



Pneumatic Conveying Systems

**CONVEYING SYSTEMS
FOR GRANULAR MATERIALS**

Granulate and Flakes



Since 1949 Kongskilde has been perfecting the science of pneumatic material handling systems and providing trusted, custom engineered conveying solutions.

Pneumatic systems are now commonplace in many factories around the world to convey granules, pellets, flakes and other molded items in an efficient manner.

The conveying of these materials can be done using either a positive or negative pressure system depending on the client's requirements. Additionally, using Kongskilde's unique standard modular components these systems can be built quickly, are easily modified, and can be modified post-installation to account for increased requirements.

Pneumatic systems are a versatile way to convey material. Additionally, Kongskilde also has the ability to design a custom system suited to your production requirements.

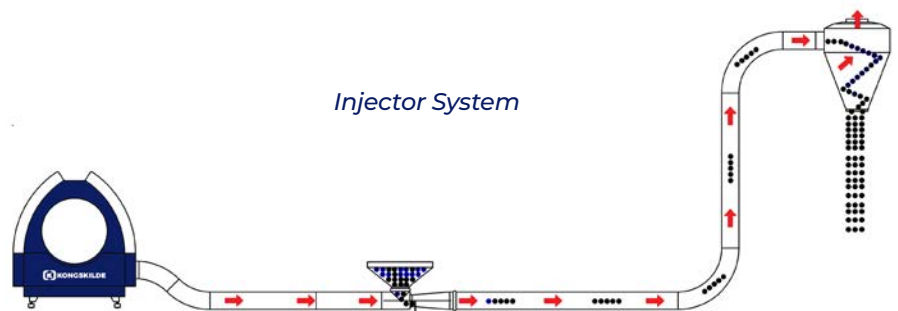
Benefits of a pneumatic system

- Easy to modify in the future to account for increases in capacity.
- Can be installed in existing productions to save floor space.
- Enclosed systems reduce dust on the production floor and improve worker safety.
- Ability to convey over long distances.

Inline Feeding

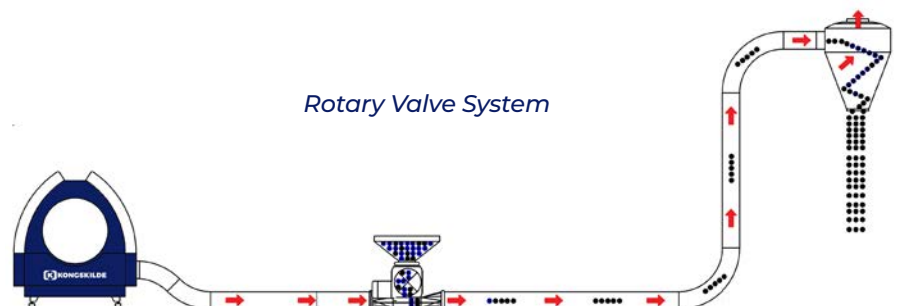
Injectors

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.



Vacuum Systems



Injector TF



Polyvac Unit



Suction blower



Rotary valve RF

These systems are relatively low maintenance and are able to run effortlessly 24/7 ensuring a worry free operation.

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 Kongsilde suction blowers, when combined with the simple and flexible Kongsilde OK pipe system, will fit in anywhere, irrespective of building facilities.

Vacuum Systems

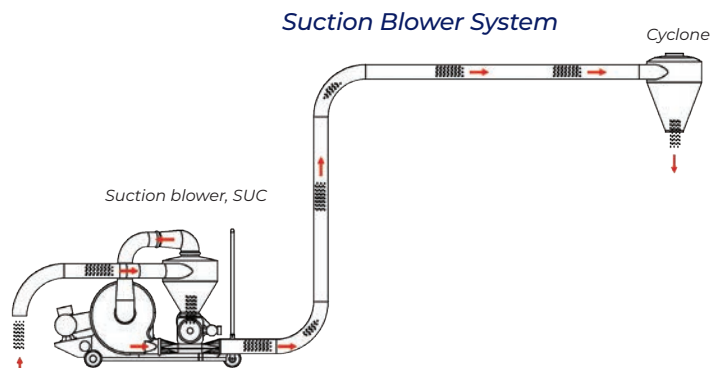
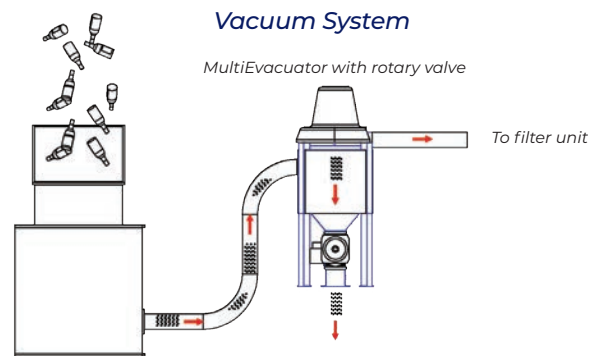
Polyvac and MultiEvacuator vacuum systems

The Polyvac and MultiEvacuator systems 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 keeps the entire factory 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.





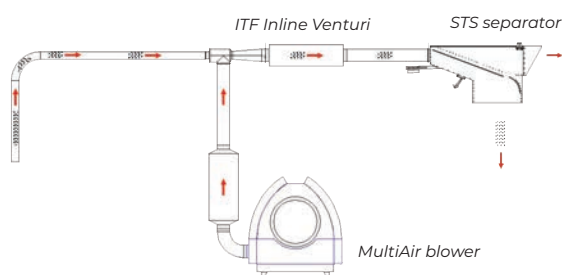
Rejects, EPS, & Tissue Paper Off-Cuts

Other material such as EPS, EPP and tissue paper off-cuts can be conveyed using Kongskilde's main components either in small batches or large volumes in an efficient manner. A Kongskilde conveying system can also be linked to size reduction equipment that can in turn be linked to a Kongskilde aspirator allowing for closed loop recycling.

With Kongskilde's versatile modular components, these systems can be used in many different applications to improve worker safety, free up manpower and improve production rates—all resulting in an improved bottom line.

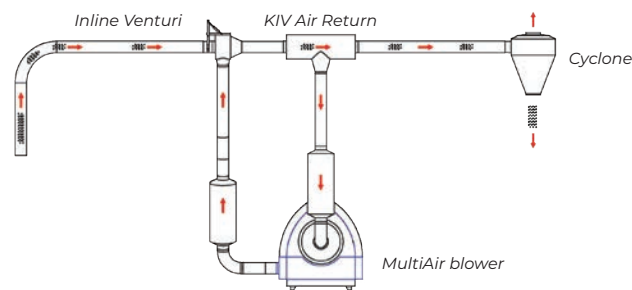
Benefits

- Pneumatically conveying rejects (tops/tails, sprues & flash) automates the time consuming and cumbersome nature of moving process waste.
- 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.

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