SYT | Expert in Powder Processing Solutions for 30 Years



# VACUUM FEEDER

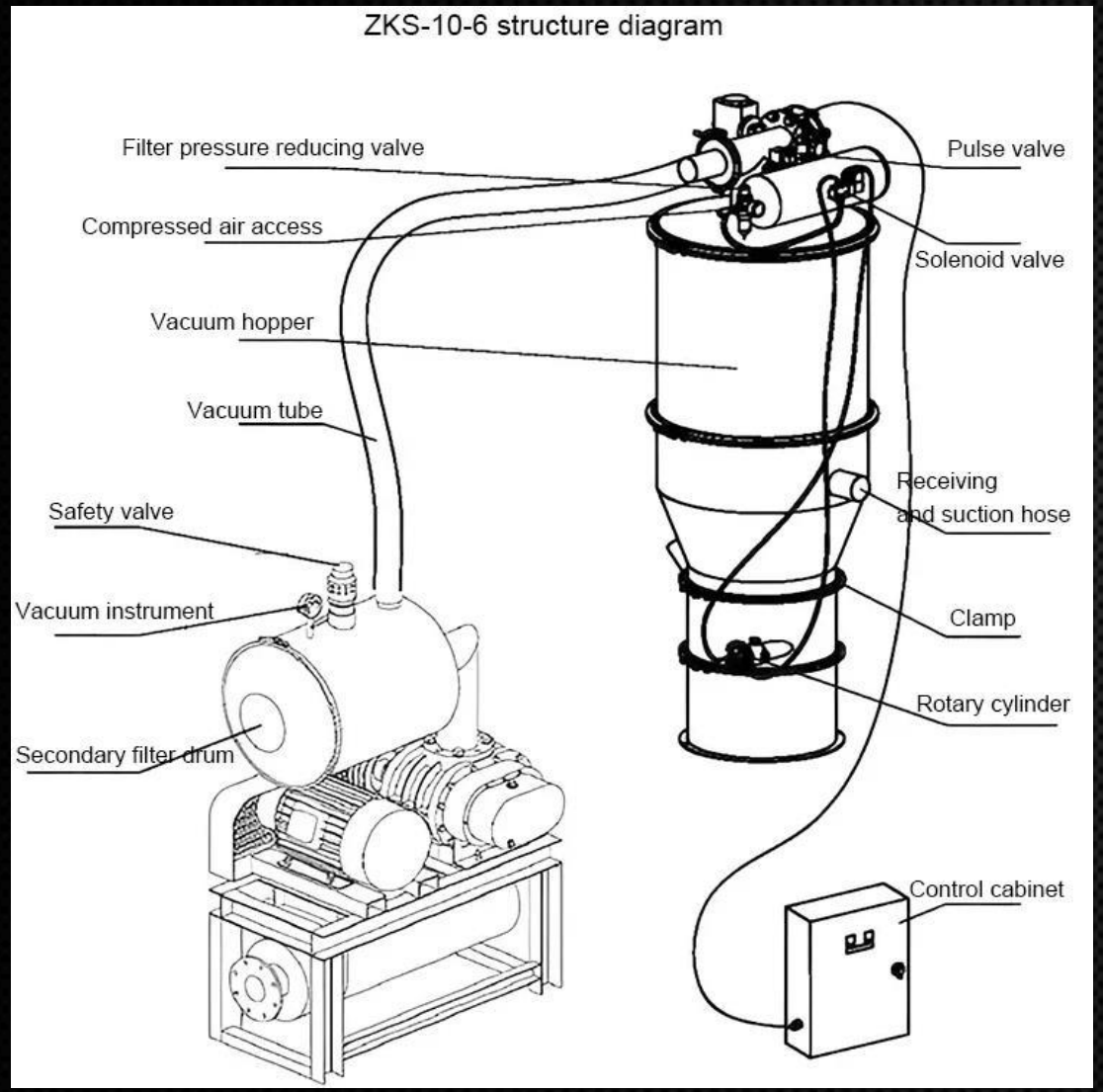
Dust-free enclosed conveying; high efficiency and energy saving with low-noise operation.

The vacuum feeder produced by our company is a kind of vacuum conveying equipment for powdery materials, granular materials, and powder-grain mixtures. The vacuum feeder can automatically transport various materials to the hoppers of packaging machines, in ection molding machines, crushers and other equipment, and can also directly transport the mixed materials to the mixer (such as V-type mixer, two-dimensional mixer) , Three-dimensional mixer, etc.), it reduces the labor intensity of workers and solves the problem of dust overtlow during feeding. It is the first choice for pharmaceutical factories and food factories to pass "GMP" certification to promote clean and civilized production.










# STRUCTURES

The vacuum feeder consists of a vacuum pump (no oil, no water), a vacuum hopper, a filter (with polyester film filter, pe filter, 316L stainless steel filter or titanium filter), compressed air blowback device , Pneumatic discharge door device, automatic material level control device, stainless steel suction nozzle, conveying hose, etc. The whole set of system is reasonably designed and beautifully manufactured.

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# FEATURES

## Fully Enclosed Design:

Material is conveyed within sealed pipelines and containers, eliminating dust leakage. This ensures a clean production environment and complies with GMP standards for pharmaceutical and food industries.

## Power Configuration:

Utilizes tri-lobe Roots blowers (for high-capacity models). Motor power ranges from 1.5~15kW, offering low energy consumption and stable vacuum performance.

## Low Noise Operation:

Significantly quieter than traditional mechanical pumps (e.g., vortex blower noise ≤75dB), making it suitable for noise-sensitive production lines.

## Automatic Cycling:

Achieves fully automated "suck-separate-discharge-backflush" cycles via PLC or timer controller. Supports integration with level sensors for automatic start  stop.

## Reverse Pulse Cleaning System:

After each discharge, compressed air pulses backflush the filter to remove adhered powder, preventing blockages and ensuring continuous operation (backflush duration is freely ad ustable).

## Mobility:

Equipment is integrated onto a mobile frame for rapid docking with mixers, packaging machines, tablet presses, etc., requiring no fixed installation.

# TECHNICAL PARAMETER

| Model | Motor Power(KW) | Conveying capacity(Koh) |
|---|---|---|
| HCSL-1 | 1.5 | 400 |
| HCSL-2 | 2.2 | 600 |
| HCSL-3 | 3 | 1200 |
| HCSL-4 | 5.5 | 2500 |
| HCSL-6 | 5.5 | 3200 |
| HCSL-7 | 7.5 | 6000 |
| HCSL-10-6 | 7.5 | 6000<br>When the conveying distance is 10 meters |
| HCSL-20-5 | 11 | 5000<br>When the conveying distance is 20 meters |

Note: Conveying capacity was measured using a 4-meter pipeline with wheat flour as the material.Conveying capacity decreases with longer pipelines and is significantly affected by material characteristics.

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# ULTRASONIC VIBRATING SCREEN MATERIAL SELECTION



## Various vacuum feeder forms



## Hand lifting type vacuum feeder



## Double disc valve vacuum feeder



## Continuous discharge type vacuum feeder



# VACUUM SOURCE



Three leaf roots blower



Sanitary vacuum pump

# 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. |















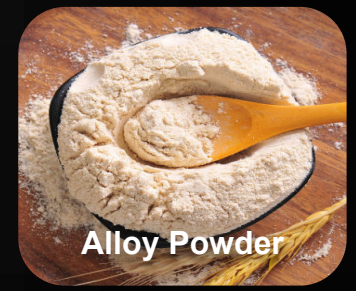












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# THE SERVICES WE CAN PROVIDE

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.

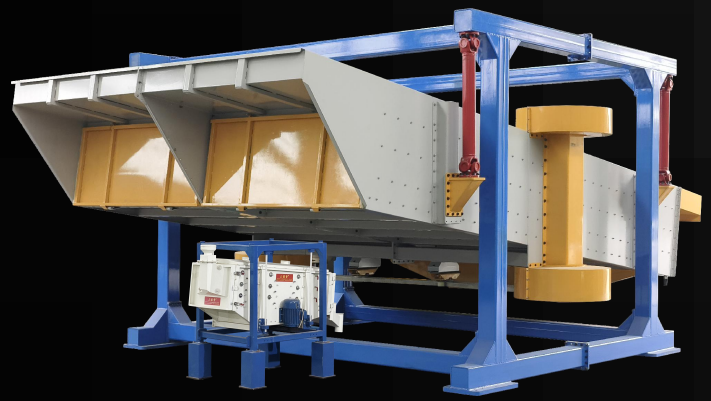
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① Timely response through various communication tools.

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

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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