SYT | Expert in Powder Processing Solutions for 30 Years



DUST-FREE FEEDING STATION

Safe, clean, efficient particulate transfer equipment.

The dust-free feeding station is suitable for the unpacking, feeding, screening and unloading of small bags of materials in the pharmaceutical, chemical, food, battery materials and other industries. When unpacking, due to the function of the dust collecting fan, the material dust can be prevented from flying everywhere.When the materials are unpacked and poured into the next process, they only need to be manually unpacked and put into the system directly. The materials pass through the vibrating screen safety screen) to intercept the bulk materials and foreign objects, so as to ensure that the particles that meet the requrements are discharged.

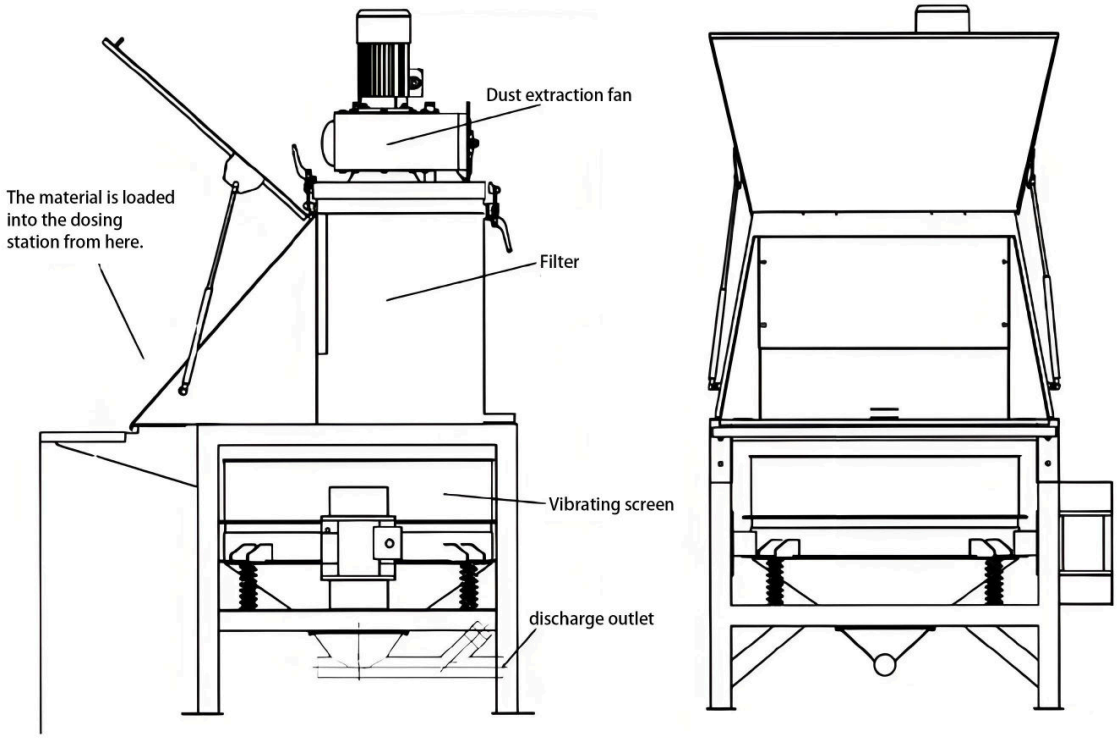
The dust-free feeding station is composed of feeding platform, unloading bin, dust removal system, vibrating screen and other components.







WORKING PRINCIPLE



The dust-free feeding station utilizes a dust collection fan at its top to create negative pressure. This rapidly draws in the dust generated during the feeding process and channels it through a high-efficiency filter for separation and collection. Simultaneously, the fully enclosed, sealed feeding device ensures that materials do not escape. A vibration device is equipped at the bottom of the station to assist in the rapid and smooth flow of materials into the production line. The entire feeding process employs automated control and monitoring technology, ensuring stability and reliability. This achieves safe and dust-free conveying and collection of raw materials for subsequent processing.

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FEATURES

Negative Pressure Dust Collection System:

Utilizes a built-in fan to generate negative pressure, drawing dust generated during material feeding into a filtration system. This prevents dust overflow, reduces material waste, and minimizes environmental pollution.

Intelligent Filtration & Cleaning:

Equipped with high-efficiency filters and pulse-jet cleaning technology, the system automatically cleans filter screens at regular intervals to prevent clogging and extend service life.

Material & Dimension Adaptability:

Main structure supports stainless steel (304/316L), carbon steel, and other materials. Overall height, hopper capacity, and design can be non-standard customized to fit site layouts.

Multi-Industry Applications:

Suitable for pharmaceutical, chemical, food, mining, and other sectors. Handles powders, granules, and small-block materials (e.g., refining agents, battery materials, food additives).

System Integration Capability:

Operates independently or connects to central dust collection pipelines/downstream equipment, enhancing production line continuity.

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MODEL AND SPECIFICATIONS





Model	Dust collection fan	Vibration motor	Dust filter
HC-800	1.1KW	0.18KW	0.4um(Coated polyester filter cartridge)
HC-1000	1.5KW	0.18KW	0.4um(Coated polyester filter cartridge)

APPLICATION

Chemical Industry	Pigments, dyes, carbon black, graphite powder, flame retardants, plastic powder, etc.
Pharmaceutical Industry	APIs, TCM powders, chemical drug powders, excipients (e.g., lactose, starch), vitamin powders, etc.
New Energy Industry	Lithium-ion battery cathode and anode materials (e.g., lithium cobalt oxide, lithium iron phosphate), carbon powder, etc.
Food Industry	Milk powder, wheat flour, icing sugar, cocoa powder, seasonings, food additives, etc.







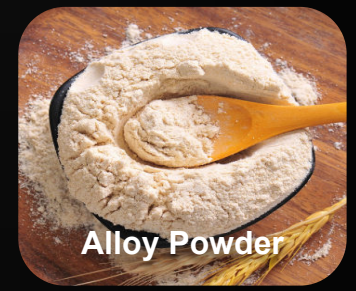












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THE SERVICES WE CAN PROVIDE

Sanyuantang Machine Co., Ltd. has been engaged in foreign trade export for more than 10 years. Its rich export experience ensures that you have worry-free purchasing.

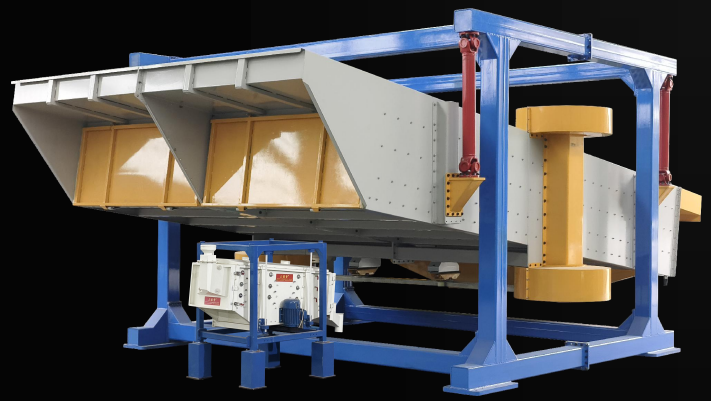
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① Timely response through various communication tools.

② Professional technical guidance to choose the most suitable product for you.

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