304
7	Pinyin axis	φ 90	45#
8	Gland	φ 120	45#
9	Wrist axis		45#
10	Shaft sleeve		
11	coupling		Q235
12	Nylon sheet	φ 200	45#
13	Acne board, skateboard	Δ24mm	45#
14	Main (passive) shaft	φ 70	45#

NO.	NAME	MODEL	ORIGIN
15	Intermediate shaft		45#
16	Sprocket		45#
17	Chain		45#
18	Belt pulley		HT200
19	Washers		Q235
20	Silicone strip		
21	Feed valve flange	¢ 400	SUS-304
22	Clamp	¢ 450	SUS-304
23	Discharge butterfly valve	¢ 200	SUS-304
24	Bearings	390	
25	Bearings	311	
26	Bearings	313	
27	Bearings	1307	
28	Bearings	1114	
29	Shaft shell bearing	CKS-1511	
30	Shaft shell bearing	CKS-1513	
31	Shaft shell bearing	CKS-1516	
32	Screw accessories		SUS-304
33	Electrical control		



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