SYT Expert in Powder Processing Solutions for 30 Years



PNEUMATIC VACUUM FEEDER

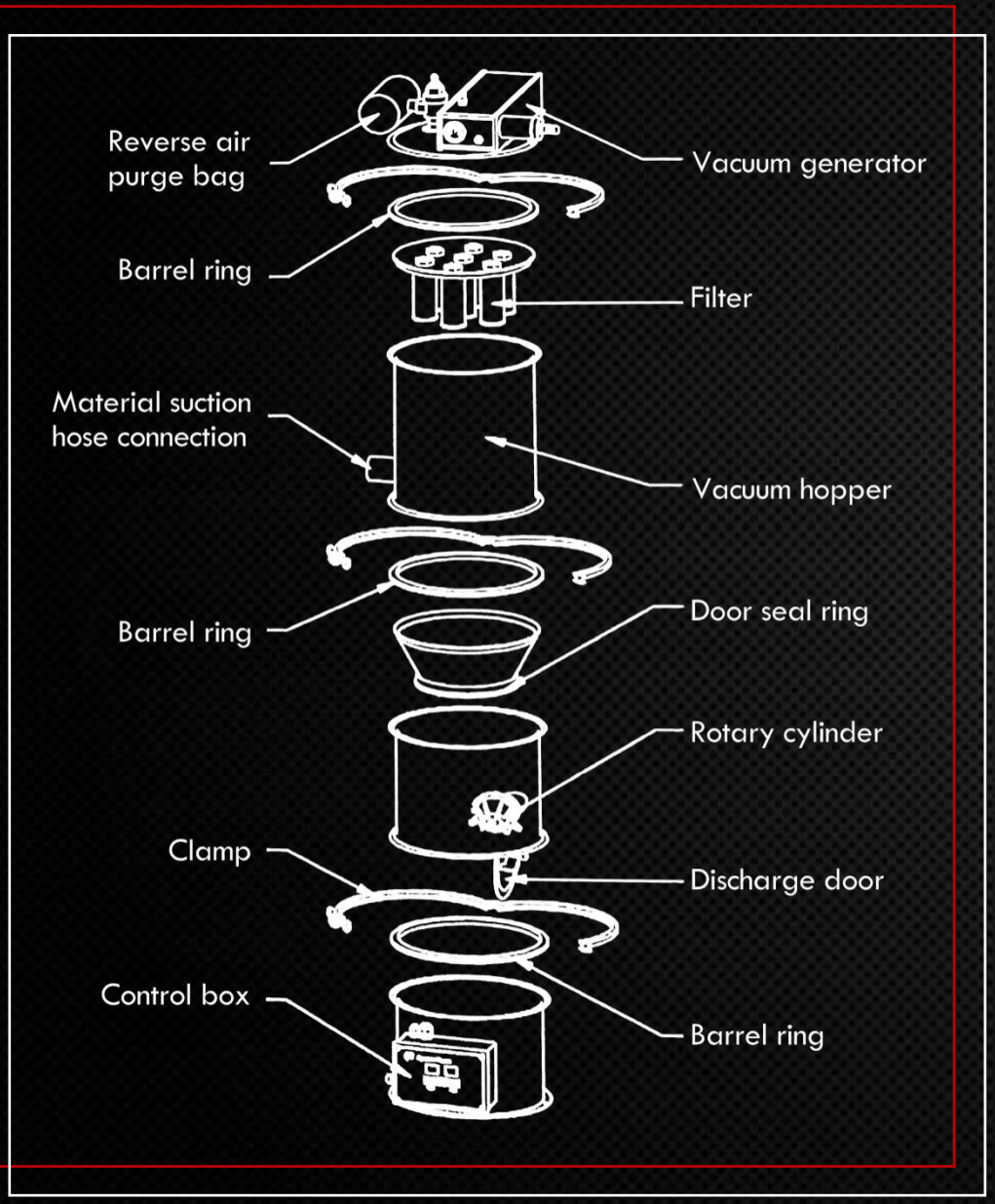
small footprint, low noise emission, user-friendly controls, and static charge elimination for materials.

The pneumatic vacuum feeder uses compressed air to generate high vacuum through a vacuum gonerator to realizel the transportation of materials. It does not require a mechanical vacuum pump. It has simple structure, small volume, maintenance-free, low noise, convenient control, elimination of static electricity and compliance with GMP requirements and other advantages. The high vacuum generated by the vacuum generator prevents the material being transported from stratifcation and ensures the uniformity of the composition of the mixture. It is a tablet press, a capsule filling machine, a dry granulator, a packaging machine, a pulverizer, and a vibrating screen. The preferred equipment for mechanical automatic feeding.









WORKING PRINCIPLE

Whon compressod air is suppliod to tho vacuurm generator, the vacuum generator generates negative pressure to form a vacuum air flow, and the material is sucked into the suction nozzle, and the resulting air flow passes through the suction pipe to the silo of the feeder. The filtor completely separates the material from the air. When the matorial is fillod into the silo, tho controller will aulomatically cut off the air source, tho vacuum generator will stop working, and the silo door will open automatically and the material will fall into the hopper of the oquipment. At the same time, compressed air passes through the pulse; the middle blowback valve automatically cloons the filter, When the time is up or the material level sensor sends out the feeding signal, the teeding machine will be startod automatically.

HILIGHTED PATENTED FEATURES



Dust-free enclosed conveying

- The entire conveying process is conducted within enclosed pipelines, effectively preventing dust leakage and ensuring a clean working environment that meets GMP requirements for pharmaceutical and food industries. This reduces material contamination risks and enhances product purity.



Automated control with user-friendly operation.

- The system can be equipped with level sensors to enable automatic start/stop control, reducing manual intervention by up to 30%. PLC or timer-based programming regulates suction/discharge cycles, adapting to material-specific conveying requirements.

FEATURES

01

Simplified Structure & Maintenance-Free Operation

Utilizes pneumatic vacuum generators instead of mechanical pumps, eliminating rotating parts to reduce wear components and failure points. Ensures low maintenance costs with robust reliability.

02

Compact Design & Flexible Installation

Space-saving footprint enables deployment in confined production areas. Modular configuration supports versatile integration scenarios.

03

Low Noise and Energy-Saving & Environmentally Friendly

Compared to traditional mechanical pumps, the pneumatic vacuum feeding machine operates with lower noise levels, making it suitable for production environments sensitive to noise.

04

Static Elimination Function

Some models are equipped with static elimination devices to reduce the accumulation of static electricity in powder materials during the conveying process, thereby enhancing safety.

05

Customizable Design

The conveying parameters can be adjusted according to the characteristics of different materials (such as flowability and density). Additionally, various filters (e.g., stainless steel, PTFE, etc.) can be selected to meet special requirements.

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01



ZKS-1 pneumatic vacuum feeder
Conveying capacity:50~300kg/h
Silo volume: 1.1L
Working pressure: 0.4~0.6Mpa
Compressed air consumption:180NL/min

02



ZKS-2 pneumatic vacuum feeder
Conveying capacity: 100~700kg/h
Silo volume: 6.0L
Working pressure: 0.4~0.6Mpa
Compressed air consumption:360NL/min

03



ZKS-3 pneumatic vacuum feeder
Conveying capacity: 300~1500kg/h
Silo volume: 12.0L
Working pressure: 0.4~0.6Mpa
Compressed air consumption:720NL/min

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.

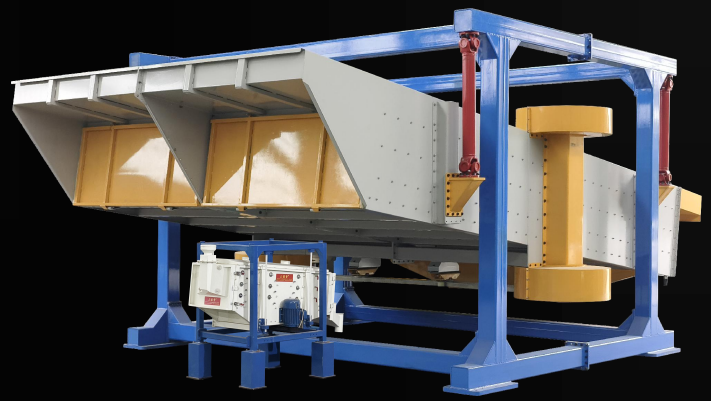
When you cooperate with us, you can enjoy:

① Timely response through various communication tools.

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

③ Economical transportation scheme to cut down transportation cost.

④ Thoughful after-sales tracking service from the installation to the daily maintanence.







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