



Pneumatic Conveying Systems

**Pneumatic Conveying Systems
for Granular Materials**

Granulate and Flakes



Pneumatic systems are now commonplace in many factories around the world to convey granules, pellets, flakes and other molded items efficiently. Depending on the client's needs, we can use either a positive or negative pressure system to convey different materials.

Modular and Custom Solutions

Our systems are built with standard modular components, making them quick to assemble, easy to modify, and adaptable to increased requirements after installation. Additionally, Kongsilde can create a custom system designed specifically for your production needs.

Inline Feeding

A pneumatic transportation system with inline feeding is extremely suitable for conveying of various light materials.

Injectors

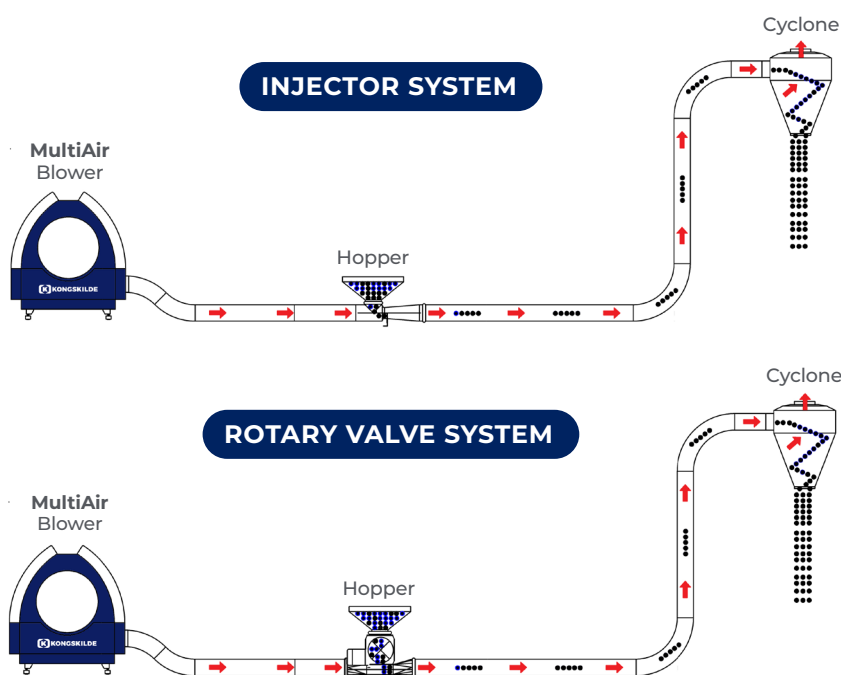
The injector system is ideally suited for conveying granules at rates less than 10,000 lbs per hour. The injector feeds the material into the positive air stream generated by the MultiAir blower. The cyclone separates the material from the air stream at the discharge point.

Rotary Valves

The rotary valve system is suited to handle higher capacity systems, and can also be used in low-capacity installations. The rotary valve feeds the material into the positive air stream generated by the MultiAir blower. The cyclone separates the material from the air stream at the discharge point.

Explore the Benefits of a Kongsilde Conveying Solution

- ✓ Can be installed in new or existing productions.
- ✓ Minimizes dust and improves worker safety.
- ✓ Easily adaptable for future capacity increases.
- ✓ Capable of conveying over long distances.
- ✓ Constructed from standard modular components.
- ✓ Ongoing support from Kongsilde's team of pneumatic experts.



Vacuum Conveying



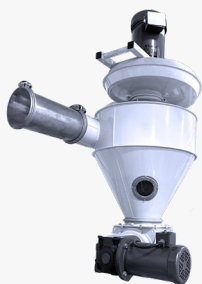
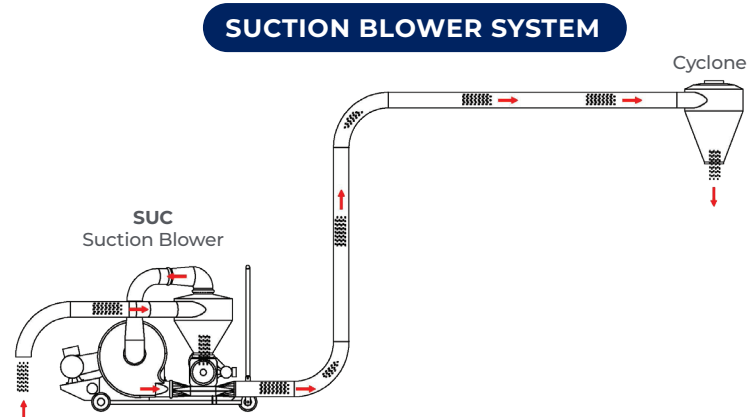
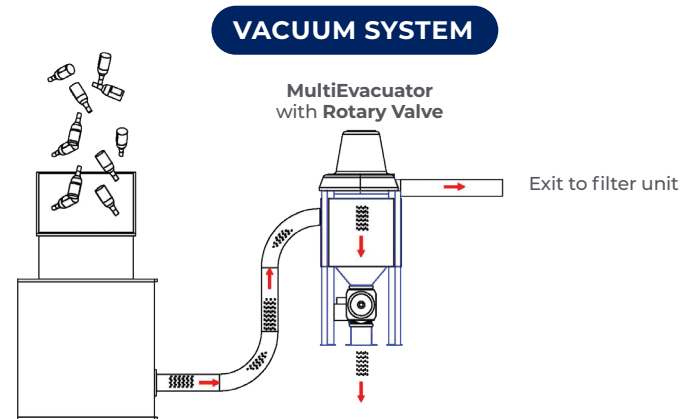
The vacuum pressure system is ideal for conveying material from multiple collecting points to different destinations, and material can be moved horizontally and vertically. The high performance Kongskilde suction blowers, when combined with the simple and flexible Kongskilde OK pipe system, will fit in anywhere, irrespective of building facilities.

Polyvac and MultiEvacuator Vacuum Systems

The Polyvac and MultiEvacuator are uniquely suited for the evacuation of re-processed material from shredders and granulators. These systems create a strong vacuum and ensure sufficient airflow through the granulator, keeping it cooled. No material passes through the blower; therefore, granules are not damaged and no additional dust is created. The rotary airlock prevents dust from contaminating the surrounding area keeping it clean and safe.

SUC Vacuum Pressure System

This SUC suction blower is ideally suited for applications requiring vacuum from multiple pickup points, like rail spurs, and then blowing material to various destinations using a combination of a vacuum and a pressure system. Typical applications for this system are rail car unloading, silos to day bins, granulators to storage bins, etc.



Polyvac Vacuum Loader



TF Injector



RF Rotary Valve



SUC Suction Blower



Rejects, EPS, & Tissue Paper Off-Cuts

Kongskilde's main components handle materials like EPS, EPP, and tissue paper off-cuts efficiently, whether in small or large quantities. These systems can connect to size reduction equipment, enabling closed-loop recycling.

Benefits

- Automating the handling of process waste (tops/tails, sprues & flash) through pneumatic conveying streamlines the task, saving time and effort.
- Using Kongskilde's ITF Venturi systems, finished products, such as plastic bottles, can be conveyed to pack-out stations.
- Rejects can be conveyed to downsizing or baling equipment. Pipe diameters can range from 3 1/8" - 23 5/8" (80 - 600mm) depending on the product size.

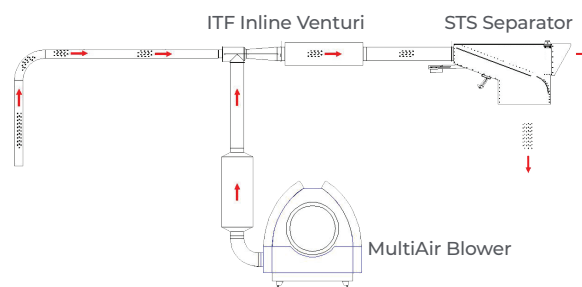
ITF Venturi System

The blower develops air pressure which passes through the ITF Venturi and creates a vacuum at the source, pulling the trim into the system. After the trim and air flow pass through the venturi the system turns into a pressure system, pushing the trim to the discharge.

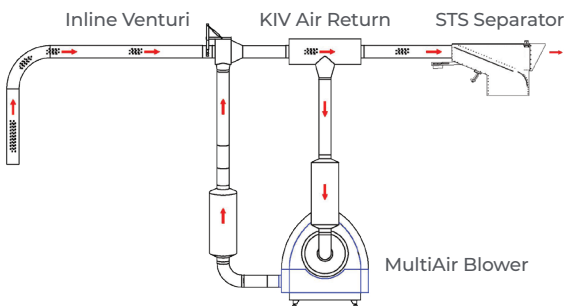
Air Return Unit

The KIV air return unit allows the blower to pull back airflow, thus removing the need to increase pipe size to handle the extra air volume generated from the venturi.

ITF VENTURI SYSTEM



KIV AIR RETURN SYSTEM



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