



HZD2000 Automatic Lifting Bin Blender



The machine can automatically complete all actions including lifting, clamping, mixing, lowering, etc. An automatic lifting hopper mixer and several mixing hoppers of different specifications can meet the mixing requirements of large batches and diversified varieties of products. It is an ideal machine for mixing in pharmaceutical plants. It is also widely used in such industries as medicine, chemical industry, food, etc.

Working principle:

The machine is composed of machine base, gyrator, driving system, lifting system, braking system and control system. When it works, push the mixing hopper into the gyrator. Press the “confirm” button on the touch screen to automatically lift the mixing hopper to the designated position and automatically clamp it. After the pressure sensor receives the clamping signal, the mixing system will be driven to work and mixing will be carried out according to the set time and rotation speed. After the set parameters are reached, the gyrator will automatically stop vertically. At the same time, the braking system works and the mixing is finished. Then the lifting system will work. The mixing hopper in the gyrator will fall to the designated position and stop automatically, and process data will be printed. Then the mixing hopper is pushed out and transferred to the next procedure.

Features:

The gyrator (mixing hopper) forms an included angle of 30° with the rotation axis. The materials in the mixing hopper rotate along with the gyrator and make tangential movement along the hopper walls, producing strong turning and high-speed tangential movement and achieving the best mixing effect. PLC automatic control is adopted. It is provided with the infrared safety device and the discharging butterfly valve with the mistake operation preventer to ensure safe production. The materials can go through different working procedures in the same vessel without the need of frequent material transferring, material charging, etc. The machine effectively controls dust pollution and cross contamination, reduces loss of materials, controls material layering, optimizes production processes, and fully meets the requirements for medicine production in GMP.

Technical Parameters

Name	Unit	Parameters	Remark
Bin volume	L	2000	
Max net load	Kg	1000	Bin is not included.
Coefficient of material loading		50%-80%	
Mixing Uniformity	%	≥99	
Rotation speed	r/min	3-15	
Work time	min	1-59	
Total power	Kw	9.7	
Stationary appearance dimension	mm	Refer to the diagram	
Movable appearance dimension	mm	Refer to the diagram	
Height(charging port to floor)	mm	770	
Machine weight	T	4	